B O N N E V I L L E P O W E R A D M I N I S T R A T I O N

2013 Pacific Northwest Loads and Resources Study

Technical Appendix, Volume 1: Energy Analysis

October 2013

2013 PACIFIC NORTHWEST LOADS AND RESOURCES STUDY
The White Book

TECHNICAL APPENDIX

Volume 1

Energy Analysis

BONNEVILLE POWER ADMINISTRATION
October 2013

Cover Picture:

Source: BPA Photo archive

Pictured is of Dworshak Dam. Dworshak Dam is a hydroelectric dam on the North Fork Clearwater River, at river mile 1.9. It is located in Ahsahka, Idaho, owned and operated by the U.S. Corps of Engineers.

Dworshak Dam was authorized in 1962, dam construction started in 1963, completed in 1973. Dworshak Dam includes 3 generating units, with a nameplate generating capability of 400 megawatts.

ACKNOWLEDGMENTS

Preparation of the annual Pacific Northwest loads and resources study is a complex, multidisciplinary effort. BPA wishes to acknowledge the team—BPA staff and others—whose diligence and dedication result in a reliable, high quality document.

Bonneville Power Administration

Generation Asset Management:

Long Term Power Planning Group
Regional Coordination Group
Operational Planning Group

Customer Support Services:

Load Forecasting and Analysis Group

Bulk Marketing and Transmission Services:

Long Term Sales and Purchasing Group

NW Requirements Marketing:

Office of General Counsel

Power Services Business Operations

Pacific Northwest Utilities Conference Committee

Northwest Power & Conservation Council

Table of Contents

SECTION 1: ANNUAL ENERGY – OPERATING YEAR 2014 - 2023 3

Exhibit 1 Federal Report Surplus/Deficit - Annual 5
Exhibit 2 Regional Report Surplus/Deficit - Annual 9
Exhibit 3 Regional Total Retail Load - Annual 13
Exhibit 4 Regional Exports - Annual 17
Exhibit 5 Regional Imports - Annual 21
Exhibit 6 Regional Intra-Regional Transfers - Annual 25
Exhibit 7 BPA Sales to Preference and Legacy Customers - Annual 29
Exhibit 8 Regional Regulated Hydro - Annual 33
Exhibit 9 Regional Independent Hydro - Annual 37
Exhibit 10 Regional Small Hydro - Annual 41
Exhibit 11 Regional Combustion Turbines - Annual 47
Exhibit 12 Regional Renewable Resources - Annual 51
Exhibit 13 Regional Cogeneration Resources - Annual 57
Exhibit 14 Regional Large Thermal Resources - Annual 61
Exhibit 15 Regional Small Thermal & Misc - Annual 65
Exhibit 16 Non-Federal CER Deliveries to BPA - Annual 69
Exhibit 17 Federal Report Surplus/Deficit
- 80 Water Year Federal Surplus/Deficit by Water Year 73
Exhibit 18 Regional Report Surplus/Deficit
- 80 Water Year Regional Surplus/Deficit by Water Yearl 77

SECTION 2: MONTHLY ENERGY – OPERATING YEAR 2014 - 2023 81

Exhibit 19 Federal Report Surplus/Deficit - Monthly 83
Exhibit 20 Regional Report Surplus/Deficit - Monthly 95
Exhibit 21 Regional Total Retail Load - Monthly 117
Exhibit 22 Regional Exports - Monthly 129
Exhibit 23 Regional Imports - Monthly 141
Exhibit 24 Regional Intra-Regional Transfers - Monthly 153
Exhibit 25 BPA Sales to Preference and Legacy Customers - Monthly 165
Exhibit 26 Regional Regulated Hydro - Monthly 177
Exhibit 27 Regional Independent Hydro - Monthly 199
Exhibit 28 Regional Small Hydro - Monthly 221
Exhibit 29 Regional Combustion Turbines - Monthly 263
Exhibit 30 Regional Renewable Resources - Monthly 275
Exhibit 31 Regional Cogeneration Resources - Monthly 317
Exhibit 32 Regional Large Thermal Resources - Monthly 339
Exhibit 33 Regional Small Thermal & Misc - Monthly 351
Exhibit 34 Non-Federal CER Deliveries to BPA - Monthly 363
Exhibit 35 Federal Report Surplus/Deficit
- 80 Water Year Federal Surplus/Deficit by Water Year 375
Exhibit 36 Regional Report Surplus/Deficit
- 80 Water Year Regional Surplus/Deficit by Water Year 397

Section 1: Annual Energy Operating Year 2014 to 2023

THIS PAGE INTENTIONALLY LEFT BLANK

Exhibit 1
Federal Report Surplus Deficit

Annual Energy
Operating Year 2014 to 2023
Using 1937-Water Conditions

THIS PAGE INTENTIONALLY LEFT BLANK

Loads and Resources - Federal System

Operating Year: 2014 to 2023 Water Year: 1937

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
	Firm Obligations										
1	**Non-Utility Obligation**	608	610	613	615	616	629	643	647	648	648
2	Federal Agencies	116	118	121	123	124	137	151	155	156	156
3	USBR Obligation	180	180	180	180	180	180	180	180	180	180
4	DSI Obligation	312	312	312	312	312	312	312	312	312	312
5	**Transfers Out**	7583	7552	7562	7578	7654	7583	7619	7610	7679	7668
6	Load Following 2012 PSC	3106	3163	3180	3215	3250	3283	3313	3348	3378	3408
7	Block 2012 PSC	21.7	26.3	27.2	28.1	28.8	28.9	29.2	29.2	29.2	29.2
8	Slice Block 2012 PSC	1781	1842	1806	1841	1833	1848	1830	1829	1835	1838
9	Slice Right to Power 2012 PSC	1933	1871	1901	1856	1902	1887	1927	1889	1927	1888
10	Exports	596	556	553	544	546	527	509	504	499	495
11	Intra-Regional Transfers (Out)	145	93.6	93.9	93.6	93.6	10.3	10.3	10.3	10.3	10.3
12	Federal Diversity	0	0	0	0	0	0	0	0	0	0
13	**Total Firm Obligations**	**8191**	**8162**	**8174**	**8193**	**8270**	**8212**	**8261**	**8257**	**8327**	**8316**
	Net Resources										
1	**Net Hydro**	6909	6837	6815	6818	6818	6817	6813	6817	6807	6805
2	Regulated Hydro - Net	6556	6483	6462	6464	6465	6464	6460	6463	6465	6465
3	Independent Hydro - Net	354	354	353	354	354	354	353	354	342	340
4	**Other Resources**	1112	960	1106	941	1093	941	1093	941	1093	941
5	Cogeneration Resources	19.2	19.2	13.1	0	0	0	0	0	0	0
6	Combustion Turbines	0	0	0	0	0	0	0	0	0	0
7	Large Thermal Resources	1030	878	1030	878	1030	878	1030	878	1030	878
8	Renewable Resources	60.3	60.3	60.2	60.3	60.3	60.3	60.2	60.3	60.3	60.3
9	Small Hydro Resources	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88
10	Small Thermal & Misc.	0	0	0	0	0	0	0	0	0	0
11	**Contract Purchases**	484	402	396	380	347	334	216	201	200	198
12	Imports	57.7	57.4	51.2	33.2	33.2	33.2	33.1	33.2	33.2	33.2
13	Intra-Regional Transfers (In)	253	173	171	175	142	130	13.0	0	0	0
14	Non-Federal CER	137	137	137	137	137	135	134	132	131	130
15	Slice Transmission Loss Return	36.4	35.3	35.8	34.9	35.6	35.2	36.0	35.3	36.0	35.3
16	Augmentation Purchases	0	0	0	0	0	0	0	0	0	0
17	**Reserves & Losses**	-240	-231	-235	-230	-233	-228	-229	-224	-228	-224
18	Contingency Reserves (Spinning)	0	0	0	0	0	0	0	0	0	0
19	Contingency Reserves (Non-Spinning)	0	0	0	0	0	0	0	0	0	0
20	Load Following Reserves	0	0	0	0	0	0	0	0	0	0
21	Generation Imbalance Reserves	0	0	0	0	0	0	0	0	0	0
22	Transmission Losses	-240	-231	-235	-230	-233	-228	-229	-224	-228	-224
23	**Total Net Resources**	**8266**	**7967**	**8083**	**7909**	**8026**	**7864**	**7893**	**7734**	**7872**	**7720**
24	**Total Surplus/Deficit**	**74.8**	**-195**	**-91.6**	**-283**	**-244**	**-348**	**-368**	**-523**	**-455**	**-596**

THIS PAGE INTENTIONALLY LEFT BLANK

Exhibit 2
Regional Report Surplus Deficit

Annual Energy
Operating Year 2014 to 2023
Using 1937-Water Conditions

Loads and Resources - Pacific Northwest Region

Operating Year: 2014 to 2023 Water Year: 1937

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
	Firm Loads										
1	**Regional Firm Loads**	21398	21942	22325	22681	22985	23280	23564	23861	24144	24417
2	Federal Agency	126	128	131	133	134	147	161	165	166	166
3	USBR	180	180	180	180	180	180	180	180	180	180
4	Cooperative	1831	1916	1954	2001	2044	2089	2130	2178	2205	2232
5	Municipality	2729	2741	2748	2766	2783	2797	2809	2825	2839	2852
6	Public Utility District	4295	4376	4414	4467	4509	4549	4581	4626	4682	4728
7	Investor-Owned Utility	11401	11726	11980	12206	12406	12588	12772	12954	13139	13324
8	Marketer	386	388	390	391	392	393	394	396	397	398
9	Direct-Service Industry	450	486	530	537	537	537	537	537	537	537
10	**Exports**	1580	1483	1428	1414	1392	1380	1371	1366	1316	1287
11	Canada	531	506	515	510	512	507	502	497	492	487
12	East Continental Divide	9.91	8.45	8.45	8.45	8.45	8.45	8.45	8.45	8.45	8.45
13	Inland Southwest	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8
14	Pacific Southwest	1024	953	890	880	857	850	846	847	801	777
15	Other	0	0	0	0	0	0	0	0	0	0
16	**Federal Diversity**	0	0	0	0	0	0	0	0	0	0
17		0	0	0	0	0	0	0	0	0	0
18	**Total Firm Loads**	**22977**	**23424**	**23753**	**24095**	**24378**	**24660**	**24934**	**25227**	**25461**	**25705**
	Non-Firm Loads										
1	**Regional Non-Firm Loads**	10.6	10.6	10.7	10.6	10.6	10.6	10.7	10.7	10.7	10.7
2	Federal Agency	0	0	0	0	0	0	0	0	0	0
3	USBR	0	0	0	0	0	0	0	0	0	0
4	Cooperative	0	0	0	0	0	0	0	0	0	0
5	Municipality	0	0	0	0	0	0	0	0	0	0
6	Public Utility District	10.6	10.6	10.7	10.6	10.6	10.6	10.7	10.7	10.7	10.7
7	Investor-Owned Utility	0	0	0	0	0	0	0	0	0	0
8	Direct-Service Industry	0	0	0	0	0	0	0	0	0	0
9	Marketer	0	0	0	0	0	0	0	0	0	0
10	**Total Non-Firm Loads**	**10.6**	**10.6**	**10.7**	**10.6**	**10.6**	**10.6**	**10.7**	**10.7**	**10.7**	**10.7**
	Resources										
1	**Hydro**	11887	11745	11753	11758	11758	11757	11751	11757	11759	11759
2	Regulated Hydro - Net	10836	10694	10703	10707	10707	10706	10700	10706	10708	10708
3	Independent Hydro - Net	1051	1051	1050	1051	1051	1051	1050	1051	1051	1051
4	**Other Resources**	16460	16469	16713	16896	17190	16962	17090	16793	16603	16472
5	Cogeneration Resources	2613	2616	2612	2615	2619	2603	2617	2623	2603	2616
6	Combustion Turbine Resources	5428	5533	5616	5957	5989	5986	5987	5989	5989	5989
7	Large Thermal Resources	6135	6034	6138	5966	6225	6018	6131	5824	5654	5510
8	Renewable Resources	1997	1998	2060	2071	2069	2070	2069	2071	2070	2070
9	Small Hydro	251	251	251	251	251	250	250	251	251	251
10	Small Thermal & Miscellaneous	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9
11	**Imports**	776	784	760	746	751	743	749	753	758	763
12	Canada	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2
13	East of Continental Divide	135	136	138	139	140	142	143	144	145	146
14	Inland Southwest	461	468	473	476	480	484	487	491	494	498
15	Pacific Southwest	109	108	77.7	59.5	59.5	47.1	47.2	47.1	47.1	47.1

Loads and Resources - Pacific Northwest Region

Operating Year: 2014 to 2023 Water Year: 1937

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
16	Other	0	0	0	0	0	0	0	0	0	0
17	**Reserves & Losses**	-821	-818	-824	-829	-838	-831	-834	-826	-821	-818
18	Contingency Reserves (Non-Spinning)	0	0	0	0	0	0	0	0	0	0
19	Contingency Reserves (Spinning)	0	0	0	0	0	0	0	0	0	0
20	Generation Imbalance Reserves	0	0	0	0	0	0	0	0	0	0
21	Load Following Reserves	0	0	0	0	0	0	0	0	0	0
22	Transmission Losses	-821	-818	-824	-829	-838	-831	-834	-826	-821	-818
23	**Total Resources**	**28302**	**28180**	**28401**	**28571**	**28861**	**28632**	**28755**	**28476**	**28298**	**28175**
24	**Total Surplus/Deficit**	**5314**	**4745**	**4637**	**4466**	**4473**	**3961**	**3810**	**3239**	**2827**	**2460**

THIS PAGE INTENTIONALLY LEFT BLANK

Exhibit 3
Table A-1: Regional Total Retail Loads

Annual Energy
Operating Year 2014 to 2023
Using 1937-Water Conditions

THIS PAGE INTENTIONALLY LEFT BLANK

Table A-1: Regional: Total Retail Loads

Operating Year 2014 to 2023

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
	Firm Loads										
1	Federal Agency	126	128	131	133	134	147	161	165	166	166
2	USBR	180	180	180	180	180	180	180	180	180	180
3	Cooperative	1831	1916	1954	2001	2044	2089	2130	2178	2205	2232
4	Municipality	2729	2741	2748	2766	2783	2797	2809	2825	2839	2852
5	Public Utility District	4295	4376	4414	4467	4509	4549	4581	4626	4682	4728
6	Investor-Owned Utility	11401	11726	11980	12206	12406	12588	12772	12954	13139	13324
7	Marketer	386	388	390	391	392	393	394	396	397	398
8	Direct-Service Industry	450	486	530	537	537	537	537	537	537	537
9	**Total Firm Loads**	**21398**	**21942**	**22325**	**22681**	**22985**	**23280**	**23564**	**23861**	**24144**	**24417**
	Non-Firm Loads										
10	Public Utility District	10.6	10.6	10.7	10.6	10.6	10.6	10.7	10.7	10.7	10.7
11	**Total Non-Firm Loads**	**10.6**	**10.6**	**10.7**	**10.6**	**10.6**	**10.6**	**10.7**	**10.7**	**10.7**	**10.7**
	Total Regional Loads (Firm+Non-Firm)										
12	Federal Agency	126	128	131	133	134	147	161	165	166	166
13	USBR	180	180	180	180	180	180	180	180	180	180
14	Cooperative	1831	1916	1954	2001	2044	2089	2130	2178	2205	2232
15	Municipality	2729	2741	2748	2766	2783	2797	2809	2825	2839	2852
16	Public Utility District	4306	4387	4424	4478	4520	4560	4591	4636	4693	4739
17	Investor-Owned Utility	11401	11726	11980	12206	12406	12588	12772	12954	13139	13324
18	Marketer	386	388	390	391	392	393	394	396	397	398
19	Direct-Service Industry	450	486	530	537	537	537	537	537	537	537
20	**Total Loads**	**21408**	**21952**	**22335**	**22692**	**22996**	**23291**	**23574**	**23871**	**24155**	**24428**

THIS PAGE INTENTIONALLY LEFT BLANK

Exhibit 4
Table A-2: Regional Exports

Annual Energy
Operating Year 2014 to 2023
Using 1937-Water Conditions

THIS PAGE INTENTIONALLY LEFT BLANK

Table A-2: Regional Exports

Operating Year 2014 to 2014

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
	Canada										
	Contracts	**531**	**506**	**515**	**510**	**512**	**507**	**502**	**497**	**492**	**487**
1	BPA-P to BCHP Trty LCADel	32.2	32.2	32.1	32.2	32.2	32.2	32.1	32.2	32.2	32.2
2	BPA-P to BCHP Trty CEA	488	464	472	468	469	464	459	454	449	445
3	BPA-P to BCHP NTSA Del	10.7	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
4	**Total Exports to CAN**	**531**	**506**	**515**	**510**	**512**	**507**	**502**	**497**	**492**	**487**
	East Continental Divide										
	Contracts	**9.91**	**8.45**	**8.45**	**8.45**	**8.45**	**8.45**	**8.45**	**8.45**	**8.45**	**8.45**
5	AVWP to PPLM PwrS LTFirm	2.46	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
6	BPA-P to Other Entities	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.45
7	**Total Exports to ECD**	**9.91**	**8.45**	**8.45**	**8.45**	**8.45**	**8.45**	**8.45**	**8.45**	**8.45**	**8.45**
	Inland Southwest										
	Transfer Services										
8	UAMP to UAMP TS PwrP	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8
9	**Total Exports to ISW**	**14.8**	**14.8**	**14.8**	**14.8**	**14.8**	**14.8**	**14.8**	**14.8**	**14.8**	**14.8**
	Pacific Southwest										
	Contracts	**227**	**158**	**97.8**	**87.7**	**82.7**	**63.7**	**51.2**	**51.4**	**51.4**	**51.4**
10	AVWP to SMUD PwrS LTFirm	50.0	21.0	0	0	0	0	0	0	0	0
11	BPA-P to PASA CNX Del	1.13	0.74	0	0	0	0	0	0	0	0
12	BPA-P to PASA SNX Del	2.51	2.51	0	0	0	0	0	0	0	0
13	BPA-P to Other Entities	40.7	26.5	26.3	26.0	26.1	12.4	0	0	0	0
14	BPA-P to RVSD CNX Del	4.98	4.98	4.00	0	0	0	0	0	0	0
15	BPA-P to RVSD SNX Del	6.68	6.68	0	0	0	0	0	0	0	0
16	MCQC to BURB PwrS LTFirm	4.26	4.26	4.25	4.26	4.26	4.26	4.25	4.26	4.26	4.26
17	PPL to REDD PwrS LTFirm	11.1	11.1	5.96	0	0	0	0	0	0	0
18	PPL to SMUD PwrS LTFirm	48.1	23.2	0	0	0	0	0	0	0	0
19	PSE to PG&E SNX Del	47.1	47.1	47.0	47.1	47.1	47.1	47.0	47.1	47.1	47.1
20	SCL to NCPA SNX Del	10.3	10.3	10.3	10.3	5.33	0	0	0	0	0
	Transfer Services	**767**	**767**	**766**	**767**	**749**	**762**	**770**	**771**	**726**	**703**
21	BURB to BURB TS PwrP	2.63	2.63	2.62	2.63	2.63	2.63	2.62	2.63	2.63	2.63
22	GLEN to GLEN TS PwrP	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8
23	LDWP to LDWP TS PwrP	118	118	118	118	118	118	118	118	118	118
24	MID to MID TS PwrP	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0
25	Other Entities to Other Entities	102	102	101	102	102	102	101	102	102	102
26	PG&E to PG&E TS PwrP	65.0	65.0	65.0	65.0	65.0	77.5	86.4	86.5	86.5	63.1
27	SCE to SCE TS PwrP	223	223	222	223	223	223	222	223	223	223
28	SDGE to SDGE TS PwrP	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
29	SMUD to SMUD TS PwrP	62.1	62.1	62.1	62.1	44.3	44.3	44.3	44.3	0	0
30	TID to TID TS PwrP	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8
31	Intertie Losses	30	28	26	26	25	25	25	25	23	23
32	**Total Exports to PSW**	**1024**	**953**	**890**	**880**	**857**	**850**	**846**	**847**	**801**	**777**
	Total Exports										
33	Federal Entities	596	556	553	544	546	527	509	504	499	495
34	Investor Owned Utilities	555	499	449	444	444	456	465	465	465	442
35	Marketer	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8
36	Municipality	344	344	343	344	321	315	315	315	271	271
37	**Total Exports**	**1551**	**1456**	**1403**	**1389**	**1368**	**1356**	**1346**	**1342**	**1293**	**1265**

THIS PAGE INTENTIONALLY LEFT BLANK

Exhibit 5
Table A-3: Regional Imports

Annual Energy
Operating Year 2014 to 2023
Using 1937-Water Conditions

THIS PAGE INTENTIONALLY LEFT BLANK

Table A-3: Regional: Imports

Operating Year 2014 to 2014

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW - Contract	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
	Canada										
	Contracts	**71.2**	**71.2**	**71.2**	**71.2**	**71.2**	**71.2**	**71.2**	**71.2**	**71.2**	**71.2**
1	BCHP to SCL PwrS LTFirm	35.6	35.6	35.7	35.6	35.6	35.6	35.7	35.6	35.6	35.6
2	BCHP to BPA-P Trty LCALgcyRtn	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
3	BCHP to BPA-P Trty LCARtn	32.2	32.2	32.1	32.2	32.2	32.2	32.1	32.2	32.2	32.2
4	Other Entities to PSE	2.35	2.35	2.35	2.35	2.35	2.35	2.35	2.35	2.35	2.35
5	**Total Imports From CAN**	**71.2**	**71.2**	**71.2**	**71.2**	**71.2**	**71.2**	**71.2**	**71.2**	**71.2**	**71.2**
	East Continental Divide										
	Transfer Services										
6	Unk_ECD_Mrktr to Other Entities	135	136	138	139	140	142	143	144	145	146
7	**Total Imports From ECD**	**135**	**136**	**138**	**139**	**140**	**142**	**143**	**144**	**145**	**146**
	Inland Southwest										
	Transfer Services										
8	RMP to RMP TS PwrP	461	468	473	476	480	484	487	491	494	498
9	**Total Imports From ISW**	**461**	**468**	**473**	**476**	**480**	**484**	**487**	**491**	**494**	**498**
	Pacific Southwest										
	Contracts	**109**	**108**	**77.7**	**59.5**	**59.5**	**47.1**	**47.2**	**47.1**	**47.1**	**47.1**
10	BARC to PSE PwrS LTFirm	24.7	24.7	0	0	0	0	0	0	0	0
11	PASA to BPA-P CNX EER	1.88	1.88	0	0	0	0	0	0	0	0
12	PASA to BPA-P CNX Repl	1.13	0.75	0	0	0	0	0	0	0	0
13	PASA to BPA-P SNX Ret	2.50	2.50	0	0	0	0	0	0	0	0
14	RVSD to BPA-P CNX EER	7.34	7.34	7.32	0	0	0	0	0	0	0
15	RVSD to BPA-P CNX Repl	4.98	4.98	4.04	0	0	0	0	0	0	0
16	RVSD to BPA-P SNX Ret	6.68	6.68	6.67	0	0	0	0	0	0	0
17	PG&E to PSE SNX Ret	47.1	47.1	47.2	47.1	47.1	47.1	47.2	47.1	47.1	47.1
18	NCPA to SCL SNX Ret	12.4	12.4	12.5	12.4	12.4	0	0	0	0	0
19	**Total Imports From PSW**	**109**	**108**	**77.7**	**59.5**	**59.5**	**47.1**	**47.2**	**47.1**	**47.1**	**47.1**
	Total Imports										
20	Federal Entities	57.7	57.4	51.2	33.2	33.2	33.2	33.1	33.2	33.2	33.2
21	Investor Owned Utilities	535	543	522	526	529	533	537	540	544	548
22	Marketer	135	136	138	139	140	142	143	144	145	146
23	Municipality	48.0	48.0	48.1	48.0	48.0	35.6	35.7	35.6	35.6	35.6
24	**Total Imports**	**776**	**784**	**760**	**746**	**751**	**743**	**749**	**753**	**758**	**763**

THIS PAGE INTENTIONALLY LEFT BLANK

Exhibit 6
Table A-4: Regional Intra-Regional Transfers

Annual Energy
Operating Year 2014 to 2023
Using 1937-Water Conditions

THIS PAGE INTENTIONALLY LEFT BLANK

Table A-4: Regional: Intra-Regional Transfers

Operating Year 2014 to 2023

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
	Intra-Regional Transfers										
	Contracts	**830**	**695**	**692**	**546**	**451**	**356**	**239**	**226**	**226**	**226**
1	AVWP to BPA-P Setl WNP3 Rtn	41.6	41.6	41.7	41.6	0	0	0	0	0	0
2	AVWP to PGE CapX Del	44.6	44.6	44.6	18.7	0	0	0	0	0	0
3	BPA-P to AVWP Setl WNP3 Del	41.7	41.7	41.8	41.6	41.6	0	0	0	0	0
4	BPA-P to BPA-T Ops IntrlAgmt	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00
5	BPA-P to Other Entities	51.5	0	0	0	0	0	0	0	0	0
6	BPA-P to PPL SNX SprgDel	0	0	0	0	0	0	0	0	0	0
7	BPA-P to PPL SNX SumrDel	0	0	0	0	0	0	0	0	0	0
8	BPA-P to PSE Ops UBkr Repl	1.28	1.28	1.28	1.28	1.28	1.28	1.29	1.27	1.28	1.28
9	BPA-P to PSE Setl WNP3 Del	41.7	41.7	41.8	41.6	41.6	0	0	0	0	0
10	CIDF to RMP PwrS LTFirm	5.48	5.48	5.46	5.47	5.47	5.47	5.46	5.47	5.47	5.47
11	CLAT to IPC NX Ret	4.75	4.75	1.26	0	0	0	0	0	0	0
12	DOPD to Other Entities	0	0	0	0	0	0	0	0	0	0
13	EWEB to PGE CapX Del	2.50	0	0	0	0	0	0	0	0	0
14	GCPD to PPL PwrS LTFirm	9.99	10.0	10.00	10.0	9.99	10.0	10.00	10.0	9.99	10.0
15	GHPD to GHP PwrS LTFirm	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
16	IPC to CLAT NX Del	5.02	5.02	3.00	0	0	0	0	0	0	0
17	JPMV to BPA-P PwrP T2	0	0	42.5	8.52	0	0	0	0	0	0
18	NWE to MVP PwrS LTFirm	9.66	9.66	9.65	9.66	9.66	9.66	9.65	9.66	9.66	9.66
19	Other Entities to BPA-P	147	89.5	45.4	83.1	100.0	88.5	13.0	0	0	0
20	Other Entities to COPD	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
21	Other Entities to DOPD	20.0	22.5	25.1	8.96	0	0	0	0	0	0
22	Other Entities to Other Entities	3.33	3.33	3.33	3.33	3.33	3.33	3.33	3.33	3.33	3.33
23	Other Entities to PGE	92.1	92.1	92.1	15.4	0	0	0	0	0	0
24	PGE to AVWP CapX Repl	44.6	44.6	44.6	18.7	0	0	0	0	0	0
25	PGE to EWEB CapX Repl	2.50	0	0	0	0	0	0	0	0	0
26	PGE to PPL PwrS LTFirm	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
27	PPL to BPA-P SNX SprgRtn	0	0	0	0	0	0	0	0	0	0
28	PPL to BPA-P SNX SumrRtn	22.8	0	0	0	0	0	0	0	0	0
29	PSE to AVWP PwrS LTFirm	0	0	0	0	0	0	0	0	0	0
30	PSE to BPA-P Setl WNP3 Rtn	41.6	41.6	41.7	41.6	41.6	41.6	0	0	0	0
31	SCL to POPD PwrS LTFirm	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7
32	SPN to PGE PwrS LTFirm	104	104	104	104	104	104	104	104	104	104
33	TAUC to AVWP PwrS LTFirm	0	0	0	0	0	0	0	0	0	0
34	**Total Intra-Regional Transfers**	**830**	**695**	**692**	**546**	**451**	**356**	**239**	**226**	**226**	**226**
	Intra-Regional Contracts Out										
35	Federal Entities	145	93.6	93.9	93.6	93.6	10.3	10.3	10.3	10.3	10.3
36	Investor Owned Utilities	334	308	306	174	80.1	65.4	12.7	12.7	12.7	12.7
37	Marketer	269	215	216	204	203	206	142	129	129	129
38	Municipality	51.9	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4
39	Public Utility District	29.4	29.5	26.0	24.7	24.7	24.7	24.7	24.7	24.7	24.7
40	**Total Regional Contracts Out**	**830**	**695**	**692**	**546**	**451**	**356**	**239**	**226**	**226**	**226**
	Intra-Regional Contracts In										
41	Federal Entities	271	191	190	193	160	149	31.6	18.7	18.7	18.7
42	Investor Owned Utilities	399	391	388	258	205	122	122	122	122	122
43	Marketer	60.3	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
44	Municipality	5.83	3.33	3.33	3.33	3.33	3.33	3.33	3.33	3.33	3.33
45	Public Utility District	92.7	95.2	95.8	76.7	67.7	67.7	67.7	67.7	67.7	67.7
46	**Total Regional Contracts In**	**830**	**695**	**692**	**546**	**451**	**356**	**239**	**226**	**226**	**226**

THIS PAGE INTENTIONALLY LEFT BLANK

Exhibit 7

Table A-6: BPA Sales to Preference and Legacy Customers

Annual Energy

Operating Year 2014 to 2023

Using 1937-Water Conditions

THIS PAGE INTENTIONALLY LEFT BLANK

Table A-6: BPA Sales to Preference and Legacy Customers

Operating Year: 2014 to 2023 Water Year: 1937

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
	Pacific Northwest										
1	**DSI Obligation**	**312**	**312**	**312**	**312**	**312**	**312**	**312**	**312**	**312**	**312**
2	Direct Service Industry	312	312	312	312	312	312	312	312	312	312
3	**Load Following**	**3222**	**3281**	**3301**	**3338**	**3374**	**3420**	**3464**	**3504**	**3534**	**3564**
4	Cooperative	1820	1854	1861	1883	1907	1930	1952	1978	1999	2020
5	Municipality	588	604	611	620	626	631	636	641	645	650
6	Public Utility District	698	705	708	713	717	721	725	730	734	738
7	Federal Entities	116	118	121	123	124	137	151	155	156	156
8	**Slice Block**	**1781**	**1842**	**1806**	**1841**	**1833**	**1848**	**1830**	**1829**	**1835**	**1838**
9	Municipality	603	622	604	614	611	616	610	609	609	610
10	Public Utility District	1178	1220	1202	1226	1222	1232	1220	1220	1226	1228
11	**Slice Right to Power**	**1933**	**1871**	**1901**	**1856**	**1902**	**1887**	**1927**	**1889**	**1927**	**1888**
12	Municipality	648	628	638	623	639	633	647	634	647	634
13	Public Utility District	1284	1243	1263	1233	1264	1253	1280	1255	1280	1254
14	**Tier 1 Block**	**21.7**	**26.3**	**27.2**	**28.1**	**28.8**	**28.9**	**29.2**	**29.2**	**29.2**	**29.2**
15	Public Utility District	21.7	26.3	27.2	28.1	28.8	28.9	29.2	29.2	29.2	29.2
16	**USBR Obligation**	**180**	**180**	**180**	**180**	**180**	**180**	**180**	**180**	**180**	**180**
17	USBR	180	180	180	180	180	180	180	180	180	180
	Total Power Sales Contracts										
18	Cooperative	1820	1854	1861	1883	1907	1930	1952	1978	1999	2020
19	Direct Service Industry	312	312	312	312	312	312	312	312	312	312
20	Federal Entities	116	118	121	123	124	137	151	155	156	156
21	Municipality	1839	1854	1854	1857	1876	1881	1893	1884	1902	1894
22	Public Utility District	3183	3194	3200	3200	3231	3235	3254	3234	3269	3249
23	USBR	180	180	180	180	180	180	180	180	180	180
24	**Total Power Sales Contracts**	**7449**	**7512**	**7527**	**7555**	**7630**	**7675**	**7742**	**7743**	**7817**	**7811**

THIS PAGE INTENTIONALLY LEFT BLANK

Exhibit 8
Table A-7: Regional Regulated Hydro

Annual Energy
Operating Year 2014 to 2023
Using 1937-Water Conditions

Table A-7: Regional: Regulated Hydro

Operating Year: 2014 to 2023 Water Year: 1937

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
	Regulated Hydro										
1	Idle Capacity Adjustment	0	0	0	0	0	0	0	0	0	0
2	Albeni Falls	24.3	24.2	24.2	24.3	24.3	24.3	24.2	24.3	24.3	24.3
3	Alder	18.8	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1
4	Bonneville	403	397	396	396	396	396	396	396	396	396
5	Boundary	333	333	333	333	333	333	333	333	333	333
6	Box Canyon Dam	44.5	44.5	44.4	44.5	44.5	44.5	44.4	44.5	44.5	44.5
7	Brownlee	184	184	184	184	184	184	184	184	184	184
8	Cabinet Gorge	83.5	83.5	83.4	83.5	83.5	83.5	83.4	83.5	83.5	83.5
9	Chelan Lake	37.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5
10	Chief Joseph	1139	1119	1114	1115	1115	1115	1114	1115	1115	1115
11	Cushman 1	4.42	7.17	8.73	8.72	8.72	8.72	8.73	8.72	8.72	8.72
12	Cushman 2	5.77	12.4	14.5	14.4	14.4	14.4	14.5	14.4	14.4	14.4
13	Diablo	82.0	81.4	82.2	82.0	82.0	82.0	82.2	82.0	82.0	82.0
14	Dworshak	143	143	143	143	143	143	143	143	143	143
15	Faraday	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1
16	Gorge	96.7	95.5	96.3	96.2	96.2	96.2	96.3	96.2	96.2	96.2
17	Grand Coulee	1982	1950	1941	1942	1942	1942	1941	1942	1942	1942
18	Hells Canyon	149	149	149	149	149	149	149	149	149	149
19	Hungry Horse	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4
20	Ice Harbor	158	158	158	158	158	158	158	158	158	158
21	John Day	815	808	806	806	806	806	806	806	806	806
22	Kerr	98.2	98.2	98.1	98.2	98.2	98.2	98.1	98.2	98.2	98.2
23	La Grande	30.8	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1
24	Libby	186	186	186	186	186	186	186	186	186	186
25	Little Falls	18.6	18.2	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6
26	Little Goose	179	179	179	179	179	179	179	179	179	179
27	Long Lake	42.7	41.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7
28	Lower Baker	25.5	25.5	25.4	25.5	25.5	25.5	25.4	25.5	25.5	25.5
29	Lower Granite	175	175	174	174	174	173	172	173	175	175
30	Lower Monumental	182	182	182	182	182	182	182	182	182	182
31	Mayfield	66.2	62.9	67.2	67.3	67.3	67.3	67.2	67.3	67.3	67.3
32	McNary	485	482	480	481	481	481	480	481	481	481
33	Merwin	51.5	46.1	50.7	50.8	50.8	50.8	50.7	50.8	50.8	50.8
34	Monroe Street	10.5	10.0	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2
35	Mossyrock	94.7	79.9	87.7	87.8	87.8	87.8	87.7	87.8	87.8	87.8
36	Nine Mile	11.8	11.4	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7
37	North Fork	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1
38	Noxon Rapids	125	125	125	125	125	125	125	125	125	125
39	Oak Grove	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4
40	Oxbow	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5
41	Pelton	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8
42	Pelton Rereg	8.21	8.21	8.21	8.21	8.21	8.21	8.21	8.21	8.21	8.21
43	Post Falls	6.92	6.60	6.87	6.88	6.88	6.88	6.87	6.88	6.88	6.88
44	Priest Rapids	420	412	411	411	411	411	411	411	411	411
45	River Mill	9.74	9.74	9.74	9.74	9.74	9.74	9.74	9.74	9.74	9.74
46	Rock Island	316	313	312	312	312	312	312	312	312	312
47	Rocky Reach	583	574	571	572	572	572	571	572	572	572
48	Ross	72.6	71.6	72.5	72.4	72.4	72.4	72.5	72.4	72.4	72.4
49	Round Butte	88.8	88.7	88.6	88.7	88.7	88.7	88.6	88.7	88.7	88.7
50	Swift 1	60.6	54.1	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8
51	Swift 2	22.0	20.1	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2
52	The Dalles	609	605	603	603	603	603	603	603	603	603
53	Thompson Falls	48.0	48.0	47.9	48.0	48.0	48.0	47.9	48.0	48.0	48.0
54	Upper Baker	32.3	30.3	31.9	32.0	32.0	32.0	31.9	32.0	32.0	32.0
55	Upper Falls	8.02	7.63	7.68	7.68	7.68	7.68	7.68	7.68	7.68	7.68
56	Wanapum	392	383	381	381	381	381	381	381	381	381
57	Wells	367	361	359	360	360	360	359	360	360	360
58	Yale	55.1	49.5	54.5	54.6	54.6	54.6	54.5	54.6	54.6	54.6

Table A-7: Regional: Regulated Hydro

Operating Year: 2014 to 2023 Water Year: 1937

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
	Total Regulated Hydro										
59	Federal Entities	6556	6483	6462	6464	6465	6464	6460	6463	6465	6465
60	Investor Owned Utilities	1810	1779	1795	1796	1796	1604	1582	1584	1584	1584
61	Marketer	440	434	432	432	432	432	432	432	432	432
62	Municipality	821	808	826	826	826	826	826	826	826	826
63	Public Utility District	1210	1190	1187	1187	1187	1380	1400	1400	1400	1400
64	**Total Regulated Hydro**	**10836**	**10694**	**10703**	**10707**	**10707**	**10706**	**10700**	**10706**	**10708**	**10708**

THIS PAGE INTENTIONALLY LEFT BLANK

Exhibit 9
Table A-8: Regional Independent Hydro

Annual Energy
Operating Year 2014 to 2023
Using 1937-Water Conditions

Table A-8: Regional: Independent Hydro

Operating Year: 2014 to 2023 Water Year: 1937

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
	Independent Hydro										
1	American Falls	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2
2	Anderson Ranch	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0
3	Arrowrock Hydro	5.83	5.83	5.83	5.83	5.83	5.83	5.83	5.83	5.83	5.83
4	Ashton	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50
5	Bend Power Dam	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
6	Big Cliff	9.66	9.66	9.65	9.66	9.66	9.66	9.65	9.66	9.66	9.66
7	Big Fork	2.71	2.71	2.71	2.71	2.71	2.71	2.71	2.71	2.71	2.71
8	Black Canyon	6.19	6.19	6.19	6.19	6.19	6.19	6.19	6.19	6.19	6.19
9	Bliss	35.1	35.1	35.0	35.1	35.1	35.1	35.0	35.1	35.1	35.1
10	Boise River Diversion	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12
11	Calispel Creek	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
12	Carmen-Smith	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
13	Cascade	8.84	8.84	8.84	8.84	8.84	8.84	8.84	8.84	8.84	8.84
14	Cedar Falls	9.04	9.04	9.04	9.04	9.04	9.04	9.04	9.04	9.04	9.04
15	Chandler	5.60	5.60	5.61	5.60	5.60	5.60	5.61	5.60	5.60	5.60
16	CJ Strike	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7
17	Clear Lake	1.78	1.78	1.78	1.78	1.78	1.78	1.78	1.78	1.78	1.78
18	Cougar	18.8	18.8	18.8	18.8	18.8	18.8	18.8	18.8	18.8	18.8
19	Cowlitz Falls	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2
20	Detroit	33.3	33.3	33.2	33.3	33.3	33.3	33.2	33.3	33.3	33.3
21	Dexter	9.29	9.29	9.27	9.29	9.29	9.29	9.27	9.29	9.29	9.29
22	Eagle Point	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
23	Electron	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6
24	Felt Hydro Project	3.84	3.84	3.83	3.84	3.84	3.84	3.83	3.84	3.84	3.84
25	Foster	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2
26	Gem State Hydro	8.28	8.28	8.30	8.28	8.28	8.28	8.30	8.28	8.28	8.28
27	Grace	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2
28	Green Peter	26.9	26.9	26.8	26.9	26.9	26.9	26.8	26.9	26.9	26.9
29	Green Springs	7.32	7.32	7.32	7.32	7.32	7.32	7.32	7.32	7.32	7.32
30	Hellroaring	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
31	Henry M Jackson	43.0	43.0	42.9	43.0	43.0	43.0	42.9	43.0	43.0	43.0
32	Hills Creek	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8
33	Hood Street	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32
34	Idaho Falls - City Plant	4.14	4.14	4.14	4.14	4.14	4.14	4.14	4.14	4.14	4.14
35	Idaho Falls - Lower Plant #1	4.14	4.14	4.14	4.14	4.14	4.14	4.14	4.14	4.14	4.14
36	Idaho Falls - Lower Plant #2	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55
37	Idaho Falls - Upper Plant	4.14	4.14	4.14	4.14	4.14	4.14	4.14	4.14	4.14	4.14
38	Island Park	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30
39	John Boyle	35.9	35.9	36.0	35.9	35.9	35.9	36.0	35.9	35.9	35.9
40	Lake Creek (MT)	2.93	2.93	2.92	2.93	2.93	2.93	2.92	2.93	2.93	2.93
41	Last Chance	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
42	Leaburg	7.43	7.43	7.44	7.43	7.43	7.43	7.44	7.43	7.43	7.43
43	Lookout Point	35.3	35.3	35.2	35.3	35.3	35.3	35.2	35.3	35.3	35.3
44	Lost Creek	30.0	30.0	29.9	30.0	30.0	30.0	29.9	30.0	30.0	30.0
45	Lower Malad	9.63	9.63	9.63	9.63	9.63	9.63	9.63	9.63	9.63	9.63
46	Lower Salmon Falls	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0
47	McNary Fishway	6.55	6.55	6.54	6.55	6.55	6.55	6.54	6.55	6.55	6.55
48	Mill Creek (WA)	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
49	Milner Hydro	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8
50	Minidoka	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2
51	Moyie River	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88
52	Newhalem	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63
53	North Umpqua	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7
54	Oneida	6.30	6.30	6.30	6.30	6.30	6.30	6.30	6.30	6.30	6.30
55	Packwood Lake	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9
56	Palisades	69.2	69.2	69.0	69.2	69.2	69.2	69.0	69.2	69.2	69.2
57	Paris	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
58	Reeder Gulch	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17

Table A-8: Regional: Independent Hydro

Operating Year: 2014 to 2023 Water Year: 1937

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
59	Rogue	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8
60	Roza	6.88	6.88	6.87	6.88	6.88	6.88	6.87	6.88	6.88	6.88
61	Shoshone Falls	5.84	5.84	5.84	5.84	5.84	5.84	5.84	5.84	5.84	5.84
62	Smith Creek (Idaho)	6.99	6.99	6.97	6.99	6.99	6.99	6.97	6.99	6.99	6.99
63	Snoqualmie Falls	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9
64	Soda Creek 4	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
65	Soda Creek No 5	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
66	Soda Point	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
67	South Fork Tolt	6.55	6.55	6.54	6.55	6.55	6.55	6.54	6.55	6.55	6.55
68	Stone Creek	6.22	6.22	6.21	6.22	6.22	6.22	6.21	6.22	6.22	6.22
69	Strawberry Creek (WY)	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
70	Swan Falls	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7
71	Swift Creek Hydro	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87
72	The Dalles North Fishway	4.46	4.46	4.45	4.46	4.46	4.46	4.45	4.46	4.46	4.46
73	Thousand Springs	6.28	6.28	6.27	6.28	6.28	6.28	6.27	6.28	6.28	6.28
74	Trail Bridge	3.68	3.68	3.68	3.68	3.68	3.68	3.68	3.68	3.68	3.68
75	TW Sullivan	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1
76	Twin Falls (ID)	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6
77	Upper Malad	5.92	5.92	5.92	5.92	5.92	5.92	5.92	5.92	5.92	5.92
78	Upper Salmon A	8.41	8.41	8.41	8.41	8.41	8.41	8.41	8.41	8.41	8.41
79	Upper Salmon B	7.71	7.71	7.71	7.71	7.71	7.71	7.71	7.71	7.71	7.71
80	Wallowa Falls	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51
81	Walterville	5.72	5.72	5.73	5.72	5.72	5.72	5.73	5.72	5.72	5.72
82	Wynoochee Dam	3.38	3.38	3.39	3.38	3.38	3.38	3.39	3.38	3.38	3.38
83	Yelm	7.22	7.22	7.21	7.22	7.22	7.22	7.21	7.22	7.22	7.22
	Total Independent Hydro										
84	Cooperative	7.12	7.12	7.12	7.12	7.12	7.12	7.12	7.12	7.12	7.12
85	Federal Entities	354	354	354	354	354	354	354	354	342	340
86	Investor Owned Utilities	537	537	536	537	537	537	536	537	537	537
87	Municipality	87.4	86.7	86.7	86.7	86.7	86.7	86.7	86.7	99.0	101
88	Public Utility District	65.8	66.4	66.3	66.4	66.4	66.4	66.3	66.4	66.4	66.4
89	**Total Independent Hydro**	**1051**	**1051**	**1050**	**1051**	**1051**	**1051**	**1050**	**1051**	**1051**	**1051**

THIS PAGE INTENTIONALLY LEFT BLANK

Exhibit 10
Table A-9: Regional Small Hydro

Annual Energy
Operating Year 2014 to 2023
Using 1937-Water Conditions

Table A-9: Regional: Small Hydro

Operating Year: 2014 to 2023 Water Year: 1937

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
	Small Hydro										
1	Albany-Millersburg Hydro Project	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
2	Amy Ranch	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33
3	Arena Drop	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
4	Barber Dam	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28
5	Barney Creek	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
6	Beaverton	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
7	Bell Mountain	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
8	Big Elk Creek YMCA Camp	0	0	0	0	0	0	0	0	0	0
9	Big Sheep Creek	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60
10	Bigg's Creek (Pickering Micro)	0	0	0	0	0	0	0	0	0	0
11	Billingsley Creek	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
12	Birch Creek Diversion Dam	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
13	Birch Creek (Gooding,ID)	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21
14	Black Canyon #3	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
15	Black Creek	2.99	3.12	2.93	2.96	2.96	2.96	2.96	2.96	2.96	2.96
16	Blind Canyon	0.57	0.57	0.56	0.57	0.57	0.57	0.56	0.57	0.57	0.57
17	Boulder Creek	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
18	Box Canyon Springs	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
19	Briggs Creek	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
20	Briggs Project	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
21	Broadwater	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01
22	Buffalo Hydro	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
23	Burr & Bouchard	0	0	0	0	0	0	0	0	0	0
24	Burton Creek	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
25	Bypass	3.81	3.81	3.80	3.81	3.81	4.33	3.18	3.81	3.81	3.81
26	Canyon Creek	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
27	Canyon Springs	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
28	Carlton	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
29	Cascade Creek	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
30	Cedar Draw Creek	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71
31	Central Oregon Siphon	2.14	2.14	2.13	2.14	2.14	2.14	2.13	2.14	2.14	2.14
32	Cereghino	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55
33	Chester Hydroelectic Plant	1.92	1.92	1.91	1.92	1.92	1.92	1.91	1.92	1.92	1.92
34	Clear Springs Trout	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44
35	Company Creek	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
36	Cornelius	0	0	0	0	0	0	0	0	0	0
37	Cowiche	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44
38	Crystal Springs	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07
39	Curry Cattle Co.	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
40	Curtiss Livestock	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
41	Cushman North Fork	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25
42	D. Wiggins	0	0	0	0	0	0	0	0	0	0
43	Deep Creek	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
44	Denny Creek	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
45	Dietrich Drop	2.48	2.48	2.47	2.48	2.48	2.48	2.47	2.48	2.48	2.48
46	Donald Jenni	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
47	Dry Creek	0.85	0.85	0.85	0.85	0.85	0.91	0.82	0.85	0.85	0.85
48	Dworshak-Clearwater Hatchery	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63
49	Ebey Hill (Kevin Duncan)	0	0	0	0	0	0	0	0	0	0
50	Elk Creek	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59
51	Eltopia Branch Canal 4.6	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
52	Esquatzel Small Hydro	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72
53	Falls Creek (Or)	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95
54	Falls Creek (Wa)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
55	Falls River Hydro	5.88	5.88	5.88	5.88	5.88	5.88	5.88	5.88	5.88	5.88
56	Farmers Irr Dist Proj No 2	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49
57	Farmers Irr Dist Proj No 3	0.89	0.89	0.90	0.89	0.89	0.89	0.90	0.89	0.89	0.89
58	Faulkner Ranch	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60

Table A-9: Regional: Small Hydro

Operating Year: 2014 to 2023 Water Year: 1937

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
59	Fisheries Development #1	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
60	Flying W	0	0	0	0	0	0	0	0	0	0
61	Ford	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49
62	Forgy	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
63	Galesville	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32
64	Geo-Bon #2	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54
65	Georgetown	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
66	Gillihan	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
67	Ground Water Pumping Station	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
68	Hailey	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
69	Hazelton A	3.24	3.24	3.23	3.24	3.24	3.24	3.23	3.24	3.24	3.24
70	Hazelton B	3.03	3.03	3.02	3.03	3.03	3.03	3.02	3.03	3.03	3.03
71	Hettinger	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
72	Horseshoe Bend	6.56	6.56	6.56	6.56	6.56	6.56	6.56	6.56	6.56	6.56
73	Hutchinson Creek	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
74	James Boyd	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
75	James White	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
76	Jim Knight	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
77	John Day Creek	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
78	Juniper Ridge Hydro	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37
79	Kasel-Withersppon	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53
80	Kaster Riverview	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
81	Koma Kulshan	6.38	6.38	6.37	6.38	6.38	6.38	6.37	6.38	6.38	6.38
82	Koyle Ranch Power	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73
83	L & M Angus Ranch	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37
84	Lacomb	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54
85	Lake Creek (OR)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
86	Lake Oswego	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
87	Lateral #10	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35
88	Le Moyne	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
89	Lee Tavenner	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
90	Little Butte Ranch	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
91	Little Mac	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
92	Little Wood River Ranch	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
93	Little Wood River Reservoir	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46
94	Low line Canal Drop	5.35	5.35	5.33	5.35	5.35	5.35	5.33	5.35	5.35	5.35
95	Low Line Midway	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
96	Lower Low line	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80
97	Loyd F. Fery Farms	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
98	LQ-LS Drains (Pigeon Cove)	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88
99	Lucky Peak	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7
100	Magic Dam	3.56	3.56	3.55	3.56	3.56	3.56	3.55	3.56	3.56	3.56
101	Main Canal Headworks	9.82	9.82	9.80	9.82	9.82	9.82	9.80	9.82	9.82	9.82
102	Marsh Valley	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44
103	Meyers Falls	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72
104	Meyers Falls 1910	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
105	Middle Fork Irrigation District	2.15	2.15	2.16	2.15	2.15	2.15	2.16	2.15	2.15	2.15
106	Mile 28	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66
107	Mill Creek (Cove Hydro)	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
108	Minikahda	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
109	Mink Creek	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
110	Mitchell Butte	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
111	Mora Drop	1.42	1.42	1.42	1.42	1.42	1.42	1.42	1.42	1.42	1.42
112	Morse Creek	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
113	Mt. Tabor	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
114	Mud Creek	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55
115	N-32 Canal	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85
116	Nichols Gap	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
117	Nicholson	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19

Table A-9: Regional: Small Hydro

Operating Year: 2014 to 2023 Water Year: 1937

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
118	North Fork Sprague	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
119	North Willow Creek	0	0	0	0	0	0	0	0	0	0
120	O. J. Power Company	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
121	Odell Creek	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
122	Opal Springs	2.95	2.95	2.95	2.95	2.95	2.95	2.95	2.95	2.95	2.95
123	Orchard Avenue	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43
124	Owyhee Dam	1.82	1.82	1.81	1.82	1.82	1.82	1.81	1.82	1.82	1.82
125	Owyhee Tunnel No 1	2.72	2.72	2.71	2.72	2.72	2.72	2.71	2.72	2.72	2.72
126	Pancheri	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
127	PEC Headworks	2.83	2.83	2.82	2.83	2.83	2.83	2.82	2.83	2.83	2.83
128	Phillips Ranch	0	0	0	0	0	0	0	0	0	0
129	Phillipsburg	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
130	Pine Creek	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
131	Portland Hydro Project	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
132	Portneuf River	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
133	Potholes East Canal	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09
134	Preston	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.35	0.36	0.36
135	Pristine Springs	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32
136	Quincy Chute	3.71	3.71	3.70	3.71	3.71	3.71	3.70	3.71	3.71	3.71
137	Ravenscroft Ranch	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35
138	Reynolds Irrigation District	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
139	Rim View	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
140	Rock Creek #1	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30
141	Rock Creek No 2	1.61	1.61	1.60	1.61	1.61	1.61	1.60	1.61	1.61	1.61
142	Rocky Brook	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
143	Russell D. Smith	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84
144	Sagebrush	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
145	Sahko	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
146	Schaffner	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
147	Shingle Creek	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
148	Shoshone	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47
149	Skookumchuck	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
150	Smith Creek (Washington)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
151	Snake River Pottery	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
152	Snedigar Ranch	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
153	South Dry Creek	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34
154	Spencer Lake Hydro	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
155	Spring Creek	0	0	0	0	0	0	0	0	0	0
156	Stayton Hydro	0	0	0	0	0	0	0	0	0	0
157	Stevenson #1	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
158	Stevenson #2	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
159	Strawberry Creek (MT)	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
160	Summer Falls	37.2	37.2	37.1	37.2	37.2	37.2	37.1	37.2	37.2	37.2
161	Sunshine	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
162	Sygitowicz Creek	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
163	Thompson's Mills	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
164	Tiber Dam	3.24	3.24	3.23	3.24	3.24	3.24	3.23	3.24	3.24	3.24
165	Tieton Dam (Yakima)	4.26	4.26	4.25	4.26	4.26	4.26	4.25	4.26	4.26	4.26
166	Trinity	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
167	Twin Falls (WA)	9.57	9.57	9.56	9.57	9.57	7.69	9.56	9.57	9.57	9.57
168	Upper Pine Creek	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
169	Upriver Dam	9.73	9.73	9.73	9.73	9.73	9.73	9.73	9.73	9.73	9.73
170	Walla Walla	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48
171	Water Street	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
172	Weeks Falls	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70
173	White Ranch	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
174	White Water Ranch	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
175	Whitefish	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
176	Wilson Lake	3.14	3.14	3.13	3.14	3.14	3.14	3.13	3.14	3.14	3.14

Table A-9: Regional: Small Hydro

Operating Year: 2014 to 2023 Water Year: 1937

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
177	Wisconsin Noble	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
178	Wolf Creek	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
179	Woods Creek	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
180	Yakama Drop 2	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
181	Yakama Drop 3	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
182	Youngs Creek	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
183	Zena Creek Ranch	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
	Total Small Hydro										
184	Cooperative	3.75	3.75	3.74	3.74	3.75	3.75	3.74	3.74	3.75	3.75
185	Federal Entities	3.08	3.08	3.08	3.08	3.08	3.08	3.08	3.08	3.08	3.08
186	Investor Owned Utilities	151	151	151	151	151	150	150	151	151	151
187	Marketer	4.26	4.26	4.25	4.26	4.26	4.26	4.25	4.26	4.26	4.26
188	Municipality	77.1	77.1	76.9	77.1	77.1	77.1	76.9	77.1	77.1	77.1
189	Public Utility District	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
190	**Total Small Hydro**	**251**	**251**	**251**	**251**	**251**	**250**	**250**	**251**	**251**	**251**

THIS PAGE INTENTIONALLY LEFT BLANK

Exhibit 11
Table A-10: Regional Combustion Turbines

Annual Energy
Operating Year 2014 to 2023
Using 1937-Water Conditions

THIS PAGE INTENTIONALLY LEFT BLANK

Table A-10: Regional: Combustion Turbine Resources

Operating Year: 2014 to 2023

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
	Combustion Turbine Resources										
1	Basin Creek Project	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
2	Beaver	461	461	461	461	461	461	461	461	461	461
3	Beaver	443	443	443	443	443	443	443	443	443	443
4	Beaver 8	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
5	Bennett Mountain Peaking Plant	151	151	151	151	151	151	151	151	151	151
6	Big Hanaford	223	223	223	223	223	223	223	223	223	223
7	Boulder Park	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6
8	Carty Generating Station	0	0	0	342	374	374	374	374	374	374
9	Chehalis Generation Facility	450	446	450	450	450	446	446	450	450	450
10	Dave Gates Generating Station	135	135	135	135	135	135	135	135	135	135
11	Encogen	148	148	148	148	148	148	148	148	148	148
12	Evander Andrews Complex	233	233	233	233	233	233	233	233	233	233
13	Danskin 1	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
14	Danskin 2	156	156	156	156	156	156	156	156	156	156
15	Frederickson CT	245	245	245	245	245	245	245	245	245	245
16	Frederickson Power Project	138	138	138	138	138	138	138	138	138	138
17	Fredonia	293	293	293	293	293	293	293	293	293	293
18	Fredonia 1 & 2	193	193	193	193	193	193	193	193	193	193
19	Fredonia 3 & 4	100	100	101	100	100	100	101	100	100	100
20	Goldendale Energy Center	239	239	239	239	239	239	239	239	239	239
21	Grimes Way	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60
22	Kettle Falls Station (CT)	8.77	8.77	8.77	8.77	8.77	8.77	8.77	8.77	8.77	8.77
23	Klamath Generation Facility	436	436	436	436	436	436	436	436	436	436
24	Klamath Generation Peakings (C	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
25	Langley Gulch CT	270	270	270	270	270	270	270	270	270	270
26	Loki Peaking Project	9.94	9.94	9.94	9.94	9.94	9.94	9.94	9.94	9.94	9.94
27	Mint Farm Energy Center	264	264	264	264	264	264	264	264	264	264
28	Northeast 1 & 2	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5
29	Olympic View	5.30	5.30	5.30	5.30	5.30	5.30	5.30	5.30	5.30	5.30
30	Pasco Peak Power Plant	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6
31	Port Westward	369	477	556	556	556	556	556	556	556	556
32	Port Westward 1	369	369	369	369	369	369	369	369	369	369
33	Port Westward 2	0	109	187	187	187	187	187	187	187	187
34	Rathdrum	142	142	142	142	142	142	142	142	142	142
35	River Road	223	223	223	223	223	223	223	223	223	223
36	Satsop Combustion Turbine Proj	584	584	584	584	584	584	584	584	584	584
37	University of Washington Power	13.5	13.5	13.6	13.5	13.5	13.5	13.6	13.5	13.5	13.5
38	Whitehorn	138	138	138	138	138	138	138	138	138	138
	Total Combustion Turbine Resources										
39	Investor Owned Utilities	3709	3814	3897	4223	4239	4235	4236	4239	4239	4239
40	Marketer	1302	1302	1302	1317	1333	1333	1333	1333	1333	1333
41	Municipality	17.1	17.1	17.2	17.1	17.1	17.1	17.2	17.1	17.1	17.1
42	Public Utility District	400	400	400	400	400	400	400	400	400	400
43	**Total**	**5428**	**5533**	**5616**	**5957**	**5989**	**5986**	**5987**	**5989**	**5989**	**5989**

THIS PAGE INTENTIONALLY LEFT BLANK

Exhibit 12
Table A-11: Regional Renewable Resources

Annual Energy
Operating Year 2014 to 2023
Using 1937-Water Conditions

THIS PAGE INTENTIONALLY LEFT BLANK

Table A-11: Regional: Renewable Resources

Operating Year: 2014 to 2023

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
	Renewable Resources										
1	3 Bar G Wind	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
2	Ashland Solar Project	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
3	City Council	0	0	0	0	0	0	0	0	0	0
4	N. Mountain Park	0	0	0	0	0	0	0	0	0	0
5	Police Station	0	0	0	0	0	0	0	0	0	0
6	Public Works	0	0	0	0	0	0	0	0	0	0
7	Bellevue Solar (Amity, OR)	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
8	Bennett Creek Wind	5.53	5.53	5.53	5.53	5.53	5.53	5.53	5.53	5.53	5.53
9	Bettencourt B6 anaerobic digest	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69
10	Big Horn Wind	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
11	Big Horn 1	52.6	52.6	52.5	52.6	52.6	52.6	52.5	52.6	52.6	52.6
12	Big Horn 2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2
13	Big Sky Dairy	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06
14	Biglow Canyon Wind	119	119	118	119	119	119	118	119	119	119
15	Biglow Canyon 1	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0
16	Biglow Canyon 2	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4
17	Biglow Canyon 3	46.1	46.1	46.0	46.1	46.1	46.1	46.0	46.1	46.1	46.1
18	Burley Butte Wind	5.14	5.14	5.13	5.14	5.14	5.14	5.13	5.14	5.14	5.14
19	Camp Reed	5.93	5.93	5.92	5.93	5.93	5.93	5.92	5.93	5.93	5.93
20	Cassia Farms Wind	2.77	2.77	2.76	2.77	2.77	2.77	2.76	2.77	2.77	2.77
21	Cassia Gulch Wind	4.98	4.98	4.98	4.98	4.98	4.98	4.98	4.98	4.98	4.98
22	Coffin Butte	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
23	Coffin Butte 1	2.38	2.38	2.38	2.38	2.38	2.38	2.38	2.38	2.38	2.38
24	Coffin Butte 2	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98
25	Cold Springs	6.06	6.06	6.05	6.06	6.06	6.06	6.05	6.06	6.06	6.06
26	Columbia Ridge Landfill	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6
27	Combine Hills	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4
28	Combine Hills 2	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6
29	Combine Hills I	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8
30	Condon	9.65	9.65	9.64	9.65	9.65	9.65	9.64	9.65	9.65	9.65
31	Cottonwood Wind	0	0	0	0	0	0	0	0	0	0
32	Deep Creek Wind	0	0	0	0	0	0	0	0	0	0
33	DeRuyter & Son's Dairy	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20
34	Desert Meadow Windfarm	6.06	6.06	6.05	6.06	6.06	6.06	6.05	6.06	6.06	6.06
35	Double A Digester	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
36	Double B Digester	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
37	Dry Creek Landfill	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25
38	Dry Dairy Creek	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26	1.26
39	Echo Wind Farm	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
40	Echo Wind 1	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7
41	Echo Wind 2	5.27	5.27	5.26	5.27	5.27	5.27	5.26	5.27	5.27	5.27
42	Edaleen Cow Power	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63
43	Elkhorn Valley Wind Project	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5
44	Farm Power Lynden	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
45	Farm Power Misty Meadow	0	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
46	Farm Power Rexville	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
47	Farm Power Tillamook	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
48	Fighting Creek Landfill	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60
49	Finley BioEnergy	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88
50	Flathead County Landfill	1.37	1.40	1.38	1.38	1.40	1.36	1.40	1.38	1.38	1.36
51	Foote Creek 1	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9
52	Foote Creek 2	0.48	0.48	0.47	0.48	0.48	0.48	0.47	0.48	0.48	0.48
53	Foote Creek 4	4.43	4.43	4.42	4.43	4.43	4.43	4.42	4.43	4.43	4.43
54	Fossil Gulch Wind Project	2.77	2.77	2.76	2.77	2.77	2.77	2.76	2.77	2.77	2.77
55	Fourmile Hill Geothermal	0	0	0	0	0	0	0	0	0	0
56	Golden Valley Wind	3.16	3.16	3.16	3.16	3.16	3.16	3.16	3.16	3.16	3.16
57	Goodnoe Hills	24.8	24.8	24.7	24.8	24.8	24.8	24.7	24.8	24.8	24.8

Table A-11: Regional: Renewable Resources

Operating Year: 2014 to 2023

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
58	Goshen North (Ridgeline)	32.8	32.8	32.8	32.8	32.8	32.8	32.8	32.8	32.8	32.8
59	Grandview Solar One	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00
60	Grayland	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58
61	H.W. Hill Landfill Gas (Roosevelt	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00
62	HW Hill Landfill Gas 1	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30
63	HW Hill Landfill Gas 2	5.70	5.70	5.70	5.70	5.70	5.70	5.70	5.70	5.70	5.70
64	Hammett Hill	6.06	6.06	6.05	6.06	6.06	6.06	6.05	6.06	6.06	6.06
65	Harvest	26.1	26.1	26.0	26.1	26.1	26.1	26.0	26.1	26.1	26.1
66	Hay Canyon Wind	26.6	26.6	26.5	26.6	26.6	26.6	26.5	26.6	26.6	26.6
67	Healow 2	0	0	0	0	0	0	0	0	0	0
68	Hidden Hollow Landfill	2.34	2.34	2.34	2.34	2.34	2.34	2.34	2.34	2.34	2.34
69	High Mesa Wind	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
70	Hopkins Ridge	41.3	41.3	41.2	41.3	41.3	41.3	41.2	41.3	41.3	41.3
71	Hopkins Ridge 2	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90
72	Hopkins Ridge I	39.4	39.4	39.3	39.4	39.4	39.4	39.3	39.4	39.4	39.4
73	Horse Butte Wind	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8
74	Horseshoe Bend Wind Project	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37
75	Hot Springs Wind	5.22	5.22	5.21	5.22	5.22	5.22	5.21	5.22	5.22	5.22
76	Industrial Finishes	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
77	Josef Staufer	0	0	0	0	0	0	0	0	0	0
78	Juniper Canyon	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8
79	Kettle Falls (biomass)	44.3	42.4	41.5	44.7	42.6	43.4	44.7	44.4	43.4	43.4
80	King Estate Solar	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
81	Kittitas Valley Wind	26.6	26.6	26.5	26.6	26.6	26.6	26.5	26.6	26.6	26.6
82	Klondike 1	6.81	6.81	6.80	6.81	6.81	6.81	6.80	6.81	6.81	6.81
83	Klondike 2	21.3	21.3	21.2	21.3	21.3	21.3	21.2	21.3	21.3	21.3
84	Klondike 3	63.5	63.5	63.4	63.5	63.5	63.5	63.4	63.5	63.5	63.5
85	Klondike 3a	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7
86	Knudson Wind	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
87	Lava Beds Wind	4.74	4.74	4.74	4.74	4.74	4.74	4.74	4.74	4.74	4.74
88	Leaning Juniper	77.0	79.5	79.4	79.5	79.5	79.5	79.4	79.5	79.5	79.5
89	Leaning Juniper 1	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5
90	Leaning Juniper 2a	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8
91	Leaning Juniper 2b	26.7	29.3	29.2	29.3	29.3	29.3	29.2	29.3	29.3	29.3
92	Lewandowski Farms	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
93	Lime Wind	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79
94	Linden Ranch	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2
95	Livingston	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
96	Lower Snake Wind	90.3	90.3	154	161	161	161	160	161	161	161
97	Lower Snake Wind 1	90.3	90.3	90.2	90.3	90.3	90.3	90.2	90.3	90.3	90.3
98	Lower Snake Wind 2	0	0	64.3	70.4	70.4	70.4	70.3	70.4	70.4	70.4
99	Mainline Wind	6.06	6.06	6.05	6.06	6.06	6.06	6.05	6.06	6.06	6.06
100	Marengo Wind	55.5	55.5	55.4	55.5	55.5	55.5	55.4	55.5	55.5	55.5
101	Marengo Wind 1	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0
102	Marengo Wind 2	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5
103	Meadow Creek Wind	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0
104	Milner Dam Wind Farm	5.14	5.14	5.13	5.14	5.14	5.14	5.13	5.14	5.14	5.14
105	Neal Hot Springs	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0
106	Nine Canyon Wind	26.1	26.1	26.0	26.1	26.1	26.1	26.0	26.1	26.1	26.1
107	Nine Canyon Wind 1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1
108	Nine Canyon Wind 2	4.22	4.22	4.22	4.22	4.22	4.22	4.22	4.22	4.22	4.22
109	Nine Canyon Wind 3	8.75	8.75	8.75	8.75	8.75	8.75	8.75	8.75	8.75	8.75
110	Notch Butte Wind	4.74	4.74	4.74	4.74	4.74	4.74	4.74	4.74	4.74	4.74
111	Oregon Trail Wind	3.56	3.56	3.55	3.56	3.56	3.56	3.55	3.56	3.56	3.56
112	Palouse Wind	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5
113	PaTu Wind	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37
114	Paynes Ferry Wind Park	5.53	5.53	5.53	5.53	5.53	5.53	5.53	5.53	5.53	5.53
115	Pebble Springs Wind	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0
116	Pepsi-Cola Eugene Solar	0	0	0	0	0	0	0	0	0	0

Table A-11: Regional: Renewable Resources

Operating Year: 2014 to 2023

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
117	Pilgrim Stage Station Wind Park	2.77	2.77	2.76	2.77	2.77	2.77	2.76	2.77	2.77	2.77
118	Pine Products Biomass	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
119	Portland Waste Water	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40
120	Power County Wind	11.9	11.9	11.8	11.9	11.9	11.9	11.8	11.9	11.9	11.9
121	Puyallup Energy Recovery	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
122	Qualco Dairy Digester	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
123	Raft River Geothermal	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
124	Raft River Geothermal 1	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
125	Raft River Geothermal 2	0	0	0	0	0	0	0	0	0	0
126	Raft River Geothermal 3	0	0	0	0	0	0	0	0	0	0
127	Rattlesnake Road Wind Farm	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1
128	River Bend Landfill	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30
129	Rock Creek Digester	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
130	Rock River Wind	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2
131	Rockland wind	20.9	20.9	20.8	20.9	20.9	20.9	20.8	20.9	20.9	20.9
132	Rogerson Flats	0	0	0	0	0	0	0	0	0	0
133	Ryegrass Wind	6.06	6.06	6.05	6.06	6.06	6.06	6.05	6.06	6.06	6.06
134	Salmon Creek Wind	5.27	5.27	5.26	5.27	5.27	5.27	5.26	5.27	5.27	5.27
135	Salmon Falls	5.53	5.53	5.53	5.53	5.53	5.53	5.53	5.53	5.53	5.53
136	Sawtooth	5.90	5.90	5.90	5.90	5.90	5.90	5.90	5.90	5.90	5.90
137	Shepherds Flat	223	223	222	223	223	223	222	223	223	223
138	Shepherds Flat - Central	76.4	76.4	76.3	76.4	76.4	76.4	76.3	76.4	76.4	76.4
139	Shepherds Flat - North	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8
140	Shepherds Flat - South	76.4	76.4	76.3	76.4	76.4	76.4	76.3	76.4	76.4	76.4
141	Short Mountain	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96
142	Star Point Wind	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0
143	Stateline	69.0	69.0	68.8	69.0	69.0	69.0	68.8	69.0	69.0	69.0
144	Stateline-OR	38.1	38.1	38.0	38.1	38.1	38.1	38.0	38.1	38.1	38.1
145	Stateline-WA	30.9	30.9	30.8	30.9	30.9	30.9	30.8	30.9	30.9	30.9
146	Stoltze Biomass	2.50	2.50	2.50	2.50	2.44	2.50	2.50	2.50	2.50	2.50
147	Swager Digester	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
148	Swauk Wind	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39
149	Thousand Springs Wind Park	3.16	3.16	3.16	3.16	3.16	3.16	3.16	3.16	3.16	3.16
150	Threemile Canyon Wind	2.61	2.61	2.61	2.61	2.61	2.61	2.61	2.61	2.61	2.61
151	Treasure Valley Digester	0	0	0	0	0	0	0	0	0	0
152	Tuana Gulch Wind	2.77	2.77	2.76	2.77	2.77	2.77	2.76	2.77	2.77	2.77
153	Tuana Springs Wind	4.43	4.43	4.42	4.43	4.43	4.43	4.42	4.43	4.43	4.43
154	Two Ponds Wind	6.06	6.06	6.05	6.06	6.06	6.06	6.05	6.06	6.06	6.06
155	Van Dyk's Holsteins	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38
156	Vander Haak Dairy	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
157	Vansycle	34.3	34.3	34.3	34.3	34.3	34.3	34.3	34.3	34.3	34.3
158	Vansycle 1	8.27	8.27	8.26	8.27	8.27	8.27	8.26	8.27	8.27	8.27
159	Vansycle 2	26.1	26.1	26.0	26.1	26.1	26.1	26.0	26.1	26.1	26.1
160	Vantage Wind	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7
161	Wheat Field	25.5	25.5	25.4	25.5	25.5	25.5	25.4	25.5	25.5	25.5
162	White Bluffs Solar	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
163	White Creek	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1
164	Wild Horse	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9
165	Wild Horse Solar 1	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
166	Wild Horse Wind 1	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2
167	Wild Horse Wind 2	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6
168	Willow Creek	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0
169	Windy Point Wind	105	105	105	105	105	105	105	105	105	105
170	Windy Point 1	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0
171	Windy Point 2	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3
172	Windy Point 2 - Phase 2	15.8	15.8	15.7	15.8	15.8	15.8	15.7	15.8	15.8	15.8
173	Wolverine Creek	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
174	Yahoo Creek Wind	5.53	5.53	5.53	5.53	5.53	5.53	5.53	5.53	5.53	5.53
175	Yamhill Solar	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23

Table A-11: Regional: Renewable Resources

Operating Year: 2014 to 2023

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
	Total Renewable Resources										
176	Cooperative	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
177	Federal Entities	60.3	60.3	60.2	60.3	60.3	60.3	60.2	60.3	60.3	60.3
178	Investor Owned Utilities	1275	1269	1331	1341	1339	1340	1340	1341	1340	1308
179	Marketer	120	128	127	128	128	128	127	128	128	159
180	Municipality	339	339	339	339	339	339	339	339	339	339
181	Other	11.9	11.9	11.8	11.9	11.9	11.9	11.8	11.9	11.9	11.9
182	Public Utility District	167	167	166	167	167	167	166	167	167	167
183	**Total**	**1997**	**1998**	**2060**	**2071**	**2069**	**2070**	**2069**	**2071**	**2070**	**2070**

Exhibit 13
Table A-12: Regional Cogeneration Resources

Annual Energy
Operating Year 2014 to 2023
Using 1937-Water Conditions

Table A-12: Regional: Cogeneration Resources

Operating Year: 2014 to 2023

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
	Cogeneration Resources										
1	Biomass One	14.6	14.6	14.7	14.6	14.6	14.6	14.7	14.6	14.6	14.6
2	Boise Cascade Medford	0	0	0	0	0	0	0	0	0	0
3	Cogen Co	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63
4	Cogen Co 2	5.67	5.67	5.68	5.67	5.67	5.67	5.68	5.67	5.67	5.67
5	Cosmopolis Specialty Fibres	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
6	Coyote Springs	209	209	209	209	209	209	209	209	209	209
7	Coyote Springs 2	243	237	243	243	243	233	245	243	233	245
8	Evergreen Biopower Cogen	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50
9	Ferndale Cogeneration Station	218	218	218	218	218	218	218	218	218	218
10	Georgia-Pacific (Toledo)	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
11	Georgia-Pacific Paper (Camas)	9.73	10.00	9.23	10.00	9.73	10.00	9.73	10.00	9.73	10.00
12	Georgia-Pacific Paper (Wauna)	19.2	19.2	19.2	19.2	19.2	19.2	19.2	19.2	19.2	19.2
13	Grays Harbor Paper	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
14	Haleywest L.L.C	4.20	4.20	4.20	4.20	4.20	4.20	4.20	4.20	4.20	4.20
15	Hampton Lumber Mill (Darringto	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20
16	Hermiston Generation Project	401	408	399	401	408	399	401	408	399	401
17	Hermiston Power Project	567	567	567	567	567	567	567	567	567	567
18	Intenational Paper Energy Cente	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5
19	Intenational Paper Energy Center 2	8.27	8.27	8.27	8.27	8.27	8.27	8.27	8.27	8.27	8.27
20	Intenational Paper Energy Center 1	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2
21	InterFor Pacific - Gilchrist	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
22	Lakeview Biomass	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
23	Lancaster	210	210	210	211	208	210	211	212	210	210
24	Longview Fibre Paper & Packagi	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0
25	Longview Fibre Paper & Packaging 1	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0
26	Longview Fibre Paper & Packaging 2	0	0	0	0	0	0	0	0	0	0
27	Macks Creek	0	0	0	0	0	0	0	0	0	0
28	March Point Cogeneration	124	124	124	124	124	124	124	124	124	124
29	Metro West Point	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
30	Port Townsend Mill	6.70	6.70	6.70	6.70	6.70	6.70	6.70	6.70	6.70	6.70
31	Port Townsend Mill 1	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
32	Port Townsend Mill 2	6.51	6.51	6.51	6.51	6.51	6.51	6.51	6.51	6.51	6.51
33	Potlatch	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6
34	Potlach NG 1	9.06	9.06	9.06	9.06	9.06	9.06	9.06	9.06	9.06	9.06
35	Potlach Wood Waste 1	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6
36	Rough & Ready Lumber	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
37	Rupert Cogeneration Facility	8.39	8.39	8.39	8.39	8.39	8.39	8.39	8.39	8.39	8.39
38	SDS Lumber	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
39	Seneca Sawmill Cogen	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3
40	Sierra Pacific - Abberdeen	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
41	Sierra Pacific - Burlington	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0
42	Simplot Pocatello	8.18	8.18	8.18	8.18	8.18	8.18	8.18	8.18	8.18	8.18
43	Simpson Tacoma CoGen	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3
44	SP Newsprint cogen	104	104	104	104	104	104	104	104	104	104
45	SP Newsprint cogen 1	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2
46	SP Newsprint Wood Waste	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8
47	Sumas	120	120	120	120	120	120	120	120	120	120
48	Sumas Compressor Station	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95
49	Tamarack	3.91	3.91	3.91	3.91	3.91	3.91	3.91	3.91	3.91	3.91
50	TASCO - Nampa	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
51	TASCO - Twin Falls	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
52	Thompson River Co-Gen	0	0	0	0	0	0	0	0	0	0
53	Vaagen Bros.	0	0	0	0	0	0	0	0	0	0
54	Wah Chang Cogen	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8
55	Warm Springs Cogen	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20

Table A-12: Regional: Cogeneration Resources

Operating Year: 2014 to 2023

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
56	Weyerhaeuser Longview	35.2	35.2	35.2	35.2	35.2	35.2	35.2	35.2	35.2	35.2
57	Weyerhaeuser Longview 2	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5
58	Weyerhauser Longview 1	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7
	Total Cogeneration Resources										
59	Cooperative	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
60	Direct Service Industry	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5
61	Federal Entities	19.2	19.2	13.1	0	0	0	0	0	0	0
62	Investor Owned Utilities	1659	1662	1658	1661	1665	1649	1663	1668	1649	1662
63	Marketer	771	778	793	792	792	792	793	792	837	837
64	Municipality	105	97.2	86.1	92.6	92.6	92.6	92.7	92.6	48.4	48.4
65	Other	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
66	Public Utility District	22.2	22.2	25.3	31.8	31.8	31.8	31.8	31.8	31.8	31.8
67	**Total**	**2613**	**2616**	**2612**	**2615**	**2619**	**2603**	**2617**	**2623**	**2603**	**2616**

THIS PAGE INTENTIONALLY LEFT BLANK

Exhibit 14
Table A-13: Regional Large Thermal Resources

Annual Energy
Operating Year 2014 to 2023
Using 1937-Water Conditions

THIS PAGE INTENTIONALLY LEFT BLANK

Table A-13: Regional: Large Thermal Resources

Operating Year: 2014 to 2023

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
	Large Thermal Resources										
1	Boardman	488	488	489	488	488	488	489	224	0	0
2	Centralia Complex	1203	1203	1181	1181	1203	1203	1203	1203	1181	1181
3	Centralia 1	601	601	590	590	601	601	601	601	590	590
4	Centralia 2	601	601	590	590	601	601	601	601	590	590
5	Colstrip	1345	1415	1349	1345	1415	1349	1345	1415	1349	1347
6	Colstrip 1	128	125	137	128	125	137	128	125	136	131
7	Colstrip 2	117	131	137	117	131	137	117	131	137	117
8	Colstrip 3	421	481	481	421	481	481	421	481	481	421
9	Colstrip 4	679	679	595	679	679	594	679	679	594	679
10	Columbia Generating Station	1030	878	1030	878	1030	878	1030	878	1030	878
11	Jim Bridger	1843	1824	1864	1849	1863	1875	1839	1878	1869	1878
12	Jim Bridger #1	427	483	458	483	451	479	427	483	458	483
13	Jim Bridger #2	493	476	493	455	493	476	493	476	493	476
14	Jim Bridger #3	477	404	477	450	477	477	477	477	477	477
15	Jim Bridger #4	447	461	436	461	442	442	442	442	442	442
16	Valmy	225	225	226	225	225	225	226	225	225	225
17	North Valmy 1	110	110	110	110	110	110	110	110	110	110
18	North Valmy 2	116	116	116	116	116	116	116	116	116	116
	Total Large Thermal Resources										
19	Federal Entities	1030	878	1030	878	1030	878	1030	878	1030	878
20	Investor Owned Utilities	3853	4010	4094	4162	4285	4230	4190	4062	3778	3786
21	Marketer	1203	1097	965	877	862	862	862	862	846	846
22	Municipality	48.8	48.8	48.9	48.8	48.8	48.8	48.9	22.4	0	0
23	**Total**	**6135**	**6034**	**6138**	**5966**	**6225**	**6018**	**6131**	**5824**	**5654**	**5510**

THIS PAGE INTENTIONALLY LEFT BLANK

Exhibit 15
Table A-14: Regional Small Thermal & Miscellaneous

Annual Energy
Operating Year 2014 to 2023
Using 1937-Water Conditions

THIS PAGE INTENTIONALLY LEFT BLANK

Table A-14: Regional: Small Thermal & Miscellaneous

Operating Year: 2014 to 2023

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
	Small Thermal & Miscellaneous										
1	Bangor Submarine Base	0	0	0	0	0	0	0	0	0	0
2	Bangor Base 1	0	0	0	0	0	0	0	0	0	0
3	Bangor Base 2	0	0	0	0	0	0	0	0	0	0
4	Boundary IC	0	0	0	0	0	0	0	0	0	0
5	Colstrip Energy Project	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8
6	Covanta Marion Solid Waste	9.70	9.70	9.70	9.70	9.70	9.70	9.70	9.70	9.70	9.70
7	Crystal Mountain	0	0	0	0	0	0	0	0	0	0
8	Hooley Digester	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
9	Pocatello Waste	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
10	Puget Sound Shipyards Diesel G	0	0	0	0	0	0	0	0	0	0
11	Salmon Diesel	0	0	0	0	0	0	0	0	0	0
12	Spokane MSW	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9
13	West Boise Waste	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
	Total Small Thermal & Miscellaneous										
14	Federal Entities	0	0	0	0	0	0	0	0	0	0
15	Investor Owned Utilities	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7
16	Municipality	0	0	0	0	0	0	0	0	0	0
17	Public Utility District	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
18	**Total**	**35.9**	**35.9**	**35.9**	**35.9**	**35.9**	**35.9**	**35.9**	**35.9**	**35.9**	**35.9**

THIS PAGE INTENTIONALLY LEFT BLANK

Exhibit 16
Table A-15: Non-Federal CER Deliveries to BPA

Annual Energy
Operating Year 2014 to 2023
Using 1937-Water Conditions

THIS PAGE INTENTIONALLY LEFT BLANK

Table A-15: Non-Federal CER Deliveries to BPA

Operating Year 2014 to 2023

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Pacific Northwest											
1	CHPD to BPA CEAEA for Rock Island	18.0	18.0	18.1	18.1	18.0	17.8	17.6	17.4	17.3	17.1
2	CHPD to BPA CEAEA for Rocky Reach	37.4	37.3	37.6	37.5	37.4	37.0	36.6	36.2	35.8	35.5
3	DOPD to BPA CEAEA for Wells	23.9	23.9	24.0	24.0	23.9	23.7	23.4	23.2	22.9	22.7
4	GCPD to BPA CEAEA for Priest Rapids	29.2	29.2	29.3	29.3	29.2	28.9	28.6	28.3	28.0	27.7
5	GCPD to BPA CEAEA for Wanpum	28.2	28.2	28.4	28.3	28.2	28.0	27.7	27.3	27.0	26.8
6	**Total Imports From PNW**	**137**	**137**	**137**	**137**	**137**	**135**	**134**	**132**	**131**	**130**
Total Imports											
7	Federal Entities	137	137	137	137	137	135	134	132	131	130
8	**Total Imports**	**137**	**137**	**137**	**137**	**137**	**135**	**134**	**132**	**131**	**130**

THIS PAGE INTENTIONALLY LEFT BLANK

Exhibit 17
Federal Report Surplus Deficit By Water Year
80 Water Year Federal Surplus/Deficit

Annual Energy
Operating Year 2014 to 2023
Using 1937-Water Conditions

Federal Report Surplus Deficit By Water Year

Operating Year 2014 to 2023

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW - Surplus Deficit	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
1	1929 Federal Report Surplus Deficit	249	-35.2	67	-126	-88	-191	-209	-365	-300	-442
2	1930 Federal Report Surplus Deficit	12.9	-140	-42.8	-237	-198	-301	-318	-476	-411	-553
3	1931 Federal Report Surplus Deficit	-123	-211	-145	-336	-297	-401	-420	-575	-506	-646
4	1932 Federal Report Surplus Deficit	861	653	734	551	593	489	448	305	416	286
5	1933 Federal Report Surplus Deficit	1715	1528	1610	1409	1442	1348	1323	1175	1274	1126
6	1934 Federal Report Surplus Deficit	2880	2618	2730	2530	2565	2460	2444	2289	2373	2232
7	1935 Federal Report Surplus Deficit	979	900	975	777	818	712	693	539	611	470
8	1936 Federal Report Surplus Deficit	756	534	671	484	510	425	368	225	318	196
9	1937 Federal Report Surplus Deficit	75	-195	-92	-283	-244	-348	-368	-523	-455	-596
10	1938 Federal Report Surplus Deficit	1428	1271	1351	1148	1185	1089	1031	917	991	884
11	1939 Federal Report Surplus Deficit	684	446	543	345	384	278	258	104	185	46.1
12	1940 Federal Report Surplus Deficit	786	603	713	521	560	454	432	280	352	211
13	1941 Federal Report Surplus Deficit	251	85	175	-18.1	20.8	-83	-102	-258	-191	-331
14	1942 Federal Report Surplus Deficit	1059	959	983	789	827	725	704	547	621	480
15	1943 Federal Report Surplus Deficit	1876	1674	1766	1555	1576	1465	1413	1300	1478	1327
16	1944 Federal Report Surplus Deficit	58	-202	-103	-296	-258	-361	-378	-535	-470	-611
17	1945 Federal Report Surplus Deficit	125	16.6	75	-118	-80	-190	-214	-362	-285	-427
18	1946 Federal Report Surplus Deficit	1559	1375	1438	1260	1281	1179	1145	1011	1109	988
19	1947 Federal Report Surplus Deficit	2241	2026	2130	1923	1958	1852	1817	1672	1770	1636
20	1948 Federal Report Surplus Deficit	2388	2174	2301	2116	2132	2033	2000	1855	1978	1822
21	1949 Federal Report Surplus Deficit	1691	1453	1583	1393	1419	1320	1278	1127	1235	1104
22	1950 Federal Report Surplus Deficit	1919	1728	1844	1640	1671	1564	1525	1383	1516	1368
23	1951 Federal Report Surplus Deficit	2996	2733	2838	2641	2671	2572	2548	2391	2504	2371
24	1952 Federal Report Surplus Deficit	2413	2155	2258	2067	2113	2001	1952	1842	1944	1817
25	1953 Federal Report Surplus Deficit	1355	1169	1243	1065	1083	983	945	817	941	778
26	1954 Federal Report Surplus Deficit	2126	1851	1933	1741	1770	1668	1641	1484	1606	1465
27	1955 Federal Report Surplus Deficit	1526	1418	1515	1330	1363	1268	1226	1090	1192	1041
28	1956 Federal Report Surplus Deficit	2926	2665	2769	2581	2596	2518	2461	2338	2493	2329
29	1957 Federal Report Surplus Deficit	1943	1726	1823	1642	1665	1564	1537	1396	1501	1365
30	1958 Federal Report Surplus Deficit	1575	1346	1454	1264	1295	1195	1160	1025	1121	994
31	1959 Federal Report Surplus Deficit	2240	1997	2087	1892	1933	1828	1805	1655	1763	1617
32	1960 Federal Report Surplus Deficit	2575	2352	2454	2259	2297	2196	2161	2017	2109	1968
33	1961 Federal Report Surplus Deficit	1743	1513	1634	1437	1461	1367	1344	1190	1292	1151
34	1962 Federal Report Surplus Deficit	1375	1136	1239	1058	1084	972	941	811	924	796
35	1963 Federal Report Surplus Deficit	1589	1356	1457	1262	1303	1199	1175	1024	1099	958
36	1964 Federal Report Surplus Deficit	1454	1204	1309	1113	1138	1047	1004	868	997	832
37	1965 Federal Report Surplus Deficit	2945	2716	2830	2626	2655	2550	2540	2379	2476	2343
38	1966 Federal Report Surplus Deficit	1369	1148	1256	1061	1097	989	969	820	893	751
39	1967 Federal Report Surplus Deficit	1842	1593	1712	1514	1554	1452	1392	1270	1397	1245
40	1968 Federal Report Surplus Deficit	1589	1370	1487	1291	1317	1223	1193	1040	1132	989
41	1969 Federal Report Surplus Deficit	2655	2406	2516	2335	2364	2234	2233	2075	2208	2078
42	1970 Federal Report Surplus Deficit	1350	1169	1269	1088	1109	1007	965	831	937	796
43	1971 Federal Report Surplus Deficit	2484	2244	2326	2135	2133	2064	2009	1848	2040	1857
44	1972 Federal Report Surplus Deficit	2895	2617	2751	2543	2571	2433	2428	2281	2495	2306
45	1973 Federal Report Surplus Deficit	878	591	700	504	543	439	422	265	330	188
46	1974 Federal Report Surplus Deficit	2659	2453	2552	2359	2370	2243	2226	2057	2349	2120
47	1975 Federal Report Surplus Deficit	1898	1647	1773	1582	1608	1504	1476	1337	1461	1295
48	1976 Federal Report Surplus Deficit	3023	2779	2898	2705	2739	2627	2596	2450	2553	2421
49	1977 Federal Report Surplus Deficit	413	165	273	79	117	14.1	-2.76	-160	-94	-235
50	1978 Federal Report Surplus Deficit	1233	1159	1212	1017	1062	955	928	778	859	729
51	1979 Federal Report Surplus Deficit	986	738	801	606	645	547	518	368	446	307
52	1980 Federal Report Surplus Deficit	926	760	887	692	713	619	606	453	535	403
53	1981 Federal Report Surplus Deficit	1822	1622	1714	1525	1554	1452	1429	1288	1377	1236
54	1982 Federal Report Surplus Deficit	2585	2377	2487	2297	2312	2218	2174	2042	2175	2047
55	1983 Federal Report Surplus Deficit	2595	2338	2451	2239	2292	2178	2125	1990	2133	1996

Federal Report Surplus Deficit By Water Year

Operating Year 2014 to 2023

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW - Surplus Deficit	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
56	1984 Federal Report Surplus Deficit	2598	2351	2447	2265	2285	2191	2162	2010	2140	1983
57	1985 Federal Report Surplus Deficit	1261	992	1149	951	988	886	862	711	792	656
58	1986 Federal Report Surplus Deficit	1903	1721	1849	1619	1655	1550	1516	1373	1533	1351
59	1987 Federal Report Surplus Deficit	729	544	646	454	494	388	370	214	283	141
60	1988 Federal Report Surplus Deficit	105	-125	-27.9	-219	-180	-284	-303	-458	-392	-533
61	1989 Federal Report Surplus Deficit	738	571	641	451	487	383	362	203	283	142
62	1990 Federal Report Surplus Deficit	1596	1412	1519	1324	1357	1254	1236	1080	1156	1015
63	1991 Federal Report Surplus Deficit	2190	1944	2041	1842	1878	1772	1751	1598	1679	1538
64	1992 Federal Report Surplus Deficit	533	238	345	152	190	87	69	-87	-21.1	-162
65	1993 Federal Report Surplus Deficit	462	297	364	171	210	104	79	-71	6.7	-134
66	1994 Federal Report Surplus Deficit	351	220	311	119	158	55	36.4	-120	-55	-196
67	1995 Federal Report Surplus Deficit	1094	958	1043	846	876	778	750	588	688	547
68	1996 Federal Report Surplus Deficit	3401	3159	3209	3008	3043	2971	2897	2778	2970	2829
69	1997 Federal Report Surplus Deficit	3120	2843	2963	2766	2789	2682	2679	2508	2692	2526
70	1998 Federal Report Surplus Deficit	2141	1872	1997	1789	1831	1737	1689	1576	1667	1552
71	1999 Federal Report Surplus Deficit	2430	2200	2331	2149	2160	2057	2038	1887	2032	1874
72	2000 Federal Report Surplus Deficit	2095	1878	1982	1788	1824	1720	1689	1546	1636	1494
73	2001 Federal Report Surplus Deficit	11.1	-243	-141	-335	-297	-400	-416	-574	-509	-650
74	2002 Federal Report Surplus Deficit	787	709	753	564	601	499	471	323	404	264
75	2003 Federal Report Surplus Deficit	915	727	790	598	634	534	507	358	430	289
76	2004 Federal Report Surplus Deficit	645	463	546	355	394	290	271	116	182	41.5
77	2005 Federal Report Surplus Deficit	972	756	892	700	735	633	613	458	532	392
78	2006 Federal Report Surplus Deficit	1821	1592	1658	1485	1502	1402	1355	1231	1372	1230
79	2007 Federal Report Surplus Deficit	1419	1234	1321	1125	1165	1060	1039	886	962	820
80	2008 Federal Report Surplus Deficit	1130	944	1033	842	859	771	747	600	712	574
	Ranked Averages										
81	**Bottom 10 pct**	**64**	**-142**	**-51**	**-244**	**-205**	**-310**	**-328**	**-483**	**-416**	**-557**
82	**Middle 80 pct**	**1519**	**1313**	**1411**	**1218**	**1249**	**1147**	**1117**	**972**	**1074**	**931**
83	**Top 10 pct**	**3023**	**2766**	**2873**	**2675**	**2704**	**2602**	**2574**	**2427**	**2569**	**2420**

THIS PAGE INTENTIONALLY LEFT BLANK

Exhibit 18
Regional Report Surplus Deficit By Water Year
80 Water Year Regional Surplus/Deficit

Annual Energy
Operating Year 2014 to 2023
Using 1937-Water Conditions

Regional Report Surplus Deficit By Water Year

Operating Year 2014 to 2023

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW - Surplus Deficit	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
1	1929 Regional Report Surplus Deficit	5932	5363	5221	5047	5054	4542	4394	3820	3407	3040
2	1930 Regional Report Surplus Deficit	5242	4908	4773	4596	4603	4091	3947	3369	2956	2589
3	1931 Regional Report Surplus Deficit	4846	4590	4417	4246	4253	3741	3591	3020	2606	2239
4	1932 Regional Report Surplus Deficit	7082	6686	6524	6367	6377	5865	5683	5130	4777	4425
5	1933 Regional Report Surplus Deficit	8951	8582	8401	8214	8212	7714	7557	6993	6624	6248
6	1934 Regional Report Surplus Deficit	11356	10844	10709	10521	10521	10007	9867	9290	8895	8528
7	1935 Regional Report Surplus Deficit	7565	7359	7199	7015	7023	6508	6363	5789	5383	5016
8	1936 Regional Report Surplus Deficit	6853	6412	6351	6186	6175	5688	5482	4932	4555	4214
9	1937 Regional Report Surplus Deficit	5314	4745	4637	4466	4473	3961	3810	3239	2827	2460
10	1938 Regional Report Surplus Deficit	8426	8062	7942	7755	7759	7257	7055	6537	6136	5816
11	1939 Regional Report Surplus Deficit	6816	6343	6186	6005	6011	5496	5347	4775	4382	4018
12	1940 Regional Report Surplus Deficit	6747	6345	6253	6080	6086	5572	5419	4850	4444	4078
13	1941 Regional Report Surplus Deficit	5472	5073	4962	4787	4794	4282	4135	3559	3148	2781
14	1942 Regional Report Surplus Deficit	7303	7094	6796	6619	6624	6115	5964	5388	4986	4619
15	1943 Regional Report Surplus Deficit	9449	9055	8880	8680	8661	8139	7945	7430	7189	6809
16	1944 Regional Report Surplus Deficit	5468	4904	4806	4630	4637	4126	3981	3404	2990	2623
17	1945 Regional Report Surplus Deficit	5555	5261	5075	4899	4907	4386	4230	3667	3268	2902
18	1946 Regional Report Surplus Deficit	8844	8426	8280	8125	8107	7598	7427	6883	6518	6179
19	1947 Regional Report Surplus Deficit	10089	9662	9521	9324	9325	8809	8641	8078	7711	7351
20	1948 Regional Report Surplus Deficit	10369	9944	9848	9683	9653	9153	8962	8415	8091	7703
21	1949 Regional Report Surplus Deficit	9040	8577	8478	8308	8291	7787	7604	7038	6686	6333
22	1950 Regional Report Surplus Deficit	9751	9358	9271	9079	9073	8557	8384	7825	7507	7131
23	1951 Regional Report Surplus Deficit	12083	11581	11448	11263	11256	10750	10599	10019	9672	9319
24	1952 Regional Report Surplus Deficit	10611	10110	9968	9796	9810	9287	9099	8587	8224	7898
25	1953 Regional Report Surplus Deficit	8352	7953	7780	7636	7602	7104	6921	6397	6064	5667
26	1954 Regional Report Surplus Deficit	10127	9594	9411	9236	9227	8718	8560	7983	7647	7280
27	1955 Regional Report Surplus Deficit	8755	8527	8371	8209	8207	7705	7525	6979	6616	6236
28	1956 Regional Report Surplus Deficit	11879	11361	11221	11054	11024	10549	10346	9817	9542	9146
29	1957 Regional Report Surplus Deficit	9602	9168	9022	8863	8848	8334	8177	7626	7269	6914
30	1958 Regional Report Surplus Deficit	8743	8316	8194	8021	8016	7509	7329	6793	6421	6080
31	1959 Regional Report Surplus Deficit	10230	9751	9570	9390	9398	8885	8733	8164	7809	7436
32	1960 Regional Report Surplus Deficit	10904	10463	10312	10135	10140	9631	9461	8903	8526	8159
33	1961 Regional Report Surplus Deficit	9033	8595	8478	8295	8280	7782	7631	7056	6691	6324
34	1962 Regional Report Surplus Deficit	8214	7725	7620	7460	7449	6926	6761	6222	5873	5524
35	1963 Regional Report Surplus Deficit	8751	8275	8160	7979	7987	7475	7323	6752	6351	5984
36	1964 Regional Report Surplus Deficit	8561	8066	7933	7755	7743	7247	7066	6520	6199	5793
37	1965 Regional Report Surplus Deficit	11585	11149	11019	10826	10817	10303	10170	9585	9217	8863
38	1966 Regional Report Surplus Deficit	8365	7920	7788	7611	7613	7096	6945	6381	5978	5612
39	1967 Regional Report Surplus Deficit	9430	8912	8838	8652	8660	8150	7950	7418	7088	6705
40	1968 Regional Report Surplus Deficit	8928	8485	8375	8192	8181	7682	7522	6948	6573	6204
41	1969 Regional Report Surplus Deficit	11119	10637	10501	10356	10341	9785	9662	9086	8779	8429
42	1970 Regional Report Surplus Deficit	8256	7899	7749	7589	7571	7062	6883	6337	5978	5613
43	1971 Regional Report Surplus Deficit	10826	10341	10183	10005	9956	9491	9299	8712	8482	8052
44	1972 Regional Report Surplus Deficit	11921	11398	11305	11105	11096	10537	10409	9846	9637	9207
45	1973 Regional Report Surplus Deficit	7387	6817	6689	6510	6516	6004	5858	5283	4870	4504
46	1974 Regional Report Surplus Deficit	11340	10896	10786	10610	10559	10028	9856	9269	9194	8715
47	1975 Regional Report Surplus Deficit	9618	9110	9010	8843	8824	8312	8152	7600	7290	6890
48	1976 Regional Report Surplus Deficit	11987	11513	11394	11217	11216	10694	10525	9964	9608	9256
49	1977 Regional Report Surplus Deficit	6131	5621	5484	5306	5313	4802	4656	4080	3666	3299
50	1978 Regional Report Surplus Deficit	7948	7737	7551	7372	7386	6870	6711	6145	5754	5401
51	1979 Regional Report Surplus Deficit	7437	6952	6726	6550	6556	6052	5889	5323	4928	4567
52	1980 Regional Report Surplus Deficit	7387	7064	6963	6784	6767	6269	6129	5558	5164	4810
53	1981 Regional Report Surplus Deficit	9088	8710	8552	8377	8371	7860	7710	7152	6771	6404
54	1982 Regional Report Surplus Deficit	10822	10411	10294	10119	10090	9591	9414	8869	8550	8205
55	1983 Regional Report Surplus Deficit	11039	10555	10423	10219	10245	9719	9526	8977	8674	8314

Regional Report Surplus Deficit By Water Year

Operating Year 2014 to 2023

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW - Surplus Deficit	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
56	1984 Regional Report Surplus Deficit	10850	10366	10215	10053	10023	9534	9374	8804	8482	8094
57	1985 Regional Report Surplus Deficit	8136	7620	7569	7388	7391	6882	6726	6159	5768	5410
58	1986 Regional Report Surplus Deficit	9412	9057	8955	8729	8732	8217	8050	7491	7208	6787
59	1987 Regional Report Surplus Deficit	6953	6588	6451	6279	6286	5772	5624	5050	4641	4274
60	1988 Regional Report Surplus Deficit	5446	4898	4814	4643	4650	4138	3988	3417	3003	2636
61	1989 Regional Report Surplus Deficit	6863	6463	6350	6180	6183	5670	5518	4941	4547	4180
62	1990 Regional Report Surplus Deficit	8806	8405	8302	8123	8121	7610	7464	6888	6490	6123
63	1991 Regional Report Surplus Deficit	10002	9492	9363	9178	9180	8665	8516	7942	7550	7183
64	1992 Regional Report Surplus Deficit	6237	5657	5547	5370	5377	4865	4719	4144	3730	3363
65	1993 Regional Report Surplus Deficit	6147	5721	5573	5401	5407	4892	4733	4169	3773	3407
66	1994 Regional Report Surplus Deficit	5901	5598	5469	5296	5303	4792	4643	4069	3657	3290
67	1995 Regional Report Surplus Deficit	7606	7289	7172	6988	6983	6477	6321	5735	5367	5002
68	1996 Regional Report Surplus Deficit	12690	12229	12005	11812	11812	11348	11125	10595	10364	9998
69	1997 Regional Report Surplus Deficit	12155	11647	11537	11352	11336	10819	10697	10098	9848	9450
70	1998 Regional Report Surplus Deficit	10176	9670	9556	9360	9370	8872	8683	8171	7789	7468
71	1999 Regional Report Surplus Deficit	10698	10248	10175	10012	9979	9468	9320	8752	8452	8064
72	2000 Regional Report Surplus Deficit	9898	9473	9326	9148	9150	8638	8473	7916	7538	7171
73	2001 Regional Report Surplus Deficit	5107	4617	4476	4298	4305	3794	3649	3072	2658	2292
74	2002 Regional Report Surplus Deficit	6945	6717	6477	6308	6312	5802	5642	5078	4686	4319
75	2003 Regional Report Surplus Deficit	6966	6527	6357	6185	6187	5679	5519	4956	4548	4181
76	2004 Regional Report Surplus Deficit	6505	6114	5957	5786	5792	5280	5131	4559	4147	3780
77	2005 Regional Report Surplus Deficit	7183	6732	6647	6472	6473	5964	5816	5242	4840	4473
78	2006 Regional Report Surplus Deficit	9037	8526	8403	8253	8230	7722	7539	7004	6693	6348
79	2007 Regional Report Surplus Deficit	8347	7928	7817	7639	7646	7132	6982	6411	6013	5646
80	2008 Regional Report Surplus Deficit	7549	7167	7014	6842	6819	6328	6171	5610	5254	4892

Ranked Averages

81	**Bottom 10 pct**	**5306**	**4875**	**4745**	**4571**	**4578**	**4065**	**3916**	**3343**	**2932**	**2565**
82	**Middle 80 pct**	**8601**	**8175**	**8039**	**7863**	**7859**	**7350**	**7186**	**6627**	**6261**	**5895**
83	**Top 10 pct**	**11957**	**11472**	**11339**	**11155**	**11140**	**10628**	**10467**	**9902**	**9635**	**9244**

THIS PAGE INTENTIONALLY LEFT BLANK

Section 2: Monthly Energy Operating Year 2014 to 2023

THIS PAGE INTENTIONALLY LEFT BLANK

Exhibit 19
Federal Report Surplus Deficit

Monthly Energy
Operating Year 2014 to 2023
Using 1937-Water Conditions

Loads and Resources - Federal System

Operating Year: 2014 Water Year: 1937

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Firm Obligations															
1	**Non-Utility Obligation**	714	712	658	515	470	486	485	477	505	675	675	739	745	817	608
2	Federal Agencies	101	101	93.0	99.5	127	146	146	139	127	113	113	100	94.7	102	116
3	USBR Obligation	301	299	252	104	30.1	29.2	27.1	25.2	65.8	250	250	327	340	402	180
4	DSI Obligation	312	312	313	311	313	311	312	313	312	312	312	312	311	312	312
5	**Transfers Out**	7692	7414	6926	6593	8131	8849	8411	8011	7521	6942	6959	7582	7054	7419	7583
6	Load Following 2012 PSC	2987	2990	2769	2730	3224	3677	3672	3508	3050	2916	2916	2779	2864	3114	3106
7	Block 2012 PSC	0	0	0	9.84	44.5	39.1	55.0	53.9	46.1	2.99	2.99	0	0	11.0	21.7
8	Slice Block 2012 PSC	1635	1635	1715	1624	1992	2216	2243	2076	1937	1636	1636	1424	1326	1561	1781
9	Slice Right to Power 2012 PSC	2000	1712	1607	1692	2138	1997	1635	1603	1817	1704	1721	2743	2221	2142	1933
10	Exports	844	849	678	529	517	705	550	513	519	529	529	585	592	582	596
11	Intra-Regional Transfers (Out)	226	228	156	9.00	215	215	257	258	152	153	153	50.9	50.7	9.00	145
12	Federal Diversity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	**Total Firm Obligations**	**8406**	**8126**	**7584**	**7108**	**8601**	**9335**	**8896**	**8488**	**8026**	**7617**	**7634**	**8321**	**7799**	**8236**	**8191**
	Net Resources															
1	**Net Hydro**	7383	6256	5516	5648	7575	7314	5768	5618	6133	6118	6197	10163	8168	7918	6909
2	Regulated Hydro - Net	7022	5898	5184	5327	7304	7135	5623	5466	5881	5684	5752	9445	7504	7514	6556
3	Independent Hydro - Net	361	358	332	321	271	179	145	152	251	434	445	718	664	403	354
4	**Other Resources**	1097	1134	1118	1113	1099	1107	1091	1086	1125	1129	1112	1120	1138	1112	1112
5	Cogeneration Resources	12.4	12.4	14.4	18.4	19.6	22.6	24.0	23.0	23.0	22.0	22.0	19.1	14.2	18.1	19.2
6	Combustion Turbines	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	Large Thermal Resources	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030
8	Renewable Resources	51.9	89.1	71.2	62.4	46.3	51.1	34.2	30.0	69.0	74.2	57.0	68.1	91.1	61.6	60.3
9	Small Hydro Resources	2.63	2.63	2.63	2.67	2.84	3.19	3.21	3.05	3.10	3.09	3.09	2.83	2.72	2.63	2.88
10	Small Thermal & Misc.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	**Contract Purchases**	390	385	681	551	628	529	491	489	724	492	492	239	354	244	484
12	Imports	16.8	16.7	95.6	113	43.8	42.7	42.1	42.6	256	18.5	18.5	1.12	1.00	16.1	57.7
13	Intra-Regional Transfers (In)	199	199	418	269	407	311	281	280	297	305	305	49.9	175	51.4	253
14	Non-Federal CER	136	138	137	137	137	137	137	137	137	136	136	136	136	136	137
15	Slice Transmission Loss Return	37.8	32.3	30.3	31.9	40.3	37.7	30.8	30.2	34.2	32.1	32.4	51.8	41.9	40.4	36.4
16	Augmentation Purchases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	**Reserves & Losses**	-250	-219	-206	-206	-262	-252	-207	-203	-225	-218	-220	-325	-272	-262	-240
18	Contingency Reserves (Spinning)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	Contingency Reserves (Non-Spinning)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	Load Following Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	Generation Imbalance Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	Transmission Losses	-250	-219	-206	-206	-262	-252	-207	-203	-225	-218	-220	-325	-272	-262	-240
23	**Total Net Resources**	**8620**	**7556**	**7109**	**7106**	**9040**	**8697**	**7143**	**6990**	**7757**	**7521**	**7581**	**11197**	**9387**	**9012**	**8266**
24	**Total Surplus/Deficit**	**214**	**-570**	**-475**	**-1.62**	**439**	**-638**	**-1753**	**-1498**	**-269**	**-95.6**	**-52.1**	**2876**	**1588**	**777**	**74.8**

Loads and Resources - Federal System

Operating Year: 2015 Water Year: 1937

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Firm Obligations															
1	**Non-Utility Obligation**	710	719	660	517	473	489	488	480	508	677	677	741	747	819	610
2	Federal Agencies	103	102	95.0	102	129	149	149	142	130	115	115	102	96.6	104	118
3	USBR Obligation	295	304	252	104	30.1	29.2	27.1	25.2	65.8	250	250	327	340	402	180
4	DSI Obligation	313	312	313	311	313	311	312	313	312	312	312	312	311	312	312
5	**Transfers Out**	7349	7013	6605	6653	8225	9017	8678	8139	7596	7025	7035	7412	6748	7350	7552
6	Load Following 2012 PSC	3031	3004	2795	2781	3283	3742	3753	3592	3108	2975	2975	2834	2915	3174	3163
7	Block 2012 PSC	11.3	11.3	23.3	10.6	47.9	42.1	59.2	58.0	49.6	3.22	3.22	0	0	11.8	26.3
8	Slice Block 2012 PSC	1561	1561	1628	1697	2091	2326	2355	2177	2025	1706	1706	1507	1411	1640	1842
9	Slice Right to Power 2012 PSC	1987	1706	1583	1651	2095	2006	1781	1609	1809	1726	1736	2500	1847	1962	1871
10	Exports	749	721	567	504	493	686	515	488	494	504	504	562	565	552	556
11	Intra-Regional Transfers (Out)	9.00	9.00	9.00	9.00	214	215	215	215	110	110	110	9.00	9.00	9.00	93.6
12	Federal Diversity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	**Total Firm Obligations**	**8059**	**7732**	**7265**	**7170**	**8698**	**9506**	**9166**	**8619**	**8104**	**7702**	**7712**	**8153**	**7495**	**8168**	**8162**
	Net Resources															
1	**Net Hydro**	7383	6256	5516	5577	7487	7333	6306	5623	6084	6188	6239	9754	7738	7478	6837
2	Regulated Hydro - Net	7022	5898	5184	5255	7216	7154	6161	5471	5833	5753	5794	9036	7074	7075	6483
3	Independent Hydro - Net	361	358	332	321	271	179	145	152	251	434	445	718	664	403	354
4	**Other Resources**	1097	1134	1118	1113	1099	1107	1091	1086	1125	1129	1112	588	108	846	960
5	Cogeneration Resources	12.4	12.4	14.4	18.4	19.6	22.6	24.0	23.0	23.0	22.0	22.0	19.1	14.2	18.1	19.2
6	Combustion Turbines	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	Large Thermal Resources	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	498	0	764	878
8	Renewable Resources	51.9	89.1	71.2	62.4	46.3	51.1	34.2	30.0	69.0	74.2	57.0	68.1	91.1	61.6	60.3
9	Small Hydro Resources	2.63	2.63	2.63	2.67	2.84	3.19	3.21	3.05	3.10	3.09	3.09	2.83	2.72	2.63	2.88
10	Small Thermal & Misc.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	**Contract Purchases**	250	236	423	476	427	409	412	403	640	406	407	292	399	294	402
12	Imports	15.8	16.4	104	106	45.2	41.4	43.2	42.6	255	18.5	18.5	1.12	1.00	11.6	57.4
13	Intra-Regional Transfers (In)	55.6	55.7	153	203	206	194	199	194	215	218	218	106	226	107	173
14	Non-Federal CER	141	132	136	136	136	136	136	136	136	137	137	137	137	137	137
15	Slice Transmission Loss Return	37.5	32.1	29.8	31.1	39.5	37.8	33.6	30.3	34.1	32.5	32.7	47.2	34.8	37.0	35.3
16	Augmentation Purchases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	**Reserves & Losses**	-246	-215	-199	-202	-254	-250	-220	-201	-221	-218	-219	-300	-233	-243	-231
18	Contingency Reserves (Spinning)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	Contingency Reserves (Non-Spinning)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	Load Following Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	Generation Imbalance Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	Transmission Losses	-246	-215	-199	-202	-254	-250	-220	-201	-221	-218	-219	-300	-233	-243	-231
23	**Total Net Resources**	**8483**	**7411**	**6858**	**6964**	**8759**	**8600**	**7589**	**6912**	**7628**	**7505**	**7539**	**10334**	**8013**	**8375**	**7967**
24	**Total Surplus/Deficit**	**424**	**-321**	**-407**	**-206**	**61.5**	**-906**	**-1578**	**-1707**	**-476**	**-197**	**-173**	**2181**	**518**	**206**	**-195**

Loads and Resources - Federal System

Operating Year: 2016 Water Year: 1937

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Firm Obligations															
1	**Non-Utility Obligation**	713	721	662	519	475	493	492	481	511	680	680	744	750	822	613
2	Federal Agencies	105	104	96.9	104	132	153	154	143	133	118	118	105	99.2	107	121
3	USBR Obligation	295	304	252	104	30.1	29.2	27.1	25.2	65.8	250	250	327	340	402	180
4	DSI Obligation	313	312	313	311	313	311	312	313	312	312	312	312	311	312	312
5	**Transfers Out**	7474	7119	6687	6618	8191	8986	8633	7943	7549	6994	7003	7481	6957	7385	7562
6	Load Following 2012 PSC	3083	3056	2846	2791	3305	3767	3775	3527	3117	2987	2987	2847	2933	3196	3180
7	Block 2012 PSC	12.2	12.2	25.1	11.0	49.6	43.6	61.3	58.0	51.4	3.34	3.34	0	0	12.3	27.2
8	Slice Block 2012 PSC	1634	1634	1707	1649	2031	2260	2288	2041	1966	1658	1658	1467	1375	1595	1806
9	Slice Right to Power 2012 PSC	1978	1678	1534	1646	2089	1999	1778	1605	1803	1723	1732	2644	2123	2023	1901
10	Exports	757	730	566	512	502	701	515	496	502	513	513	515	517	550	553
11	Intra-Regional Transfers (Out)	9.00	9.00	9.00	9.00	214	215	215	215	110	110	110	9.00	9.00	9.00	93.9
12	Federal Diversity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	**Total Firm Obligations**	**8186**	**7840**	**7349**	**7137**	**8666**	**9479**	**9125**	**8423**	**8060**	**7674**	**7684**	**8225**	**7707**	**8207**	**8174**
	Net Resources															
1	**Net Hydro**	7372	6175	5342	5577	7487	7333	6306	5623	6084	6188	6239	9754	7738	7478	6815
2	Regulated Hydro - Net	7011	5817	5010	5255	7216	7154	6161	5471	5833	5753	5794	9036	7074	7075	6462
3	Independent Hydro - Net	361	358	332	321	271	179	145	152	251	434	445	718	664	403	353
4	**Other Resources**	1097	1134	1118	1113	1099	1107	1091	1086	1125	1107	1090	1101	1124	1094	1106
5	Cogeneration Resources	12.4	12.4	14.4	18.4	19.6	22.6	24.0	23.0	23.0	0	0	0	0	0	13.1
6	Combustion Turbines	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	Large Thermal Resources	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030
8	Renewable Resources	51.9	89.1	71.2	62.4	46.3	51.1	34.2	30.0	69.0	74.2	57.0	68.1	91.1	61.6	60.2
9	Small Hydro Resources	2.63	2.63	2.63	2.67	2.84	3.19	3.21	3.04	3.10	3.09	3.09	2.83	2.72	2.63	2.88
10	Small Thermal & Misc.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	**Contract Purchases**	302	288	476	448	406	390	399	382	602	409	410	281	392	271	396
12	Imports	11.0	11.3	100.0	89.5	35.2	33.6	36.2	34.0	235	34.5	34.5	1.00	1.00	1.00	51.2
13	Intra-Regional Transfers (In)	112	112	209	191	194	181	192	181	196	205	205	92.9	214	94.6	171
14	Non-Federal CER	142	133	137	137	137	137	137	137	137	137	137	137	137	137	137
15	Slice Transmission Loss Return	37.3	31.6	28.9	30.9	39.3	37.6	33.4	30.1	33.9	32.3	32.5	49.8	39.9	38.0	35.8
16	Augmentation Purchases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	**Reserves & Losses**	-247	-214	-196	-201	-254	-249	-220	-200	-220	-217	-218	-314	-261	-249	-235
18	Contingency Reserves (Spinning)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	Contingency Reserves (Non-Spinning)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	Load Following Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	Generation Imbalance Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	Transmission Losses	-247	-214	-196	-201	-254	-249	-220	-200	-220	-217	-218	-314	-261	-249	-235
23	**Total Net Resources**	**8524**	**7383**	**6740**	**6937**	**8738**	**8581**	**7576**	**6892**	**7592**	**7487**	**7520**	**10822**	**8993**	**8593**	**8083**
24	**Total Surplus/Deficit**	**337**	**-458**	**-609**	**-200**	**71.7**	**-898**	**-1549**	**-1531**	**-469**	**-187**	**-163**	**2597**	**1286**	**387**	**-91.6**

Loads and Resources - Federal System

Operating Year: 2017 Water Year: 1937

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Firm Obligations															
1	**Non-Utility Obligation**	721	719	664	522	479	497	493	485	512	676	686	744	750	822	615
2	Federal Agencies	108	108	99.4	106	136	157	155	147	134	119	118	105	99.7	108	123
3	USBR Obligation	301	299	252	104	30.1	29.2	27.1	25.2	65.8	244	256	327	340	402	180
4	DSI Obligation	312	312	313	311	313	311	312	313	312	313	312	312	311	312	312
5	**Transfers Out**	7385	7089	6639	6674	8254	9032	8735	8176	7605	7078	7029	7375	6749	7414	7578
6	Load Following 2012 PSC	3086	3089	2859	2817	3338	3807	3814	3653	3142	3029	3000	2875	2962	3232	3215
7	Block 2012 PSC	12.6	12.6	26.0	11.3	51.0	44.8	63.0	61.7	52.8	3.43	3.43	0	0	12.6	28.1
8	Slice Block 2012 PSC	1589	1589	1657	1690	2081	2316	2345	2166	2014	1699	1699	1505	1410	1635	1841
9	Slice Right to Power 2012 PSC	1984	1681	1517	1649	2077	1995	1753	1591	1791	1713	1727	2479	1855	1979	1856
10	Exports	705	709	571	498	494	654	545	489	495	524	490	508	513	546	544
11	Intra-Regional Transfers (Out)	9.00	9.00	9.00	9.00	215	215	215	215	110	109	111	9.00	9.00	9.00	93.6
12	Federal Diversity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	**Total Firm Obligations**	**8106**	**7808**	**7303**	**7196**	**8734**	**9529**	**9228**	**8661**	**8117**	**7754**	**7715**	**8120**	**7500**	**8236**	**8193**
	Net Resources															
1	**Net Hydro**	7372	6175	5342	5577	7487	7333	6306	5623	6084	6187	6238	9747	7737	7478	6818
2	Regulated Hydro - Net	7011	5817	5010	5255	7216	7154	6161	5471	5833	5753	5793	9029	7073	7075	6464
3	Independent Hydro - Net	361	358	332	321	271	179	145	152	251	434	445	718	664	403	354
4	**Other Resources**	1085	1122	1104	1095	1079	1084	1067	1063	1102	1107	1090	470	93.8	928	941
5	Cogeneration Resources	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	Combustion Turbines	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	Large Thermal Resources	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	399	0	864	878
8	Renewable Resources	51.9	89.1	71.2	62.4	46.3	51.1	34.2	30.0	69.0	74.2	57.0	68.1	91.1	61.6	60.3
9	Small Hydro Resources	2.63	2.63	2.63	2.67	2.84	3.19	3.21	3.05	3.10	3.09	3.09	2.83	2.72	2.63	2.88
10	Small Thermal & Misc.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	**Contract Purchases**	273	269	410	487	371	363	369	355	584	395	396	285	392	277	380
12	Imports	1.00	1.00	49.0	117	1.00	1.00	1.00	1.00	210	9.08	8.92	1.00	1.00	1.00	33.2
13	Intra-Regional Transfers (In)	98.5	98.5	195	202	194	187	198	187	202	211	223	99.9	220	102	175
14	Non-Federal CER	136	138	137	137	137	137	137	137	137	143	132	137	137	137	137
15	Slice Transmission Loss Return	37.3	31.6	28.4	30.9	39.1	37.5	32.9	29.8	33.6	32.2	32.4	46.7	34.9	37.2	34.9
16	Augmentation Purchases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	**Reserves & Losses**	-246	-213	-193	-202	-252	-248	-218	-199	-219	-217	-218	-296	-232	-245	-230
18	Contingency Reserves (Spinning)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	Contingency Reserves (Non-Spinning)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	Load Following Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	Generation Imbalance Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	Transmission Losses	-246	-213	-193	-202	-252	-248	-218	-199	-219	-217	-218	-296	-232	-245	-230
23	**Total Net Resources**	**8484**	**7352**	**6662**	**6957**	**8685**	**8533**	**7524**	**6843**	**7551**	**7473**	**7506**	**10205**	**7991**	**8438**	**7909**
24	**Total Surplus/Deficit**	**378**	**-456**	**-641**	**-238**	**-48.1**	**-996**	**-1705**	**-1817**	**-566**	**-281**	**-209**	**2085**	**492**	**202**	**-283**

Loads and Resources - Federal System

Operating Year: 2018 Water Year: 1937

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Firm Obligations															
1	**Non-Utility Obligation**	721	720	665	522	480	498	495	486	513	687	677	745	751	823	616
2	Federal Agencies	108	108	100.0	107	137	158	156	148	135	119	120	106	101	109	124
3	USBR Obligation	301	299	252	104	30.1	29.2	27.1	25.2	65.8	256	244	327	340	402	180
4	DSI Obligation	312	312	313	311	313	311	312	313	312	312	313	312	311	312	312
5	**Transfers Out**	7458	7163	6705	6697	8284	9070	8771	8218	7631	7043	7111	7564	7044	7490	7654
6	Load Following 2012 PSC	3117	3120	2886	2847	3374	3851	3863	3703	3173	3030	3060	2903	2993	3270	3250
7	Block 2012 PSC	12.9	12.9	26.7	11.6	52.3	45.9	64.6	63.3	54.2	3.52	3.52	0	0	12.9	28.8
8	Slice Block 2012 PSC	1628	1628	1698	1674	2062	2295	2323	2146	1995	1683	1683	1490	1397	1620	1833
9	Slice Right to Power 2012 PSC	1981	1678	1518	1656	2085	2000	1765	1600	1802	1724	1730	2651	2131	2031	1902
10	Exports	711	714	568	500	495	663	541	491	496	492	526	510	515	548	546
11	Intra-Regional Transfers (Out)	9.00	9.00	9.00	9.00	215	215	215	215	110	111	109	9.00	9.00	9.00	93.6
12	Federal Diversity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	**Total Firm Obligations**	**8180**	**7882**	**7370**	**7220**	**8764**	**9568**	**9266**	**8704**	**8144**	**7730**	**7788**	**8309**	**7795**	**8313**	**8270**
	Net Resources															
1	**Net Hydro**	7372	6175	5342	5577	7487	7333	6306	5623	6084	6188	6238	9751	7738	7478	6818
2	Regulated Hydro - Net	7011	5817	5010	5255	7216	7154	6161	5471	5833	5753	5793	9033	7074	7075	6465
3	Independent Hydro - Net	361	358	332	321	271	179	145	152	251	434	445	718	664	403	354
4	**Other Resources**	1085	1122	1104	1095	1079	1084	1067	1063	1102	1107	1090	1101	1124	1094	1093
5	Cogeneration Resources	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	Combustion Turbines	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	Large Thermal Resources	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030
8	Renewable Resources	51.9	89.1	71.2	62.4	46.3	51.1	34.2	30.0	69.0	74.2	57.0	68.1	91.1	61.6	60.3
9	Small Hydro Resources	2.63	2.63	2.63	2.67	2.84	3.19	3.21	3.05	3.10	3.09	3.09	2.83	2.72	2.63	2.88
10	Small Thermal & Misc.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	**Contract Purchases**	280	276	370	445	323	318	316	307	544	333	338	294	349	283	347
12	Imports	1.00	1.00	57.0	109	1.00	1.00	1.00	1.00	218	1.00	1.00	1.00	1.00	1.00	33.2
13	Intra-Regional Transfers (In)	105	105	147	168	146	142	145	139	155	169	163	107	172	109	142
14	Non-Federal CER	136	138	137	137	137	137	137	137	137	131	141	136	136	136	137
15	Slice Transmission Loss Return	37.3	31.5	28.5	30.9	39.0	37.4	32.9	29.8	33.6	32.2	32.3	49.8	39.9	38.0	35.6
16	Augmentation Purchases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	**Reserves & Losses**	-246	-214	-192	-201	-251	-246	-217	-197	-218	-215	-216	-314	-260	-250	-233
18	Contingency Reserves (Spinning)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	Contingency Reserves (Non-Spinning)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	Load Following Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	Generation Imbalance Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	Transmission Losses	-246	-214	-192	-201	-251	-246	-217	-197	-218	-215	-216	-314	-260	-250	-233
23	**Total Net Resources**	**8490**	**7359**	**6623**	**6916**	**8639**	**8489**	**7472**	**6796**	**7512**	**7412**	**7450**	**10831**	**8951**	**8606**	**8026**
24	**Total Surplus/Deficit**	**311**	**-523**	**-747**	**-304**	**-125**	**-1079**	**-1794**	**-1908**	**-632**	**-318**	**-338**	**2522**	**1156**	**293**	**-244**

Loads and Resources - Federal System

Operating Year: 2019 Water Year: 1937

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Firm Obligations															
1	**Non-Utility Obligation**	722	721	665	523	481	500	524	513	536	702	702	763	769	842	629
2	Federal Agencies	109	109	101	108	138	160	185	175	159	140	140	124	118	127	137
3	USBR Obligation	301	299	252	104	30.1	29.2	27.1	25.2	65.8	250	250	327	340	402	180
4	DSI Obligation	312	312	313	311	313	311	312	313	312	312	312	312	311	312	312
5	**Transfers Out**	7483	7188	6726	6733	8187	8989	8683	8137	7580	7008	7018	7384	6770	7469	7583
6	Load Following 2012 PSC	3149	3152	2916	2871	3408	3893	3909	3752	3201	3073	3073	2929	3016	3301	3283
7	Block 2012 PSC	13.3	13.3	27.4	11.6	52.3	45.9	64.6	63.3	54.2	3.52	3.52	0	0	12.9	28.9
8	Slice Block 2012 PSC	1613	1613	1682	1693	2084	2320	2349	2170	2017	1702	1702	1508	1413	1638	1848
9	Slice Right to Power 2012 PSC	1990	1688	1531	1656	2139	2052	1821	1654	1828	1751	1760	2469	1862	2006	1887
10	Exports	709	713	560	493	490	665	526	485	472	470	470	470	471	502	527
11	Intra-Regional Transfers (Out)	9.00	9.00	9.00	9.00	12.9	12.8	12.9	13.0	9.00	9.00	9.00	9.00	9.00	9.00	10.3
12	Federal Diversity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	**Total Firm Obligations**	**8206**	**7909**	**7391**	**7256**	**8668**	**9489**	**9207**	**8650**	**8117**	**7710**	**7720**	**8147**	**7539**	**8310**	**8212**
	Net Resources															
1	**Net Hydro**	7372	6175	5342	5577	7487	7333	6306	5623	6084	6188	6239	9744	7735	7478	6817
2	Regulated Hydro - Net	7011	5817	5010	5255	7216	7154	6161	5471	5833	5753	5794	9026	7071	7074	6464
3	Independent Hydro - Net	361	358	332	321	271	179	145	152	251	434	445	718	664	403	354
4	**Other Resources**	1085	1122	1104	1095	1079	1084	1067	1063	1102	1107	1090	403	93.8	994	941
5	Cogeneration Resources	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	Combustion Turbines	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	Large Thermal Resources	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	332	0	930	878
8	Renewable Resources	51.9	89.1	71.2	62.4	46.3	51.1	34.2	30.0	69.0	74.2	57.0	68.1	91.1	61.6	60.3
9	Small Hydro Resources	2.63	2.63	2.63	2.67	2.84	3.19	3.21	3.05	3.10	3.09	3.09	2.83	2.72	2.63	2.88
10	Small Thermal & Misc.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	**Contract Purchases**	286	282	386	421	327	321	319	306	523	301	301	260	306	251	334
12	Imports	1.00	1.00	65.0	102	1.00	1.00	1.00	1.00	218	1.00	1.00	1.00	1.00	1.00	33.2
13	Intra-Regional Transfers (In)	112	112	157	153	150	146	148	138	135	133	133	78.0	135	78.0	130
14	Non-Federal CER	135	137	136	136	136	136	136	136	136	134	134	134	134	134	135
15	Slice Transmission Loss Return	37.2	31.5	28.5	30.9	40.0	38.4	34.0	30.8	34.1	32.7	32.8	46.3	34.8	37.5	35.2
16	Augmentation Purchases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	**Reserves & Losses**	-247	-214	-193	-200	-251	-246	-217	-197	-217	-214	-215	-293	-229	-246	-228
18	Contingency Reserves (Spinning)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	Contingency Reserves (Non-Spinning)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	Load Following Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	Generation Imbalance Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	Transmission Losses	-247	-214	-193	-200	-251	-246	-217	-197	-217	-214	-215	-293	-229	-246	-228
23	**Total Net Resources**	**8496**	**7364**	**6639**	**6893**	**8642**	**8493**	**7476**	**6795**	**7492**	**7381**	**7415**	**10113**	**7905**	**8477**	**7864**
24	**Total Surplus/Deficit**	**291**	**-544**	**-752**	**-363**	**-25.6**	**-996**	**-1731**	**-1855**	**-625**	**-329**	**-305**	**1966**	**366**	**166**	**-348**

Loads and Resources - Federal System

Operating Year: 2020 Water Year: 1937

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Firm Obligations															
1	**Non-Utility Obligation**	741	739	683	542	506	531	536	519	546	710	710	770	776	849	643
2	Federal Agencies	128	128	118	126	163	191	197	181	168	148	148	131	125	135	151
3	USBR Obligation	301	299	252	104	30.1	29.2	27.1	25.2	65.8	250	250	327	340	402	180
4	DSI Obligation	312	312	313	311	313	311	312	313	312	312	312	312	311	312	312
5	**Transfers Out**	7483	7189	6731	6718	8186	9005	8691	7987	7591	7021	7030	7572	7049	7512	7619
6	Load Following 2012 PSC	3173	3176	2939	2899	3447	3941	3961	3712	3233	3105	3105	2958	3045	3339	3313
7	Block 2012 PSC	13.3	13.3	27.4	11.7	53.0	46.6	65.5	61.9	54.9	3.56	3.56	0	0	13.1	29.2
8	Slice Block 2012 PSC	1631	1631	1700	1676	2065	2298	2326	2075	1998	1685	1685	1492	1398	1621	1830
9	Slice Right to Power 2012 PSC	1989	1687	1534	1657	2142	2053	1826	1657	1830	1753	1762	2648	2132	2034	1927
10	Exports	668	672	521	465	466	654	499	468	466	465	465	465	466	497	509
11	Intra-Regional Transfers (Out)	9.00	9.00	9.00	9.00	12.9	12.8	12.9	13.0	9.00	9.00	9.00	9.00	9.00	9.00	10.3
12	Federal Diversity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	**Total Firm Obligations**	**8224**	**7928**	**7414**	**7260**	**8692**	**9535**	**9227**	**8506**	**8137**	**7731**	**7741**	**8342**	**7825**	**8362**	**8261**
	Net Resources															
1	**Net Hydro**	7372	6175	5342	5577	7487	7333	6306	5623	6084	6185	6237	9735	7734	7478	6813
2	Regulated Hydro - Net	7011	5817	5010	5255	7216	7154	6161	5471	5833	5751	5792	9017	7070	7075	6460
3	Independent Hydro - Net	361	358	332	321	271	179	145	152	251	434	445	718	664	403	353
4	**Other Resources**	1085	1122	1104	1095	1079	1084	1067	1063	1102	1107	1090	1101	1124	1094	1093
5	Cogeneration Resources	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	Combustion Turbines	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	Large Thermal Resources	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030
8	Renewable Resources	51.9	89.1	71.2	62.4	46.3	51.1	34.2	30.0	69.0	74.2	57.0	68.1	91.1	61.5	60.2
9	Small Hydro Resources	2.63	2.63	2.63	2.67	2.84	3.19	3.21	3.04	3.10	3.09	3.09	2.83	2.72	2.63	2.88
10	Small Thermal & Misc.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	**Contract Purchases**	250	246	314	259	176	174	170	166	387	167	167	184	174	172	216
12	Imports	1.00	1.00	73.0	93.9	1.00	1.00	1.00	1.00	218	1.00	1.00	1.00	1.00	1.00	33.1
13	Intra-Regional Transfers (In)	78.0	78.0	78.0	0	0	0	0	0	0	0	0	0	0	0	13.0
14	Non-Federal CER	134	135	134	134	134	134	134	134	134	133	133	133	133	133	134
15	Slice Transmission Loss Return	37.2	31.5	28.5	30.9	40.1	38.4	34.1	30.9	34.2	32.7	32.9	49.7	39.9	38.1	36.0
16	Augmentation Purchases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	**Reserves & Losses**	-246	-213	-191	-195	-247	-242	-213	-193	-214	-210	-211	-311	-255	-247	-229
18	Contingency Reserves (Spinning)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	Contingency Reserves (Non-Spinning)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	Load Following Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	Generation Imbalance Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	Transmission Losses	-246	-213	-191	-195	-247	-242	-213	-193	-214	-210	-211	-311	-255	-247	-229
23	**Total Net Resources**	**8461**	**7330**	**6569**	**6736**	**8495**	**8349**	**7330**	**6660**	**7360**	**7249**	**7283**	**10709**	**8777**	**8497**	**7893**
24	**Total Surplus/Deficit**	**237**	**-598**	**-844**	**-524**	**-197**	**-1186**	**-1897**	**-1846**	**-778**	**-482**	**-458**	**2367**	**952**	**136**	**-368**

Loads and Resources - Federal System

Operating Year: 2021 Water Year: 1937

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Firm Obligations															
1	**Non-Utility Obligation**	743	752	690	549	517	543	536	524	546	711	711	771	776	850	647
2	Federal Agencies	136	135	125	134	173	203	198	186	169	148	148	132	126	135	155
3	USBR Obligation	295	304	252	104	30.1	29.2	27.1	25.2	65.8	250	250	327	340	402	180
4	DSI Obligation	313	312	313	311	313	311	312	313	312	312	312	312	311	312	312
5	**Transfers Out**	7531	7174	6740	6727	8207	9050	8709	8190	7598	7041	7050	7439	6796	7472	7610
6	Load Following 2012 PSC	3220	3191	2967	2922	3481	3984	4003	3851	3255	3128	3128	2979	3065	3367	3348
7	Block 2012 PSC	13.5	13.5	27.8	11.7	52.9	46.4	65.3	64.0	54.8	3.55	3.55	0	0	13.1	29.2
8	Slice Block 2012 PSC	1615	1615	1684	1672	2059	2292	2321	2143	1992	1680	1680	1489	1395	1617	1829
9	Slice Right to Power 2012 PSC	1986	1687	1544	1653	2141	2050	1829	1657	1826	1760	1769	2502	1867	1974	1889
10	Exports	688	659	508	460	461	664	478	463	461	460	460	460	461	492	504
11	Intra-Regional Transfers (Out)	9.00	9.00	9.00	9.00	12.7	12.9	12.8	13.0	9.00	9.00	9.00	9.00	9.00	9.00	10.3
12	Federal Diversity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	**Total Firm Obligations**	**8274**	**7926**	**7430**	**7276**	**8724**	**9593**	**9245**	**8715**	**8144**	**7751**	**7761**	**8210**	**7572**	**8322**	**8257**
	Net Resources															
1	**Net Hydro**	7372	6175	5342	5577	7487	7333	6306	5623	6084	6188	6239	9735	7736	7478	6817
2	Regulated Hydro - Net	7011	5817	5010	5255	7216	7154	6161	5471	5833	5753	5794	9017	7072	7075	6463
3	Independent Hydro - Net	361	358	332	321	271	179	145	152	251	434	445	718	664	403	354
4	**Other Resources**	1084	1122	1104	1095	1079	1084	1067	1063	1102	1107	1090	536	93.8	861	941
5	Cogeneration Resources	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	Combustion Turbines	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	Large Thermal Resources	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	465	0	797	878
8	Renewable Resources	51.9	89.1	71.2	62.4	46.3	51.1	34.2	30.0	69.0	74.2	57.0	68.1	91.1	61.5	60.3
9	Small Hydro Resources	2.63	2.63	2.63	2.67	2.84	3.19	3.21	3.05	3.10	3.09	3.09	2.83	2.72	2.63	2.88
10	Small Thermal & Misc.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	**Contract Purchases**	176	161	251	242	174	172	168	165	362	189	190	179	167	169	201
12	Imports	1.00	1.00	89.0	78.4	1.00	1.00	1.00	1.00	195	25.0	25.0	1.00	1.00	1.00	33.2
13	Intra-Regional Transfers (In)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	Non-Federal CER	137	129	133	133	133	133	133	133	133	131	131	131	131	131	132
15	Slice Transmission Loss Return	37.1	31.5	28.7	30.8	40.1	38.4	34.2	30.9	34.1	32.8	33.0	46.9	34.9	36.9	35.3
16	Augmentation Purchases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	**Reserves & Losses**	-243	-210	-189	-195	-246	-242	-213	-193	-213	-211	-212	-295	-226	-240	-224
18	Contingency Reserves (Spinning)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	Contingency Reserves (Non-Spinning)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	Load Following Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	Generation Imbalance Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	Transmission Losses	-243	-210	-189	-195	-246	-242	-213	-193	-213	-211	-212	-295	-226	-240	-224
23	**Total Net Resources**	**8389**	**7248**	**6508**	**6719**	**8494**	**8348**	**7329**	**6658**	**7335**	**7273**	**7306**	**10156**	**7772**	**8268**	**7734**
24	**Total Surplus/Deficit**	**115**	**-678**	**-922**	**-557**	**-230**	**-1245**	**-1916**	**-2057**	**-809**	**-478**	**-454**	**1946**	**200**	**-53.2**	**-523**

Loads and Resources - Federal System

Operating Year: 2022 Water Year: 1937

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Firm Obligations															
1	**Non-Utility Obligation**	754	742	690	550	517	544	537	525	547	711	711	771	777	850	648
2	Federal Agencies	135	137	126	134	174	204	198	187	169	149	149	132	126	136	156
3	USBR Obligation	307	293	252	104	30.1	29.2	27.1	25.2	65.8	250	250	327	340	402	180
4	DSI Obligation	312	313	313	311	313	311	312	313	312	312	312	312	311	312	312
5	**Transfers Out**	7478	7253	6749	6759	8255	9113	8735	8221	7625	7063	7072	7618	7088	7559	7679
6	Load Following 2012 PSC	3205	3245	2986	2957	3525	4040	4032	3881	3279	3151	3151	3002	3089	3393	3378
7	Block 2012 PSC	13.4	13.4	27.7	11.7	52.8	46.4	65.3	63.9	54.7	3.55	3.55	0	0	13.1	29.2
8	Slice Block 2012 PSC	1611	1611	1679	1679	2068	2303	2332	2152	2000	1687	1687	1498	1401	1624	1835
9	Slice Right to Power 2012 PSC	1989	1683	1547	1648	2139	2044	1827	1653	1826	1757	1766	2654	2133	2032	1927
10	Exports	651	691	499	456	456	667	466	458	456	456	456	455	456	487	499
11	Intra-Regional Transfers (Out)	9.00	9.00	9.00	9.00	12.9	12.9	12.8	13.0	9.00	9.00	9.00	9.00	9.00	9.00	10.3
12	Federal Diversity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	**Total Firm Obligations**	**8232**	**7996**	**7439**	**7309**	**8772**	**9657**	**9271**	**8746**	**8172**	**7774**	**7783**	**8389**	**7864**	**8409**	**8327**
	Net Resources															
1	**Net Hydro**	7372	6175	5342	5564	7471	7312	6284	5603	6070	6178	6229	9751	7728	7465	6807
2	Regulated Hydro - Net	7011	5817	5010	5255	7216	7154	6161	5471	5833	5753	5794	9040	7074	7075	6465
3	Independent Hydro - Net	361	358	332	308	255	158	123	131	237	424	435	711	654	391	342
4	**Other Resources**	1084	1122	1104	1095	1079	1084	1067	1063	1102	1107	1090	1101	1124	1094	1093
5	Cogeneration Resources	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	Combustion Turbines	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	Large Thermal Resources	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030
8	Renewable Resources	51.9	89.1	71.2	62.4	46.3	51.1	34.2	30.0	69.0	74.2	57.0	68.1	91.1	61.5	60.3
9	Small Hydro Resources	2.63	2.63	2.63	2.67	2.84	3.19	3.21	3.05	3.10	3.09	3.09	2.83	2.72	2.63	2.88
10	Small Thermal & Misc.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	**Contract Purchases**	164	170	257	233	173	171	167	163	368	180	180	181	171	169	200
12	Imports	1.00	1.00	97.0	70.7	1.00	1.00	1.00	1.00	203	17.0	17.0	1.00	1.00	1.00	33.2
13	Intra-Regional Transfers (In)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	Non-Federal CER	125	137	131	131	131	131	131	131	131	130	130	130	130	130	131
15	Slice Transmission Loss Return	37.2	31.4	28.8	30.7	40.0	38.2	34.1	30.8	34.1	32.8	33.0	49.8	39.9	38.0	36.0
16	Augmentation Purchases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	**Reserves & Losses**	-243	-211	-189	-194	-246	-242	-212	-193	-213	-211	-211	-311	-254	-246	-228
18	Contingency Reserves (Spinning)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	Contingency Reserves (Non-Spinning)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	Load Following Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	Generation Imbalance Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	Transmission Losses	-243	-211	-189	-194	-246	-242	-212	-193	-213	-211	-211	-311	-254	-246	-228
23	**Total Net Resources**	**8377**	**7256**	**6514**	**6697**	**8476**	**8325**	**7306**	**6637**	**7328**	**7254**	**7288**	**10722**	**8769**	**8482**	**7872**
24	**Total Surplus/Deficit**	**145**	**-740**	**-925**	**-612**	**-296**	**-1332**	**-1966**	**-2110**	**-844**	**-520**	**-496**	**2333**	**904**	**73.5**	**-455**

Loads and Resources - Federal System

Operating Year: 2023 Water Year: 1937

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Firm Obligations															
1	**Non-Utility Obligation**	749	748	691	550	518	544	537	526	547	707	716	771	777	851	648
2	Federal Agencies	136	136	126	135	174	204	199	188	170	150	149	132	126	136	156
3	USBR Obligation	301	299	252	104	30.1	29.2	27.1	25.2	65.8	244	256	327	340	402	180
4	DSI Obligation	312	312	313	311	313	311	312	313	312	313	312	312	311	312	312
5	**Transfers Out**	7525	7230	6777	6795	8284	9113	8802	8252	7653	7117	7063	7482	6848	7545	7668
6	Load Following 2012 PSC	3250	3253	3009	2984	3556	4075	4067	3914	3307	3195	3163	3030	3118	3425	3408
7	Block 2012 PSC	13.4	13.4	27.7	11.7	52.8	46.4	65.3	63.9	54.7	3.55	3.55	0	0	13.1	29.2
8	Slice Block 2012 PSC	1618	1618	1686	1680	2070	2305	2334	2155	2002	1689	1689	1499	1403	1626	1838
9	Slice Right to Power 2012 PSC	1993	1691	1527	1660	2139	2057	1815	1653	1828	1752	1765	2492	1867	1989	1888
10	Exports	642	646	519	451	452	616	508	453	452	469	433	451	451	482	495
11	Intra-Regional Transfers (Out)	9.00	9.00	9.00	9.00	12.9	12.9	12.8	13.0	9.00	9.00	9.00	9.00	9.00	9.00	10.3
12	Federal Diversity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	**Total Firm Obligations**	**8274**	**7978**	**7468**	**7345**	**8801**	**9657**	**9340**	**8778**	**8200**	**7824**	**7779**	**8253**	**7625**	**8396**	**8316**
	Net Resources															
1	**Net Hydro**	7362	6165	5331	5564	7471	7312	6284	5603	6070	6178	6229	9751	7728	7465	6805
2	Regulated Hydro - Net	7011	5817	5010	5255	7216	7154	6161	5471	5833	5753	5794	9040	7074	7075	6465
3	Independent Hydro - Net	351	348	321	308	255	158	123	131	237	424	435	711	654	391	340
4	**Other Resources**	1084	1122	1104	1095	1079	1084	1067	1063	1102	1107	1090	470	93.8	928	941
5	Cogeneration Resources	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	Combustion Turbines	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	Large Thermal Resources	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	399	0	864	878
8	Renewable Resources	51.9	89.1	71.2	62.4	46.3	51.1	34.2	30.0	69.0	74.2	57.0	68.1	91.1	61.5	60.3
9	Small Hydro Resources	2.63	2.63	2.63	2.67	2.84	3.19	3.21	3.05	3.10	3.09	3.09	2.83	2.72	2.63	2.88
10	Small Thermal & Misc.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	**Contract Purchases**	168	163	208	278	171	170	165	162	375	176	166	177	165	167	198
12	Imports	1.00	1.00	49.0	117	1.00	1.00	1.00	1.00	210	9.08	8.92	1.00	1.00	1.00	33.2
13	Intra-Regional Transfers (In)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	Non-Federal CER	129	131	130	130	130	130	130	130	130	134	124	129	129	129	130
15	Slice Transmission Loss Return	37.3	31.5	28.4	30.9	40.1	38.5	33.9	30.8	34.1	32.7	32.9	46.8	34.9	37.2	35.3
16	Augmentation Purchases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	**Reserves & Losses**	-243	-210	-187	-196	-246	-242	-212	-193	-213	-210	-211	-293	-225	-241	-224
18	Contingency Reserves (Spinning)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	Contingency Reserves (Non-Spinning)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	Load Following Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	Generation Imbalance Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	Transmission Losses	-243	-210	-187	-196	-246	-242	-212	-193	-213	-210	-211	-293	-225	-241	-224
23	**Total Net Resources**	**8372**	**7240**	**6455**	**6741**	**8475**	**8324**	**7304**	**6635**	**7334**	**7250**	**7273**	**10104**	**7762**	**8319**	**7720**
24	**Total Surplus/Deficit**	**97.2**	**-738**	**-1012**	**-604**	**-326**	**-1333**	**-2036**	**-2143**	**-866**	**-573**	**-506**	**1851**	**137**	**-76.8**	**-596**

THIS PAGE INTENTIONALLY LEFT BLANK

Exhibit 20
Regional Report Surplus Deficit

Monthly Energy
Operating Year 2014 to 2023
Using 1937-Water Conditions

Loads and Resources - Pacific Northwest Region

Operating Year: 2014 Water Year: 1937

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Firm Loads															
1	**Regional Firm Loads**	21030	21050	19640	19377	21604	23891	24065	22930	21175	20156	20156	19515	21016	22408	21398
2	Federal Agency	112	112	104	111	134	153	154	147	135	124	124	112	106	114	126
3	USBR	301	299	252	104	30.1	29.2	27.1	25.2	65.8	250	250	327	340	402	180
4	Cooperative	1675	1676	1499	1595	1836	2122	2091	1996	1770	1727	1727	1742	1866	2058	1831
5	Municipality	2460	2462	2399	2572	2976	3202	3211	3107	2832	2661	2661	2456	2422	2467	2729
6	Public Utility District	3866	3868	3736	4022	4596	5136	5091	4829	4343	4112	4112	3862	3892	4080	4295
7	Investor-Owned Utility	11788	11803	10871	10179	11203	12394	12630	11971	11184	10443	10443	10178	11544	12428	11401
8	Marketer	380	380	328	345	378	406	411	404	396	389	389	389	398	409	386
9	Direct-Service Industry	450	450	450	449	451	448	449	450	450	450	450	449	448	450	450
10	**Exports**	1963	2189	1920	1499	1361	1512	1233	1196	1426	1646	1473	1427	1856	1859	1580
11	Canada	691	696	544	488	488	674	519	488	488	488	488	488	488	517	531
12	East Continental Divide	15.0	15.0	12.9	13.0	8.19	9.85	10.0	9.73	8.21	7.23	7.23	7.06	7.61	9.94	9.91
13	Inland Southwest	22.6	18.6	11.6	18.8	11.6	15.8	13.7	11.9	8.09	8.80	14.1	20.7	15.4	17.2	14.8
14	Pacific Southwest	1234	1460	1351	979	853	813	690	686	922	1142	964	911	1345	1315	1024
15	Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	**Federal Diversity**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	**Total Firm Loads**	**22993**	**23240**	**21561**	**20876**	**22965**	**25403**	**25298**	**24125**	**22601**	**21802**	**21629**	**20943**	**22872**	**24267**	**22977**
	Non-Firm Loads															
1	**Regional Non-Firm Loads**	0	0	14.3	0	0	0	3.50	23.0	54.4	33.8	33.8	0	0	0	10.6
2	Federal Agency	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	USBR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	Cooperative	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	Municipality	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	Public Utility District	0	0	14.3	0	0	0	3.50	23.0	54.4	33.8	33.8	0	0	0	10.6
7	Investor-Owned Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	Direct-Service Industry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	Marketer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	**Total Non-Firm Loads**	**0**	**0**	**14.3**	**0**	**0**	**0**	**3.50**	**23.0**	**54.4**	**33.8**	**33.8**	**0**	**0**	**0**	**10.6**
	Resources															
1	**Hydro**	11794	10183	9275	9693	12386	12411	10895	9531	10459	11746	10887	16579	15345	13589	11887
2	Regulated Hydro - Net	10803	9195	8319	8787	11573	11559	10173	8752	9493	10438	9561	14981	13771	12462	10836
3	Independent Hydro - Net	991	988	957	906	813	851	722	779	966	1307	1327	1598	1574	1127	1051
4	**Other Resources**	16693	17586	17435	17118	16940	16894	16403	16421	16060	16959	15919	13068	16072	17549	16460
5	Cogeneration Resources	2749	2749	2759	2725	2772	2854	2813	2818	2032	2646	2220	2229	2482	2714	2613
6	Combustion Turbine Resources	5591	5598	5650	5707	5822	5875	5880	5837	5792	5762	5755	3646	4004	5596	5428
7	Large Thermal Resources	6400	6400	6400	6400	6400	6400	6400	6400	6133	5608	5608	4495	6205	6400	6135
8	Renewable Resources	1587	2475	2337	2073	1774	1600	1153	1205	1909	2627	2010	2246	2898	2374	1997
9	Small Hydro	334	333	254	176	135	127	118	124	157	283	292	415	449	430	251
10	Small Thermal & Miscellaneous	30.3	30.4	35.9	37.6	36.5	38.1	37.9	36.3	37.9	33.8	33.6	37.7	33.2	35.3	35.9
11	**Imports**	672	672	691	679	893	1006	906	881	902	574	574	593	721	791	776
12	Canada	25.8	25.8	88.0	110	37.5	53.1	66.4	72.6	282	30.6	30.6	27.5	36.5	21.5	71.2
13	East of Continental Divide	138	138	128	125	133	141	146	139	138	124	124	124	133	145	135
14	Inland Southwest	493	492	453	425	423	455	428	442	414	395	395	441	552	609	461
15	Pacific Southwest	15.8	15.7	22.6	19.4	300	356	265	228	67.9	23.7	23.7	0.12	0	15.1	109

Loads and Resources - Pacific Northwest Region

Operating Year: 2014 Water Year: 1937

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
16	Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	**Reserves & Losses**	-822	-802	-773	-775	-852	-855	-795	-757	-773	-826	-772	-853	-906	-900	-821
18	Contingency Reserves (Non-Spinning)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	Contingency Reserves (Spinning)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	Generation Imbalance Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	Load Following Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	Transmission Losses	-822	-802	-773	-775	-852	-855	-795	-757	-773	-826	-772	-853	-906	-900	-821
23	**Total Resources**	**28337**	**27639**	**26629**	**26715**	**29367**	**29455**	**27408**	**26076**	**26648**	**28453**	**26608**	**29388**	**31231**	**31029**	**28302**
24	**Total Surplus/Deficit**	**5344**	**4399**	**5054**	**5839**	**6402**	**4052**	**2107**	**1928**	**3992**	**6618**	**4945**	**8445**	**8359**	**6762**	**5314**

Loads and Resources - Pacific Northwest Region

Operating Year: 2015 Water Year: 1937

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Firm Loads															
1	**Regional Firm Loads**	22052	21895	20468	19845	22108	24440	24576	23420	21628	20572	20572	19931	21481	22902	21942
2	Federal Agency	115	114	106	113	137	157	157	150	138	126	126	114	108	116	128
3	USBR	295	304	252	104	30.1	29.2	27.1	25.2	65.8	250	250	327	340	402	180
4	Cooperative	1986	1971	1759	1650	1891	2178	2134	2041	1810	1769	1769	1783	1907	2095	1916
5	Municipality	2491	2468	2428	2594	2998	3225	3218	3115	2837	2666	2666	2461	2425	2472	2741
6	Public Utility District	4091	4064	3924	4047	4649	5195	5136	4877	4422	4178	4178	3928	3961	4145	4376
7	Investor-Owned Utility	12242	12143	11220	10497	11528	12757	12998	12313	11463	10698	10698	10435	11848	12769	11726
8	Marketer	382	381	330	347	380	408	412	405	398	391	391	391	399	410	388
9	Direct-Service Industry	450	450	450	493	494	492	493	494	493	493	493	493	492	493	486
10	**Exports**	1861	2056	1805	1469	1335	1493	1071	1050	1274	1527	1354	1353	1778	1734	1483
11	Canada	686	656	516	464	464	657	487	464	464	464	464	464	464	492	506
12	East Continental Divide	9.20	9.11	7.12	7.25	8.19	9.85	10.0	9.73	8.21	7.23	7.23	7.06	7.61	9.94	8.45
13	Inland Southwest	22.6	18.6	11.6	18.8	11.6	15.8	13.7	11.9	8.09	8.80	14.1	20.7	15.4	17.2	14.8
14	Pacific Southwest	1144	1372	1270	979	852	810	560	565	794	1048	869	861	1291	1215	953
15	Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	**Federal Diversity**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	**Total Firm Loads**	**23913**	**23951**	**22273**	**21313**	**23443**	**25933**	**25647**	**24470**	**22901**	**22099**	**21926**	**21284**	**23258**	**24636**	**23424**
	Non-Firm Loads															
1	**Regional Non-Firm Loads**	0	0	14.3	0	0	0	3.50	23.0	54.4	33.8	33.8	0	0	0	10.6
2	Federal Agency	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	USBR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	Cooperative	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	Municipality	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	Public Utility District	0	0	14.3	0	0	0	3.50	23.0	54.4	33.8	33.8	0	0	0	10.6
7	Investor-Owned Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	Direct-Service Industry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	Marketer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	**Total Non-Firm Loads**	**0**	**0**	**14.3**	**0**	**0**	**0**	**3.50**	**23.0**	**54.4**	**33.8**	**33.8**	**0**	**0**	**0**	**10.6**
	Resources															
1	**Hydro**	11794	10183	9275	9513	12209	12386	11583	9710	10458	11542	10798	15914	14599	12967	11745
2	Regulated Hydro - Net	10803	9195	8319	8606	11396	11535	10861	8930	9492	10235	9471	14316	13025	11840	10694
3	Independent Hydro - Net	991	988	957	906	813	851	722	779	966	1307	1327	1598	1574	1127	1051
4	**Other Resources**	16633	17622	17436	17118	16978	16895	16589	16610	16210	17631	16597	12997	15070	17504	16469
5	Cogeneration Resources	2749	2749	2759	2725	2810	2854	2811	2819	2030	2639	2220	2138	2545	2747	2616
6	Combustion Turbine Resources	5510	5598	5650	5707	5822	5875	6067	6024	5979	5949	5942	3833	4191	5783	5533
7	Large Thermal Resources	6400	6400	6400	6400	6400	6400	6400	6400	6097	6098	6098	4326	4976	6134	6034
8	Renewable Resources	1610	2512	2337	2073	1775	1601	1153	1206	1909	2628	2011	2247	2876	2374	1998
9	Small Hydro	333	332	254	175	135	127	119	125	157	283	292	416	449	430	251
10	Small Thermal & Miscellaneous	30.3	30.4	35.9	37.6	36.5	38.1	37.9	36.3	37.9	33.8	33.6	37.7	33.2	35.3	35.9
11	**Imports**	687	687	712	681	900	1011	913	888	908	580	580	600	732	799	784
12	Canada	25.8	25.8	96.0	102	37.5	53.1	66.4	72.6	282	30.6	30.6	27.5	36.5	21.5	71.2
13	East of Continental Divide	140	139	129	127	135	143	147	140	139	126	126	126	134	147	136
14	Inland Southwest	506	506	464	432	427	461	433	447	420	400	400	447	561	620	468
15	Pacific Southwest	14.8	15.4	23.0	19.4	301	355	267	228	67.1	23.7	23.7	0.12	0	10.6	108

Loads and Resources - Pacific Northwest Region

Operating Year: 2015 Water Year: 1937

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
16	Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	**Reserves & Losses**	-821	-803	-773	-770	-848	-854	-820	-767	-778	-839	-789	-832	-857	-882	-818
18	Contingency Reserves (Non-Spinning)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	Contingency Reserves (Spinning)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	Generation Imbalance Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	Load Following Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	Transmission Losses	-821	-803	-773	-770	-848	-854	-820	-767	-778	-839	-789	-832	-857	-882	-818
23	**Total Resources**	**28294**	**27688**	**26650**	**26542**	**29239**	**29438**	**28265**	**26440**	**26798**	**28915**	**27186**	**28679**	**29543**	**30387**	**28180**
24	**Total Surplus/Deficit**	**4381**	**3737**	**4363**	**5228**	**5796**	**3505**	**2614**	**1946**	**3843**	**6782**	**5226**	**7395**	**6285**	**5751**	**4745**

Loads and Resources - Pacific Northwest Region

Operating Year: 2016 Water Year: 1937

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Firm Loads															
1	**Regional Firm Loads**	22501	22341	20844	20213	22576	24823	24977	23651	21928	20911	20911	20279	21914	23347	22325
2	Federal Agency	117	116	108	115	140	160	162	150	141	129	129	116	111	119	131
3	USBR	295	304	252	104	30.1	29.2	27.1	25.2	65.8	250	250	327	340	402	180
4	Cooperative	2023	2007	1794	1689	1933	2220	2179	2031	1853	1807	1807	1823	1952	2143	1954
5	Municipality	2495	2472	2432	2594	3000	3225	3231	3101	2848	2678	2678	2472	2438	2483	2748
6	Public Utility District	4147	4120	3949	4105	4790	5229	5161	4830	4383	4201	4201	3959	4025	4204	4414
7	Investor-Owned Utility	12548	12447	11484	10722	11764	13014	13266	12564	11701	10917	10917	10653	12113	13048	11980
8	Marketer	383	383	331	348	382	409	414	412	399	392	392	392	401	412	390
9	Direct-Service Industry	494	493	494	536	538	536	536	538	537	537	537	537	536	537	530
10	**Exports**	1741	1936	1707	1381	1251	1380	1070	1058	1281	1535	1363	1287	1711	1706	1428
11	Canada	698	668	520	472	472	673	488	472	472	472	472	472	472	501	515
12	East Continental Divide	9.20	9.11	7.12	7.25	8.19	9.85	10.0	9.73	8.21	7.23	7.23	7.06	7.61	9.94	8.45
13	Inland Southwest	22.6	18.6	11.6	18.8	11.6	15.8	13.7	11.9	8.09	8.80	14.1	20.7	15.4	17.2	14.8
14	Pacific Southwest	1011	1240	1168	883	759	681	559	564	793	1047	869	788	1216	1178	890
15	Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	**Federal Diversity**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	**Total Firm Loads**	**24243**	**24277**	**22551**	**21594**	**23827**	**26203**	**26047**	**24709**	**23209**	**22446**	**22274**	**21566**	**23625**	**25054**	**23753**
	Non-Firm Loads															
1	**Regional Non-Firm Loads**	0	0	14.3	0	0	0	3.50	23.8	54.4	33.8	33.8	0	0	0	10.7
2	Federal Agency	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	USBR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	Cooperative	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	Municipality	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	Public Utility District	0	0	14.3	0	0	0	3.50	23.8	54.4	33.8	33.8	0	0	0	10.7
7	Investor-Owned Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	Direct-Service Industry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	Marketer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	**Total Non-Firm Loads**	**0**	**0**	**14.3**	**0**	**0**	**0**	**3.50**	**23.8**	**54.4**	**33.8**	**33.8**	**0**	**0**	**0**	**10.7**
	Resources															
1	**Hydro**	11810	10111	9472	9513	12209	12386	11583	9710	10458	11542	10798	15914	14599	12967	11753
2	Regulated Hydro - Net	10819	9123	8515	8606	11396	11535	10861	8930	9492	10235	9471	14316	13025	11840	10703
3	Independent Hydro - Net	991	988	957	906	813	851	722	779	966	1307	1327	1598	1574	1127	1050
4	**Other Resources**	16900	17808	17668	17383	17227	17136	16625	16650	16570	16034	15189	13906	16552	17855	16713
5	Cogeneration Resources	2748	2748	2721	2731	2809	2853	2810	2818	2149	2272	2220	2241	2483	2746	2612
6	Combustion Turbine Resources	5778	5785	5837	5894	6009	6062	6067	6024	5979	5949	5942	3833	4191	5783	5616
7	Large Thermal Resources	6400	6400	6400	6400	6400	6400	6400	6400	6273	4771	4618	5063	6416	6400	6138
8	Renewable Resources	1610	2512	2420	2146	1838	1656	1191	1246	1975	2724	2082	2315	2980	2460	2060
9	Small Hydro	333	332	253	174	134	127	119	125	157	284	293	416	449	430	251
10	Small Thermal & Miscellaneous	30.3	30.4	35.9	37.6	36.5	38.1	37.9	36.3	37.9	33.8	33.6	37.7	33.2	35.3	35.9
11	**Imports**	691	690	714	670	820	933	836	814	893	601	601	605	740	797	760
12	Canada	25.8	25.8	104	94.7	37.5	53.1	66.4	72.6	266	46.6	46.6	27.5	36.5	21.5	71.2
13	East of Continental Divide	142	141	130	128	136	144	149	147	141	127	127	127	136	149	138
14	Inland Southwest	514	514	469	436	431	464	436	450	423	403	403	450	567	627	473
15	Pacific Southwest	9.98	10.3	11.0	11.1	216	272	185	144	62.1	23.7	23.7	0	0	0	77.7

Loads and Resources - Pacific Northwest Region

Operating Year: 2016 Water Year: 1937

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
16	Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	**Reserves & Losses**	-829	-807	-785	-777	-853	-859	-819	-766	-787	-795	-750	-858	-899	-892	-824
18	Contingency Reserves (Non-Spinning)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	Contingency Reserves (Spinning)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	Generation Imbalance Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	Load Following Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	Transmission Losses	-829	-807	-785	-777	-853	-859	-819	-766	-787	-795	-750	-858	-899	-892	-824
23	**Total Resources**	**28573**	**27802**	**27068**	**26788**	**29403**	**29597**	**28226**	**26407**	**27133**	**27383**	**25838**	**29566**	**30991**	**30727**	**28401**
24	**Total Surplus/Deficit**	**4330**	**3525**	**4503**	**5194**	**5576**	**3394**	**2175**	**1675**	**3870**	**4903**	**3531**	**8000**	**7366**	**5673**	**4637**

Loads and Resources - Pacific Northwest Region

Operating Year: 2017 Water Year: 1937

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Firm Loads															
1	**Regional Firm Loads**	22863	22885	21257	20513	22939	25150	25356	24160	22188	21276	21125	20571	22272	23736	22681
2	Federal Agency	119	119	111	118	144	165	162	155	142	130	130	117	111	119	133
3	USBR	301	299	252	104	30.1	29.2	27.1	25.2	65.8	244	256	327	340	402	180
4	Cooperative	2060	2062	1836	1729	1975	2268	2222	2130	1892	1856	1840	1865	1997	2191	2001
5	Municipality	2497	2500	2446	2605	3051	3208	3269	3156	2819	2704	2676	2484	2469	2516	2766
6	Public Utility District	4202	4205	4030	4147	4835	5276	5209	4963	4426	4261	4228	3999	4060	4240	4467
7	Investor-Owned Utility	12762	12778	11711	10924	11982	13256	13515	12784	11906	11150	11066	10848	12357	13317	12206
8	Marketer	385	385	333	350	383	411	416	409	401	394	393	394	402	414	391
9	Direct-Service Industry	537	537	538	536	538	536	536	538	537	538	537	537	536	537	537
10	**Exports**	1661	1886	1688	1344	1243	1333	1101	1051	1274	1547	1340	1281	1707	1702	1414
11	Canada	657	661	536	468	468	630	522	468	468	486	449	468	468	496	510
12	East Continental Divide	9.15	9.16	7.12	7.25	8.19	9.85	10.0	9.73	8.21	7.25	7.21	7.06	7.61	9.94	8.45
13	Inland Southwest	22.6	18.6	11.6	18.8	11.6	15.8	13.7	11.9	8.09	8.80	14.1	20.7	15.4	17.2	14.8
14	Pacific Southwest	972	1198	1134	851	755	677	555	562	790	1045	870	786	1216	1178	880
15	Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	**Federal Diversity**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	**Total Firm Loads**	**24524**	**24771**	**22945**	**21857**	**24181**	**26483**	**26457**	**25211**	**23462**	**22824**	**22465**	**21852**	**23979**	**25438**	**24095**
	Non-Firm Loads															
1	**Regional Non-Firm Loads**	0	0	14.3	0	0	0	3.50	23.0	54.4	33.8	33.8	0	0	0	10.6
2	Federal Agency	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	USBR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	Cooperative	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	Municipality	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	Public Utility District	0	0	14.3	0	0	0	3.50	23.0	54.4	33.8	33.8	0	0	0	10.6
7	Investor-Owned Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	Direct-Service Industry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	Marketer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	**Total Non-Firm Loads**	**0**	**0**	**14.3**	**0**	**0**	**0**	**3.50**	**23.0**	**54.4**	**33.8**	**33.8**	**0**	**0**	**0**	**10.6**
	Resources															
1	**Hydro**	11810	10111	9472	9513	12209	12386	11583	9710	10458	11542	10798	15906	14598	12967	11758
2	Regulated Hydro - Net	10819	9123	8515	8606	11396	11535	10861	8930	9492	10235	9471	14309	13024	11840	10707
3	Independent Hydro - Net	991	988	957	906	813	851	722	779	966	1307	1327	1598	1574	1127	1051
4	**Other Resources**	16956	17896	18080	17751	17564	17510	17002	17024	16509	17314	15947	13554	15683	18031	16896
5	Cogeneration Resources	2749	2749	2759	2725	2772	2854	2813	2818	2032	2646	2220	2285	2445	2714	2615
6	Combustion Turbine Resources	5778	5785	6211	6268	6383	6436	6441	6398	6353	6323	6316	4207	4565	6157	5957
7	Large Thermal Resources	6400	6400	6400	6400	6400	6400	6400	6400	5955	5304	5002	4288	5175	6234	5966
8	Renewable Resources	1664	2599	2420	2146	1838	1656	1191	1246	1975	2724	2082	2320	3015	2460	2071
9	Small Hydro	334	332	253	174	134	126	119	125	157	284	293	416	449	430	251
10	Small Thermal & Miscellaneous	30.3	30.4	35.9	37.6	36.5	38.1	37.9	36.3	37.9	33.8	33.6	37.7	33.2	35.3	35.9
11	**Imports**	688	688	669	702	790	905	805	781	873	580	579	609	747	805	746
12	Canada	25.8	25.8	64.0	133	37.5	53.1	66.4	72.6	274	38.7	38.5	27.5	36.5	21.5	71.2
13	East of Continental Divide	143	143	132	130	138	146	151	144	143	129	128	129	137	151	139
14	Inland Southwest	520	519	473	439	433	467	439	453	426	406	406	453	574	633	476
15	Pacific Southwest	0	0	0	0	182	239	149	111	30.0	6.20	6.20	0	0	0	59.5

Loads and Resources - Pacific Northwest Region

Operating Year: 2017 Water Year: 1937

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
16	Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	**Reserves & Losses**	-831	-809	-796	-789	-862	-869	-829	-776	-785	-830	-771	-848	-875	-897	-829
18	Contingency Reserves (Non-Spinning)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	Contingency Reserves (Spinning)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	Generation Imbalance Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	Load Following Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	Transmission Losses	-831	-809	-796	-789	-862	-869	-829	-776	-785	-830	-771	-848	-875	-897	-829
23	**Total Resources**	**28624**	**27886**	**27424**	**27177**	**29701**	**29933**	**28562**	**26739**	**27055**	**28606**	**26553**	**29221**	**30153**	**30906**	**28571**
24	**Total Surplus/Deficit**	**4100**	**3114**	**4465**	**5320**	**5520**	**3451**	**2101**	**1505**	**3538**	**5749**	**4054**	**7369**	**6174**	**5468**	**4466**

Loads and Resources - Pacific Northwest Region

Operating Year: 2018 Water Year: 1937

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Firm Loads															
1	**Regional Firm Loads**	23242	23264	21590	20782	23223	25462	25669	24458	22463	21389	21543	20839	22585	24076	22985
2	Federal Agency	120	120	111	118	144	166	164	156	143	131	131	118	112	120	134
3	USBR	301	299	252	104	30.1	29.2	27.1	25.2	65.8	256	244	327	340	402	180
4	Cooperative	2107	2109	1879	1772	2019	2318	2266	2174	1932	1880	1896	1905	2040	2235	2044
5	Municipality	2527	2529	2483	2619	3067	3223	3284	3171	2832	2690	2717	2497	2483	2529	2783
6	Public Utility District	4240	4243	4066	4188	4877	5321	5252	5007	4468	4269	4303	4040	4103	4284	4509
7	Investor-Owned Utility	13025	13042	11928	11094	12163	13456	13722	12978	12083	11234	11319	11021	12569	13554	12406
8	Marketer	386	386	334	351	384	412	417	410	402	394	395	395	403	415	392
9	Direct-Service Industry	537	537	538	536	538	536	536	538	537	537	538	537	536	537	537
10	**Exports**	1647	1873	1667	1327	1226	1325	1079	1037	1257	1495	1357	1264	1659	1654	1392
11	Canada	662	667	533	469	469	640	516	469	469	451	488	469	469	498	512
12	East Continental Divide	9.15	9.16	7.12	7.25	8.19	9.85	10.0	9.73	8.21	7.21	7.25	7.06	7.61	9.94	8.45
13	Inland Southwest	22.6	18.6	11.6	18.8	11.6	15.8	13.7	11.9	8.09	8.80	14.1	20.7	15.4	17.2	14.8
14	Pacific Southwest	953	1179	1115	832	736	660	540	546	771	1029	848	766	1166	1128	857
15	Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	**Federal Diversity**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	**Total Firm Loads**	**24889**	**25137**	**23257**	**22109**	**24449**	**26787**	**26748**	**25495**	**23720**	**22885**	**22900**	**22102**	**24244**	**25730**	**24378**
	Non-Firm Loads															
1	**Regional Non-Firm Loads**	0	0	14.3	0	0	0	3.50	23.0	54.4	33.8	33.8	0	0	0	10.6
2	Federal Agency	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	USBR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	Cooperative	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	Municipality	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	Public Utility District	0	0	14.3	0	0	0	3.50	23.0	54.4	33.8	33.8	0	0	0	10.6
7	Investor-Owned Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	Direct-Service Industry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	Marketer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	**Total Non-Firm Loads**	**0**	**0**	**14.3**	**0**	**0**	**0**	**3.50**	**23.0**	**54.4**	**33.8**	**33.8**	**0**	**0**	**0**	**10.6**
	Resources															
1	**Hydro**	11810	10111	9472	9513	12209	12386	11583	9710	10458	11542	10797	15910	14599	12967	11758
2	Regulated Hydro - Net	10819	9123	8515	8606	11396	11535	10861	8930	9492	10235	9471	14313	13025	11840	10707
3	Independent Hydro - Net	991	988	957	906	813	851	722	779	966	1307	1327	1598	1574	1127	1051
4	**Other Resources**	17330	18270	18080	17751	17602	17510	17000	17025	16886	18233	16977	14075	16721	18230	17190
5	Cogeneration Resources	2749	2749	2759	2725	2810	2854	2811	2819	2030	2639	2220	2233	2486	2747	2619
6	Combustion Turbine Resources	6152	6159	6211	6268	6383	6436	6441	6398	6353	6323	6316	4207	4565	6157	5989
7	Large Thermal Resources	6400	6400	6400	6400	6400	6400	6400	6400	6333	6229	6033	4854	6207	6400	6225
8	Renewable Resources	1664	2599	2420	2146	1838	1656	1191	1246	1975	2724	2082	2328	2980	2460	2069
9	Small Hydro	334	332	253	174	134	126	119	125	157	284	293	416	449	430	251
10	Small Thermal & Miscellaneous	30.3	30.4	35.9	37.6	36.5	38.1	37.9	36.3	37.9	33.8	33.6	37.7	33.2	35.3	35.9
11	**Imports**	695	695	681	698	793	909	809	784	884	574	576	613	755	813	751
12	Canada	25.8	25.8	72.0	126	37.5	53.1	66.4	72.6	282	30.6	30.6	27.5	36.5	21.5	71.2
13	East of Continental Divide	144	144	133	131	139	147	152	145	144	129	130	130	138	152	140
14	Inland Southwest	525	525	476	442	435	469	441	455	429	408	409	456	580	640	480
15	Pacific Southwest	0	0	0	0	182	239	149	111	30.0	6.20	6.20	0	0	0	59.5

Loads and Resources - Pacific Northwest Region

Operating Year: 2018 Water Year: 1937

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
16	Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	**Reserves & Losses**	-841	-820	-796	-789	-863	-869	-829	-776	-796	-856	-799	-863	-904	-903	-838
18	Contingency Reserves (Non-Spinning)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	Contingency Reserves (Spinning)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	Generation Imbalance Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	Load Following Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	Transmission Losses	-841	-820	-796	-789	-863	-869	-829	-776	-796	-856	-799	-863	-904	-903	-838
23	**Total Resources**	**28994**	**28256**	**27436**	**27173**	**29741**	**29937**	**28563**	**26742**	**27432**	**29493**	**27551**	**29736**	**31170**	**31107**	**28861**
24	**Total Surplus/Deficit**	**4105**	**3119**	**4164**	**5064**	**5292**	**3150**	**1811**	**1224**	**3658**	**6575**	**4617**	**7634**	**6926**	**5376**	**4473**

Loads and Resources - Pacific Northwest Region

Operating Year: 2019 Water Year: 1937

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Firm Loads															
1	**Regional Firm Loads**	23574	23597	21874	21032	23491	25754	25988	24768	22750	21740	21740	21108	22900	24415	23280
2	Federal Agency	121	121	112	119	146	167	193	183	166	151	151	136	130	139	147
3	USBR	301	299	252	104	30.1	29.2	27.1	25.2	65.8	250	250	327	340	402	180
4	Cooperative	2150	2152	1921	1813	2064	2367	2313	2222	1975	1931	1931	1948	2082	2279	2089
5	Municipality	2540	2543	2496	2634	3082	3239	3298	3187	2846	2718	2718	2511	2497	2544	2797
6	Public Utility District	4280	4283	4104	4225	4918	5365	5295	5050	4506	4324	4324	4077	4142	4324	4549
7	Investor-Owned Utility	13258	13275	12116	11248	12327	13637	13907	13153	12250	11433	11433	11177	12769	13774	12588
8	Marketer	387	387	335	352	386	414	418	411	403	396	396	396	405	416	393
9	Direct-Service Industry	537	537	538	536	538	536	536	538	537	537	537	537	536	537	537
10	**Exports**	1626	1852	1628	1306	1220	1328	1065	1037	1255	1504	1332	1252	1652	1637	1380
11	Canada	661	665	524	464	464	642	503	464	464	464	464	464	464	493	507
12	East Continental Divide	9.15	9.16	7.11	7.25	8.19	9.85	10.0	9.73	8.21	7.23	7.23	7.06	7.61	9.94	8.45
13	Inland Southwest	22.6	18.6	11.6	18.8	11.6	15.8	13.7	11.9	8.09	8.80	14.1	20.7	15.4	17.2	14.8
14	Pacific Southwest	934	1159	1086	816	737	660	538	551	775	1024	846	760	1165	1117	850
15	Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	**Federal Diversity**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	**Total Firm Loads**	**25201**	**25449**	**23502**	**22338**	**24711**	**27082**	**27053**	**25805**	**24005**	**23244**	**23072**	**22360**	**24552**	**26052**	**24660**
	Non-Firm Loads															
1	**Regional Non-Firm Loads**	0	0	14.3	0	0	0	3.50	23.0	54.4	33.8	33.8	0	0	0	10.6
2	Federal Agency	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	USBR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	Cooperative	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	Municipality	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	Public Utility District	0	0	14.3	0	0	0	3.50	23.0	54.4	33.8	33.8	0	0	0	10.6
7	Investor-Owned Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	Direct-Service Industry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	Marketer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	**Total Non-Firm Loads**	**0**	**0**	**14.3**	**0**	**0**	**0**	**3.50**	**23.0**	**54.4**	**33.8**	**33.8**	**0**	**0**	**0**	**10.6**
	Resources															
1	**Hydro**	11810	10111	9472	9513	12209	12386	11583	9710	10457	11542	10798	15904	14595	12966	11757
2	Regulated Hydro - Net	10819	9123	8515	8606	11396	11535	10861	8930	9491	10235	9471	14306	13022	11840	10706
3	Independent Hydro - Net	991	988	957	906	813	851	722	779	966	1307	1327	1598	1574	1127	1051
4	**Other Resources**	17248	18269	18042	17757	17601	17510	17000	17027	16814	17158	16275	13352	15841	18127	16962
5	Cogeneration Resources	2748	2748	2721	2731	2809	2853	2810	2818	2149	2272	2220	2188	2432	2746	2603
6	Combustion Turbine Resources	6071	6159	6211	6268	6383	6436	6441	6398	6353	6323	6316	4207	4565	6157	5986
7	Large Thermal Resources	6400	6400	6400	6400	6400	6400	6400	6400	6139	5528	5332	4179	5386	6300	6018
8	Renewable Resources	1664	2599	2420	2146	1838	1656	1191	1246	1975	2724	2082	2327	2992	2460	2070
9	Small Hydro	334	332	253	174	134	127	119	129	160	277	291	414	433	429	250
10	Small Thermal & Miscellaneous	30.3	30.4	35.9	37.6	36.5	38.1	37.9	36.3	37.9	33.8	33.6	37.7	33.2	35.3	35.9
11	**Imports**	702	702	693	695	773	883	783	758	858	573	573	617	762	821	743
12	Canada	25.8	25.8	80.0	118	37.5	53.1	66.4	72.6	282	30.6	30.6	27.5	36.5	21.5	71.2
13	East of Continental Divide	145	145	134	132	140	149	153	146	145	131	131	131	140	153	142
14	Inland Southwest	531	531	479	445	438	472	444	458	432	411	411	459	586	647	484
15	Pacific Southwest	0	0	0	0	158	209	119	81.0	0	0	0	0	0	0	47.1

Loads and Resources - Pacific Northwest Region

Operating Year: 2019 Water Year: 1937

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
16	Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	**Reserves & Losses**	-839	-820	-795	-789	-862	-868	-828	-775	-793	-825	-780	-842	-880	-900	-831
18	Contingency Reserves (Non-Spinning)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	Contingency Reserves (Spinning)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	Generation Imbalance Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	Load Following Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	Transmission Losses	-839	-820	-795	-789	-862	-868	-828	-775	-793	-825	-780	-842	-880	-900	-831
23	**Total Resources**	**28922**	**28262**	**27411**	**27175**	**29721**	**29911**	**28538**	**26719**	**27336**	**28448**	**26865**	**29031**	**30319**	**31015**	**28632**
24	**Total Surplus/Deficit**	**3721**	**2813**	**3894**	**4838**	**5010**	**2829**	**1481**	**891**	**3277**	**5169**	**3759**	**6671**	**5767**	**4963**	**3961**

Loads and Resources - Pacific Northwest Region

Operating Year: 2020 Water Year: 1937

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Firm Loads															
1	**Regional Firm Loads**	23911	23933	22162	21300	23782	26082	26291	24871	23022	22000	22000	21366	23205	24745	23564
2	Federal Agency	139	139	130	138	171	198	205	189	176	159	159	143	137	146	161
3	USBR	301	299	252	104	30.1	29.2	27.1	25.2	65.8	250	250	327	340	402	180
4	Cooperative	2194	2196	1963	1855	2110	2418	2361	2209	2019	1975	1975	1991	2127	2326	2130
5	Municipality	2555	2558	2511	2647	3097	3253	3313	3164	2860	2731	2731	2524	2511	2557	2809
6	Public Utility District	4320	4323	4142	4263	4959	5409	5334	5000	4540	4358	4358	4110	4177	4360	4581
7	Investor-Owned Utility	13476	13493	12290	11404	12490	13825	14096	13334	12420	11592	11592	11336	12972	13998	12772
8	Marketer	388	388	336	353	387	415	420	412	405	397	397	397	406	418	394
9	Direct-Service Industry	537	537	538	536	538	536	536	538	537	537	537	537	536	537	537
10	**Exports**	1625	1838	1611	1295	1211	1325	1052	1020	1250	1499	1326	1247	1646	1632	1371
11	Canada	660	664	515	459	459	645	490	459	459	459	459	459	459	488	502
12	East Continental Divide	9.15	9.16	7.11	7.25	8.19	9.85	10.0	9.73	8.21	7.23	7.23	7.06	7.61	9.94	8.45
13	Inland Southwest	22.6	18.6	11.6	18.8	11.6	15.8	13.7	11.9	8.09	8.80	14.1	20.7	15.4	17.2	14.8
14	Pacific Southwest	934	1147	1077	810	732	655	538	539	774	1024	846	760	1164	1117	846
15	Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	**Federal Diversity**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	**Total Firm Loads**	**25535**	**25772**	**23772**	**22595**	**24993**	**27407**	**27343**	**25891**	**24271**	**23499**	**23327**	**22612**	**24851**	**26377**	**24934**
	Non-Firm Loads															
1	**Regional Non-Firm Loads**	0	0	14.3	0	0	0	3.50	23.8	54.4	33.8	33.8	0	0	0	10.7
2	Federal Agency	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	USBR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	Cooperative	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	Municipality	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	Public Utility District	0	0	14.3	0	0	0	3.50	23.8	54.4	33.8	33.8	0	0	0	10.7
7	Investor-Owned Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	Direct-Service Industry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	Marketer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	**Total Non-Firm Loads**	**0**	**0**	**14.3**	**0**	**0**	**0**	**3.50**	**23.8**	**54.4**	**33.8**	**33.8**	**0**	**0**	**0**	**10.7**
	Resources															
1	**Hydro**	11810	10111	9472	9513	12209	12386	11583	9710	10458	11540	10796	15895	14594	12967	11751
2	Regulated Hydro - Net	10819	9123	8515	8606	11396	11535	10861	8930	9492	10233	9470	14297	13021	11840	10700
3	Independent Hydro - Net	991	988	957	906	813	851	722	779	966	1307	1327	1598	1574	1127	1050
4	**Other Resources**	17249	18269	18076	17749	17563	17511	17002	17025	16856	17486	16224	13769	16726	18197	17090
5	Cogeneration Resources	2749	2749	2759	2725	2772	2854	2813	2819	2032	2646	2220	2275	2476	2714	2617
6	Combustion Turbine Resources	6071	6159	6211	6268	6383	6436	6441	6398	6353	6323	6316	4207	4565	6157	5987
7	Large Thermal Resources	6400	6400	6400	6400	6400	6400	6400	6400	6301	5476	5279	4495	6205	6400	6131
8	Renewable Resources	1664	2599	2420	2146	1838	1656	1191	1246	1975	2724	2082	2338	2997	2460	2069
9	Small Hydro	334	331	249	172	133	127	119	125	157	284	293	416	449	430	250
10	Small Thermal & Miscellaneous	30.3	30.4	35.9	37.6	36.5	38.1	37.9	36.3	37.9	33.8	33.6	37.7	33.2	35.3	35.9
11	**Imports**	709	709	705	691	776	887	786	767	862	576	576	621	770	829	749
12	Canada	25.8	25.8	88.0	110	37.5	53.1	66.4	72.6	282	30.6	30.6	27.5	36.5	21.5	71.2
13	East of Continental Divide	146	147	135	133	141	150	155	153	146	132	132	132	141	154	143
14	Inland Southwest	536	536	482	448	440	474	446	461	434	414	414	462	592	654	487
15	Pacific Southwest	0	0	0	0	158	209	119	81.0	0	0	0	0	0	0	47.2

Loads and Resources - Pacific Northwest Region

Operating Year: 2020 Water Year: 1937

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
16	Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	**Reserves & Losses**	-839	-820	-797	-788	-861	-868	-828	-776	-795	-835	-778	-854	-905	-902	-834
18	Contingency Reserves (Non-Spinning)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	Contingency Reserves (Spinning)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	Generation Imbalance Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	Load Following Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	Transmission Losses	-839	-820	-797	-788	-861	-868	-828	-776	-795	-835	-778	-854	-905	-902	-834
23	**Total Resources**	**28929**	**28267**	**27455**	**27164**	**29687**	**29916**	**28543**	**26725**	**27381**	**28767**	**26818**	**29431**	**31185**	**31091**	**28755**
24	**Total Surplus/Deficit**	**3394**	**2496**	**3669**	**4568**	**4695**	**2508**	**1197**	**811**	**3055**	**5234**	**3458**	**6818**	**6334**	**4714**	**3810**

Loads and Resources - Pacific Northwest Region

Operating Year: 2021 Water Year: 1937

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Firm Loads															
1	**Regional Firm Loads**	24336	24162	22441	21557	24057	26386	26589	25350	23291	22259	22259	21625	23511	25056	23861
2	Federal Agency	148	147	137	145	181	211	205	194	176	160	160	143	137	147	165
3	USBR	295	304	252	104	30.1	29.2	27.1	25.2	65.8	250	250	327	340	402	180
4	Cooperative	2250	2233	2007	1897	2155	2468	2406	2318	2061	2019	2019	2035	2173	2354	2178
5	Municipality	2582	2559	2525	2661	3111	3268	3327	3216	2873	2744	2744	2537	2524	2571	2825
6	Public Utility District	4373	4344	4177	4296	4996	5448	5378	5133	4580	4398	4398	4149	4217	4403	4626
7	Investor-Owned Utility	13761	13651	12469	11563	12658	14010	14288	13513	12592	11753	11753	11498	13176	14223	12954
8	Marketer	390	389	337	354	388	416	421	414	406	398	398	398	407	419	396
9	Direct-Service Industry	538	537	538	536	538	536	536	538	537	537	537	537	536	537	537
10	**Exports**	1645	1825	1598	1290	1206	1335	1031	1015	1245	1494	1321	1242	1641	1627	1366
11	Canada	680	650	502	454	454	655	469	454	454	454	454	454	454	483	497
12	East Continental Divide	9.20	9.11	7.12	7.25	8.19	9.85	10.0	9.73	8.21	7.23	7.23	7.06	7.61	9.94	8.45
13	Inland Southwest	22.6	18.6	11.6	18.8	11.6	15.8	13.7	11.9	8.09	8.80	14.1	20.7	15.4	17.2	14.8
14	Pacific Southwest	934	1147	1077	810	732	655	538	539	774	1024	846	760	1164	1117	847
15	Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	**Federal Diversity**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	**Total Firm Loads**	**25981**	**25988**	**24039**	**22847**	**25263**	**27721**	**27619**	**26365**	**24536**	**23753**	**23581**	**22867**	**25152**	**26683**	**25227**
	Non-Firm Loads															
1	**Regional Non-Firm Loads**	0	0	14.3	0	0	0	3.50	23.8	54.4	33.8	33.8	0	0	0	10.7
2	Federal Agency	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	USBR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	Cooperative	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	Municipality	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	Public Utility District	0	0	14.3	0	0	0	3.50	23.8	54.4	33.8	33.8	0	0	0	10.7
7	Investor-Owned Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	Direct-Service Industry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	Marketer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	**Total Non-Firm Loads**	**0**	**0**	**14.3**	**0**	**0**	**0**	**3.50**	**23.8**	**54.4**	**33.8**	**33.8**	**0**	**0**	**0**	**10.7**
	Resources															
1	**Hydro**	11810	10111	9472	9513	12209	12386	11583	9710	10458	11542	10798	15895	14597	12967	11757
2	Regulated Hydro - Net	10819	9123	8515	8606	11396	11535	10861	8930	9492	10235	9471	14297	13023	11840	10706
3	Independent Hydro - Net	991	988	957	906	813	851	722	779	966	1307	1327	1598	1574	1127	1051
4	**Other Resources**	17330	18270	18079	17751	17602	17510	16466	16491	16157	17754	16498	13882	15168	17463	16793
5	Cogeneration Resources	2749	2749	2759	2725	2810	2854	2811	2819	2030	2639	2220	2273	2486	2747	2623
6	Combustion Turbine Resources	6152	6159	6211	6268	6383	6436	6441	6398	6353	6323	6316	4207	4565	6157	5989
7	Large Thermal Resources	6400	6400	6400	6400	6400	6400	5867	5867	5605	5750	5553	4611	4644	5634	5824
8	Renewable Resources	1664	2599	2420	2146	1838	1656	1191	1246	1975	2724	2082	2338	2992	2460	2071
9	Small Hydro	334	332	253	174	134	126	119	125	157	284	293	416	449	430	251
10	Small Thermal & Miscellaneous	30.3	30.4	35.9	37.6	36.5	38.1	37.9	36.3	37.9	33.8	33.6	37.7	33.2	35.3	35.9
11	**Imports**	716	715	725	679	780	890	790	765	843	604	604	625	777	838	753
12	Canada	25.8	25.8	104	94.7	37.5	53.1	66.4	72.6	259	54.6	54.6	27.5	36.5	21.5	71.2
13	East of Continental Divide	148	147	136	134	142	151	156	149	147	133	133	133	142	156	144
14	Inland Southwest	542	542	485	451	442	477	449	463	437	417	417	465	598	661	491
15	Pacific Southwest	0	0	0	0	158	209	119	81.0	0	0	0	0	0	0	47.1

Loads and Resources - Pacific Northwest Region

Operating Year: 2021 Water Year: 1937

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
16	Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	**Reserves & Losses**	-842	-821	-797	-788	-863	-868	-813	-760	-774	-843	-787	-857	-861	-882	-826
18	Contingency Reserves (Non-Spinning)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	Contingency Reserves (Spinning)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	Generation Imbalance Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	Load Following Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	Transmission Losses	-842	-821	-797	-788	-863	-868	-813	-760	-774	-843	-787	-857	-861	-882	-826
23	**Total Resources**	**29015**	**28275**	**27479**	**27155**	**29729**	**29919**	**28026**	**26205**	**26684**	**29057**	**27113**	**29545**	**29681**	**30385**	**28476**
24	**Total Surplus/Deficit**	**3033**	**2288**	**3426**	**4308**	**4466**	**2198**	**403**	**-183**	**2094**	**5270**	**3499**	**6678**	**4529**	**3702**	**3239**

Loads and Resources - Pacific Northwest Region

Operating Year: 2022 Water Year: 1937

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Firm Loads															
1	**Regional Firm Loads**	24445	24689	22718	21807	24321	26679	26882	25637	23560	22514	22514	21881	23814	25388	24144
2	Federal Agency	147	148	137	146	182	211	206	195	177	160	160	144	138	147	166
3	USBR	307	293	252	104	30.1	29.2	27.1	25.2	65.8	250	250	327	340	402	180
4	Cooperative	2255	2280	2033	1921	2182	2500	2435	2346	2087	2044	2044	2060	2199	2382	2205
5	Municipality	2567	2599	2538	2674	3124	3283	3341	3232	2886	2757	2757	2550	2538	2584	2839
6	Public Utility District	4395	4436	4233	4349	5051	5509	5437	5193	4636	4452	4452	4203	4273	4462	4682
7	Investor-Owned Utility	13848	14003	12650	11722	12825	14194	14477	13693	12766	11914	11914	11661	13382	14453	13139
8	Marketer	390	391	338	355	389	417	422	415	407	399	399	399	408	420	397
9	Direct-Service Industry	537	538	538	536	538	536	536	538	537	537	537	537	536	537	537
10	**Exports**	1562	1811	1543	1244	1153	1288	967	960	1198	1447	1274	1201	1593	1574	1316
11	Canada	643	683	493	449	449	658	457	449	449	449	449	449	449	478	492
12	East Continental Divide	9.09	9.21	7.12	7.25	8.19	9.85	10.0	9.73	8.21	7.23	7.23	7.06	7.61	9.94	8.45
13	Inland Southwest	22.6	18.6	11.6	18.8	11.6	15.8	13.7	11.9	8.09	8.80	14.1	20.7	15.4	17.2	14.8
14	Pacific Southwest	887	1100	1031	768	684	604	487	489	733	982	804	724	1121	1068	801
15	Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	**Federal Diversity**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	**Total Firm Loads**	**26007**	**26500**	**24261**	**23050**	**25474**	**27967**	**27849**	**26597**	**24759**	**23961**	**23789**	**23082**	**25407**	**26962**	**25461**
	Non-Firm Loads															
1	**Regional Non-Firm Loads**	0	0	14.3	0	0	0	3.50	23.8	54.4	33.8	33.8	0	0	0	10.7
2	Federal Agency	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	USBR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	Cooperative	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	Municipality	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	Public Utility District	0	0	14.3	0	0	0	3.50	23.8	54.4	33.8	33.8	0	0	0	10.7
7	Investor-Owned Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	Direct-Service Industry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	Marketer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	**Total Non-Firm Loads**	**0**	**0**	**14.3**	**0**	**0**	**0**	**3.50**	**23.8**	**54.4**	**33.8**	**33.8**	**0**	**0**	**0**	**10.7**
	Resources															
1	**Hydro**	11810	10111	9472	9513	12209	12386	11583	9710	10458	11542	10798	15917	14599	12967	11759
2	Regulated Hydro - Net	10819	9123	8515	8606	11396	11535	10861	8930	9492	10235	9471	14320	13025	11840	10708
3	Independent Hydro - Net	991	988	957	906	813	851	722	779	966	1307	1327	1598	1574	1127	1051
4	**Other Resources**	16796	17736	17508	17223	17068	16976	16466	16490	16411	15756	14868	14433	16353	17695	16603
5	Cogeneration Resources	2748	2748	2721	2731	2809	2853	2810	2818	2149	2272	2220	2185	2432	2746	2603
6	Combustion Turbine Resources	6152	6159	6211	6268	6383	6436	6441	6398	6353	6323	6316	4207	4565	6157	5989
7	Large Thermal Resources	5867	5867	5867	5867	5867	5867	5867	5867	5739	4119	3923	5261	5882	5867	5654
8	Renewable Resources	1664	2599	2420	2146	1838	1656	1191	1246	1975	2724	2082	2327	2992	2460	2070
9	Small Hydro	334	332	253	174	134	126	119	125	157	284	293	416	449	430	251
10	Small Thermal & Miscellaneous	30.3	30.4	35.9	37.6	36.5	38.1	37.9	36.3	37.9	33.8	33.6	37.7	33.2	35.3	35.9
11	**Imports**	722	723	737	676	784	894	794	769	855	600	600	629	784	846	758
12	Canada	25.8	25.8	112	86.9	37.5	53.1	66.4	72.6	266	46.6	46.6	27.5	36.5	21.5	71.2
13	East of Continental Divide	148	149	138	135	144	152	157	150	149	134	134	134	143	157	145
14	Inland Southwest	548	548	488	454	445	480	451	466	440	419	419	468	605	667	494
15	Pacific Southwest	0	0	0	0	158	209	119	81.0	0	0	0	0	0	0	47.1

Loads and Resources - Pacific Northwest Region

Operating Year: 2022 Water Year: 1937

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
16	Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	**Reserves & Losses**	-827	-806	-782	-773	-848	-853	-813	-761	-782	-787	-741	-874	-895	-889	-821
18	Contingency Reserves (Non-Spinning)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	Contingency Reserves (Spinning)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	Generation Imbalance Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	Load Following Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	Transmission Losses	-827	-806	-782	-773	-848	-853	-813	-761	-782	-787	-741	-874	-895	-889	-821
23	**Total Resources**	**28501**	**27764**	**26936**	**26639**	**29213**	**29403**	**28029**	**26208**	**26941**	**27112**	**25525**	**30106**	**30841**	**30619**	**28298**
24	**Total Surplus/Deficit**	**2494**	**1264**	**2660**	**3588**	**3739**	**1436**	**177**	**-412**	**2128**	**3116**	**1702**	**7024**	**5435**	**3657**	**2827**

Loads and Resources - Pacific Northwest Region

Operating Year: 2023 Water Year: 1937

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Firm Loads															
1	**Regional Firm Loads**	24869	24892	22983	22046	24577	26958	27168	25910	23818	22841	22678	22130	24107	25711	24417
2	Federal Agency	148	148	137	146	182	212	207	195	177	161	160	144	138	148	166
3	USBR	301	299	252	104	30.1	29.2	27.1	25.2	65.8	244	256	327	340	402	180
4	Cooperative	2295	2296	2058	1945	2208	2532	2464	2374	2112	2078	2061	2086	2225	2411	2232
5	Municipality	2595	2598	2551	2687	3139	3296	3357	3247	2899	2785	2757	2563	2551	2598	2852
6	Public Utility District	4459	4462	4276	4392	5098	5558	5487	5243	4680	4514	4479	4246	4319	4508	4728
7	Investor-Owned Utility	14142	14160	12832	11880	12992	14377	14667	13872	12938	12121	12029	11827	13589	14685	13324
8	Marketer	392	392	339	356	390	419	424	416	408	401	400	400	409	421	398
9	Direct-Service Industry	537	537	538	536	538	536	536	538	537	538	537	537	536	537	537
10	**Exports**	1553	1766	1563	1239	1148	1219	988	942	1158	1413	1207	1150	1529	1519	1287
11	Canada	634	638	513	445	445	607	499	445	445	462	427	445	445	474	487
12	East Continental Divide	9.15	9.16	7.12	7.25	8.19	9.85	10.0	9.73	8.21	7.25	7.21	7.06	7.61	9.94	8.45
13	Inland Southwest	22.6	18.6	11.6	18.8	11.6	15.8	13.7	11.9	8.09	8.80	14.1	20.7	15.4	17.2	14.8
14	Pacific Southwest	887	1100	1031	768	684	587	466	476	697	935	759	678	1061	1019	777
15	Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	**Federal Diversity**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	**Total Firm Loads**	**26421**	**26659**	**24545**	**23285**	**25725**	**28178**	**28156**	**26852**	**24976**	**24254**	**23885**	**23281**	**25635**	**27230**	**25705**
	Non-Firm Loads															
1	**Regional Non-Firm Loads**	0	0	14.3	0	0	0	3.50	23.8	54.4	33.9	33.7	0	0	0	10.7
2	Federal Agency	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	USBR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	Cooperative	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	Municipality	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	Public Utility District	0	0	14.3	0	0	0	3.50	23.8	54.4	33.9	33.7	0	0	0	10.7
7	Investor-Owned Utility	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	Direct-Service Industry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	Marketer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	**Total Non-Firm Loads**	**0**	**0**	**14.3**	**0**	**0**	**0**	**3.50**	**23.8**	**54.4**	**33.9**	**33.7**	**0**	**0**	**0**	**10.7**
	Resources															
1	**Hydro**	11810	10111	9472	9513	12209	12386	11583	9710	10458	11542	10798	15917	14599	12967	11759
2	Regulated Hydro - Net	10819	9123	8515	8606	11396	11535	10861	8930	9492	10235	9471	14320	13025	11840	10708
3	Independent Hydro - Net	991	988	957	906	813	851	722	779	966	1307	1327	1598	1574	1127	1051
4	**Other Resources**	16797	17737	17546	17217	17031	16977	16469	16491	16099	16650	15389	13844	15187	17497	16472
5	Cogeneration Resources	2749	2749	2759	2725	2772	2854	2813	2818	2032	2646	2220	2241	2506	2714	2616
6	Combustion Turbine Resources	6152	6159	6211	6268	6383	6436	6441	6398	6353	6323	6316	4207	4565	6157	5989
7	Large Thermal Resources	5867	5867	5867	5867	5867	5867	5867	5867	5544	4640	4444	4616	4642	5701	5510
8	Renewable Resources	1664	2599	2420	2146	1838	1656	1191	1246	1975	2724	2082	2327	2992	2460	2070
9	Small Hydro	334	332	253	174	134	126	119	125	157	284	293	416	449	430	251
10	Small Thermal & Miscellaneous	30.3	30.4	35.9	37.6	36.5	38.1	37.9	36.3	37.9	33.8	33.6	37.7	33.2	35.3	35.9
11	**Imports**	730	729	694	726	787	898	798	773	867	597	595	634	791	854	763
12	Canada	25.8	25.8	64.0	133	37.5	53.1	66.4	72.6	274	38.7	38.5	27.5	36.5	21.5	71.2
13	East of Continental Divide	150	150	139	136	145	154	159	151	150	136	135	135	144	158	146
14	Inland Southwest	554	554	491	457	447	483	453	468	443	422	422	471	611	674	498
15	Pacific Southwest	0	0	0	0	158	209	119	81.0	0	0	0	0	0	0	47.1

Loads and Resources - Pacific Northwest Region

Operating Year: 2023 Water Year: 1937

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
16	Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	**Reserves & Losses**	-827	-806	-781	-774	-847	-853	-814	-761	-773	-812	-755	-857	-862	-883	-818
18	Contingency Reserves (Non-Spinning)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	Contingency Reserves (Spinning)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	Generation Imbalance Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	Load Following Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	Transmission Losses	-827	-806	-781	-774	-847	-853	-814	-761	-773	-812	-755	-857	-862	-883	-818
23	**Total Resources**	**28509**	**27771**	**26930**	**26681**	**29180**	**29408**	**28036**	**26213**	**26650**	**27978**	**26027**	**29538**	**29715**	**30435**	**28175**
24	**Total Surplus/Deficit**	**2088**	**1112**	**2370**	**3397**	**3455**	**1230**	**-124**	**-663**	**1620**	**3690**	**2108**	**6258**	**4079**	**3205**	**2460**

THIS PAGE INTENTIONALLY LEFT BLANK

Exhibit 21
Table A-1: Regional Total Retail Loads

Monthly Energy
Operating Year 2014 to 2023
Using 1937-Water Conditions

Table A-1: Regional: Total Retail Loads

Operating Year 2014

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Firm Loads																
1	Federal Agency	112	112	104	111	134	153	154	147	135	124	124	112	106	114	126
2	USBR	301	299	252	104	30.1	29.2	27.1	25.2	65.8	250	250	327	340	402	180
3	Cooperative	1675	1676	1499	1595	1836	2122	2091	1996	1770	1727	1727	1742	1866	2058	1831
4	Municipality	2460	2462	2399	2572	2976	3202	3211	3107	2832	2661	2661	2456	2422	2467	2729
5	Public Utility District	3866	3868	3736	4022	4596	5136	5091	4829	4343	4112	4112	3862	3892	4080	4295
6	Investor-Owned Utility	11788	11803	10871	10179	11203	12394	12630	11971	11184	10443	10443	10178	11544	12428	11401
7	Marketer	380	380	328	345	378	406	411	404	396	389	389	389	398	409	386
8	Direct-Service Industry	450	450	450	449	451	448	449	450	450	450	450	449	448	450	450
9	**Total Firm Loads**	**21030**	**21050**	**19640**	**19377**	**21604**	**23891**	**24065**	**22930**	**21175**	**20156**	**20156**	**19515**	**21016**	**22408**	**21398**
Non-Firm Loads																
10	Public Utility District	0	0	14.3	0	0	0	3.50	23.0	54.4	33.8	33.8	0	0	0	10.6
11	**Total Non-Firm Loads**	**0**	**0**	**14.3**	**0**	**0**	**0**	**3.50**	**23.0**	**54.4**	**33.8**	**33.8**	**0**	**0**	**0**	**10.6**
Total Regional Loads (Firm+Non-Firm)																
12	Federal Agency	112	112	104	111	134	153	154	147	135	124	124	112	106	114	126
13	USBR	301	299	252	104	30.1	29.2	27.1	25.2	65.8	250	250	327	340	402	180
14	Cooperative	1675	1676	1499	1595	1836	2122	2091	1996	1770	1727	1727	1742	1866	2058	1831
15	Municipality	2460	2462	2399	2572	2976	3202	3211	3107	2832	2661	2661	2456	2422	2467	2729
16	Public Utility District	3866	3868	3751	4022	4596	5136	5095	4852	4397	4145	4145	3862	3892	4080	4306
17	Investor-Owned Utility	11788	11803	10871	10179	11203	12394	12630	11971	11184	10443	10443	10178	11544	12428	11401
18	Marketer	380	380	328	345	378	406	411	404	396	389	389	389	398	409	386
19	Direct-Service Industry	450	450	450	449	451	448	449	450	450	450	450	449	448	450	450
20	**Total Loads**	**21030**	**21050**	**19655**	**19377**	**21604**	**23891**	**24068**	**22953**	**21229**	**20190**	**20190**	**19515**	**21016**	**22408**	**21408**

Table A-1: Regional: Total Retail Loads

Operating Year 2015

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Firm Loads																
1	Federal Agency	115	114	106	113	137	157	157	150	138	126	126	114	108	116	128
2	USBR	295	304	252	104	30.1	29.2	27.1	25.2	65.8	250	250	327	340	402	180
3	Cooperative	1986	1971	1759	1650	1891	2178	2134	2041	1810	1769	1769	1783	1907	2095	1916
4	Municipality	2491	2468	2428	2594	2998	3225	3218	3115	2837	2666	2666	2461	2425	2472	2741
5	Public Utility District	4091	4064	3924	4047	4649	5195	5136	4877	4422	4178	4178	3928	3961	4145	4376
6	Investor-Owned Utility	12242	12143	11220	10497	11528	12757	12998	12313	11463	10698	10698	10435	11848	12769	11726
7	Marketer	382	381	330	347	380	408	412	405	398	391	391	391	399	410	388
8	Direct-Service Industry	450	450	450	493	494	492	493	494	493	493	493	493	492	493	486
9	**Total Firm Loads**	**22052**	**21895**	**20468**	**19845**	**22108**	**24440**	**24576**	**23420**	**21628**	**20572**	**20572**	**19931**	**21481**	**22902**	**21942**
Non-Firm Loads																
10	Public Utility District	0	0	14.3	0	0	0	3.50	23.0	54.4	33.8	33.8	0	0	0	10.6
11	**Total Non-Firm Loads**	**0**	**0**	**14.3**	**0**	**0**	**0**	**3.50**	**23.0**	**54.4**	**33.8**	**33.8**	**0**	**0**	**0**	**10.6**
Total Regional Loads (Firm+Non-Firm)																
12	Federal Agency	115	114	106	113	137	157	157	150	138	126	126	114	108	116	128
13	USBR	295	304	252	104	30.1	29.2	27.1	25.2	65.8	250	250	327	340	402	180
14	Cooperative	1986	1971	1759	1650	1891	2178	2134	2041	1810	1769	1769	1783	1907	2095	1916
15	Municipality	2491	2468	2428	2594	2998	3225	3218	3115	2837	2666	2666	2461	2425	2472	2741
16	Public Utility District	4091	4064	3938	4047	4649	5195	5140	4900	4477	4212	4212	3928	3961	4145	4387
17	Investor-Owned Utility	12242	12143	11220	10497	11528	12757	12998	12313	11463	10698	10698	10435	11848	12769	11726
18	Marketer	382	381	330	347	380	408	412	405	398	391	391	391	399	410	388
19	Direct-Service Industry	450	450	450	493	494	492	493	494	493	493	493	493	492	493	486
20	**Total Loads**	**22052**	**21895**	**20482**	**19845**	**22108**	**24440**	**24580**	**23443**	**21682**	**20606**	**20606**	**19931**	**21481**	**22902**	**21952**

Table A-1: Regional: Total Retail Loads

Operating Year 2016

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Firm Loads																
1	Federal Agency	117	116	108	115	140	160	162	150	141	129	129	116	111	119	131
2	USBR	295	304	252	104	30.1	29.2	27.1	25.2	65.8	250	250	327	340	402	180
3	Cooperative	2023	2007	1794	1689	1933	2220	2179	2031	1853	1807	1807	1823	1952	2143	1954
4	Municipality	2495	2472	2432	2594	3000	3225	3231	3101	2848	2678	2678	2472	2438	2483	2748
5	Public Utility District	4147	4120	3949	4105	4790	5229	5161	4830	4383	4201	4201	3959	4025	4204	4414
6	Investor-Owned Utility	12548	12447	11484	10722	11764	13014	13266	12564	11701	10917	10917	10653	12113	13048	11980
7	Marketer	383	383	331	348	382	409	414	412	399	392	392	392	401	412	390
8	Direct-Service Industry	494	493	494	536	538	536	536	538	537	537	537	537	536	537	530
9	**Total Firm Loads**	**22501**	**22341**	**20844**	**20213**	**22576**	**24823**	**24977**	**23651**	**21928**	**20911**	**20911**	**20279**	**21914**	**23347**	**22325**
Non-Firm Loads																
10	Public Utility District	0	0	14.3	0	0	0	3.50	23.8	54.4	33.8	33.8	0	0	0	10.7
11	**Total Non-Firm Loads**	**0**	**0**	**14.3**	**0**	**0**	**0**	**3.50**	**23.8**	**54.4**	**33.8**	**33.8**	**0**	**0**	**0**	**10.7**
Total Regional Loads (Firm+Non-Firm)																
12	Federal Agency	117	116	108	115	140	160	162	150	141	129	129	116	111	119	131
13	USBR	295	304	252	104	30.1	29.2	27.1	25.2	65.8	250	250	327	340	402	180
14	Cooperative	2023	2007	1794	1689	1933	2220	2179	2031	1853	1807	1807	1823	1952	2143	1954
15	Municipality	2495	2472	2432	2594	3000	3225	3231	3101	2848	2678	2678	2472	2438	2483	2748
16	Public Utility District	4147	4120	3963	4105	4790	5229	5165	4854	4437	4235	4235	3959	4025	4204	4424
17	Investor-Owned Utility	12548	12447	11484	10722	11764	13014	13266	12564	11701	10917	10917	10653	12113	13048	11980
18	Marketer	383	383	331	348	382	409	414	412	399	392	392	392	401	412	390
19	Direct-Service Industry	494	493	494	536	538	536	536	538	537	537	537	537	536	537	530
20	**Total Loads**	**22501**	**22341**	**20858**	**20213**	**22576**	**24823**	**24980**	**23674**	**21982**	**20945**	**20945**	**20279**	**21914**	**23347**	**22335**

Table A-1: Regional: Total Retail Loads

Operating Year 2017

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Firm Loads																
1	Federal Agency	119	119	111	118	144	165	162	155	142	130	130	117	111	119	133
2	USBR	301	299	252	104	30.1	29.2	27.1	25.2	65.8	244	256	327	340	402	180
3	Cooperative	2060	2062	1836	1729	1975	2268	2222	2130	1892	1856	1840	1865	1997	2191	2001
4	Municipality	2497	2500	2446	2605	3051	3208	3269	3156	2819	2704	2676	2484	2469	2516	2766
5	Public Utility District	4202	4205	4030	4147	4835	5276	5209	4963	4426	4261	4228	3999	4060	4240	4467
6	Investor-Owned Utility	12762	12778	11711	10924	11982	13256	13515	12784	11906	11150	11066	10848	12357	13317	12206
7	Marketer	385	385	333	350	383	411	416	409	401	394	393	394	402	414	391
8	Direct-Service Industry	537	537	538	536	538	536	536	538	537	538	537	537	536	537	537
9	**Total Firm Loads**	**22863**	**22885**	**21257**	**20513**	**22939**	**25150**	**25356**	**24160**	**22188**	**21276**	**21125**	**20571**	**22272**	**23736**	**22681**
Non-Firm Loads																
10	Public Utility District	0	0	14.3	0	0	0	3.50	23.0	54.4	33.8	33.8	0	0	0	10.6
11	**Total Non-Firm Loads**	**0**	**0**	**14.3**	**0**	**0**	**0**	**3.50**	**23.0**	**54.4**	**33.8**	**33.8**	**0**	**0**	**0**	**10.6**
Total Regional Loads (Firm+Non-Firm)																
12	Federal Agency	119	119	111	118	144	165	162	155	142	130	130	117	111	119	133
13	USBR	301	299	252	104	30.1	29.2	27.1	25.2	65.8	244	256	327	340	402	180
14	Cooperative	2060	2062	1836	1729	1975	2268	2222	2130	1892	1856	1840	1865	1997	2191	2001
15	Municipality	2497	2500	2446	2605	3051	3208	3269	3156	2819	2704	2676	2484	2469	2516	2766
16	Public Utility District	4202	4205	4044	4147	4835	5276	5212	4986	4480	4295	4261	3999	4060	4240	4478
17	Investor-Owned Utility	12762	12778	11711	10924	11982	13256	13515	12784	11906	11150	11066	10848	12357	13317	12206
18	Marketer	385	385	333	350	383	411	416	409	401	394	393	394	402	414	391
19	Direct-Service Industry	537	537	538	536	538	536	536	538	537	538	537	537	536	537	537
20	**Total Loads**	**22863**	**22885**	**21271**	**20513**	**22939**	**25150**	**25360**	**24183**	**22243**	**21310**	**21159**	**20571**	**22272**	**23736**	**22692**

Table A-1: Regional: Total Retail Loads

Operating Year 2018

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Firm Loads																
1	Federal Agency	120	120	111	118	144	166	164	156	143	131	131	118	112	120	134
2	USBR	301	299	252	104	30.1	29.2	27.1	25.2	65.8	256	244	327	340	402	180
3	Cooperative	2107	2109	1879	1772	2019	2318	2266	2174	1932	1880	1896	1905	2040	2235	2044
4	Municipality	2527	2529	2483	2619	3067	3223	3284	3171	2832	2690	2717	2497	2483	2529	2783
5	Public Utility District	4240	4243	4066	4188	4877	5321	5252	5007	4468	4269	4303	4040	4103	4284	4509
6	Investor-Owned Utility	13025	13042	11928	11094	12163	13456	13722	12978	12083	11234	11319	11021	12569	13554	12406
7	Marketer	386	386	334	351	384	412	417	410	402	394	395	395	403	415	392
8	Direct-Service Industry	537	537	538	536	538	536	536	538	537	537	538	537	536	537	537
9	**Total Firm Loads**	**23242**	**23264**	**21590**	**20782**	**23223**	**25462**	**25669**	**24458**	**22463**	**21389**	**21543**	**20839**	**22585**	**24076**	**22985**
Non-Firm Loads																
10	Public Utility District	0	0	14.3	0	0	0	3.50	23.0	54.4	33.8	33.8	0	0	0	10.6
11	**Total Non-Firm Loads**	**0**	**0**	**14.3**	**0**	**0**	**0**	**3.50**	**23.0**	**54.4**	**33.8**	**33.8**	**0**	**0**	**0**	**10.6**
Total Regional Loads (Firm+Non-Firm)																
12	Federal Agency	120	120	111	118	144	166	164	156	143	131	131	118	112	120	134
13	USBR	301	299	252	104	30.1	29.2	27.1	25.2	65.8	256	244	327	340	402	180
14	Cooperative	2107	2109	1879	1772	2019	2318	2266	2174	1932	1880	1896	1905	2040	2235	2044
15	Municipality	2527	2529	2483	2619	3067	3223	3284	3171	2832	2690	2717	2497	2483	2529	2783
16	Public Utility District	4240	4243	4080	4188	4877	5321	5256	5030	4522	4303	4336	4040	4103	4284	4520
17	Investor-Owned Utility	13025	13042	11928	11094	12163	13456	13722	12978	12083	11234	11319	11021	12569	13554	12406
18	Marketer	386	386	334	351	384	412	417	410	402	394	395	395	403	415	392
19	Direct-Service Industry	537	537	538	536	538	536	536	538	537	537	538	537	536	537	537
20	**Total Loads**	**23242**	**23264**	**21605**	**20782**	**23223**	**25462**	**25672**	**24481**	**22517**	**21423**	**21577**	**20839**	**22585**	**24076**	**22996**

Table A-1: Regional: Total Retail Loads

Operating Year 2019

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Firm Loads																
1	Federal Agency	121	121	112	119	146	167	193	183	166	151	151	136	130	139	147
2	USBR	301	299	252	104	30.1	29.2	27.1	25.2	65.8	250	250	327	340	402	180
3	Cooperative	2150	2152	1921	1813	2064	2367	2313	2222	1975	1931	1931	1948	2082	2279	2089
4	Municipality	2540	2543	2496	2634	3082	3239	3298	3187	2846	2718	2718	2511	2497	2544	2797
5	Public Utility District	4280	4283	4104	4225	4918	5365	5295	5050	4506	4324	4324	4077	4142	4324	4549
6	Investor-Owned Utility	13258	13275	12116	11248	12327	13637	13907	13153	12250	11433	11433	11177	12769	13774	12588
7	Marketer	387	387	335	352	386	414	418	411	403	396	396	396	405	416	393
8	Direct-Service Industry	537	537	538	536	538	536	536	538	537	537	537	537	536	537	537
9	**Total Firm Loads**	**23574**	**23597**	**21874**	**21032**	**23491**	**25754**	**25988**	**24768**	**22750**	**21740**	**21740**	**21108**	**22900**	**24415**	**23280**
Non-Firm Loads																
10	Public Utility District	0	0	14.3	0	0	0	3.50	23.0	54.4	33.8	33.8	0	0	0	10.6
11	**Total Non-Firm Loads**	**0**	**0**	**14.3**	**0**	**0**	**0**	**3.50**	**23.0**	**54.4**	**33.8**	**33.8**	**0**	**0**	**0**	**10.6**
Total Regional Loads (Firm+Non-Firm)																
12	Federal Agency	121	121	112	119	146	167	193	183	166	151	151	136	130	139	147
13	USBR	301	299	252	104	30.1	29.2	27.1	25.2	65.8	250	250	327	340	402	180
14	Cooperative	2150	2152	1921	1813	2064	2367	2313	2222	1975	1931	1931	1948	2082	2279	2089
15	Municipality	2540	2543	2496	2634	3082	3239	3298	3187	2846	2718	2718	2511	2497	2544	2797
16	Public Utility District	4280	4283	4118	4225	4918	5365	5299	5073	4560	4358	4358	4077	4142	4324	4560
17	Investor-Owned Utility	13258	13275	12116	11248	12327	13637	13907	13153	12250	11433	11433	11177	12769	13774	12588
18	Marketer	387	387	335	352	386	414	418	411	403	396	396	396	405	416	393
19	Direct-Service Industry	537	537	538	536	538	536	536	538	537	537	537	537	536	537	537
20	**Total Loads**	**23574**	**23597**	**21888**	**21032**	**23491**	**25754**	**25992**	**24791**	**22804**	**21774**	**21774**	**21108**	**22900**	**24415**	**23291**

Table A-1: Regional: Total Retail Loads

Operating Year 2020

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Firm Loads																
1	Federal Agency	139	139	130	138	171	198	205	189	176	159	159	143	137	146	161
2	USBR	301	299	252	104	30.1	29.2	27.1	25.2	65.8	250	250	327	340	402	180
3	Cooperative	2194	2196	1963	1855	2110	2418	2361	2209	2019	1975	1975	1991	2127	2326	2130
4	Municipality	2555	2558	2511	2647	3097	3253	3313	3164	2860	2731	2731	2524	2511	2557	2809
5	Public Utility District	4320	4323	4142	4263	4959	5409	5334	5000	4540	4358	4358	4110	4177	4360	4581
6	Investor-Owned Utility	13476	13493	12290	11404	12490	13825	14096	13334	12420	11592	11592	11336	12972	13998	12772
7	Marketer	388	388	336	353	387	415	420	412	405	397	397	397	406	418	394
8	Direct-Service Industry	537	537	538	536	538	536	536	538	537	537	537	537	536	537	537
9	**Total Firm Loads**	**23911**	**23933**	**22162**	**21300**	**23782**	**26082**	**26291**	**24871**	**23022**	**22000**	**22000**	**21366**	**23205**	**24745**	**23564**
Non-Firm Loads																
10	Public Utility District	0	0	14.3	0	0	0	3.50	23.8	54.4	33.8	33.8	0	0	0	10.7
11	**Total Non-Firm Loads**	**0**	**0**	**14.3**	**0**	**0**	**0**	**3.50**	**23.8**	**54.4**	**33.8**	**33.8**	**0**	**0**	**0**	**10.7**
Total Regional Loads (Firm+Non-Firm)																
12	Federal Agency	139	139	130	138	171	198	205	189	176	159	159	143	137	146	161
13	USBR	301	299	252	104	30.1	29.2	27.1	25.2	65.8	250	250	327	340	402	180
14	Cooperative	2194	2196	1963	1855	2110	2418	2361	2209	2019	1975	1975	1991	2127	2326	2130
15	Municipality	2555	2558	2511	2647	3097	3253	3313	3164	2860	2731	2731	2524	2511	2557	2809
16	Public Utility District	4320	4323	4157	4263	4959	5409	5337	5023	4595	4392	4392	4110	4177	4360	4591
17	Investor-Owned Utility	13476	13493	12290	11404	12490	13825	14096	13334	12420	11592	11592	11336	12972	13998	12772
18	Marketer	388	388	336	353	387	415	420	412	405	397	397	397	406	418	394
19	Direct-Service Industry	537	537	538	536	538	536	536	538	537	537	537	537	536	537	537
20	**Total Loads**	**23911**	**23933**	**22176**	**21300**	**23782**	**26082**	**26295**	**24894**	**23076**	**22034**	**22034**	**21366**	**23205**	**24745**	**23574**

Table A-1: Regional: Total Retail Loads

Operating Year 2021

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Firm Loads																
1	Federal Agency	148	147	137	145	181	211	205	194	176	160	160	143	137	147	165
2	USBR	295	304	252	104	30.1	29.2	27.1	25.2	65.8	250	250	327	340	402	180
3	Cooperative	2250	2233	2007	1897	2155	2468	2406	2318	2061	2019	2019	2035	2173	2354	2178
4	Municipality	2582	2559	2525	2661	3111	3268	3327	3216	2873	2744	2744	2537	2524	2571	2825
5	Public Utility District	4373	4344	4177	4296	4996	5448	5378	5133	4580	4398	4398	4149	4217	4403	4626
6	Investor-Owned Utility	13761	13651	12469	11563	12658	14010	14288	13513	12592	11753	11753	11498	13176	14223	12954
7	Marketer	390	389	337	354	388	416	421	414	406	398	398	398	407	419	396
8	Direct-Service Industry	538	537	538	536	538	536	536	538	537	537	537	537	536	537	537
9	**Total Firm Loads**	**24336**	**24162**	**22441**	**21557**	**24057**	**26386**	**26589**	**25350**	**23291**	**22259**	**22259**	**21625**	**23511**	**25056**	**23861**
Non-Firm Loads																
10	Public Utility District	0	0	14.3	0	0	0	3.50	23.8	54.4	33.8	33.8	0	0	0	10.7
11	**Total Non-Firm Loads**	**0**	**0**	**14.3**	**0**	**0**	**0**	**3.50**	**23.8**	**54.4**	**33.8**	**33.8**	**0**	**0**	**0**	**10.7**
Total Regional Loads (Firm+Non-Firm)																
12	Federal Agency	148	147	137	145	181	211	205	194	176	160	160	143	137	147	165
13	USBR	295	304	252	104	30.1	29.2	27.1	25.2	65.8	250	250	327	340	402	180
14	Cooperative	2250	2233	2007	1897	2155	2468	2406	2318	2061	2019	2019	2035	2173	2354	2178
15	Municipality	2582	2559	2525	2661	3111	3268	3327	3216	2873	2744	2744	2537	2524	2571	2825
16	Public Utility District	4373	4344	4191	4296	4996	5448	5381	5157	4634	4431	4431	4149	4217	4403	4636
17	Investor-Owned Utility	13761	13651	12469	11563	12658	14010	14288	13513	12592	11753	11753	11498	13176	14223	12954
18	Marketer	390	389	337	354	388	416	421	414	406	398	398	398	407	419	396
19	Direct-Service Industry	538	537	538	536	538	536	536	538	537	537	537	537	536	537	537
20	**Total Loads**	**24336**	**24162**	**22456**	**21557**	**24057**	**26386**	**26592**	**25373**	**23345**	**22293**	**22293**	**21625**	**23511**	**25056**	**23871**

Table A-1: Regional: Total Retail Loads

Operating Year 2022

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Firm Loads																
1	Federal Agency	147	148	137	146	182	211	206	195	177	160	160	144	138	147	166
2	USBR	307	293	252	104	30.1	29.2	27.1	25.2	65.8	250	250	327	340	402	180
3	Cooperative	2255	2280	2033	1921	2182	2500	2435	2346	2087	2044	2044	2060	2199	2382	2205
4	Municipality	2567	2599	2538	2674	3124	3283	3341	3232	2886	2757	2757	2550	2538	2584	2839
5	Public Utility District	4395	4436	4233	4349	5051	5509	5437	5193	4636	4452	4452	4203	4273	4462	4682
6	Investor-Owned Utility	13848	14003	12650	11722	12825	14194	14477	13693	12766	11914	11914	11661	13382	14453	13139
7	Marketer	390	391	338	355	389	417	422	415	407	399	399	399	408	420	397
8	Direct-Service Industry	537	538	538	536	538	536	536	538	537	537	537	537	536	537	537
9	**Total Firm Loads**	**24445**	**24689**	**22718**	**21807**	**24321**	**26679**	**26882**	**25637**	**23560**	**22514**	**22514**	**21881**	**23814**	**25388**	**24144**
Non-Firm Loads																
10	Public Utility District	0	0	14.3	0	0	0	3.50	23.8	54.4	33.8	33.8	0	0	0	10.7
11	**Total Non-Firm Loads**	**0**	**0**	**14.3**	**0**	**0**	**0**	**3.50**	**23.8**	**54.4**	**33.8**	**33.8**	**0**	**0**	**0**	**10.7**
Total Regional Loads (Firm+Non-Firm)																
12	Federal Agency	147	148	137	146	182	211	206	195	177	160	160	144	138	147	166
13	USBR	307	293	252	104	30.1	29.2	27.1	25.2	65.8	250	250	327	340	402	180
14	Cooperative	2255	2280	2033	1921	2182	2500	2435	2346	2087	2044	2044	2060	2199	2382	2205
15	Municipality	2567	2599	2538	2674	3124	3283	3341	3232	2886	2757	2757	2550	2538	2584	2839
16	Public Utility District	4395	4436	4247	4349	5051	5509	5441	5217	4690	4486	4486	4203	4273	4462	4693
17	Investor-Owned Utility	13848	14003	12650	11722	12825	14194	14477	13693	12766	11914	11914	11661	13382	14453	13139
18	Marketer	390	391	338	355	389	417	422	415	407	399	399	399	408	420	397
19	Direct-Service Industry	537	538	538	536	538	536	536	538	537	537	537	537	536	537	537
20	**Total Loads**	**24445**	**24689**	**22732**	**21807**	**24321**	**26679**	**26885**	**25661**	**23615**	**22548**	**22548**	**21881**	**23814**	**25388**	**24155**

Table A-1: Regional: Total Retail Loads

Operating Year 2023

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Firm Loads																
1	Federal Agency	148	148	137	146	182	212	207	195	177	161	160	144	138	148	166
2	USBR	301	299	252	104	30.1	29.2	27.1	25.2	65.8	244	256	327	340	402	180
3	Cooperative	2295	2296	2058	1945	2208	2532	2464	2374	2112	2078	2061	2086	2225	2411	2232
4	Municipality	2595	2598	2551	2687	3139	3296	3357	3247	2899	2785	2757	2563	2551	2598	2852
5	Public Utility District	4459	4462	4276	4392	5098	5558	5487	5243	4680	4514	4479	4246	4319	4508	4728
6	Investor-Owned Utility	14142	14160	12832	11880	12992	14377	14667	13872	12938	12121	12029	11827	13589	14685	13324
7	Marketer	392	392	339	356	390	419	424	416	408	401	400	400	409	421	398
8	Direct-Service Industry	537	537	538	536	538	536	536	538	537	538	537	537	536	537	537
9	**Total Firm Loads**	**24869**	**24892**	**22983**	**22046**	**24577**	**26958**	**27168**	**25910**	**23818**	**22841**	**22678**	**22130**	**24107**	**25711**	**24417**
Non-Firm Loads																
10	Public Utility District	0	0	14.3	0	0	0	3.50	23.8	54.4	33.9	33.7	0	0	0	10.7
11	**Total Non-Firm Loads**	**0**	**0**	**14.3**	**0**	**0**	**0**	**3.50**	**23.8**	**54.4**	**33.9**	**33.7**	**0**	**0**	**0**	**10.7**
Total Regional Loads (Firm+Non-Firm)																
12	Federal Agency	148	148	137	146	182	212	207	195	177	161	160	144	138	148	166
13	USBR	301	299	252	104	30.1	29.2	27.1	25.2	65.8	244	256	327	340	402	180
14	Cooperative	2295	2296	2058	1945	2208	2532	2464	2374	2112	2078	2061	2086	2225	2411	2232
15	Municipality	2595	2598	2551	2687	3139	3296	3357	3247	2899	2785	2757	2563	2551	2598	2852
16	Public Utility District	4459	4462	4290	4392	5098	5558	5490	5266	4734	4548	4513	4246	4319	4508	4739
17	Investor-Owned Utility	14142	14160	12832	11880	12992	14377	14667	13872	12938	12121	12029	11827	13589	14685	13324
18	Marketer	392	392	339	356	390	419	424	416	408	401	400	400	409	421	398
19	Direct-Service Industry	537	537	538	536	538	536	536	538	537	538	537	537	536	537	537
20	**Total Loads**	**24869**	**24892**	**22997**	**22046**	**24577**	**26958**	**27171**	**25933**	**23872**	**22875**	**22711**	**22130**	**24107**	**25711**	**24428**

THIS PAGE INTENTIONALLY LEFT BLANK

Exhibit 22
Table A-2: Regional Exports

Monthly Energy
Operating Year 2014 to 2023
Using 1937-Water Conditions

Table A-2: Regional Exports

Operating Year 2014

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Canada															
	Contracts	**691**	**696**	**544**	**488**	**488**	**674**	**519**	**488**	**488**	**488**	**488**	**488**	**488**	**517**	**531**
1	BPA-P to BCHP Trty LCADel	108	108	56.0	0	0	186	31.0	0	0	0	0	0	0	0	32.2
2	BPA-P to BCHP Trty CEA	486	491	488	488	488	488	488	488	488	488	488	488	488	488	488
3	BPA-P to BCHP NTSA Del	96.6	96.6	0	0	0	0	0	0	0	0	0	0	0	28.9	10.7
4	**Total Exports to CAN**	**691**	**696**	**544**	**488**	**488**	**674**	**519**	**488**	**488**	**488**	**488**	**488**	**488**	**517**	**531**
	East Continental Divide															
	Contracts	**15.0**	**15.0**	**12.9**	**13.0**	**8.19**	**9.85**	**10.0**	**9.73**	**8.21**	**7.23**	**7.23**	**7.06**	**7.61**	**9.94**	**9.91**
5	AVWP to PPLM PwrS LTFirm	6.80	6.80	6.80	6.80	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	2.46
6	BPA-P to Other Entities	8.15	8.16	6.11	6.25	7.19	8.85	9.04	8.73	7.21	6.23	6.23	6.06	6.61	8.94	7.45
7	**Total Exports to ECD**	**15.0**	**15.0**	**12.9**	**13.0**	**8.19**	**9.85**	**10.0**	**9.73**	**8.21**	**7.23**	**7.23**	**7.06**	**7.61**	**9.94**	**9.91**
	Inland Southwest															
	Transfer Services															
8	UAMP to UAMP TS PwrP	22.6	18.6	11.6	18.8	11.6	15.8	13.7	11.9	8.09	8.80	14.1	20.7	15.4	17.2	14.8
9	**Total Exports to ISW**	**22.6**	**18.6**	**11.6**	**18.8**	**11.6**	**15.8**	**13.7**	**11.9**	**8.09**	**8.80**	**14.1**	**20.7**	**15.4**	**17.2**	**14.8**
	Pacific Southwest															
	Contracts	**508**	**508**	**445**	**170**	**113**	**146**	**145**	**132**	**147**	**125**	**133**	**164**	**246**	**370**	**227**
10	AVWP to SMUD PwrS LTFirm	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
11	BPA-P to PASA CNX Del	4.41	4.46	4.38	0	0	0	0	0	0	0	0	0	0	4.64	1.13
12	BPA-P to PASA SNX Del	0	0	0	0	0	0	0	0	0	0	0	15.0	15.0	0	2.51
13	BPA-P to Other Entities	126	126	109	22.1	18.4	19.0	17.8	12.4	20.1	30.7	30.7	33.2	39.5	38.0	40.7
14	BPA-P to RVSD CNX Del	10.6	10.7	10.5	11.1	2.62	2.66	2.78	2.68	2.54	2.75	2.75	0	0	11.1	4.98
15	BPA-P to RVSD SNX Del	0	0	0	0	0	0	0	0	0	0	0	40.0	40.0	0	6.68
16	MCQC to BURB PwrS LTFirm	7.81	7.81	7.81	7.81	0	0	0	0	0	0	7.81	7.81	7.81	7.81	4.26
17	PPL to REDD PwrS LTFirm	27.8	27.8	22.0	21.4	0	0	0	0	0	0	0	17.5	18.0	25.3	11.1
18	PPL to SMUD PwrS LTFirm	74.4	74.4	42.9	43.2	41.6	74.4	74.4	67.2	74.4	41.6	41.6	0	0	43.2	48.1
19	PSE to PG&E SNX Del	187	187	168	0	0	0	0	0	0	0	0	0	46.0	160	47.1
20	SCL to NCPA SNX Del	19.2	19.2	30.0	14.5	0	0	0	0	0	0	0	0	30.0	30.0	10.3
	Transfer Services	**691**	**910**	**867**	**780**	**715**	**643**	**525**	**533**	**748**	**984**	**803**	**721**	**1059**	**906**	**767**
21	BURB to BURB TS PwrP	2.01	3.25	3.10	2.72	2.37	2.06	1.40	1.52	2.44	3.58	2.67	2.98	3.90	3.21	2.63
22	GLEN to GLEN TS PwrP	9.05	14.7	14.0	12.3	10.7	9.27	6.31	6.87	11.0	16.2	12.0	13.4	17.6	14.5	11.8
23	LDWP to LDWP TS PwrP	118	138	132	114	103	86.8	68.7	66.0	117	161	128	136	177	141	118
24	MID to MID TS PwrP	19.9	32.2	30.7	27.0	23.4	20.4	13.9	15.1	24.2	35.5	26.4	29.5	38.7	31.8	26.0
25	Other Entities to Other Entities	94.1	121	109	98.2	89.8	76.5	64.8	60.5	102	137	113	117	147	119	102
26	PG&E to PG&E TS PwrP	54.6	84.8	79.4	66.0	55.2	48.4	34.0	36.3	59.9	85.9	65.7	74.8	97.3	82.0	65.0
27	SCE to SCE TS PwrP	170	276	263	231	200	174	119	129	207	304	226	253	331	273	223
28	SDGE to SDGE TS PwrP	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	0	79.0	79.0	72.3
29	SMUD to SMUD TS PwrP	63.3	63.3	62.5	59.3	65.6	64.7	65.7	64.9	58.8	59.5	59.5	53.9	60.9	66.0	62.1
30	TID to TID TS PwrP	80.9	97.9	95.8	90.7	85.8	81.6	72.6	74.3	86.8	102	89.9	40.8	107	97.4	84.8
31	Intertie Losses	36	43	39	29	25	24	20	20	27	33	28	27	39	38	30
32	**Total Exports to PSW**	**1234**	**1460**	**1351**	**979**	**853**	**813**	**690**	**686**	**922**	**1142**	**964**	**911**	**1345**	**1315**	**1024**
	Total Exports															
33	Federal Entities	844	849	678	529	517	705	550	513	519	529	529	585	592	582	596
34	Investor Owned Utilities	694	825	741	527	458	452	387	385	513	608	510	439	671	752	555
35	Marketer	47.9	72.9	69.8	62.3	47.3	41.2	28.0	30.5	48.9	71.7	61.2	67.4	85.9	72.1	56.8
36	Municipality	345	404	395	353	314	291	249	248	320	405	346	312	470	417	344
37	**Total Exports**	**1931**	**2151**	**1884**	**1472**	**1336**	**1489**	**1214**	**1176**	**1400**	**1614**	**1446**	**1403**	**1820**	**1823**	**1551**

Table A-2: Regional Exports

Operating Year 2015

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Canada															
	Contracts	**686**	**656**	**516**	**464**	**464**	**657**	**487**	**464**	**464**	**464**	**464**	**464**	**464**	**492**	**506**
1	BPA-P to BCHP Trty LCADel	112	112	52.0	0	0	194	23.2	0	0	0	0	0	0	0	32.2
2	BPA-P to BCHP Trty CEA	479	449	464	464	464	464	464	464	464	464	464	464	464	464	464
3	BPA-P to BCHP NTSA Del	94.5	94.5	0	0	0	0	0	0	0	0	0	0	0	28.9	10.5
4	**Total Exports to CAN**	**686**	**656**	**516**	**464**	**464**	**657**	**487**	**464**	**464**	**464**	**464**	**464**	**464**	**492**	**506**
	East Continental Divide															
	Contracts	**9.20**	**9.11**	**7.12**	**7.25**	**8.19**	**9.85**	**10.0**	**9.73**	**8.21**	**7.23**	**7.23**	**7.06**	**7.61**	**9.94**	**8.45**
5	AVWP to PPLM PwrS LTFirm	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
6	BPA-P to Other Entities	8.20	8.11	6.12	6.25	7.19	8.85	9.04	8.73	7.21	6.23	6.23	6.06	6.61	8.94	7.45
7	**Total Exports to ECD**	**9.20**	**9.11**	**7.12**	**7.25**	**8.19**	**9.85**	**10.0**	**9.73**	**8.21**	**7.23**	**7.23**	**7.06**	**7.61**	**9.94**	**8.45**
	Inland Southwest															
	Transfer Services															
8	UAMP to UAMP TS PwrP	22.6	18.6	11.6	18.8	11.6	15.8	13.7	11.9	8.09	8.80	14.1	20.7	15.4	17.2	14.8
9	**Total Exports to ISW**	**22.6**	**18.6**	**11.6**	**18.8**	**11.6**	**15.8**	**13.7**	**11.9**	**8.09**	**8.80**	**14.1**	**20.7**	**15.4**	**17.2**	**14.8**
	Pacific Southwest															
	Contracts	**420**	**422**	**366**	**170**	**112**	**144**	**19.0**	**15.1**	**22.7**	**33.5**	**41.3**	**115**	**194**	**273**	**158**
10	AVWP to SMUD PwrS LTFirm	50.0	50.0	50.0	50.0	50.0	50.0	0	0	0	0	0	0	0	0	21.0
11	BPA-P to PASA CNX Del	4.37	4.10	4.58	0	0	0	0	0	0	0	0	0	0	0	0.74
12	BPA-P to PASA SNX Del	0	0	0	0	0	0	0	0	0	0	0	15.0	15.0	0	2.51
13	BPA-P to Other Entities	38.5	41.8	28.2	22.2	19.3	16.6	16.3	12.4	20.0	30.8	30.8	34.8	37.4	38.3	26.5
14	BPA-P to RVSD CNX Del	10.5	9.84	11.0	11.1	2.50	2.78	2.66	2.68	2.67	2.75	2.75	0	0	11.1	4.98
15	BPA-P to RVSD SNX Del	0	0	0	0	0	0	0	0	0	0	0	40.0	40.0	0	6.68
16	MCQC to BURB PwrS LTFirm	7.81	7.81	7.81	7.81	0	0	0	0	0	0	7.81	7.81	7.81	7.81	4.26
17	PPL to REDD PwrS LTFirm	27.4	27.4	22.3	21.4	0	0	0	0	0	0	0	17.4	18.1	25.3	11.1
18	PPL to SMUD PwrS LTFirm	74.4	74.4	44.3	43.2	40.0	74.4	0	0	0	0	0	0	0	0	23.2
19	PSE to PG&E SNX Del	187	187	168	0	0	0	0	0	0	0	0	0	46.0	160	47.1
20	SCL to NCPA SNX Del	19.2	19.2	30.0	14.5	0	0	0	0	0	0	0	0	30.0	30.0	10.3
	Transfer Services	**691**	**910**	**867**	**780**	**715**	**643**	**525**	**533**	**748**	**984**	**803**	**721**	**1059**	**906**	**767**
21	BURB to BURB TS PwrP	2.01	3.25	3.10	2.72	2.37	2.06	1.40	1.52	2.44	3.58	2.67	2.98	3.90	3.21	2.63
22	GLEN to GLEN TS PwrP	9.05	14.7	14.0	12.3	10.7	9.27	6.31	6.87	11.0	16.2	12.0	13.4	17.6	14.5	11.8
23	LDWP to LDWP TS PwrP	118	138	132	114	103	86.8	68.7	66.0	117	161	128	136	177	141	118
24	MID to MID TS PwrP	19.9	32.2	30.7	27.0	23.4	20.4	13.9	15.1	24.2	35.5	26.4	29.5	38.7	31.8	26.0
25	Other Entities to Other Entities	94.1	121	109	98.2	89.9	76.4	64.8	60.5	102	137	113	118	147	119	102
26	PG&E to PG&E TS PwrP	54.6	84.8	79.4	66.0	55.2	48.4	34.0	36.3	59.9	85.9	65.7	74.8	97.3	82.0	65.0
27	SCE to SCE TS PwrP	170	276	263	231	200	174	119	129	207	304	226	253	331	273	223
28	SDGE to SDGE TS PwrP	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	0	79.0	79.0	72.3
29	SMUD to SMUD TS PwrP	63.3	63.3	62.5	59.3	65.6	64.7	65.7	64.9	58.8	59.5	59.5	53.9	60.9	66.0	62.1
30	TID to TID TS PwrP	80.9	97.9	95.8	90.7	85.8	81.6	72.6	74.3	86.8	102	89.9	40.8	107	97.4	84.8
31	Intertie Losses	33	40	37	29	25	24	16	16	23	31	25	25	38	35	28
32	**Total Exports to PSW**	**1144**	**1372**	**1270**	**979**	**852**	**810**	**560**	**565**	**794**	**1048**	**869**	**861**	**1291**	**1215**	**953**
	Total Exports															
33	Federal Entities	749	721	567	504	493	686	515	488	494	504	504	562	565	552	556
34	Investor Owned Utilities	688	820	737	522	456	452	262	268	388	516	418	389	621	659	499
35	Marketer	47.9	72.9	69.8	62.3	47.3	41.2	28.0	30.5	48.9	71.7	61.2	67.4	85.9	72.1	56.8
36	Municipality	345	403	395	353	314	291	249	248	320	405	346	312	470	417	344
37	**Total Exports**	**1829**	**2017**	**1769**	**1441**	**1311**	**1470**	**1055**	**1034**	**1251**	**1498**	**1330**	**1330**	**1743**	**1700**	**1456**

Table A-2: Regional Exports

Operating Year 2016

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Canada															
	Contracts	**698**	**668**	**520**	**472**	**472**	**673**	**488**	**472**	**472**	**472**	**472**	**472**	**472**	**501**	**515**
1	BPA-P to BCHP Trty LCADel	116	116	48.0	0	0	201	15.5	0	0	0	0	0	0	0	32.1
2	BPA-P to BCHP Trty CEA	488	457	472	472	472	472	472	472	472	472	472	472	472	472	472
3	BPA-P to BCHP NTSA Del	94.5	94.5	0	0	0	0	0	0	0	0	0	0	0	28.9	10.5
4	**Total Exports to CAN**	**698**	**668**	**520**	**472**	**472**	**673**	**488**	**472**	**472**	**472**	**472**	**472**	**472**	**501**	**515**
	East Continental Divide															
	Contracts	**9.20**	**9.11**	**7.12**	**7.25**	**8.19**	**9.85**	**10.0**	**9.73**	**8.21**	**7.23**	**7.23**	**7.06**	**7.61**	**9.94**	**8.45**
5	AVWP to PPLM PwrS LTFirm	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
6	BPA-P to Other Entities	8.20	8.11	6.12	6.25	7.19	8.85	9.04	8.73	7.21	6.23	6.23	6.06	6.61	8.94	7.45
7	**Total Exports to ECD**	**9.20**	**9.11**	**7.12**	**7.25**	**8.19**	**9.85**	**10.0**	**9.73**	**8.21**	**7.23**	**7.23**	**7.06**	**7.61**	**9.94**	**8.45**
	Inland Southwest															
	Transfer Services															
8	UAMP to UAMP TS PwrP	22.6	18.6	11.6	18.8	11.6	15.8	13.7	11.9	8.09	8.80	14.1	20.7	15.4	17.2	14.8
9	**Total Exports to ISW**	**22.6**	**18.6**	**11.6**	**18.8**	**11.6**	**15.8**	**13.7**	**11.9**	**8.09**	**8.80**	**14.1**	**20.7**	**15.4**	**17.2**	**14.8**
	Pacific Southwest															
	Contracts	**291**	**294**	**267**	**76.5**	**21.9**	**18.5**	**17.7**	**14.6**	**22.1**	**33.3**	**41.1**	**43.3**	**121**	**237**	**97.8**
10	BPA-P to PASA CNX Del	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	BPA-P to PASA SNX Del	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	BPA-P to Other Entities	38.9	42.2	27.8	22.2	19.3	15.7	15.1	11.9	19.3	30.7	30.7	35.5	37.7	39.1	26.3
13	BPA-P to RVSD CNX Del	10.5	9.84	11.0	10.6	2.62	2.78	2.54	2.72	2.79	2.62	2.62	0	0	0	4.00
14	BPA-P to RVSD SNX Del	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	MCQC to BURB PwrS LTFirm	7.81	7.81	7.81	7.81	0	0	0	0	0	0	7.81	7.81	7.81	7.81	4.25
16	PPL to REDD PwrS LTFirm	27.4	27.4	22.3	21.4	0	0	0	0	0	0	0	0	0	0	5.96
17	PSE to PG&E SNX Del	187	187	168	0	0	0	0	0	0	0	0	0	46.0	160	47.0
18	SCL to NCPA SNX Del	19.2	19.2	30.0	14.5	0	0	0	0	0	0	0	0	30.0	30.0	10.3
	Transfer Services	**691**	**910**	**867**	**780**	**715**	**643**	**525**	**533**	**748**	**984**	**803**	**721**	**1059**	**906**	**766**
19	BURB to BURB TS PwrP	2.01	3.25	3.10	2.72	2.37	2.06	1.40	1.52	2.44	3.58	2.67	2.98	3.90	3.21	2.62
20	GLEN to GLEN TS PwrP	9.05	14.7	14.0	12.3	10.7	9.27	6.31	6.87	11.0	16.2	12.0	13.4	17.6	14.5	11.8
21	LDWP to LDWP TS PwrP	118	138	132	114	103	86.8	68.7	66.0	116	161	128	136	177	141	118
22	MID to MID TS PwrP	19.9	32.2	30.7	27.0	23.4	20.4	13.9	15.1	24.2	35.5	26.4	29.5	38.7	31.8	26.0
23	Other Entities to Other Entities	94.1	121	109	98.2	89.9	76.4	64.8	60.5	102	137	113	118	147	119	101
24	PG&E to PG&E TS PwrP	54.6	84.8	79.4	66.0	55.2	48.4	34.0	36.3	59.9	85.9	65.7	74.8	97.3	82.0	65.0
25	SCE to SCE TS PwrP	170	276	263	231	200	174	119	129	207	304	226	253	331	273	222
26	SDGE to SDGE TS PwrP	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	0	79.0	79.0	72.3
27	SMUD to SMUD TS PwrP	63.3	63.3	62.5	59.3	65.6	64.7	65.7	64.9	58.8	59.5	59.5	53.9	60.9	66.0	62.1
28	TID to TID TS PwrP	80.9	97.9	95.8	90.7	85.8	81.6	72.6	74.3	86.8	102	89.9	40.8	107	97.4	84.8
29	Intertie Losses	29	36	34	26	22	20	16	16	23	31	25	23	35	34	26
30	**Total Exports to PSW**	**1011**	**1240**	**1168**	**883**	**759**	**681**	**559**	**564**	**793**	**1047**	**869**	**788**	**1216**	**1178**	**890**
	Total Exports															
31	Federal Entities	757	730	566	512	502	701	515	496	502	513	513	515	517	550	553
32	Investor Owned Utilities	563	695	643	428	366	328	262	268	388	516	418	371	603	634	449
33	Marketer	47.9	72.9	69.8	62.3	47.3	41.2	28.0	30.5	48.9	71.7	61.2	67.4	85.9	72.1	56.8
34	Municipality	345	403	395	353	314	291	249	248	320	405	346	312	470	417	343
35	**Total Exports**	**1713**	**1901**	**1674**	**1356**	**1229**	**1361**	**1054**	**1042**	**1259**	**1506**	**1338**	**1266**	**1677**	**1673**	**1403**

Table A-2: Regional Exports

Operating Year 2017

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Canada															
	Contracts	**657**	**661**	**536**	**468**	**468**	**630**	**522**	**468**	**468**	**486**	**449**	**468**	**468**	**496**	**510**
1	BPA-P to BCHP Trty LCADel	96.8	96.8	68.0	0	0	163	54.2	0	0	0	0	0	0	0	32.2
2	BPA-P to BCHP Trty CEA	465	470	468	468	468	468	468	468	468	486	449	468	468	468	468
3	BPA-P to BCHP NTSA Del	94.5	94.5	0	0	0	0	0	0	0	0	0	0	0	28.9	10.5
4	**Total Exports to CAN**	**657**	**661**	**536**	**468**	**468**	**630**	**522**	**468**	**468**	**486**	**449**	**468**	**468**	**496**	**510**
	East Continental Divide															
	Contracts	**9.15**	**9.16**	**7.12**	**7.25**	**8.19**	**9.85**	**10.0**	**9.73**	**8.21**	**7.25**	**7.21**	**7.06**	**7.61**	**9.94**	**8.45**
5	AVWP to PPLM PwrS LTFirm	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
6	BPA-P to Other Entities	8.15	8.16	6.12	6.25	7.19	8.85	9.04	8.73	7.21	6.25	6.21	6.06	6.61	8.94	7.45
7	**Total Exports to ECD**	**9.15**	**9.16**	**7.12**	**7.25**	**8.19**	**9.85**	**10.0**	**9.73**	**8.21**	**7.25**	**7.21**	**7.06**	**7.61**	**9.94**	**8.45**
	Inland Southwest															
	Transfer Services															
8	UAMP to UAMP TS PwrP	22.6	18.6	11.6	18.8	11.6	15.8	13.7	11.9	8.09	8.80	14.1	20.7	15.4	17.2	14.8
9	**Total Exports to ISW**	**22.6**	**18.6**	**11.6**	**18.8**	**11.6**	**15.8**	**13.7**	**11.9**	**8.09**	**8.80**	**14.1**	**20.7**	**15.4**	**17.2**	**14.8**
	Pacific Southwest															
	Contracts	**253**	**253**	**234**	**45.6**	**18.2**	**14.2**	**14.1**	**12.2**	**19.2**	**30.8**	**41.9**	**41.4**	**122**	**237**	**87.7**
10	BPA-P to PASA CNX Del	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	BPA-P to PASA SNX Del	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	BPA-P to Other Entities	39.0	38.5	28.1	23.3	18.2	14.2	14.1	12.2	19.2	30.8	34.0	33.5	37.8	39.2	26.0
13	BPA-P to RVSD CNX Del	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	BPA-P to RVSD SNX Del	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	MCQC to BURB PwrS LTFirm	7.81	7.81	7.81	7.81	0	0	0	0	0	0	7.81	7.81	7.81	7.81	4.26
16	PSE to PG&E SNX Del	187	187	168	0	0	0	0	0	0	0	0	0	46.0	160	47.1
17	SCL to NCPA SNX Del	19.2	19.2	30.0	14.5	0	0	0	0	0	0	0	0	30.0	30.0	10.3
	Transfer Services	**691**	**910**	**867**	**780**	**715**	**643**	**525**	**533**	**748**	**984**	**803**	**721**	**1059**	**906**	**767**
18	BURB to BURB TS PwrP	2.01	3.25	3.10	2.72	2.37	2.06	1.40	1.52	2.44	3.58	2.67	2.98	3.90	3.21	2.63
19	GLEN to GLEN TS PwrP	9.05	14.7	14.0	12.3	10.7	9.27	6.31	6.87	11.0	16.2	12.0	13.4	17.6	14.5	11.8
20	LDWP to LDWP TS PwrP	118	138	132	114	103	86.8	68.7	66.0	116	161	129	136	177	141	118
21	MID to MID TS PwrP	19.9	32.2	30.7	27.0	23.4	20.4	13.9	15.1	24.2	35.5	26.4	29.5	38.7	31.8	26.0
22	Other Entities to Other Entities	94.1	121	109	98.3	89.8	76.4	64.8	60.5	102	137	113	117	147	119	102
23	PG&E to PG&E TS PwrP	54.6	84.8	79.4	66.0	55.2	48.4	34.0	36.3	59.9	85.9	65.7	74.8	97.3	82.0	65.0
24	SCE to SCE TS PwrP	170	276	263	231	200	174	119	129	207	304	226	253	331	273	223
25	SDGE to SDGE TS PwrP	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	0	79.0	79.0	72.3
26	SMUD to SMUD TS PwrP	63.3	63.3	62.5	59.3	65.6	64.7	65.7	64.9	58.8	59.5	59.5	53.9	60.9	66.0	62.1
27	TID to TID TS PwrP	80.9	97.9	95.8	90.7	85.8	81.6	72.6	74.3	86.8	102	89.9	40.8	107	97.4	84.8
28	Intertie Losses	28	35	33	25	22	20	16	16	23	30	25	23	35	34	26
29	**Total Exports to PSW**	**972**	**1198**	**1134**	**851**	**755**	**677**	**555**	**562**	**790**	**1045**	**870**	**786**	**1216**	**1178**	**880**
	Total Exports															
30	Federal Entities	705	709	571	498	494	654	545	489	495	524	490	508	513	546	544
31	Investor Owned Utilities	536	667	621	407	366	328	262	268	388	516	418	371	603	634	444
32	Marketer	47.9	72.9	69.8	62.3	47.3	41.2	28.0	30.5	48.9	71.7	61.2	67.4	85.9	72.1	56.8
33	Municipality	345	404	395	353	314	291	249	248	320	405	347	312	470	417	344
34	**Total Exports**	**1634**	**1853**	**1656**	**1320**	**1221**	**1313**	**1085**	**1035**	**1251**	**1518**	**1316**	**1259**	**1672**	**1669**	**1389**

Table A-2: Regional Exports

Operating Year 2018

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Canada															
	Contracts	**662**	**667**	**533**	**469**	**469**	**640**	**516**	**469**	**469**	**451**	**488**	**469**	**469**	**498**	**512**
1	BPA-P to BCHP Trty LCADel	101	101	64.0	0	0	170	46.5	0	0	0	0	0	0	0	32.2
2	BPA-P to BCHP Trty CEA	467	472	469	469	469	469	469	469	469	451	488	469	469	469	469
3	BPA-P to BCHP NTSA Del	94.5	94.5	0	0	0	0	0	0	0	0	0	0	0	28.9	10.5
4	**Total Exports to CAN**	**662**	**667**	**533**	**469**	**469**	**640**	**516**	**469**	**469**	**451**	**488**	**469**	**469**	**498**	**512**
	East Continental Divide															
	Contracts	**9.15**	**9.16**	**7.12**	**7.25**	**8.19**	**9.85**	**10.0**	**9.73**	**8.21**	**7.21**	**7.25**	**7.06**	**7.61**	**9.94**	**8.45**
5	AVWP to PPLM PwrS LTFirm	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
6	BPA-P to Other Entities	8.15	8.16	6.12	6.25	7.19	8.85	9.04	8.73	7.21	6.21	6.25	6.06	6.61	8.94	7.45
7	**Total Exports to ECD**	**9.15**	**9.16**	**7.12**	**7.25**	**8.19**	**9.85**	**10.0**	**9.73**	**8.21**	**7.21**	**7.25**	**7.06**	**7.61**	**9.94**	**8.45**
	Inland Southwest															
	Transfer Services															
8	UAMP to UAMP TS PwrP	22.6	18.6	11.6	18.8	11.6	15.8	13.7	11.9	8.09	8.80	14.1	20.7	15.4	17.2	14.8
9	**Total Exports to ISW**	**22.6**	**18.6**	**11.6**	**18.8**	**11.6**	**15.8**	**13.7**	**11.9**	**8.09**	**8.80**	**14.1**	**20.7**	**15.4**	**17.2**	**14.8**
	Pacific Southwest															
	Contracts	**253**	**253**	**234**	**45.7**	**18.3**	**13.8**	**15.2**	**12.3**	**19.1**	**33.9**	**38.4**	**41.2**	**91.7**	**207**	**82.7**
10	BPA-P to PASA CNX Del	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	BPA-P to PASA SNX Del	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	BPA-P to Other Entities	39.0	38.5	28.1	23.4	18.3	13.8	15.2	12.3	19.1	33.9	30.6	33.4	37.9	39.3	26.1
13	BPA-P to RVSD CNX Del	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	BPA-P to RVSD SNX Del	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	MCQC to BURB PwrS LTFirm	7.81	7.81	7.81	7.81	0	0	0	0	0	0	7.81	7.81	7.81	7.81	4.26
16	PSE to PG&E SNX Del	187	187	168	0	0	0	0	0	0	0	0	0	46.0	160	47.1
17	SCL to NCPA SNX Del	19.2	19.2	30.0	14.5	0	0	0	0	0	0	0	0	0	0	5.33
	Transfer Services	**672**	**891**	**849**	**762**	**697**	**627**	**509**	**517**	**729**	**965**	**784**	**703**	**1041**	**888**	**749**
18	BURB to BURB TS PwrP	2.01	3.25	3.10	2.72	2.37	2.06	1.40	1.52	2.44	3.58	2.67	2.98	3.90	3.21	2.63
19	GLEN to GLEN TS PwrP	9.05	14.7	14.0	12.3	10.7	9.27	6.31	6.87	11.0	16.2	12.0	13.4	17.6	14.5	11.8
20	LDWP to LDWP TS PwrP	118	138	132	114	103	86.8	68.7	66.0	116	161	128	136	177	141	118
21	MID to MID TS PwrP	19.9	32.2	30.7	27.0	23.4	20.4	13.9	15.1	24.2	35.5	26.4	29.5	38.7	31.8	26.0
22	Other Entities to Other Entities	94.1	121	109	98.3	89.8	76.5	64.8	60.5	102	137	113	117	147	119	102
23	PG&E to PG&E TS PwrP	54.6	84.8	79.4	66.0	55.2	48.4	34.0	36.3	59.9	85.9	65.7	74.8	97.3	82.0	65.0
24	SCE to SCE TS PwrP	170	276	263	231	200	174	119	129	207	304	226	253	331	273	223
25	SDGE to SDGE TS PwrP	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	0	79.0	79.0	72.3
26	SMUD to SMUD TS PwrP	44.9	44.9	44.1	40.9	47.2	48.7	49.6	48.9	40.4	41.1	41.1	35.5	42.5	47.6	44.3
27	TID to TID TS PwrP	80.9	97.9	95.8	90.7	85.8	81.6	72.6	74.3	86.8	102	89.9	40.8	107	97.4	84.8
28	Intertie Losses	28	34	32	24	21	19	16	16	22	30	25	22	34	33	25
29	**Total Exports to PSW**	**953**	**1179**	**1115**	**832**	**736**	**660**	**540**	**546**	**771**	**1029**	**848**	**766**	**1166**	**1128**	**857**
	Total Exports															
30	Federal Entities	711	714	568	500	495	663	541	491	496	492	526	510	515	548	546
31	Investor Owned Utilities	536	667	621	407	366	328	262	268	388	516	418	371	603	634	444
32	Marketer	47.9	72.9	69.8	62.3	47.3	41.2	28.0	30.5	48.9	71.7	61.2	67.4	85.9	72.1	56.8
33	Municipality	326	385	377	335	296	275	233	232	302	387	328	294	422	368	321
34	**Total Exports**	**1621**	**1840**	**1635**	**1304**	**1205**	**1307**	**1064**	**1021**	**1235**	**1467**	**1333**	**1242**	**1626**	**1622**	**1368**

Table A-2: Regional Exports

Operating Year 2019

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Canada															
	Contracts	**661**	**665**	**524**	**464**	**464**	**642**	**503**	**464**	**464**	**464**	**464**	**464**	**464**	**493**	**507**
1	BPA-P to BCHP Trty LCADel	105	105	60.0	0	0	178	38.7	0	0	0	0	0	0	0	32.2
2	BPA-P to BCHP Trty CEA	462	466	464	464	464	464	464	464	464	464	464	464	464	464	464
3	BPA-P to BCHP NTSA Del	94.5	94.5	0	0	0	0	0	0	0	0	0	0	0	28.9	10.5
4	**Total Exports to CAN**	**661**	**665**	**524**	**464**	**464**	**642**	**503**	**464**	**464**	**464**	**464**	**464**	**464**	**493**	**507**
	East Continental Divide															
	Contracts	**9.15**	**9.16**	**7.11**	**7.25**	**8.19**	**9.85**	**10.0**	**9.73**	**8.21**	**7.23**	**7.23**	**7.06**	**7.61**	**9.94**	**8.45**
5	AVWP to PPLM PwrS LTFirm	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
6	BPA-P to Other Entities	8.15	8.16	6.11	6.25	7.19	8.85	9.04	8.73	7.21	6.23	6.23	6.06	6.61	8.94	7.45
7	**Total Exports to ECD**	**9.15**	**9.16**	**7.11**	**7.25**	**8.19**	**9.85**	**10.0**	**9.73**	**8.21**	**7.23**	**7.23**	**7.06**	**7.61**	**9.94**	**8.45**
	Inland Southwest															
	Transfer Services															
8	UAMP to UAMP TS PwrP	22.6	18.6	11.6	18.8	11.6	15.8	13.7	11.9	8.09	8.80	14.1	20.7	15.4	17.2	14.8
9	**Total Exports to ISW**	**22.6**	**18.6**	**11.6**	**18.8**	**11.6**	**15.8**	**13.7**	**11.9**	**8.09**	**8.80**	**14.1**	**20.7**	**15.4**	**17.2**	**14.8**
	Pacific Southwest															
	Contracts	**234**	**234**	**205**	**29.9**	**18.4**	**14.0**	**13.6**	**11.6**	**0.28**	**0**	**7.81**	**7.81**	**53.8**	**168**	**63.7**
10	BPA-P to PASA CNX Del	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	BPA-P to PASA SNX Del	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	BPA-P to Other Entities	39.1	38.6	29.4	22.1	18.4	14.0	13.6	11.6	0.28	0	0	0	0	0	12.4
13	BPA-P to RVSD CNX Del	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	BPA-P to RVSD SNX Del	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	MCQC to BURB PwrS LTFirm	7.81	7.81	7.81	7.81	0	0	0	0	0	0	7.81	7.81	7.81	7.81	4.26
16	PSE to PG&E SNX Del	187	187	168	0	0	0	0	0	0	0	0	0	46.0	160	47.1
	Transfer Services	**672**	**891**	**849**	**762**	**697**	**627**	**509**	**524**	**752**	**994**	**814**	**730**	**1077**	**916**	**762**
17	BURB to BURB TS PwrP	2.01	3.25	3.10	2.72	2.37	2.06	1.40	1.52	2.44	3.58	2.67	2.98	3.90	3.21	2.63
18	GLEN to GLEN TS PwrP	9.05	14.7	14.0	12.3	10.7	9.27	6.31	6.87	11.0	16.2	12.0	13.4	17.6	14.5	11.8
19	LDWP to LDWP TS PwrP	118	138	132	114	103	86.8	68.7	66.0	117	161	128	136	177	141	118
20	MID to MID TS PwrP	19.9	32.2	30.7	27.0	23.4	20.4	13.9	15.1	24.2	35.5	26.4	29.5	38.7	31.8	26.0
21	Other Entities to Other Entities	94.1	121	109	98.2	89.8	76.5	64.8	60.5	102	137	113	117	147	119	102
22	PG&E to PG&E TS PwrP	54.6	84.8	79.4	66.0	55.2	48.4	34.0	42.6	82.2	115	95.0	102	133	110	77.5
23	SCE to SCE TS PwrP	170	276	263	231	200	174	119	129	207	304	226	253	331	273	223
24	SDGE to SDGE TS PwrP	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	0	79.0	79.0	72.3
25	SMUD to SMUD TS PwrP	44.9	44.9	44.1	40.9	47.2	48.7	49.6	48.9	40.4	41.1	41.1	35.5	42.5	47.6	44.3
26	TID to TID TS PwrP	80.9	97.9	95.8	90.7	85.8	81.6	72.6	74.3	86.8	102	89.9	40.8	107	97.4	84.8
27	Intertie Losses	27	34	32	24	21	19	16	16	23	30	25	22	34	33	25
28	**Total Exports to PSW**	**934**	**1159**	**1086**	**816**	**737**	**660**	**538**	**551**	**775**	**1024**	**846**	**760**	**1165**	**1117**	**850**
	Total Exports															
29	Federal Entities	709	713	560	493	490	665	526	485	472	470	470	470	471	502	527
30	Investor Owned Utilities	536	667	621	407	366	328	262	274	410	546	447	399	640	662	456
31	Marketer	47.9	72.9	69.8	62.3	47.3	41.2	28.0	30.5	48.9	71.7	61.2	67.4	85.9	72.1	56.8
32	Municipality	307	366	347	320	296	275	233	232	302	387	328	294	422	368	315
33	**Total Exports**	**1600**	**1819**	**1598**	**1283**	**1199**	**1309**	**1050**	**1021**	**1232**	**1474**	**1307**	**1230**	**1618**	**1605**	**1356**

Table A-2: Regional Exports

Operating Year 2020

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Canada															
	Contracts	**660**	**664**	**515**	**459**	**459**	**645**	**490**	**459**	**459**	**459**	**459**	**459**	**459**	**488**	**502**
1	BPA-P to BCHP Trty LCADel	108	108	56.0	0	0	186	31.0	0	0	0	0	0	0	0	32.1
2	BPA-P to BCHP Trty CEA	457	461	459	459	459	459	459	459	459	459	459	459	459	459	459
3	BPA-P to BCHP NTSA Del	94.5	94.5	0	0	0	0	0	0	0	0	0	0	0	28.9	10.5
4	**Total Exports to CAN**	**660**	**664**	**515**	**459**	**459**	**645**	**490**	**459**	**459**	**459**	**459**	**459**	**459**	**488**	**502**
	East Continental Divide															
	Contracts	**9.15**	**9.16**	**7.11**	**7.25**	**8.19**	**9.85**	**10.0**	**9.73**	**8.21**	**7.23**	**7.23**	**7.06**	**7.61**	**9.94**	**8.45**
5	AVWP to PPLM PwrS LTFirm	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
6	BPA-P to Other Entities	8.15	8.16	6.11	6.25	7.19	8.85	9.04	8.73	7.21	6.23	6.23	6.06	6.61	8.94	7.45
7	**Total Exports to ECD**	**9.15**	**9.16**	**7.11**	**7.25**	**8.19**	**9.85**	**10.0**	**9.73**	**8.21**	**7.23**	**7.23**	**7.06**	**7.61**	**9.94**	**8.45**
	Inland Southwest															
	Transfer Services															
8	UAMP to UAMP TS PwrP	22.6	18.6	11.6	18.8	11.6	15.8	13.7	11.9	8.09	8.80	14.1	20.7	15.4	17.2	14.8
9	**Total Exports to ISW**	**22.6**	**18.6**	**11.6**	**18.8**	**11.6**	**15.8**	**13.7**	**11.9**	**8.09**	**8.80**	**14.1**	**20.7**	**15.4**	**17.2**	**14.8**
	Pacific Southwest															
	Contracts	**195**	**195**	**176**	**7.81**	**0**	**0**	**0**	**0**	**0**	**0**	**7.81**	**7.81**	**53.8**	**168**	**51.2**
10	BPA-P to PASA CNX Del	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	BPA-P to PASA SNX Del	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	BPA-P to Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	BPA-P to RVSD CNX Del	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	BPA-P to RVSD SNX Del	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	MCQC to BURB PwrS LTFirm	7.81	7.81	7.81	7.81	0	0	0	0	0	0	7.81	7.81	7.81	7.81	4.25
16	PSE to PG&E SNX Del	187	187	168	0	0	0	0	0	0	0	0	0	46.0	160	47.0
	Transfer Services	**711**	**918**	**870**	**779**	**711**	**636**	**522**	**524**	**752**	**994**	**814**	**730**	**1077**	**916**	**770**
17	BURB to BURB TS PwrP	2.01	3.25	3.10	2.72	2.37	2.06	1.40	1.52	2.44	3.58	2.67	2.98	3.90	3.21	2.62
18	GLEN to GLEN TS PwrP	9.05	14.7	14.0	12.3	10.7	9.27	6.31	6.87	11.0	16.2	12.0	13.4	17.6	14.5	11.8
19	LDWP to LDWP TS PwrP	118	138	132	114	103	86.8	68.7	66.0	117	161	128	136	177	141	118
20	MID to MID TS PwrP	19.9	32.2	30.7	27.0	23.4	20.4	13.9	15.1	24.2	35.5	26.4	29.5	38.7	31.8	26.0
21	Other Entities to Other Entities	94.1	121	109	98.2	89.8	76.5	64.8	60.5	102	137	113	118	147	119	101
22	PG&E to PG&E TS PwrP	93.6	111	100	83.0	69.4	57.2	47.3	42.6	82.2	115	95.0	102	133	110	86.4
23	SCE to SCE TS PwrP	170	276	263	231	200	174	119	129	207	304	226	253	331	273	222
24	SDGE to SDGE TS PwrP	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	0	79.0	79.0	72.3
25	SMUD to SMUD TS PwrP	44.9	44.9	44.1	40.9	47.2	48.7	49.6	48.9	40.4	41.1	41.1	35.5	42.5	47.6	44.3
26	TID to TID TS PwrP	80.9	97.9	95.8	90.7	85.8	81.6	72.6	74.3	86.8	102	89.9	40.8	107	97.4	84.8
27	Intertie Losses	27	33	31	24	21	19	16	16	23	30	25	22	34	33	25
28	**Total Exports to PSW**	**934**	**1147**	**1077**	**810**	**732**	**655**	**538**	**539**	**774**	**1024**	**846**	**760**	**1164**	**1117**	**846**
	Total Exports															
29	Federal Entities	668	672	521	465	466	654	499	468	466	465	465	465	466	497	509
30	Investor Owned Utilities	575	694	642	424	381	337	276	274	410	546	447	399	639	662	465
31	Marketer	47.9	72.9	69.8	62.3	47.3	41.2	28.0	30.5	48.9	71.7	61.2	67.4	85.9	72.1	56.8
32	Municipality	307	366	347	320	296	275	233	232	302	387	328	294	422	368	315
33	**Total Exports**	**1598**	**1805**	**1579**	**1272**	**1190**	**1306**	**1036**	**1004**	**1227**	**1469**	**1302**	**1225**	**1612**	**1600**	**1346**

Table A-2: Regional Exports

Operating Year 2021

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Canada															
	Contracts	**680**	**650**	**502**	**454**	**454**	**655**	**469**	**454**	**454**	**454**	**454**	**454**	**454**	**483**	**497**
1	BPA-P to BCHP Trty LCADel	116	116	48.0	0	0	201	15.5	0	0	0	0	0	0	0	32.2
2	BPA-P to BCHP Trty CEA	469	440	454	454	454	454	454	454	454	454	454	454	454	454	454
3	BPA-P to BCHP NTSA Del	94.5	94.5	0	0	0	0	0	0	0	0	0	0	0	28.9	10.5
4	**Total Exports to CAN**	**680**	**650**	**502**	**454**	**454**	**655**	**469**	**454**	**454**	**454**	**454**	**454**	**454**	**483**	**497**
	East Continental Divide															
	Contracts	**9.20**	**9.11**	**7.12**	**7.25**	**8.19**	**9.85**	**10.0**	**9.73**	**8.21**	**7.23**	**7.23**	**7.06**	**7.61**	**9.94**	**8.45**
5	AVWP to PPLM PwrS LTFirm	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
6	BPA-P to Other Entities	8.20	8.11	6.12	6.25	7.19	8.85	9.04	8.73	7.21	6.23	6.23	6.06	6.61	8.94	7.45
7	**Total Exports to ECD**	**9.20**	**9.11**	**7.12**	**7.25**	**8.19**	**9.85**	**10.0**	**9.73**	**8.21**	**7.23**	**7.23**	**7.06**	**7.61**	**9.94**	**8.45**
	Inland Southwest															
	Transfer Services															
8	UAMP to UAMP TS PwrP	22.6	18.6	11.6	18.8	11.6	15.8	13.7	11.9	8.09	8.80	14.1	20.7	15.4	17.2	14.8
9	**Total Exports to ISW**	**22.6**	**18.6**	**11.6**	**18.8**	**11.6**	**15.8**	**13.7**	**11.9**	**8.09**	**8.80**	**14.1**	**20.7**	**15.4**	**17.2**	**14.8**
	Pacific Southwest															
	Contracts	**195**	**195**	**176**	**7.81**	**0**	**0**	**0**	**0**	**0**	**0**	**7.81**	**7.81**	**53.8**	**168**	**51.4**
10	BPA-P to PASA CNX Del	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	BPA-P to PASA SNX Del	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	BPA-P to Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	BPA-P to RVSD CNX Del	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	BPA-P to RVSD SNX Del	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	MCQC to BURB PwrS LTFirm	7.81	7.81	7.81	7.81	0	0	0	0	0	0	7.81	7.81	7.81	7.81	4.26
16	PSE to PG&E SNX Del	187	187	168	0	0	0	0	0	0	0	0	0	46.0	160	47.1
	Transfer Services	**711**	**919**	**870**	**779**	**711**	**636**	**522**	**524**	**752**	**994**	**814**	**730**	**1077**	**916**	**771**
17	BURB to BURB TS PwrP	2.01	3.25	3.10	2.72	2.37	2.06	1.40	1.52	2.44	3.58	2.67	2.98	3.90	3.21	2.63
18	GLEN to GLEN TS PwrP	9.05	14.7	14.0	12.3	10.7	9.27	6.31	6.87	11.0	16.2	12.0	13.4	17.6	14.5	11.8
19	LDWP to LDWP TS PwrP	118	138	132	114	103	86.8	68.7	66.0	116	161	128	136	177	141	118
20	MID to MID TS PwrP	19.9	32.2	30.7	27.0	23.4	20.4	13.9	15.1	24.2	35.5	26.4	29.5	38.7	31.8	26.0
21	Other Entities to Other Entities	94.1	121	109	98.2	89.9	76.4	64.8	60.5	102	137	113	118	147	119	102
22	PG&E to PG&E TS PwrP	93.6	112	100	83.0	69.5	57.1	47.2	42.6	82.2	115	95.0	102	133	110	86.5
23	SCE to SCE TS PwrP	170	276	263	231	200	174	119	129	207	304	226	253	331	273	223
24	SDGE to SDGE TS PwrP	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	0	79.0	79.0	72.3
25	SMUD to SMUD TS PwrP	44.9	44.9	44.1	40.9	47.2	48.7	49.6	48.9	40.4	41.1	41.1	35.5	42.5	47.6	44.3
26	TID to TID TS PwrP	80.9	97.9	95.8	90.7	85.8	81.6	72.6	74.3	86.8	102	89.9	40.8	107	97.4	84.8
27	Intertie Losses	27	33	31	24	21	19	16	16	23	30	25	22	34	33	25
28	**Total Exports to PSW**	**934**	**1147**	**1077**	**810**	**732**	**655**	**538**	**539**	**774**	**1024**	**846**	**760**	**1164**	**1117**	**847**
	Total Exports															
29	Federal Entities	688	659	508	460	461	664	478	463	461	460	460	460	461	492	504
30	Investor Owned Utilities	575	695	642	424	381	336	276	274	410	546	447	399	639	662	465
31	Marketer	47.9	72.9	69.8	62.3	47.3	41.2	28.0	30.5	48.9	71.7	61.2	67.4	85.9	72.1	56.8
32	Municipality	307	366	347	320	296	275	233	232	302	387	328	294	422	368	315
33	**Total Exports**	**1618**	**1792**	**1566**	**1267**	**1185**	**1316**	**1015**	**999**	**1222**	**1464**	**1297**	**1220**	**1607**	**1595**	**1342**

Table A-2: Regional Exports

Operating Year 2022

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Canada															
	Contracts	**643**	**683**	**493**	**449**	**449**	**658**	**457**	**449**	**449**	**449**	**449**	**449**	**449**	**478**	**492**
1	BPA-P to BCHP Trty LCADel	120	120	44.0	0	0	209	7.74	0	0	0	0	0	0	0	32.2
2	BPA-P to BCHP Trty CEA	429	469	449	449	449	449	449	449	449	449	449	449	449	449	449
3	BPA-P to BCHP NTSA Del	94.5	94.5	0	0	0	0	0	0	0	0	0	0	0	28.9	10.5
4	**Total Exports to CAN**	**643**	**683**	**493**	**449**	**449**	**658**	**457**	**449**	**449**	**449**	**449**	**449**	**449**	**478**	**492**
	East Continental Divide															
	Contracts	**9.09**	**9.21**	**7.12**	**7.25**	**8.19**	**9.85**	**10.0**	**9.73**	**8.21**	**7.23**	**7.23**	**7.06**	**7.61**	**9.94**	**8.45**
5	AVWP to PPLM PwrS LTFirm	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
6	BPA-P to Other Entities	8.09	8.21	6.12	6.25	7.19	8.85	9.04	8.73	7.21	6.23	6.23	6.06	6.61	8.94	7.45
7	**Total Exports to ECD**	**9.09**	**9.21**	**7.12**	**7.25**	**8.19**	**9.85**	**10.0**	**9.73**	**8.21**	**7.23**	**7.23**	**7.06**	**7.61**	**9.94**	**8.45**
	Inland Southwest															
	Transfer Services															
8	UAMP to UAMP TS PwrP	22.6	18.6	11.6	18.8	11.6	15.8	13.7	11.9	8.09	8.80	14.1	20.7	15.4	17.2	14.8
9	**Total Exports to ISW**	**22.6**	**18.6**	**11.6**	**18.8**	**11.6**	**15.8**	**13.7**	**11.9**	**8.09**	**8.80**	**14.1**	**20.7**	**15.4**	**17.2**	**14.8**
	Pacific Southwest															
	Contracts	**195**	**195**	**176**	**7.81**	**0**	**0**	**0**	**0**	**0**	**0**	**7.81**	**7.81**	**53.8**	**168**	**51.4**
10	BPA-P to PASA CNX Del	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	BPA-P to PASA SNX Del	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	BPA-P to Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	BPA-P to RVSD CNX Del	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	BPA-P to RVSD SNX Del	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	MCQC to BURB PwrS LTFirm	7.81	7.81	7.81	7.81	0	0	0	0	0	0	7.81	7.81	7.81	7.81	4.26
16	PSE to PG&E SNX Del	187	187	168	0	0	0	0	0	0	0	0	0	46.0	160	47.1
	Transfer Services	**666**	**873**	**826**	**738**	**664**	**587**	**472**	**475**	**711**	**953**	**773**	**695**	**1034**	**869**	**726**
17	BURB to BURB TS PwrP	2.01	3.25	3.10	2.72	2.37	2.06	1.40	1.52	2.44	3.58	2.67	2.98	3.90	3.21	2.63
18	GLEN to GLEN TS PwrP	9.05	14.7	14.0	12.3	10.7	9.27	6.31	6.87	11.0	16.2	12.0	13.4	17.6	14.5	11.8
19	LDWP to LDWP TS PwrP	118	138	132	114	103	86.8	68.7	66.0	116	161	128	136	177	141	118
20	MID to MID TS PwrP	19.9	32.2	30.7	27.0	23.4	20.4	13.9	15.1	24.2	35.5	26.4	29.5	38.7	31.8	26.0
21	Other Entities to Other Entities	94.2	121	109	98.3	89.8	76.4	64.8	60.5	102	137	113	118	147	119	102
22	PG&E to PG&E TS PwrP	93.4	111	100	83.0	69.4	57.1	47.2	42.6	82.2	115	95.0	102	133	111	86.5
23	SCE to SCE TS PwrP	170	276	263	231	200	174	119	129	207	304	226	253	331	273	223
24	SDGE to SDGE TS PwrP	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	0	79.0	79.0	72.3
25	TID to TID TS PwrP	80.9	97.9	95.8	90.7	85.8	81.6	72.6	74.3	86.8	102	89.9	40.8	107	97.4	84.8
26	Intertie Losses	26	32	30	22	20	18	14	14	21	29	23	21	33	31	23
27	**Total Exports to PSW**	**887**	**1100**	**1031**	**768**	**684**	**604**	**487**	**489**	**733**	**982**	**804**	**724**	**1121**	**1068**	**801**
	Total Exports															
28	Federal Entities	651	691	499	456	456	667	466	458	456	456	456	455	456	487	499
29	Investor Owned Utilities	575	694	642	424	381	336	276	274	410	546	447	399	639	662	465
30	Marketer	47.9	72.9	69.8	62.3	47.3	41.2	28.0	30.5	48.9	71.7	61.2	67.4	85.9	72.1	56.8
31	Municipality	262	321	302	279	248	226	184	183	261	346	287	258	379	321	271
32	**Total Exports**	**1536**	**1779**	**1513**	**1221**	**1133**	**1271**	**953**	**946**	**1177**	**1418**	**1251**	**1180**	**1560**	**1543**	**1293**

Table A-2: Regional Exports

Operating Year 2023

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Canada															
	Contracts	**634**	**638**	**513**	**445**	**445**	**607**	**499**	**445**	**445**	**462**	**427**	**445**	**445**	**474**	**487**
1	BPA-P to BCHP Trty LCADel	96.8	96.8	68.0	0	0	163	54.2	0	0	0	0	0	0	0	32.2
2	BPA-P to BCHP Trty CEA	442	447	445	445	445	445	445	445	445	462	427	445	445	445	445
3	BPA-P to BCHP NTSA Del	94.5	94.5	0	0	0	0	0	0	0	0	0	0	0	28.9	10.5
4	**Total Exports to CAN**	**634**	**638**	**513**	**445**	**445**	**607**	**499**	**445**	**445**	**462**	**427**	**445**	**445**	**474**	**487**
	East Continental Divide															
	Contracts	**9.15**	**9.16**	**7.12**	**7.25**	**8.19**	**9.85**	**10.0**	**9.73**	**8.21**	**7.25**	**7.21**	**7.06**	**7.61**	**9.94**	**8.45**
5	AVWP to PPLM PwrS LTFirm	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
6	BPA-P to Other Entities	8.15	8.16	6.12	6.25	7.19	8.85	9.04	8.73	7.21	6.25	6.21	6.06	6.61	8.94	7.45
7	**Total Exports to ECD**	**9.15**	**9.16**	**7.12**	**7.25**	**8.19**	**9.85**	**10.0**	**9.73**	**8.21**	**7.25**	**7.21**	**7.06**	**7.61**	**9.94**	**8.45**
	Inland Southwest															
	Transfer Services															
8	UAMP to UAMP TS PwrP	22.6	18.6	11.6	18.8	11.6	15.8	13.7	11.9	8.09	8.80	14.1	20.7	15.4	17.2	14.8
9	**Total Exports to ISW**	**22.6**	**18.6**	**11.6**	**18.8**	**11.6**	**15.8**	**13.7**	**11.9**	**8.09**	**8.80**	**14.1**	**20.7**	**15.4**	**17.2**	**14.8**
	Pacific Southwest															
	Contracts	**195**	**195**	**176**	**7.81**	**0**	**0**	**0**	**0**	**0**	**0**	**7.81**	**7.81**	**53.8**	**168**	**51.4**
10	BPA-P to PASA CNX Del	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	BPA-P to PASA SNX Del	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	BPA-P to Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	BPA-P to RVSD CNX Del	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	BPA-P to RVSD SNX Del	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	MCQC to BURB PwrS LTFirm	7.81	7.81	7.81	7.81	0	0	0	0	0	0	7.81	7.81	7.81	7.81	4.26
16	PSE to PG&E SNX Del	187	187	168	0	0	0	0	0	0	0	0	0	46.0	160	47.1
	Transfer Services	**666**	**873**	**826**	**738**	**664**	**570**	**452**	**462**	**676**	**907**	**729**	**650**	**976**	**821**	**703**
17	BURB to BURB TS PwrP	2.01	3.25	3.10	2.72	2.37	2.06	1.40	1.52	2.44	3.58	2.67	2.98	3.90	3.21	2.63
18	GLEN to GLEN TS PwrP	9.05	14.7	14.0	12.3	10.7	9.27	6.31	6.87	11.0	16.2	12.0	13.4	17.6	14.5	11.8
19	LDWP to LDWP TS PwrP	118	138	132	114	103	86.8	68.7	66.0	116	161	129	136	177	141	118
20	MID to MID TS PwrP	19.9	32.2	30.7	27.0	23.4	20.4	13.9	15.1	24.2	35.5	26.4	29.5	38.7	31.8	26.0
21	Other Entities to Other Entities	94.1	121	109	98.3	89.8	76.4	64.8	60.5	102	137	113	117	147	119	102
22	PG&E to PG&E TS PwrP	93.6	111	100	83.0	69.4	39.8	27.1	29.5	47.2	69.3	51.6	57.7	75.6	62.2	63.1
23	SCE to SCE TS PwrP	170	276	263	231	200	174	119	129	207	304	226	253	331	273	223
24	SDGE to SDGE TS PwrP	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	0	79.0	79.0	72.3
25	TID to TID TS PwrP	80.9	97.9	95.8	90.7	85.8	81.6	72.6	74.3	86.8	102	89.9	40.8	107	97.4	84.8
26	Intertie Losses	26	32	30	22	20	17	14	14	20	27	22	20	31	30	23
27	**Total Exports to PSW**	**887**	**1100**	**1031**	**768**	**684**	**587**	**466**	**476**	**697**	**935**	**759**	**678**	**1061**	**1019**	**777**
	Total Exports															
28	Federal Entities	642	646	519	451	452	616	508	453	452	469	433	451	451	482	495
29	Investor Owned Utilities	575	694	642	424	381	319	256	261	375	500	404	354	582	614	442
30	Marketer	47.9	72.9	69.8	62.3	47.3	41.2	28.0	30.5	48.9	71.7	61.2	67.4	85.9	72.1	56.8
31	Municipality	262	321	302	279	248	226	184	183	261	346	287	258	379	321	271
32	**Total Exports**	**1527**	**1734**	**1533**	**1217**	**1128**	**1202**	**975**	**928**	**1137**	**1386**	**1185**	**1130**	**1498**	**1490**	**1265**

THIS PAGE INTENTIONALLY LEFT BLANK

Exhibit 23
Table A-3: Regional Imports

Monthly Energy
Operating Year 2014 to 2023
Using 1937-Water Conditions

Table A-3: Regional: Imports

Operating Year 2014

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW - Contract	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Canada															
	Contracts	**25.8**	**25.8**	**88.0**	**110**	**37.5**	**53.1**	**66.4**	**72.6**	**282**	**30.6**	**30.6**	**27.5**	**36.5**	**21.5**	**71.2**
1	BCHP to SCL PwrS LTFirm	23.0	23.0	13.2	14.3	33.6	48.8	62.1	68.8	61.1	27.4	27.4	24.6	33.9	18.5	35.6
2	BCHP to BPA-P Trty LCALgcyRtn	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
3	BCHP to BPA-P Trty LCARtn	0	0	72.0	92.9	0	0	0	0	217	0	0	0	0	0	32.2
4	Other Entities to PSE	1.79	1.79	1.75	1.95	2.90	3.34	3.28	2.79	2.70	2.19	2.19	1.86	1.64	2.01	2.35
5	**Total Imports From CAN**	**25.8**	**25.8**	**88.0**	**110**	**37.5**	**53.1**	**66.4**	**72.6**	**282**	**30.6**	**30.6**	**27.5**	**36.5**	**21.5**	**71.2**
	East Continental Divide															
	Transfer Services															
6	Unk_ECD_Mrktr to Other Entities	138	138	128	125	133	141	146	139	138	124	124	124	133	145	135
7	**Total Imports From ECD**	**138**	**138**	**128**	**125**	**133**	**141**	**146**	**139**	**138**	**124**	**124**	**124**	**133**	**145**	**135**
	Inland Southwest															
	Transfer Services															
8	RMP to RMP TS PwrP	493	492	453	425	423	455	428	442	414	395	395	441	552	609	461
9	**Total Imports From ISW**	**493**	**492**	**453**	**425**	**423**	**455**	**428**	**442**	**414**	**395**	**395**	**441**	**552**	**609**	**461**
	Pacific Southwest															
	Contracts	**15.8**	**15.7**	**22.6**	**19.4**	**300**	**356**	**265**	**228**	**67.9**	**23.7**	**23.7**	**0.12**	**0**	**15.1**	**109**
10	BARC to PSE PwrS LTFirm	0	0	0	0	75.0	75.0	75.0	75.0	0	0	0	0	0	0	24.7
11	PASA to BPA-P CNX EER	0	0	3.60	3.45	3.46	3.58	3.45	3.50	1.68	0	0	0	0	0	1.88
12	PASA to BPA-P CNX Repl	4.66	4.62	4.17	0.20	0	0	0	0	0	0	0	0	0	4.44	1.13
13	PASA to BPA-P SNX Ret	0	0	4.79	4.59	4.61	4.77	4.59	4.66	2.24	0	0	0	0	0	2.50
14	RVSD to BPA-P CNX EER	0	0	0	0	16.3	16.2	15.6	16.1	16.8	7.87	7.87	0	0	0	7.34
15	RVSD to BPA-P CNX Repl	11.2	11.1	10.00	11.1	3.12	2.54	2.78	2.68	2.54	2.75	2.75	0.12	0	10.6	4.98
16	RVSD to BPA-P SNX Ret	0	0	0	0	15.3	14.7	14.7	14.6	14.7	6.88	6.88	0	0	0	6.68
17	PG&E to PSE SNX Ret	0	0	0	0	158	209	119	81.0	0	0	0	0	0	0	47.1
18	NCPA to SCL SNX Ret	0	0	0	0	23.7	30.0	30.0	30.0	30.0	6.20	6.20	0	0	0	12.4
19	**Total Imports From PSW**	**15.8**	**15.7**	**22.6**	**19.4**	**300**	**356**	**265**	**228**	**67.9**	**23.7**	**23.7**	**0.12**	**0**	**15.1**	**109**
	Total Imports															
20	Federal Entities	16.8	16.7	95.6	113	43.8	42.7	42.1	42.6	256	18.5	18.5	1.12	1.00	16.1	57.7
21	Investor Owned Utilities	494	494	455	427	658	743	626	600	417	398	398	443	554	611	535
22	Marketer	138	138	128	125	133	141	146	139	138	124	124	124	133	145	135
23	Municipality	23.0	23.0	13.2	14.3	57.3	78.8	92.1	98.8	91.1	33.6	33.6	24.6	33.9	18.5	48.0
24	**Total Imports**	**672**	**672**	**691**	**679**	**893**	**1006**	**906**	**881**	**902**	**574**	**574**	**593**	**721**	**791**	**776**

Table A-3: Regional: Imports

Operating Year 2015

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW - Contract	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Canada															
	Contracts	**25.8**	**25.8**	**96.0**	**102**	**37.5**	**53.1**	**66.4**	**72.6**	**282**	**30.6**	**30.6**	**27.5**	**36.5**	**21.5**	**71.2**
1	BCHP to SCL PwrS LTFirm	23.0	23.0	13.2	14.3	33.6	48.8	62.1	68.8	61.1	27.4	27.4	24.6	33.9	18.5	35.6
2	BCHP to BPA-P Trty LCALgcyRtn	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
3	BCHP to BPA-P Trty LCARtn	0	0	80.0	85.2	0	0	0	0	217	0	0	0	0	0	32.2
4	Other Entities to PSE	1.79	1.79	1.75	1.95	2.90	3.34	3.28	2.79	2.70	2.19	2.19	1.86	1.64	2.01	2.35
5	**Total Imports From CAN**	**25.8**	**25.8**	**96.0**	**102**	**37.5**	**53.1**	**66.4**	**72.6**	**282**	**30.6**	**30.6**	**27.5**	**36.5**	**21.5**	**71.2**
	East Continental Divide															
	Transfer Services															
6	Unk_ECD_Mrktr to Other Entities	140	139	129	127	135	143	147	140	139	126	126	126	134	147	136
7	**Total Imports From ECD**	**140**	**139**	**129**	**127**	**135**	**143**	**147**	**140**	**139**	**126**	**126**	**126**	**134**	**147**	**136**
	Inland Southwest															
	Transfer Services															
8	RMP to RMP TS PwrP	506	506	464	432	427	461	433	447	420	400	400	447	561	620	468
9	**Total Imports From ISW**	**506**	**506**	**464**	**432**	**427**	**461**	**433**	**447**	**420**	**400**	**400**	**447**	**561**	**620**	**468**
	Pacific Southwest															
	Contracts	**14.8**	**15.4**	**23.0**	**19.4**	**301**	**355**	**267**	**228**	**67.1**	**23.7**	**23.7**	**0.12**	**0**	**10.6**	**108**
10	BARC to PSE PwrS LTFirm	0	0	0	0	75.0	75.0	75.0	75.0	0	0	0	0	0	0	24.7
11	PASA to BPA-P CNX EER	0	0	3.47	3.45	3.60	3.45	3.45	3.50	1.81	0	0	0	0	0	1.88
12	PASA to BPA-P CNX Repl	4.32	4.55	4.38	0.20	0	0	0	0	0	0	0	0	0	0	0.75
13	PASA to BPA-P SNX Ret	0	0	4.61	4.59	4.79	4.59	4.59	4.66	2.41	0	0	0	0	0	2.50
14	RVSD to BPA-P CNX EER	0	0	0	0	16.9	15.6	16.2	16.1	16.2	7.87	7.87	0	0	0	7.34
15	RVSD to BPA-P CNX Repl	10.5	10.8	10.5	11.1	3.00	2.66	2.78	2.68	2.54	2.75	2.75	0.12	0	10.6	4.98
16	RVSD to BPA-P SNX Ret	0	0	0	0	15.9	14.1	15.2	14.6	14.2	6.88	6.88	0	0	0	6.68
17	PG&E to PSE SNX Ret	0	0	0	0	158	209	119	81.0	0	0	0	0	0	0	47.1
18	NCPA to SCL SNX Ret	0	0	0	0	23.7	30.0	30.0	30.0	30.0	6.20	6.20	0	0	0	12.4
19	**Total Imports From PSW**	**14.8**	**15.4**	**23.0**	**19.4**	**301**	**355**	**267**	**228**	**67.1**	**23.7**	**23.7**	**0.12**	**0**	**10.6**	**108**
	Total Imports															
20	Federal Entities	15.8	16.4	104	106	45.2	41.4	43.2	42.6	255	18.5	18.5	1.12	1.00	11.6	57.4
21	Investor Owned Utilities	508	508	466	434	663	748	631	606	422	402	402	449	563	622	543
22	Marketer	140	139	129	127	135	143	147	140	139	126	126	126	134	147	136
23	Municipality	23.0	23.0	13.2	14.3	57.3	78.8	92.1	98.8	91.1	33.6	33.6	24.6	33.9	18.5	48.0
24	**Total Imports**	**687**	**687**	**712**	**681**	**900**	**1011**	**913**	**888**	**908**	**580**	**580**	**600**	**732**	**799**	**784**

Table A-3: Regional: Imports

Operating Year 2016

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW - Contract	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Canada															
	Contracts	**25.8**	**25.8**	**104**	**94.7**	**37.5**	**53.1**	**66.4**	**72.6**	**266**	**46.6**	**46.6**	**27.5**	**36.5**	**21.5**	**71.2**
1	BCHP to SCL PwrS LTFirm	23.0	23.0	13.2	14.3	33.6	48.8	62.1	68.8	61.1	27.4	27.4	24.6	33.9	18.5	35.7
2	BCHP to BPA-P Trty LCALgcyRtn	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
3	BCHP to BPA-P Trty LCARtn	0	0	88.0	77.4	0	0	0	0	202	16.0	16.0	0	0	0	32.1
4	Other Entities to PSE	1.79	1.79	1.75	1.95	2.90	3.34	3.28	2.79	2.70	2.19	2.19	1.86	1.64	2.01	2.35
5	**Total Imports From CAN**	**25.8**	**25.8**	**104**	**94.7**	**37.5**	**53.1**	**66.4**	**72.6**	**266**	**46.6**	**46.6**	**27.5**	**36.5**	**21.5**	**71.2**
	East Continental Divide															
	Transfer Services															
6	Unk_ECD_Mrktr to Other Entities	142	141	130	128	136	144	149	147	141	127	127	127	136	149	138
7	**Total Imports From ECD**	**142**	**141**	**130**	**128**	**136**	**144**	**149**	**147**	**141**	**127**	**127**	**127**	**136**	**149**	**138**
	Inland Southwest															
	Transfer Services															
8	RMP to RMP TS PwrP	514	514	469	436	431	464	436	450	423	403	403	450	567	627	473
9	**Total Imports From ISW**	**514**	**514**	**469**	**436**	**431**	**464**	**436**	**450**	**423**	**403**	**403**	**450**	**567**	**627**	**473**
	Pacific Southwest															
	Contracts	**9.98**	**10.3**	**11.0**	**11.1**	**216**	**272**	**185**	**144**	**62.1**	**23.7**	**23.7**	**0**	**0**	**0**	**77.7**
10	PASA to BPA-P CNX EER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	PASA to BPA-P CNX Repl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	PASA to BPA-P SNX Ret	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	RVSD to BPA-P CNX EER	0	0	0	0	16.4	15.6	16.8	16.0	15.6	7.89	7.89	0	0	0	7.32
14	RVSD to BPA-P CNX Repl	9.98	10.3	11.0	11.1	2.50	2.78	2.66	2.59	2.79	2.75	2.75	0	0	0	4.04
15	RVSD to BPA-P SNX Ret	0	0	0	0	15.4	14.2	15.7	14.5	13.7	6.90	6.90	0	0	0	6.67
16	PG&E to PSE SNX Ret	0	0	0	0	158	209	119	81.0	0	0	0	0	0	0	47.2
17	NCPA to SCL SNX Ret	0	0	0	0	23.7	30.0	30.0	30.0	30.0	6.20	6.20	0	0	0	12.5
18	**Total Imports From PSW**	**9.98**	**10.3**	**11.0**	**11.1**	**216**	**272**	**185**	**144**	**62.1**	**23.7**	**23.7**	**0**	**0**	**0**	**77.7**
	Total Imports															
19	Federal Entities	11.0	11.3	100.0	89.5	35.2	33.6	36.2	34.0	235	34.5	34.5	1.00	1.00	1.00	51.2
20	Investor Owned Utilities	515	515	471	438	591	677	559	534	426	406	406	452	569	629	522
21	Marketer	142	141	130	128	136	144	149	147	141	127	127	127	136	149	138
22	Municipality	23.0	23.0	13.2	14.3	57.3	78.8	92.1	98.8	91.1	33.6	33.6	24.6	33.9	18.5	48.1
23	**Total Imports**	**691**	**690**	**714**	**670**	**820**	**933**	**836**	**814**	**893**	**601**	**601**	**605**	**740**	**797**	**760**

Table A-3: Regional: Imports

Operating Year 2017

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW - Contract	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Canada															
	Contracts	**25.8**	**25.8**	**64.0**	**133**	**37.5**	**53.1**	**66.4**	**72.6**	**274**	**38.7**	**38.5**	**27.5**	**36.5**	**21.5**	**71.2**
1	BCHP to SCL PwrS LTFirm	23.0	23.0	13.2	14.3	33.6	48.8	62.1	68.8	61.1	27.4	27.4	24.6	33.9	18.5	35.6
2	BCHP to BPA-P Trty LCALgcyRtn	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
3	BCHP to BPA-P Trty LCARtn	0	0	48.0	116	0	0	0	0	209	8.08	7.92	0	0	0	32.2
4	Other Entities to PSE	1.79	1.79	1.75	1.95	2.90	3.34	3.28	2.79	2.70	2.19	2.19	1.86	1.64	2.01	2.35
5	**Total Imports From CAN**	**25.8**	**25.8**	**64.0**	**133**	**37.5**	**53.1**	**66.4**	**72.6**	**274**	**38.7**	**38.5**	**27.5**	**36.5**	**21.5**	**71.2**
	East Continental Divide															
	Transfer Services															
6	Unk_ECD_Mrktr to Other Entities	143	143	132	130	138	146	151	144	143	129	128	129	137	151	139
7	**Total Imports From ECD**	**143**	**143**	**132**	**130**	**138**	**146**	**151**	**144**	**143**	**129**	**128**	**129**	**137**	**151**	**139**
	Inland Southwest															
	Transfer Services															
8	RMP to RMP TS PwrP	520	519	473	439	433	467	439	453	426	406	406	453	574	633	476
9	**Total Imports From ISW**	**520**	**519**	**473**	**439**	**433**	**467**	**439**	**453**	**426**	**406**	**406**	**453**	**574**	**633**	**476**
	Pacific Southwest															
	Contracts	**0**	**0**	**0**	**0**	**182**	**239**	**149**	**111**	**30.0**	**6.20**	**6.20**	**0**	**0**	**0**	**59.5**
10	PASA to BPA-P CNX EER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	PASA to BPA-P CNX Repl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	PASA to BPA-P SNX Ret	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	RVSD to BPA-P CNX EER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	RVSD to BPA-P CNX Repl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	RVSD to BPA-P SNX Ret	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	PG&E to PSE SNX Ret	0	0	0	0	158	209	119	81.0	0	0	0	0	0	0	47.1
17	NCPA to SCL SNX Ret	0	0	0	0	23.7	30.0	30.0	30.0	30.0	6.20	6.20	0	0	0	12.4
18	**Total Imports From PSW**	**0**	**0**	**0**	**0**	**182**	**239**	**149**	**111**	**30.0**	**6.20**	**6.20**	**0**	**0**	**0**	**59.5**
	Total Imports															
19	Federal Entities	1.00	1.00	49.0	117	1.00	1.00	1.00	1.00	210	9.08	8.92	1.00	1.00	1.00	33.2
20	Investor Owned Utilities	521	521	474	441	594	679	561	537	429	408	408	455	575	635	526
21	Marketer	143	143	132	130	138	146	151	144	143	129	128	129	137	151	139
22	Municipality	23.0	23.0	13.2	14.3	57.3	78.8	92.1	98.8	91.1	33.6	33.6	24.6	33.9	18.5	48.0
23	**Total Imports**	**688**	**688**	**669**	**702**	**790**	**905**	**805**	**781**	**873**	**580**	**579**	**609**	**747**	**805**	**746**

Table A-3: Regional: Imports

Operating Year 2018

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW - Contract	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Canada															
	Contracts	**25.8**	**25.8**	**72.0**	**126**	**37.5**	**53.1**	**66.4**	**72.6**	**282**	**30.6**	**30.6**	**27.5**	**36.5**	**21.5**	**71.2**
1	BCHP to SCL PwrS LTFirm	23.0	23.0	13.2	14.3	33.6	48.8	62.1	68.8	61.1	27.4	27.4	24.6	33.9	18.5	35.6
2	BCHP to BPA-P Trty LCALgcyRtn	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
3	BCHP to BPA-P Trty LCARtn	0	0	56.0	108	0	0	0	0	217	0	0	0	0	0	32.2
4	Other Entities to PSE	1.79	1.79	1.75	1.95	2.90	3.34	3.28	2.79	2.70	2.19	2.19	1.86	1.64	2.01	2.35
5	**Total Imports From CAN**	**25.8**	**25.8**	**72.0**	**126**	**37.5**	**53.1**	**66.4**	**72.6**	**282**	**30.6**	**30.6**	**27.5**	**36.5**	**21.5**	**71.2**
	East Continental Divide															
	Transfer Services															
6	Unk_ECD_Mrktr to Other Entities	144	144	133	131	139	147	152	145	144	129	130	130	138	152	140
7	**Total Imports From ECD**	**144**	**144**	**133**	**131**	**139**	**147**	**152**	**145**	**144**	**129**	**130**	**130**	**138**	**152**	**140**
	Inland Southwest															
	Transfer Services															
8	RMP to RMP TS PwrP	525	525	476	442	435	469	441	455	429	408	409	456	580	640	480
9	**Total Imports From ISW**	**525**	**525**	**476**	**442**	**435**	**469**	**441**	**455**	**429**	**408**	**409**	**456**	**580**	**640**	**480**
	Pacific Southwest															
	Contracts	**0**	**0**	**0**	**0**	**182**	**239**	**149**	**111**	**30.0**	**6.20**	**6.20**	**0**	**0**	**0**	**59.5**
10	PASA to BPA-P CNX EER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	PASA to BPA-P CNX Repl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	PASA to BPA-P SNX Ret	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	RVSD to BPA-P CNX EER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	RVSD to BPA-P CNX Repl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	RVSD to BPA-P SNX Ret	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	PG&E to PSE SNX Ret	0	0	0	0	158	209	119	81.0	0	0	0	0	0	0	47.1
17	NCPA to SCL SNX Ret	0	0	0	0	23.7	30.0	30.0	30.0	30.0	6.20	6.20	0	0	0	12.4
18	**Total Imports From PSW**	**0**	**0**	**0**	**0**	**182**	**239**	**149**	**111**	**30.0**	**6.20**	**6.20**	**0**	**0**	**0**	**59.5**
	Total Imports															
19	Federal Entities	1.00	1.00	57.0	109	1.00	1.00	1.00	1.00	218	1.00	1.00	1.00	1.00	1.00	33.2
20	Investor Owned Utilities	527	527	478	444	596	682	564	539	431	411	411	458	581	642	529
21	Marketer	144	144	133	131	139	147	152	145	144	129	130	130	138	152	140
22	Municipality	23.0	23.0	13.2	14.3	57.3	78.8	92.1	98.8	91.1	33.6	33.6	24.6	33.9	18.5	48.0
23	**Total Imports**	**695**	**695**	**681**	**698**	**793**	**909**	**809**	**784**	**884**	**574**	**576**	**613**	**755**	**813**	**751**

Table A-3: Regional: Imports

Operating Year 2019

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW - Contract	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Canada															
	Contracts	**25.8**	**25.8**	**80.0**	**118**	**37.5**	**53.1**	**66.4**	**72.6**	**282**	**30.6**	**30.6**	**27.5**	**36.5**	**21.5**	**71.2**
1	BCHP to SCL PwrS LTFirm	23.0	23.0	13.2	14.3	33.6	48.8	62.1	68.8	61.1	27.4	27.4	24.6	33.9	18.5	35.6
2	BCHP to BPA-P Trty LCALgcyRtn	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
3	BCHP to BPA-P Trty LCARtn	0	0	64.0	101	0	0	0	0	217	0	0	0	0	0	32.2
4	Other Entities to PSE	1.79	1.79	1.75	1.95	2.90	3.34	3.28	2.79	2.70	2.19	2.19	1.86	1.64	2.01	2.35
5	**Total Imports From CAN**	**25.8**	**25.8**	**80.0**	**118**	**37.5**	**53.1**	**66.4**	**72.6**	**282**	**30.6**	**30.6**	**27.5**	**36.5**	**21.5**	**71.2**
	East Continental Divide															
	Transfer Services															
6	Unk_ECD_Mrktr to Other Entities	145	145	134	132	140	149	153	146	145	131	131	131	140	153	142
7	**Total Imports From ECD**	**145**	**145**	**134**	**132**	**140**	**149**	**153**	**146**	**145**	**131**	**131**	**131**	**140**	**153**	**142**
	Inland Southwest															
	Transfer Services															
8	RMP to RMP TS PwrP	531	531	479	445	438	472	444	458	432	411	411	459	586	647	484
9	**Total Imports From ISW**	**531**	**531**	**479**	**445**	**438**	**472**	**444**	**458**	**432**	**411**	**411**	**459**	**586**	**647**	**484**
	Pacific Southwest															
	Contracts	**0**	**0**	**0**	**0**	**158**	**209**	**119**	**81.0**	**0**	**0**	**0**	**0**	**0**	**0**	**47.1**
10	PASA to BPA-P CNX EER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	PASA to BPA-P CNX Repl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	PASA to BPA-P SNX Ret	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	RVSD to BPA-P CNX EER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	RVSD to BPA-P CNX Repl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	RVSD to BPA-P SNX Ret	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	PG&E to PSE SNX Ret	0	0	0	0	158	209	119	81.0	0	0	0	0	0	0	47.1
17	**Total Imports From PSW**	**0**	**0**	**0**	**0**	**158**	**209**	**119**	**81.0**	**0**	**0**	**0**	**0**	**0**	**0**	**47.1**
	Total Imports															
18	Federal Entities	1.00	1.00	65.0	102	1.00	1.00	1.00	1.00	218	1.00	1.00	1.00	1.00	1.00	33.2
19	Investor Owned Utilities	533	532	480	447	598	684	566	542	434	413	413	461	588	649	533
20	Marketer	145	145	134	132	140	149	153	146	145	131	131	131	140	153	142
21	Municipality	23.0	23.0	13.2	14.3	33.6	48.8	62.1	68.8	61.1	27.4	27.4	24.6	33.9	18.5	35.6
22	**Total Imports**	**702**	**702**	**693**	**695**	**773**	**883**	**783**	**758**	**858**	**573**	**573**	**617**	**762**	**821**	**743**

Table A-3: Regional: Imports

Operating Year 2020

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW - Contract	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Canada															
	Contracts	**25.8**	**25.8**	**88.0**	**110**	**37.5**	**53.1**	**66.4**	**72.6**	**282**	**30.6**	**30.6**	**27.5**	**36.5**	**21.5**	**71.2**
1	BCHP to SCL PwrS LTFirm	23.0	23.0	13.2	14.3	33.6	48.8	62.1	68.8	61.1	27.4	27.4	24.6	33.9	18.5	35.7
2	BCHP to BPA-P Trty LCALgcyRtn	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
3	BCHP to BPA-P Trty LCARtn	0	0	72.0	92.9	0	0	0	0	217	0	0	0	0	0	32.1
4	Other Entities to PSE	1.79	1.79	1.75	1.95	2.90	3.34	3.28	2.79	2.70	2.19	2.19	1.86	1.64	2.01	2.35
5	**Total Imports From CAN**	**25.8**	**25.8**	**88.0**	**110**	**37.5**	**53.1**	**66.4**	**72.6**	**282**	**30.6**	**30.6**	**27.5**	**36.5**	**21.5**	**71.2**
	East Continental Divide															
	Transfer Services															
6	Unk_ECD_Mrktr to Other Entities	146	147	135	133	141	150	155	153	146	132	132	132	141	154	143
7	**Total Imports From ECD**	**146**	**147**	**135**	**133**	**141**	**150**	**155**	**153**	**146**	**132**	**132**	**132**	**141**	**154**	**143**
	Inland Southwest															
	Transfer Services															
8	RMP to RMP TS PwrP	536	536	482	448	440	474	446	461	434	414	414	462	592	654	487
9	**Total Imports From ISW**	**536**	**536**	**482**	**448**	**440**	**474**	**446**	**461**	**434**	**414**	**414**	**462**	**592**	**654**	**487**
	Pacific Southwest															
	Contracts	**0**	**0**	**0**	**0**	**158**	**209**	**119**	**81.0**	**0**	**0**	**0**	**0**	**0**	**0**	**47.2**
10	PASA to BPA-P CNX EER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	PASA to BPA-P CNX Repl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	PASA to BPA-P SNX Ret	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	RVSD to BPA-P CNX EER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	RVSD to BPA-P CNX Repl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	RVSD to BPA-P SNX Ret	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	PG&E to PSE SNX Ret	0	0	0	0	158	209	119	81.0	0	0	0	0	0	0	47.2
17	**Total Imports From PSW**	**0**	**0**	**0**	**0**	**158**	**209**	**119**	**81.0**	**0**	**0**	**0**	**0**	**0**	**0**	**47.2**
	Total Imports															
18	Federal Entities	1.00	1.00	73.0	93.9	1.00	1.00	1.00	1.00	218	1.00	1.00	1.00	1.00	1.00	33.1
19	Investor Owned Utilities	538	538	483	450	601	687	569	545	437	416	416	464	594	656	537
20	Marketer	146	147	135	133	141	150	155	153	146	132	132	132	141	154	143
21	Municipality	23.0	23.0	13.2	14.3	33.6	48.8	62.1	68.8	61.1	27.4	27.4	24.6	33.9	18.5	35.7
22	**Total Imports**	**709**	**709**	**705**	**691**	**776**	**887**	**786**	**767**	**862**	**576**	**576**	**621**	**770**	**829**	**749**

Table A-3: Regional: Imports

Operating Year 2021

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW - Contract	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Canada															
	Contracts	**25.8**	**25.8**	**104**	**94.7**	**37.5**	**53.1**	**66.4**	**72.6**	**259**	**54.6**	**54.6**	**27.5**	**36.5**	**21.5**	**71.2**
1	BCHP to SCL PwrS LTFirm	23.0	23.0	13.2	14.3	33.6	48.8	62.1	68.8	61.1	27.4	27.4	24.6	33.9	18.5	35.6
2	BCHP to BPA-P Trty LCALgcyRtn	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
3	BCHP to BPA-P Trty LCARtn	0	0	88.0	77.4	0	0	0	0	194	24.0	24.0	0	0	0	32.2
4	Other Entities to PSE	1.79	1.79	1.75	1.95	2.90	3.34	3.28	2.79	2.70	2.19	2.19	1.86	1.64	2.01	2.35
5	**Total Imports From CAN**	**25.8**	**25.8**	**104**	**94.7**	**37.5**	**53.1**	**66.4**	**72.6**	**259**	**54.6**	**54.6**	**27.5**	**36.5**	**21.5**	**71.2**
	East Continental Divide															
	Transfer Services															
6	Unk_ECD_Mrktr to Other Entities	148	147	136	134	142	151	156	149	147	133	133	133	142	156	144
7	**Total Imports From ECD**	**148**	**147**	**136**	**134**	**142**	**151**	**156**	**149**	**147**	**133**	**133**	**133**	**142**	**156**	**144**
	Inland Southwest															
	Transfer Services															
8	RMP to RMP TS PwrP	542	542	485	451	442	477	449	463	437	417	417	465	598	661	491
9	**Total Imports From ISW**	**542**	**542**	**485**	**451**	**442**	**477**	**449**	**463**	**437**	**417**	**417**	**465**	**598**	**661**	**491**
	Pacific Southwest															
	Contracts	**0**	**0**	**0**	**0**	**158**	**209**	**119**	**81.0**	**0**	**0**	**0**	**0**	**0**	**0**	**47.1**
10	PASA to BPA-P CNX EER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	PASA to BPA-P CNX Repl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	PASA to BPA-P SNX Ret	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	RVSD to BPA-P CNX EER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	RVSD to BPA-P CNX Repl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	RVSD to BPA-P SNX Ret	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	PG&E to PSE SNX Ret	0	0	0	0	158	209	119	81.0	0	0	0	0	0	0	47.1
17	**Total Imports From PSW**	**0**	**0**	**0**	**0**	**158**	**209**	**119**	**81.0**	**0**	**0**	**0**	**0**	**0**	**0**	**47.1**
	Total Imports															
18	Federal Entities	1.00	1.00	89.0	78.4	1.00	1.00	1.00	1.00	195	25.0	25.0	1.00	1.00	1.00	33.2
19	Investor Owned Utilities	544	544	487	453	603	690	571	547	439	419	419	467	600	663	540
20	Marketer	148	147	136	134	142	151	156	149	147	133	133	133	142	156	144
21	Municipality	23.0	23.0	13.2	14.3	33.6	48.8	62.1	68.8	61.1	27.4	27.4	24.6	33.9	18.5	35.6
22	**Total Imports**	**716**	**715**	**725**	**679**	**780**	**890**	**790**	**765**	**843**	**604**	**604**	**625**	**777**	**838**	**753**

Table A-3: Regional: Imports

Operating Year 2022

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW - Contract	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Canada															
	Contracts	**25.8**	**25.8**	**112**	**86.9**	**37.5**	**53.1**	**66.4**	**72.6**	**266**	**46.6**	**46.6**	**27.5**	**36.5**	**21.5**	**71.2**
1	BCHP to SCL PwrS LTFirm	23.0	23.0	13.2	14.3	33.6	48.8	62.1	68.8	61.1	27.4	27.4	24.6	33.9	18.5	35.6
2	BCHP to BPA-P Trty LCALgcyRtn	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
3	BCHP to BPA-P Trty LCARtn	0	0	96.0	69.7	0	0	0	0	202	16.0	16.0	0	0	0	32.2
4	Other Entities to PSE	1.79	1.79	1.75	1.95	2.90	3.34	3.28	2.79	2.70	2.19	2.19	1.86	1.64	2.01	2.35
5	**Total Imports From CAN**	**25.8**	**25.8**	**112**	**86.9**	**37.5**	**53.1**	**66.4**	**72.6**	**266**	**46.6**	**46.6**	**27.5**	**36.5**	**21.5**	**71.2**
	East Continental Divide															
	Transfer Services															
6	Unk_ECD_Mrktr to Other Entities	148	149	138	135	144	152	157	150	149	134	134	134	143	157	145
7	**Total Imports From ECD**	**148**	**149**	**138**	**135**	**144**	**152**	**157**	**150**	**149**	**134**	**134**	**134**	**143**	**157**	**145**
	Inland Southwest															
	Transfer Services															
8	RMP to RMP TS PwrP	548	548	488	454	445	480	451	466	440	419	419	468	605	667	494
9	**Total Imports From ISW**	**548**	**548**	**488**	**454**	**445**	**480**	**451**	**466**	**440**	**419**	**419**	**468**	**605**	**667**	**494**
	Pacific Southwest															
	Contracts	**0**	**0**	**0**	**0**	**158**	**209**	**119**	**81.0**	**0**	**0**	**0**	**0**	**0**	**0**	**47.1**
10	PASA to BPA-P CNX EER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	PASA to BPA-P CNX Repl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	PASA to BPA-P SNX Ret	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	RVSD to BPA-P CNX EER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	RVSD to BPA-P CNX Repl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	RVSD to BPA-P SNX Ret	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	PG&E to PSE SNX Ret	0	0	0	0	158	209	119	81.0	0	0	0	0	0	0	47.1
17	**Total Imports From PSW**	**0**	**0**	**0**	**0**	**158**	**209**	**119**	**81.0**	**0**	**0**	**0**	**0**	**0**	**0**	**47.1**
	Total Imports															
18	Federal Entities	1.00	1.00	97.0	70.7	1.00	1.00	1.00	1.00	203	17.0	17.0	1.00	1.00	1.00	33.2
19	Investor Owned Utilities	550	550	490	456	606	692	574	550	442	421	421	470	606	669	544
20	Marketer	148	149	138	135	144	152	157	150	149	134	134	134	143	157	145
21	Municipality	23.0	23.0	13.2	14.3	33.6	48.8	62.1	68.8	61.1	27.4	27.4	24.6	33.9	18.5	35.6
22	**Total Imports**	**722**	**723**	**737**	**676**	**784**	**894**	**794**	**769**	**855**	**600**	**600**	**629**	**784**	**846**	**758**

Table A-3: Regional: Imports

Operating Year 2023

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW - Contract	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Canada															
	Contracts	**25.8**	**25.8**	**64.0**	**133**	**37.5**	**53.1**	**66.4**	**72.6**	**274**	**38.7**	**38.5**	**27.5**	**36.5**	**21.5**	**71.2**
1	BCHP to SCL PwrS LTFirm	23.0	23.0	13.2	14.3	33.6	48.8	62.1	68.8	61.1	27.4	27.4	24.6	33.9	18.5	35.6
2	BCHP to BPA-P Trty LCALgcyRtn	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
3	BCHP to BPA-P Trty LCARtn	0	0	48.0	116	0	0	0	0	209	8.08	7.92	0	0	0	32.2
4	Other Entities to PSE	1.79	1.79	1.75	1.95	2.90	3.34	3.28	2.79	2.70	2.19	2.19	1.86	1.64	2.01	2.35
5	**Total Imports From CAN**	**25.8**	**25.8**	**64.0**	**133**	**37.5**	**53.1**	**66.4**	**72.6**	**274**	**38.7**	**38.5**	**27.5**	**36.5**	**21.5**	**71.2**
	East Continental Divide															
	Transfer Services															
6	Unk_ECD_Mrktr to Other Entities	150	150	139	136	145	154	159	151	150	136	135	135	144	158	146
7	**Total Imports From ECD**	**150**	**150**	**139**	**136**	**145**	**154**	**159**	**151**	**150**	**136**	**135**	**135**	**144**	**158**	**146**
	Inland Southwest															
	Transfer Services															
8	RMP to RMP TS PwrP	554	554	491	457	447	483	453	468	443	422	422	471	611	674	498
9	**Total Imports From ISW**	**554**	**554**	**491**	**457**	**447**	**483**	**453**	**468**	**443**	**422**	**422**	**471**	**611**	**674**	**498**
	Pacific Southwest															
	Contracts	**0**	**0**	**0**	**0**	**158**	**209**	**119**	**81.0**	**0**	**0**	**0**	**0**	**0**	**0**	**47.1**
10	PASA to BPA-P CNX EER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	PASA to BPA-P CNX Repl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	PASA to BPA-P SNX Ret	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	RVSD to BPA-P CNX EER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	RVSD to BPA-P CNX Repl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	RVSD to BPA-P SNX Ret	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	PG&E to PSE SNX Ret	0	0	0	0	158	209	119	81.0	0	0	0	0	0	0	47.1
17	**Total Imports From PSW**	**0**	**0**	**0**	**0**	**158**	**209**	**119**	**81.0**	**0**	**0**	**0**	**0**	**0**	**0**	**47.1**
	Total Imports															
18	Federal Entities	1.00	1.00	49.0	117	1.00	1.00	1.00	1.00	210	9.08	8.92	1.00	1.00	1.00	33.2
19	Investor Owned Utilities	556	555	493	459	608	695	576	552	445	424	424	473	612	677	548
20	Marketer	150	150	139	136	145	154	159	151	150	136	135	135	144	158	146
21	Municipality	23.0	23.0	13.2	14.3	33.6	48.8	62.1	68.8	61.1	27.4	27.4	24.6	33.9	18.5	35.6
22	**Total Imports**	**730**	**729**	**694**	**726**	**787**	**898**	**798**	**773**	**867**	**597**	**595**	**634**	**791**	**854**	**763**

THIS PAGE INTENTIONALLY LEFT BLANK

Exhibit 24
Table A-4: Regional Intra-Regional Transfers

Monthly Energy
Operating Year 2014 to 2023
Using 1937-Water Conditions

Table A-4: Regional: Intra-Regional Transfers

Operating Year 2014

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Intra-Regional Transfers															
	Contracts	**865**	**867**	**993**	**718**	**1054**	**947**	**962**	**958**	**879**	**884**	**884**	**540**	**668**	**504**	**830**
1	AVWP to BPA-P Setl WNP3 Rtn	0	0	57.5	54.2	54.7	57.0	54.2	55.4	56.9	54.6	54.6	0	57.5	0	41.6
2	AVWP to PGE CapX Del	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6
3	BPA-P to AVWP Setl WNP3 Del	0	0	0	0	101	101	101	101	50.6	50.5	50.5	0	0	0	41.7
4	BPA-P to BPA-T Ops IntrlAgmt	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00
5	BPA-P to Other Entities	217	219	147	0	0	0	41.9	42.9	42.0	43.3	43.3	41.9	41.7	0	51.5
6	BPA-P to PPL SNX SprgDel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	BPA-P to PPL SNX SumrDel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	BPA-P to PSE Ops UBkr Repl	0	0	0	0	3.89	3.77	3.92	4.01	0	0	0	0	0	0	1.28
9	BPA-P to PSE Setl WNP3 Del	0	0	0	0	101	101	101	101	50.6	50.5	50.5	0	0	0	41.7
10	CIDF to RMP PwrS LTFirm	14.6	14.6	0.30	0	0	0	0	0	0	0	0	12.0	18.4	20.0	5.48
11	CLAT to IPC NX Ret	7.00	7.00	4.00	0	0	4.00	5.00	6.00	0	0	0	10.00	11.0	10.00	4.75
12	DOPD to Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	EWEB to PGE CapX Del	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	0	0	2.50
14	GCPD to PPL PwrS LTFirm	12.8	12.8	9.90	7.90	6.60	8.20	8.60	7.20	7.80	10.3	10.3	12.6	13.9	13.8	9.99
15	GHPD to GHP PwrS LTFirm	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
16	IPC to CLAT NX Del	0	0	0	19.0	17.0	0	0	0	13.0	11.0	11.0	0	0	0	5.02
17	JPMV to BPA-P PwrP T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	NWE to MVP PwrS LTFirm	11.2	11.2	11.2	11.2	7.47	7.47	7.47	7.47	7.47	11.2	11.2	11.2	11.2	11.2	9.66
19	Other Entities to BPA-P	199	199	212	68.9	206	197	173	169	183	196	196	49.9	59.9	51.4	147
20	Other Entities to COPD	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
21	Other Entities to DOPD	16.0	16.0	16.0	24.0	24.3	24.3	25.2	22.4	24.0	16.0	16.0	16.0	16.0	16.0	20.0
22	Other Entities to Other Entities	4.28	4.28	3.39	2.99	2.86	2.93	3.11	3.18	3.05	2.83	2.83	3.29	3.73	4.33	3.33
23	Other Entities to PGE	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1
24	PGE to AVWP CapX Repl	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6
25	PGE to EWEB CapX Repl	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	0	0	2.50
26	PGE to PPL PwrS LTFirm	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
27	PPL to BPA-P SNX SprgRtn	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	PPL to BPA-P SNX SumrRtn	0	0	91.6	91.6	91.5	0	0	0	0	0	0	0	0	0	22.8
29	PSE to AVWP PwrS LTFirm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	PSE to BPA-P Setl WNP3 Rtn	0	0	57.5	54.2	54.7	57.0	54.2	55.4	56.9	54.6	54.6	0	57.5	0	41.6
31	SCL to POPD PwrS LTFirm	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7
32	SPN to PGE PwrS LTFirm	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104
33	TAUC to AVWP PwrS LTFirm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	**Total Intra-Regional Transfers**	**865**	**867**	**993**	**718**	**1054**	**947**	**962**	**958**	**879**	**884**	**884**	**540**	**668**	**504**	**830**
	Intra-Regional Contracts Out															
35	Federal Entities	226	228	156	9.00	215	215	257	258	152	153	153	50.9	50.7	9.00	145
36	Investor Owned Utilities	249	248	430	438	429	320	319	314	348	353	353	231	354	231	334
37	Marketer	295	295	331	201	342	339	311	311	310	306	306	162	162	162	269
38	Municipality	61.5	61.5	47.2	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	58.9	62.3	63.9	51.9
39	Public Utility District	34.5	34.5	28.6	22.6	21.3	26.9	28.3	27.9	22.5	25.0	25.0	37.3	39.6	38.5	29.4
40	**Total Regional Contracts Out**	**865**	**867**	**993**	**718**	**1054**	**947**	**962**	**958**	**879**	**884**	**884**	**540**	**668**	**504**	**830**
	Intra-Regional Contracts In															
41	Federal Entities	219	219	438	289	423	328	298	296	314	325	325	70.1	195	71.6	271
42	Investor Owned Utilities	352	353	303	297	501	507	523	523	412	401	401	324	329	330	399
43	Marketer	202	204	161	14.7	14.7	14.7	42.7	43.3	42.7	58.0	58.0	56.6	56.4	14.7	60.3
44	Municipality	7.28	7.28	6.39	5.99	5.86	5.93	6.11	6.18	6.05	5.83	5.83	6.29	3.73	4.33	5.83
45	Public Utility District	83.7	83.7	83.7	111	109	92.0	92.9	90.1	105	94.7	94.7	83.7	83.7	83.7	92.7
46	**Total Regional Contracts In**	**865**	**867**	**993**	**718**	**1054**	**947**	**962**	**958**	**879**	**884**	**884**	**540**	**668**	**504**	**830**

Table A-4: Regional: Intra-Regional Transfers

Operating Year 2015

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Intra-Regional Transfers															
	Contracts	**501**	**501**	**577**	**649**	**849**	**828**	**835**	**827**	**752**	**750**	**750**	**550**	**680**	**562**	**695**
1	AVWP to BPA-P Setl WNP3 Rtn	0	0	55.2	54.8	58.2	54.8	54.8	56.0	57.6	55.2	55.2	0	55.2	0	41.6
2	AVWP to PGE CapX Del	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6
3	BPA-P to AVWP Setl WNP3 Del	0	0	0	0	101	101	101	101	50.6	50.5	50.5	0	0	0	41.7
4	BPA-P to BPA-T Ops IntrlAgmt	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00
5	BPA-P to Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	BPA-P to PPL SNX SprgDel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	BPA-P to PPL SNX SumrDel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	BPA-P to PSE Ops UBkr Repl	0	0	0	0	3.74	3.92	3.92	4.01	0	0	0	0	0	0	1.28
9	BPA-P to PSE Setl WNP3 Del	0	0	0	0	101	101	101	101	50.6	50.5	50.5	0	0	0	41.7
10	CIDF to RMP PwrS LTFirm	14.8	14.8	0	0	0	0	0	0	0	0	0	11.8	18.6	19.9	5.48
11	CLAT to IPC NX Ret	7.00	7.00	4.00	0	0	4.00	5.00	6.00	0	0	0	10.00	11.0	10.00	4.75
12	DOPD to Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	EWEB to PGE CapX Del	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	GCPD to PPL PwrS LTFirm	12.8	12.8	9.90	7.90	6.60	8.20	8.60	7.40	7.80	10.3	10.3	12.6	13.9	13.8	10.0
15	GHPD to GHP PwrS LTFirm	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
16	IPC to CLAT NX Del	0	0	0	19.0	17.0	0	0	0	13.0	11.0	11.0	0	0	0	5.02
17	JPMV to BPA-P PwrP T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	NWE to MVP PwrS LTFirm	11.2	11.2	11.2	11.2	7.47	7.47	7.47	7.47	7.47	11.2	11.2	11.2	11.2	11.2	9.66
19	Other Entities to BPA-P	55.6	55.7	42.4	93.4	90.0	84.0	89.2	82.0	99.5	107	107	106	116	107	89.5
20	Other Entities to COPD	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
21	Other Entities to DOPD	18.0	18.0	18.0	27.0	26.1	28.2	28.2	25.1	27.0	18.0	18.0	18.0	18.0	18.0	22.5
22	Other Entities to Other Entities	4.28	4.28	3.39	2.99	2.86	2.93	3.11	3.18	3.05	2.83	2.83	3.29	3.73	4.33	3.33
23	Other Entities to PGE	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1
24	PGE to AVWP CapX Repl	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6
25	PGE to EWEB CapX Repl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	PGE to PPL PwrS LTFirm	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
27	PPL to BPA-P SNX SprgRtn	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	PPL to BPA-P SNX SumrRtn	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	PSE to AVWP PwrS LTFirm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	PSE to BPA-P Setl WNP3 Rtn	0	0	55.2	54.8	58.2	54.8	54.8	56.0	57.6	55.2	55.2	0	55.2	0	41.6
31	SCL to POPD PwrS LTFirm	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7
32	SPN to PGE PwrS LTFirm	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104
33	TAUC to AVWP PwrS LTFirm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	**Total Intra-Regional Transfers**	**501**	**501**	**577**	**649**	**849**	**828**	**835**	**827**	**752**	**750**	**750**	**550**	**680**	**562**	**695**
	Intra-Regional Contracts Out															
35	Federal Entities	9.00	9.00	9.00	9.00	214	215	215	215	110	110	110	9.00	9.00	9.00	93.6
36	Investor Owned Utilities	235	235	331	344	342	312	317	313	346	351	351	228	349	231	308
37	Marketer	164	164	164	229	228	230	230	227	229	220	220	220	220	220	215
38	Municipality	58.7	58.7	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	55.7	62.5	63.8	49.4
39	Public Utility District	34.5	34.5	28.6	22.6	21.3	26.9	28.3	28.1	22.5	25.0	25.0	37.3	39.6	38.5	29.5
40	**Total Regional Contracts Out**	**501**	**501**	**577**	**649**	**849**	**828**	**835**	**827**	**752**	**750**	**750**	**550**	**680**	**562**	**695**
	Intra-Regional Contracts In															
41	Federal Entities	75.8	75.9	173	223	223	210	215	211	231	238	238	126	246	128	191
42	Investor Owned Utilities	321	321	300	294	498	504	506	506	395	398	398	321	330	330	391
43	Marketer	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
44	Municipality	4.28	4.28	3.39	2.99	2.86	2.93	3.11	3.18	3.05	2.83	2.83	3.29	3.73	4.33	3.33
45	Public Utility District	85.7	85.7	85.7	114	111	95.9	95.9	92.8	108	96.7	96.7	85.7	85.7	85.7	95.2
46	**Total Regional Contracts In**	**501**	**501**	**577**	**649**	**849**	**828**	**835**	**827**	**752**	**750**	**750**	**550**	**680**	**562**	**695**

Table A-4: Regional: Intra-Regional Transfers

Operating Year 2016

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Intra-Regional Transfers															
	Contracts	**559**	**559**	**636**	**639**	**840**	**819**	**825**	**812**	**723**	**728**	**728**	**530**	**659**	**541**	**692**
1	AVWP to BPA-P Setl WNP3 Rtn	0	0	55.4	55.1	58.4	55.1	57.9	55.8	54.9	55.4	55.4	0	55.4	0	41.7
2	AVWP to PGE CapX Del	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6
3	BPA-P to AVWP Setl WNP3 Del	0	0	0	0	101	101	101	101	50.6	50.5	50.5	0	0	0	41.8
4	BPA-P to BPA-T Ops IntrlAgmt	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00
5	BPA-P to Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	BPA-P to PPL SNX SprgDel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	BPA-P to PPL SNX SumrDel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	BPA-P to PSE Ops UBkr Repl	0	0	0	0	3.74	3.92	3.77	4.03	0	0	0	0	0	0	1.28
9	BPA-P to PSE Setl WNP3 Del	0	0	0	0	101	101	101	101	50.6	50.5	50.5	0	0	0	41.8
10	CIDF to RMP PwrS LTFirm	14.6	14.6	0.25	0	0	0	0	0	0	0	0	11.9	18.5	19.8	5.46
11	CLAT to IPC NX Ret	7.00	7.00	4.00	0	0	4.00	0	0	0	0	0	0	0	0	1.26
12	DOPD to Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	EWEB to PGE CapX Del	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	GCPD to PPL PwrS LTFirm	12.8	12.8	9.90	7.90	6.60	8.20	8.60	7.40	7.80	10.3	10.3	12.6	13.9	13.8	10.00
15	GHPD to GHP PwrS LTFirm	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
16	IPC to CLAT NX Del	0	0	0	19.0	17.0	0	0	0	0	0	0	0	0	0	3.00
17	JPMV to BPA-P PwrP T2	0	0	0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	42.5
18	NWE to MVP PwrS LTFirm	11.2	11.2	11.2	11.2	7.47	7.47	7.47	7.47	7.47	11.2	11.2	11.2	11.2	11.2	9.65
19	Other Entities to BPA-P	112	112	98.4	29.4	26.0	20.0	25.1	18.0	35.5	43.5	43.5	41.9	51.8	43.6	45.4
20	Other Entities to COPD	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
21	Other Entities to DOPD	20.0	20.0	20.0	30.0	29.4	31.8	30.6	29.4	30.0	20.0	20.0	20.0	20.0	20.0	25.1
22	Other Entities to Other Entities	4.28	4.28	3.39	2.99	2.86	2.93	3.11	3.18	3.05	2.83	2.83	3.29	3.73	4.33	3.33
23	Other Entities to PGE	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1
24	PGE to AVWP CapX Repl	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6
25	PGE to EWEB CapX Repl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	PGE to PPL PwrS LTFirm	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
27	PPL to BPA-P SNX SprgRtn	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	PPL to BPA-P SNX SumrRtn	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	PSE to AVWP PwrS LTFirm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	PSE to BPA-P Setl WNP3 Rtn	0	0	55.4	55.1	58.4	55.1	57.9	55.8	54.9	55.4	55.4	0	55.4	0	41.7
31	SCL to POPD PwrS LTFirm	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7
32	SPN to PGE PwrS LTFirm	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104
33	TAUC to AVWP PwrS LTFirm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	**Total Intra-Regional Transfers**	**559**	**559**	**636**	**639**	**840**	**819**	**825**	**812**	**723**	**728**	**728**	**530**	**659**	**541**	**692**
	Intra-Regional Contracts Out															
35	Federal Entities	9.00	9.00	9.00	9.00	214	215	215	215	110	110	110	9.00	9.00	9.00	93.9
36	Investor Owned Utilities	235	235	332	345	342	313	323	312	328	340	340	228	350	231	306
37	Marketer	222	222	222	219	218	221	220	218	219	209	209	209	209	209	216
38	Municipality	58.5	58.5	44.2	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	55.8	62.4	63.7	49.4
39	Public Utility District	34.5	34.5	28.6	22.6	21.3	26.9	23.3	22.1	22.5	25.0	25.0	27.3	28.6	28.5	26.0
40	**Total Regional Contracts Out**	**559**	**559**	**636**	**639**	**840**	**819**	**825**	**812**	**723**	**728**	**728**	**530**	**659**	**541**	**692**
	Intra-Regional Contracts In															
41	Federal Entities	132	132	229	211	210	198	208	197	213	226	226	113	234	115	190
42	Investor Owned Utilities	321	321	300	294	498	504	501	500	395	397	397	311	319	320	388
43	Marketer	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
44	Municipality	4.28	4.28	3.39	2.99	2.86	2.93	3.11	3.18	3.05	2.83	2.83	3.29	3.73	4.33	3.33
45	Public Utility District	87.7	87.7	87.7	117	114	99.5	98.3	97.1	97.7	87.7	87.7	87.7	87.7	87.7	95.8
46	**Total Regional Contracts In**	**559**	**559**	**636**	**639**	**840**	**819**	**825**	**812**	**723**	**728**	**728**	**530**	**659**	**541**	**692**

Table A-4: Regional: Intra-Regional Transfers

Operating Year 2017

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Intra-Regional Transfers															
	Contracts	**526**	**526**	**605**	**521**	**713**	**709**	**630**	**618**	**529**	**539**	**552**	**342**	**470**	**354**	**546**
1	AVWP to BPA-P Setl WNP3 Rtn	0	0	54.9	57.3	55.0	54.5	57.3	55.7	54.4	54.9	60.7	0	54.9	0	41.6
2	AVWP to PGE CapX Del	44.6	44.6	44.6	44.6	44.6	44.6	0	0	0	0	0	0	0	0	18.7
3	BPA-P to AVWP Setl WNP3 Del	0	0	0	0	101	101	101	101	50.6	50.1	50.9	0	0	0	41.6
4	BPA-P to BPA-T Ops IntrlAgmt	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00
5	BPA-P to Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	BPA-P to PPL SNX SprgDel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	BPA-P to PPL SNX SumrDel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	BPA-P to PSE Ops UBkr Repl	0	0	0	0	3.89	3.92	3.77	4.01	0	0	0	0	0	0	1.28
9	BPA-P to PSE Setl WNP3 Del	0	0	0	0	101	101	101	101	50.6	50.1	50.9	0	0	0	41.6
10	CIDF to RMP PwrS LTFirm	14.6	14.6	0.25	0	0	0	0	0	0	0	0	11.9	18.5	19.8	5.47
11	CLAT to IPC NX Ret	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	DOPD to Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	EWEB to PGE CapX Del	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	GCPD to PPL PwrS LTFirm	12.8	12.8	9.90	7.90	6.60	8.20	8.60	7.40	7.80	10.3	10.3	12.6	13.9	13.8	10.0
15	GHPD to GHP PwrS LTFirm	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
16	IPC to CLAT NX Del	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	JPMV to BPA-P PwrP T2	51.0	51.0	51.0	0	0	0	0	0	0	0	0	0	0	0	8.52
18	NWE to MVP PwrS LTFirm	11.2	11.2	11.2	11.2	7.47	7.47	7.47	7.47	7.47	11.2	11.2	11.2	11.2	11.2	9.66
19	Other Entities to BPA-P	47.5	47.5	34.4	87.4	83.9	78.0	83.1	76.0	93.5	101	101	99.9	110	102	83.1
20	Other Entities to COPD	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
21	Other Entities to DOPD	7.00	7.00	7.00	11.0	11.0	11.4	11.0	10.1	11.0	7.00	7.00	7.00	7.00	7.00	8.96
22	Other Entities to Other Entities	4.28	4.28	3.39	2.99	2.86	2.93	3.11	3.18	3.05	2.83	2.83	3.29	3.73	4.33	3.33
23	Other Entities to PGE	92.1	92.1	92.1	0	0	0	0	0	0	0	0	0	0	0	15.4
24	PGE to AVWP CapX Repl	44.6	44.6	44.6	44.6	44.6	44.6	0	0	0	0	0	0	0	0	18.7
25	PGE to EWEB CapX Repl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	PGE to PPL PwrS LTFirm	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
27	PPL to BPA-P SNX SprgRtn	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	PPL to BPA-P SNX SumrRtn	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	PSE to AVWP PwrS LTFirm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	PSE to BPA-P Setl WNP3 Rtn	0	0	54.9	57.3	55.0	54.5	57.3	55.7	54.4	54.9	60.7	0	54.9	0	41.6
31	SCL to POPD PwrS LTFirm	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7
32	SPN to PGE PwrS LTFirm	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104
33	TAUC to AVWP PwrS LTFirm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	**Total Intra-Regional Transfers**	**526**	**526**	**605**	**521**	**713**	**709**	**630**	**618**	**529**	**539**	**552**	**342**	**470**	**354**	**546**
	Intra-Regional Contracts Out															
35	Federal Entities	9.00	9.00	9.00	9.00	215	215	215	215	110	109	111	9.00	9.00	9.00	93.6
36	Investor Owned Utilities	235	235	331	238	226	219	141	131	146	158	169	47.1	167	49.8	174
37	Marketer	196	196	196	207	207	207	207	206	207	203	203	203	203	203	204
38	Municipality	58.5	58.5	44.2	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	55.8	62.4	63.7	49.4
39	Public Utility District	27.5	27.5	24.6	22.6	21.3	22.9	23.3	22.1	22.5	25.0	25.0	27.3	28.6	28.5	24.7
40	**Total Regional Contracts Out**	**526**	**526**	**605**	**521**	**713**	**709**	**630**	**618**	**529**	**539**	**552**	**342**	**470**	**354**	**546**
	Intra-Regional Contracts In															
41	Federal Entities	119	119	215	222	210	204	214	204	219	231	243	120	240	122	193
42	Investor Owned Utilities	314	314	296	202	406	408	319	318	214	215	217	129	137	138	258
43	Marketer	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
44	Municipality	4.28	4.28	3.39	2.99	2.86	2.93	3.11	3.18	3.05	2.83	2.83	3.29	3.73	4.33	3.33
45	Public Utility District	74.7	74.7	74.7	78.7	78.7	79.1	78.7	77.8	78.7	74.7	74.7	74.7	74.7	74.7	76.7
46	**Total Regional Contracts In**	**526**	**526**	**605**	**521**	**713**	**709**	**630**	**618**	**529**	**539**	**552**	**342**	**470**	**354**	**546**

Table A-4: Regional: Intra-Regional Transfers

Operating Year 2018

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Intra-Regional Transfers															
	Contracts	**345**	**345**	**368**	**386**	**565**	**563**	**566**	**559**	**471**	**491**	**484**	**342**	**415**	**354**	**451**
1	AVWP to BPA-P Setl WNP3 Rtn	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	AVWP to PGE CapX Del	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	BPA-P to AVWP Setl WNP3 Del	0	0	0	0	101	101	101	101	50.6	50.9	50.1	0	0	0	41.6
4	BPA-P to BPA-T Ops IntrlAgmt	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00
5	BPA-P to Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	BPA-P to PPL SNX SprgDel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	BPA-P to PPL SNX SumrDel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	BPA-P to PSE Ops UBkr Repl	0	0	0	0	3.89	3.77	3.92	4.01	0	0	0	0	0	0	1.28
9	BPA-P to PSE Setl WNP3 Del	0	0	0	0	101	101	101	101	50.6	50.9	50.1	0	0	0	41.6
10	CIDF to RMP PwrS LTFirm	14.6	14.6	0.25	0	0	0	0	0	0	0	0	11.9	18.5	19.8	5.47
11	CLAT to IPC NX Ret	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	DOPD to Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	EWEB to PGE CapX Del	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	GCPD to PPL PwrS LTFirm	12.8	12.8	9.90	7.90	6.60	8.20	8.60	7.20	7.80	10.3	10.3	12.6	13.9	13.8	9.99
15	GHPD to GHP PwrS LTFirm	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
16	IPC to CLAT NX Del	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	JPMV to BPA-P PwrP T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	NWE to MVP PwrS LTFirm	11.2	11.2	11.2	11.2	7.47	7.47	7.47	7.47	7.47	11.2	11.2	11.2	11.2	11.2	9.66
19	Other Entities to BPA-P	105	105	92.4	110	90.9	85.1	90.2	83.0	101	108	108	107	117	109	100.0
20	Other Entities to COPD	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
21	Other Entities to DOPD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	Other Entities to Other Entities	4.28	4.28	3.39	2.99	2.86	2.93	3.11	3.18	3.05	2.83	2.83	3.29	3.73	4.33	3.33
23	Other Entities to PGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	PGE to AVWP CapX Repl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	PGE to EWEB CapX Repl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	PGE to PPL PwrS LTFirm	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
27	PPL to BPA-P SNX SprgRtn	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	PPL to BPA-P SNX SumrRtn	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	PSE to AVWP PwrS LTFirm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	PSE to BPA-P Setl WNP3 Rtn	0	0	54.9	57.3	55.0	57.3	54.5	55.7	54.4	60.7	54.9	0	54.9	0	41.6
31	SCL to POPD PwrS LTFirm	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7
32	SPN to PGE PwrS LTFirm	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104
33	TAUC to AVWP PwrS LTFirm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	**Total Intra-Regional Transfers**	**345**	**345**	**368**	**386**	**565**	**563**	**566**	**559**	**471**	**491**	**484**	**342**	**415**	**354**	**451**
	Intra-Regional Contracts Out															
35	Federal Entities	9.00	9.00	9.00	9.00	215	215	215	215	110	111	109	9.00	9.00	9.00	93.6
36	Investor Owned Utilities	53.7	53.6	94.6	91.6	81.9	78.6	81.0	75.0	91.2	109	103	47.1	112	49.8	80.1
37	Marketer	196	196	196	219	203	203	203	203	203	203	203	203	203	203	203
38	Municipality	58.5	58.5	44.2	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	55.8	62.4	63.7	49.4
39	Public Utility District	27.5	27.5	24.6	22.6	21.3	22.9	23.3	21.9	22.5	25.0	25.0	27.3	28.6	28.5	24.7
40	**Total Regional Contracts Out**	**345**	**345**	**368**	**386**	**565**	**563**	**566**	**559**	**471**	**491**	**484**	**342**	**415**	**354**	**451**
	Intra-Regional Contracts In															
41	Federal Entities	126	126	167	188	162	159	161	155	171	189	184	127	192	129	160
42	Investor Owned Utilities	132	132	115	113	317	319	319	318	214	217	215	129	137	138	205
43	Marketer	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
44	Municipality	4.28	4.28	3.39	2.99	2.86	2.93	3.11	3.18	3.05	2.83	2.83	3.29	3.73	4.33	3.33
45	Public Utility District	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
46	**Total Regional Contracts In**	**345**	**345**	**368**	**386**	**565**	**563**	**566**	**559**	**471**	**491**	**484**	**342**	**415**	**354**	**451**

Table A-4: Regional: Intra-Regional Transfers

Operating Year 2019

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Intra-Regional Transfers															
	Contracts	**352**	**352**	**378**	**371**	**367**	**365**	**368**	**356**	**350**	**353**	**353**	**313**	**379**	**323**	**356**
1	AVWP to BPA-P Setl WNP3 Rtn	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	AVWP to PGE CapX Del	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	BPA-P to AVWP Setl WNP3 Del	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	BPA-P to BPA-T Ops IntrlAgmt	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00
5	BPA-P to Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	BPA-P to PPL SNX SprgDel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	BPA-P to PPL SNX SumrDel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	BPA-P to PSE Ops UBkr Repl	0	0	0	0	3.89	3.77	3.92	4.01	0	0	0	0	0	0	1.28
9	BPA-P to PSE Setl WNP3 Del	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	CIDF to RMP PwrS LTFirm	14.6	14.6	0.25	0	0	0	0	0	0	0	0	11.9	18.5	19.8	5.47
11	CLAT to IPC NX Ret	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	DOPD to Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	EWEB to PGE CapX Del	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	GCPD to PPL PwrS LTFirm	12.8	12.8	9.90	7.90	6.60	8.20	8.60	7.40	7.80	10.3	10.3	12.6	13.9	13.8	10.0
15	GHPD to GHP PwrS LTFirm	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
16	IPC to CLAT NX Del	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	JPMV to BPA-P PwrP T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	NWE to MVP PwrS LTFirm	11.2	11.2	11.2	11.2	7.47	7.47	7.47	7.47	7.47	11.2	11.2	11.2	11.2	11.2	9.66
19	Other Entities to BPA-P	112	112	99.3	98.4	94.9	89.1	94.2	82.5	78.0	78.0	78.0	78.0	78.0	78.0	88.5
20	Other Entities to COPD	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
21	Other Entities to DOPD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	Other Entities to Other Entities	4.28	4.28	3.39	2.99	2.86	2.93	3.11	3.18	3.05	2.83	2.83	3.29	3.73	4.33	3.33
23	Other Entities to PGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	PGE to AVWP CapX Repl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	PGE to EWEB CapX Repl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	PGE to PPL PwrS LTFirm	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
27	PPL to BPA-P SNX SprgRtn	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	PPL to BPA-P SNX SumrRtn	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	PSE to AVWP PwrS LTFirm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	PSE to BPA-P Setl WNP3 Rtn	0	0	57.5	54.2	54.7	57.0	54.2	55.4	56.9	54.6	54.6	0	57.5	0	41.6
31	SCL to POPD PwrS LTFirm	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7
32	SPN to PGE PwrS LTFirm	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104
33	TAUC to AVWP PwrS LTFirm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	**Total Intra-Regional Transfers**	**352**	**352**	**378**	**371**	**367**	**365**	**368**	**356**	**350**	**353**	**353**	**313**	**379**	**323**	**356**
	Intra-Regional Contracts Out															
35	Federal Entities	9.00	9.00	9.00	9.00	12.9	12.8	12.9	13.0	9.00	9.00	9.00	9.00	9.00	9.00	10.3
36	Investor Owned Utilities	53.7	53.6	97.1	88.5	81.6	78.2	80.7	70.2	67.1	68.3	68.3	14.2	72.1	15.2	65.4
37	Marketer	203	203	203	207	207	207	207	207	207	207	207	207	207	207	206
38	Municipality	58.5	58.5	44.2	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	55.8	62.4	63.7	49.4
39	Public Utility District	27.5	27.5	24.6	22.6	21.3	22.9	23.3	22.1	22.5	25.0	25.0	27.3	28.6	28.5	24.7
40	**Total Regional Contracts Out**	**352**	**352**	**378**	**371**	**367**	**365**	**368**	**356**	**350**	**353**	**353**	**313**	**379**	**323**	**356**
	Intra-Regional Contracts In															
41	Federal Entities	133	133	177	173	166	163	165	154	151	153	153	98.2	156	98.2	149
42	Investor Owned Utilities	132	132	115	113	115	117	117	116	113	115	115	129	137	138	122
43	Marketer	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
44	Municipality	4.28	4.28	3.39	2.99	2.86	2.93	3.11	3.18	3.05	2.83	2.83	3.29	3.73	4.33	3.33
45	Public Utility District	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
46	**Total Regional Contracts In**	**352**	**352**	**378**	**371**	**367**	**365**	**368**	**356**	**350**	**353**	**353**	**313**	**379**	**323**	**356**

Table A-4: Regional: Intra-Regional Transfers

Operating Year 2020

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Intra-Regional Transfers															
	Contracts	**317**	**317**	**299**	**218**	**217**	**219**	**219**	**218**	**215**	**221**	**221**	**235**	**244**	**245**	**239**
1	AVWP to BPA-P Setl WNP3 Rtn	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	AVWP to PGE CapX Del	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	BPA-P to AVWP Setl WNP3 Del	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	BPA-P to BPA-T Ops IntrlAgmt	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00
5	BPA-P to Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	BPA-P to PPL SNX SprgDel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	BPA-P to PPL SNX SumrDel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	BPA-P to PSE Ops UBkr Repl	0	0	0	0	3.89	3.77	3.92	4.03	0	0	0	0	0	0	1.29
9	BPA-P to PSE Setl WNP3 Del	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	CIDF to RMP PwrS LTFirm	14.6	14.6	0.25	0	0	0	0	0	0	0	0	11.9	18.5	19.8	5.46
11	CLAT to IPC NX Ret	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	DOPD to Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	EWEB to PGE CapX Del	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	GCPD to PPL PwrS LTFirm	12.8	12.8	9.90	7.90	6.60	8.20	8.60	7.40	7.80	10.3	10.3	12.6	13.9	13.8	10.00
15	GHPD to GHP PwrS LTFirm	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
16	IPC to CLAT NX Del	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	JPMV to BPA-P PwrP T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	NWE to MVP PwrS LTFirm	11.2	11.2	11.2	11.2	7.47	7.47	7.47	7.47	7.47	11.2	11.2	11.2	11.2	11.2	9.65
19	Other Entities to BPA-P	78.0	78.0	78.0	0	0	0	0	0	0	0	0	0	0	0	13.0
20	Other Entities to COPD	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
21	Other Entities to DOPD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	Other Entities to Other Entities	4.28	4.28	3.39	2.99	2.86	2.93	3.11	3.18	3.05	2.83	2.83	3.29	3.73	4.33	3.33
23	Other Entities to PGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	PGE to AVWP CapX Repl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	PGE to EWEB CapX Repl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	PGE to PPL PwrS LTFirm	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
27	PPL to BPA-P SNX SprgRtn	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	PPL to BPA-P SNX SumrRtn	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	PSE to AVWP PwrS LTFirm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	PSE to BPA-P Setl WNP3 Rtn	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	SCL to POPD PwrS LTFirm	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7
32	SPN to PGE PwrS LTFirm	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104
33	TAUC to AVWP PwrS LTFirm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	**Total Intra-Regional Transfers**	**317**	**317**	**299**	**218**	**217**	**219**	**219**	**218**	**215**	**221**	**221**	**235**	**244**	**245**	**239**
	Intra-Regional Contracts Out															
35	Federal Entities	9.00	9.00	9.00	9.00	12.9	12.8	12.9	13.0	9.00	9.00	9.00	9.00	9.00	9.00	10.3
36	Investor Owned Utilities	15.2	15.2	14.3	13.9	10.0	10.1	10.3	10.3	10.2	13.7	13.7	14.2	14.6	15.2	12.7
37	Marketer	207	207	207	129	129	129	129	129	129	129	129	129	129	129	142
38	Municipality	58.5	58.5	44.2	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	55.8	62.4	63.7	49.4
39	Public Utility District	27.5	27.5	24.6	22.6	21.3	22.9	23.3	22.1	22.5	25.0	25.0	27.3	28.6	28.5	24.7
40	**Total Regional Contracts Out**	**317**	**317**	**299**	**218**	**217**	**219**	**219**	**218**	**215**	**221**	**221**	**235**	**244**	**245**	**239**
	Intra-Regional Contracts In															
41	Federal Entities	98.2	98.2	98.2	20.2	16.5	16.5	16.5	16.5	16.5	20.2	20.2	20.2	20.2	20.2	31.6
42	Investor Owned Utilities	132	132	115	113	115	117	117	116	113	115	115	129	137	138	122
43	Marketer	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
44	Municipality	4.28	4.28	3.39	2.99	2.86	2.93	3.11	3.18	3.05	2.83	2.83	3.29	3.73	4.33	3.33
45	Public Utility District	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
46	**Total Regional Contracts In**	**317**	**317**	**299**	**218**	**217**	**219**	**219**	**218**	**215**	**221**	**221**	**235**	**244**	**245**	**239**

Table A-4: Regional: Intra-Regional Transfers

Operating Year 2021

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Intra-Regional Transfers															
	Contracts	**239**	**239**	**221**	**218**	**217**	**219**	**219**	**218**	**215**	**221**	**221**	**235**	**244**	**245**	**226**
1	AVWP to BPA-P Setl WNP3 Rtn	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	AVWP to PGE CapX Del	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	BPA-P to AVWP Setl WNP3 Del	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	BPA-P to BPA-T Ops IntrlAgmt	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00
5	BPA-P to Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	BPA-P to PPL SNX SprgDel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	BPA-P to PPL SNX SumrDel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	BPA-P to PSE Ops UBkr Repl	0	0	0	0	3.74	3.92	3.77	4.01	0	0	0	0	0	0	1.27
9	BPA-P to PSE Setl WNP3 Del	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	CIDF to RMP PwrS LTFirm	14.6	14.6	0.25	0	0	0	0	0	0	0	0	11.9	18.5	19.8	5.47
11	CLAT to IPC NX Ret	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	DOPD to Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	EWEB to PGE CapX Del	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	GCPD to PPL PwrS LTFirm	12.8	12.8	9.90	7.90	6.60	8.20	8.60	7.40	7.80	10.3	10.3	12.6	13.9	13.8	10.0
15	GHPD to GHP PwrS LTFirm	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
16	IPC to CLAT NX Del	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	JPMV to BPA-P PwrP T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	NWE to MVP PwrS LTFirm	11.2	11.2	11.2	11.2	7.47	7.47	7.47	7.47	7.47	11.2	11.2	11.2	11.2	11.2	9.66
19	Other Entities to BPA-P	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	Other Entities to COPD	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
21	Other Entities to DOPD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	Other Entities to Other Entities	4.28	4.28	3.39	2.99	2.86	2.93	3.11	3.18	3.05	2.83	2.83	3.29	3.73	4.33	3.33
23	Other Entities to PGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	PGE to AVWP CapX Repl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	PGE to EWEB CapX Repl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	PGE to PPL PwrS LTFirm	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
27	PPL to BPA-P SNX SprgRtn	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	PPL to BPA-P SNX SumrRtn	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	PSE to AVWP PwrS LTFirm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	PSE to BPA-P Setl WNP3 Rtn	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	SCL to POPD PwrS LTFirm	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7
32	SPN to PGE PwrS LTFirm	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104
33	TAUC to AVWP PwrS LTFirm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	**Total Intra-Regional Transfers**	**239**	**239**	**221**	**218**	**217**	**219**	**219**	**218**	**215**	**221**	**221**	**235**	**244**	**245**	**226**
	Intra-Regional Contracts Out															
35	Federal Entities	9.00	9.00	9.00	9.00	12.7	12.9	12.8	13.0	9.00	9.00	9.00	9.00	9.00	9.00	10.3
36	Investor Owned Utilities	15.2	15.2	14.3	13.9	10.0	10.1	10.3	10.3	10.2	13.7	13.7	14.2	14.6	15.2	12.7
37	Marketer	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129
38	Municipality	58.5	58.5	44.2	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	55.8	62.4	63.7	49.4
39	Public Utility District	27.5	27.5	24.6	22.6	21.3	22.9	23.3	22.1	22.5	25.0	25.0	27.3	28.6	28.5	24.7
40	**Total Regional Contracts Out**	**239**	**239**	**221**	**218**	**217**	**219**	**219**	**218**	**215**	**221**	**221**	**235**	**244**	**245**	**226**
	Intra-Regional Contracts In															
41	Federal Entities	20.2	20.2	20.2	20.2	16.5	16.5	16.5	16.5	16.5	20.2	20.2	20.2	20.2	20.2	18.7
42	Investor Owned Utilities	132	132	115	113	115	117	117	116	113	115	115	129	137	138	122
43	Marketer	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
44	Municipality	4.28	4.28	3.39	2.99	2.86	2.93	3.11	3.18	3.05	2.83	2.83	3.29	3.73	4.33	3.33
45	Public Utility District	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
46	**Total Regional Contracts In**	**239**	**239**	**221**	**218**	**217**	**219**	**219**	**218**	**215**	**221**	**221**	**235**	**244**	**245**	**226**

Table A-4: Regional: Intra-Regional Transfers

Operating Year 2022

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Intra-Regional Transfers															
	Contracts	**239**	**239**	**221**	**218**	**217**	**219**	**219**	**218**	**215**	**221**	**221**	**235**	**244**	**245**	**226**
1	AVWP to BPA-P Setl WNP3 Rtn	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	AVWP to PGE CapX Del	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	BPA-P to AVWP Setl WNP3 Del	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	BPA-P to BPA-T Ops IntrlAgmt	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00
5	BPA-P to Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	BPA-P to PPL SNX SprgDel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	BPA-P to PPL SNX SumrDel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	BPA-P to PSE Ops UBkr Repl	0	0	0	0	3.89	3.92	3.77	4.01	0	0	0	0	0	0	1.28
9	BPA-P to PSE Setl WNP3 Del	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	CIDF to RMP PwrS LTFirm	14.6	14.6	0.25	0	0	0	0	0	0	0	0	11.9	18.5	19.8	5.47
11	CLAT to IPC NX Ret	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	DOPD to Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	EWEB to PGE CapX Del	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	GCPD to PPL PwrS LTFirm	12.8	12.8	9.90	7.90	6.60	8.20	8.60	7.20	7.80	10.3	10.3	12.6	13.9	13.8	9.99
15	GHPD to GHP PwrS LTFirm	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
16	IPC to CLAT NX Del	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	JPMV to BPA-P PwrP T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	NWE to MVP PwrS LTFirm	11.2	11.2	11.2	11.2	7.47	7.47	7.47	7.47	7.47	11.2	11.2	11.2	11.2	11.2	9.66
19	Other Entities to BPA-P	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	Other Entities to COPD	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
21	Other Entities to DOPD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	Other Entities to Other Entities	4.28	4.28	3.39	2.99	2.86	2.93	3.11	3.18	3.05	2.83	2.83	3.29	3.73	4.33	3.33
23	Other Entities to PGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	PGE to AVWP CapX Repl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	PGE to EWEB CapX Repl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	PGE to PPL PwrS LTFirm	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
27	PPL to BPA-P SNX SprgRtn	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	PPL to BPA-P SNX SumrRtn	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	PSE to AVWP PwrS LTFirm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	PSE to BPA-P Setl WNP3 Rtn	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	SCL to POPD PwrS LTFirm	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7
32	SPN to PGE PwrS LTFirm	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104
33	TAUC to AVWP PwrS LTFirm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	**Total Intra-Regional Transfers**	**239**	**239**	**221**	**218**	**217**	**219**	**219**	**218**	**215**	**221**	**221**	**235**	**244**	**245**	**226**
	Intra-Regional Contracts Out															
35	Federal Entities	9.00	9.00	9.00	9.00	12.9	12.9	12.8	13.0	9.00	9.00	9.00	9.00	9.00	9.00	10.3
36	Investor Owned Utilities	15.2	15.2	14.3	13.9	10.0	10.1	10.3	10.3	10.2	13.7	13.7	14.2	14.6	15.2	12.7
37	Marketer	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129
38	Municipality	58.5	58.5	44.2	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	55.8	62.4	63.7	49.4
39	Public Utility District	27.5	27.5	24.6	22.6	21.3	22.9	23.3	21.9	22.5	25.0	25.0	27.3	28.6	28.5	24.7
40	**Total Regional Contracts Out**	**239**	**239**	**221**	**218**	**217**	**219**	**219**	**218**	**215**	**221**	**221**	**235**	**244**	**245**	**226**
	Intra-Regional Contracts In															
41	Federal Entities	20.2	20.2	20.2	20.2	16.5	16.5	16.5	16.5	16.5	20.2	20.2	20.2	20.2	20.2	18.7
42	Investor Owned Utilities	132	132	115	113	115	117	117	116	113	115	115	129	137	138	122
43	Marketer	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
44	Municipality	4.28	4.28	3.39	2.99	2.86	2.93	3.11	3.18	3.05	2.83	2.83	3.29	3.73	4.33	3.33
45	Public Utility District	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
46	**Total Regional Contracts In**	**239**	**239**	**221**	**218**	**217**	**219**	**219**	**218**	**215**	**221**	**221**	**235**	**244**	**245**	**226**

Table A-4: Regional: Intra-Regional Transfers

Operating Year 2023

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Intra-Regional Transfers															
	Contracts	**239**	**239**	**221**	**218**	**217**	**219**	**219**	**218**	**215**	**221**	**221**	**235**	**244**	**245**	**226**
1	AVWP to BPA-P Setl WNP3 Rtn	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	AVWP to PGE CapX Del	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	BPA-P to AVWP Setl WNP3 Del	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	BPA-P to BPA-T Ops IntrlAgmt	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00
5	BPA-P to Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	BPA-P to PPL SNX SprgDel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	BPA-P to PPL SNX SumrDel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	BPA-P to PSE Ops UBkr Repl	0	0	0	0	3.89	3.92	3.77	4.01	0	0	0	0	0	0	1.28
9	BPA-P to PSE Setl WNP3 Del	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	CIDF to RMP PwrS LTFirm	14.6	14.6	0.25	0	0	0	0	0	0	0	0	11.9	18.5	19.8	5.47
11	CLAT to IPC NX Ret	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	DOPD to Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	EWEB to PGE CapX Del	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	GCPD to PPL PwrS LTFirm	12.8	12.8	9.90	7.90	6.60	8.20	8.60	7.40	7.80	10.3	10.3	12.6	13.9	13.8	10.0
15	GHPD to GHP PwrS LTFirm	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
16	IPC to CLAT NX Del	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	JPMV to BPA-P PwrP T2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	NWE to MVP PwrS LTFirm	11.2	11.2	11.2	11.2	7.47	7.47	7.47	7.47	7.47	11.2	11.2	11.2	11.2	11.2	9.66
19	Other Entities to BPA-P	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	Other Entities to COPD	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
21	Other Entities to DOPD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	Other Entities to Other Entities	4.28	4.28	3.39	2.99	2.86	2.93	3.11	3.18	3.05	2.83	2.83	3.29	3.73	4.33	3.33
23	Other Entities to PGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	PGE to AVWP CapX Repl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	PGE to EWEB CapX Repl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	PGE to PPL PwrS LTFirm	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
27	PPL to BPA-P SNX SprgRtn	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	PPL to BPA-P SNX SumrRtn	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	PSE to AVWP PwrS LTFirm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	PSE to BPA-P Setl WNP3 Rtn	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	SCL to POPD PwrS LTFirm	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7
32	SPN to PGE PwrS LTFirm	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104
33	TAUC to AVWP PwrS LTFirm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	**Total Intra-Regional Transfers**	**239**	**239**	**221**	**218**	**217**	**219**	**219**	**218**	**215**	**221**	**221**	**235**	**244**	**245**	**226**
	Intra-Regional Contracts Out															
35	Federal Entities	9.00	9.00	9.00	9.00	12.9	12.9	12.8	13.0	9.00	9.00	9.00	9.00	9.00	9.00	10.3
36	Investor Owned Utilities	15.2	15.2	14.3	13.9	10.0	10.1	10.3	10.3	10.2	13.7	13.7	14.2	14.6	15.2	12.7
37	Marketer	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129
38	Municipality	58.5	58.5	44.2	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	55.8	62.4	63.7	49.4
39	Public Utility District	27.5	27.5	24.6	22.6	21.3	22.9	23.3	22.1	22.5	25.0	25.0	27.3	28.6	28.5	24.7
40	**Total Regional Contracts Out**	**239**	**239**	**221**	**218**	**217**	**219**	**219**	**218**	**215**	**221**	**221**	**235**	**244**	**245**	**226**
	Intra-Regional Contracts In															
41	Federal Entities	20.2	20.2	20.2	20.2	16.5	16.5	16.5	16.5	16.5	20.2	20.2	20.2	20.2	20.2	18.7
42	Investor Owned Utilities	132	132	115	113	115	117	117	116	113	115	115	129	137	138	122
43	Marketer	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
44	Municipality	4.28	4.28	3.39	2.99	2.86	2.93	3.11	3.18	3.05	2.83	2.83	3.29	3.73	4.33	3.33
45	Public Utility District	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
46	**Total Regional Contracts In**	**239**	**239**	**221**	**218**	**217**	**219**	**219**	**218**	**215**	**221**	**221**	**235**	**244**	**245**	**226**

THIS PAGE INTENTIONALLY LEFT BLANK

Exhibit 25

Table A-6: BPA Sales to Preference and Legacy Customers

Monthly Energy

Operating Year 2014 to 2023

Using 1937-Water Conditions

Table A-6: BPA Sales to Preference and Legacy Customers

Operating Year 2014 Water Year: 1937

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Pacific Northwest															
1	**DSI Obligation**	**312**	**312**	**313**	**311**	**313**	**311**	**312**	**313**	**312**	**312**	**312**	**312**	**311**	**312**	**312**
2	Direct Service Industry	312	312	313	311	313	311	312	313	312	312	312	312	311	312	312
3	**Load Following**	**3088**	**3091**	**2862**	**2829**	**3351**	**3823**	**3819**	**3647**	**3177**	**3029**	**3029**	**2879**	**2958**	**3217**	**3222**
4	Cooperative	1846	1847	1650	1548	1810	2114	2099	2014	1721	1667	1667	1655	1756	1962	1820
5	Municipality	549	550	522	537	629	701	709	673	597	564	564	515	516	552	588
6	Public Utility District	592	593	598	645	786	863	864	821	732	686	686	609	592	600	698
7	Federal Entities	101	101	93.0	99.5	127	146	146	139	127	113	113	100	94.7	102	116
8	**Slice Block**	**1635**	**1635**	**1715**	**1624**	**1992**	**2216**	**2243**	**2076**	**1937**	**1636**	**1636**	**1424**	**1326**	**1561**	**1781**
9	Municipality	488	488	613	538	750	817	847	803	769	532	532	352	279	454	603
10	Public Utility District	1148	1148	1102	1086	1242	1399	1396	1274	1168	1104	1104	1072	1047	1107	1178
11	**Slice Right to Power**	**2000**	**1712**	**1607**	**1692**	**2138**	**1997**	**1635**	**1603**	**1817**	**1704**	**1721**	**2743**	**2221**	**2142**	**1933**
12	Municipality	667	571	536	568	718	671	549	538	610	572	578	921	746	719	648
13	Public Utility District	1333	1141	1071	1124	1420	1327	1086	1065	1207	1132	1143	1822	1476	1423	1284
14	**Tier 1 Block**	**0**	**0**	**0**	**9.84**	**44.5**	**39.1**	**55.0**	**53.9**	**46.1**	**2.99**	**2.99**	**0**	**0**	**11.0**	**21.7**
15	Public Utility District	0	0	0	9.84	44.5	39.1	55.0	53.9	46.1	2.99	2.99	0	0	11.0	21.7
16	**USBR Obligation**	**301**	**299**	**252**	**104**	**30.1**	**29.2**	**27.1**	**25.2**	**65.8**	**250**	**250**	**327**	**340**	**402**	**180**
17	USBR	301	299	252	104	30.1	29.2	27.1	25.2	65.8	250	250	327	340	402	180
	Total Power Sales Contracts															
18	Cooperative	1846	1847	1650	1548	1810	2114	2099	2014	1721	1667	1667	1655	1756	1962	1820
19	Direct Service Industry	312	312	313	311	313	311	312	313	312	312	312	312	311	312	312
20	Federal Entities	101	101	93.0	99.5	127	146	146	139	127	113	113	100	94.7	102	116
21	Municipality	1704	1608	1671	1643	2097	2188	2105	2014	1976	1668	1674	1789	1541	1725	1839
22	Public Utility District	3073	2881	2771	2865	3492	3627	3401	3213	3153	2925	2936	3503	3114	3141	3183
23	USBR	301	299	252	104	30.1	29.2	27.1	25.2	65.8	250	250	327	340	402	180
24	**Total Power Sales Contracts**	**7336**	**7049**	**6750**	**6570**	**7869**	**8415**	**8090**	**7718**	**7355**	**6934**	**6951**	**7685**	**7156**	**7645**	**7449**

Table A-6: BPA Sales to Preference and Legacy Customers

Operating Year 2015 Water Year: 1937

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Pacific Northwest															
25	**DSI Obligation**	**313**	**312**	**313**	**311**	**313**	**311**	**312**	**313**	**312**	**312**	**312**	**312**	**311**	**312**	**312**
26	Direct Service Industry	313	312	313	311	313	311	312	313	312	312	312	312	311	312	312
27	**Load Following**	**3134**	**3107**	**2890**	**2883**	**3413**	**3892**	**3902**	**3734**	**3238**	**3090**	**3090**	**2936**	**3012**	**3278**	**3281**
28	Cooperative	1863	1847	1656	1578	1848	2156	2156	2074	1757	1704	1704	1688	1786	2001	1854
29	Municipality	564	559	533	554	645	718	725	690	613	579	579	530	532	567	604
30	Public Utility District	604	598	606	650	790	868	871	828	738	692	692	616	598	606	705
31	Federal Entities	103	102	95.0	102	129	149	149	142	130	115	115	102	96.6	104	118
32	**Slice Block**	**1561**	**1561**	**1628**	**1697**	**2091**	**2326**	**2355**	**2177**	**2025**	**1706**	**1706**	**1507**	**1411**	**1640**	**1842**
33	Municipality	475	475	590	561	782	853	884	837	806	557	557	369	294	475	622
34	Public Utility District	1087	1087	1038	1136	1309	1473	1471	1339	1220	1150	1150	1137	1118	1165	1220
35	**Slice Right to Power**	**1987**	**1706**	**1583**	**1651**	**2095**	**2006**	**1781**	**1609**	**1809**	**1726**	**1736**	**2500**	**1847**	**1962**	**1871**
36	Municipality	667	573	531	554	703	673	598	540	607	580	583	839	620	659	628
37	Public Utility District	1320	1133	1051	1097	1391	1332	1183	1069	1202	1147	1153	1661	1227	1303	1243
38	**Tier 1 Block**	**11.3**	**11.3**	**23.3**	**10.6**	**47.9**	**42.1**	**59.2**	**58.0**	**49.6**	**3.22**	**3.22**	**0**	**0**	**11.8**	**26.3**
39	Public Utility District	11.3	11.3	23.3	10.6	47.9	42.1	59.2	58.0	49.6	3.22	3.22	0	0	11.8	26.3
40	**USBR Obligation**	**295**	**304**	**252**	**104**	**30.1**	**29.2**	**27.1**	**25.2**	**65.8**	**250**	**250**	**327**	**340**	**402**	**180**
41	USBR	295	304	252	104	30.1	29.2	27.1	25.2	65.8	250	250	327	340	402	180
	Total Power Sales Contracts															
42	Cooperative	1863	1847	1656	1578	1848	2156	2156	2074	1757	1704	1704	1688	1786	2001	1854
43	Direct Service Industry	313	312	313	311	313	311	312	313	312	312	312	312	311	312	312
44	Federal Entities	103	102	95.0	102	129	149	149	142	130	115	115	102	96.6	104	118
45	Municipality	1706	1607	1654	1669	2130	2245	2208	2068	2026	1715	1718	1739	1445	1701	1854
46	Public Utility District	3022	2829	2719	2893	3539	3715	3585	3294	3209	2992	2998	3414	2942	3086	3194
47	USBR	295	304	252	104	30.1	29.2	27.1	25.2	65.8	250	250	327	340	402	180
48	**Total Power Sales Contracts**	**7301**	**7002**	**6689**	**6657**	**7990**	**8605**	**8436**	**7916**	**7500**	**7088**	**7098**	**7582**	**6921**	**7607**	**7512**

Table A-6: BPA Sales to Preference and Legacy Customers

Operating Year 2016 Water Year: 1937

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Pacific Northwest															
49	**DSI Obligation**	**313**	**312**	**313**	**311**	**313**	**311**	**312**	**313**	**312**	**312**	**312**	**312**	**311**	**312**	**312**
50	Direct Service Industry	313	312	313	311	313	311	312	313	312	312	312	312	311	312	312
51	**Load Following**	**3189**	**3161**	**2943**	**2895**	**3437**	**3920**	**3929**	**3670**	**3250**	**3105**	**3105**	**2952**	**3032**	**3303**	**3301**
52	Cooperative	1893	1878	1686	1576	1855	2169	2168	2030	1757	1706	1706	1691	1792	2012	1861
53	Municipality	580	575	548	562	655	725	733	681	618	586	586	537	539	575	611
54	Public Utility District	610	604	612	654	795	873	875	817	741	696	696	619	602	609	708
55	Federal Entities	105	104	96.9	104	132	153	154	143	133	118	118	105	99.2	107	121
56	**Slice Block**	**1634**	**1634**	**1707**	**1649**	**2031**	**2260**	**2288**	**2041**	**1966**	**1658**	**1658**	**1467**	**1375**	**1595**	**1806**
57	Municipality	496	496	622	540	750	819	849	776	773	535	535	355	283	457	604
58	Public Utility District	1138	1138	1086	1110	1280	1441	1439	1265	1192	1123	1123	1112	1092	1138	1202
59	**Slice Right to Power**	**1978**	**1678**	**1534**	**1646**	**2089**	**1999**	**1778**	**1605**	**1803**	**1723**	**1732**	**2644**	**2123**	**2023**	**1901**
60	Municipality	664	563	515	553	701	671	597	539	605	579	582	888	713	679	638
61	Public Utility District	1314	1115	1019	1093	1388	1328	1181	1066	1198	1144	1151	1756	1410	1344	1263
62	**Tier 1 Block**	**12.2**	**12.2**	**25.1**	**11.0**	**49.6**	**43.6**	**61.3**	**58.0**	**51.4**	**3.34**	**3.34**	**0**	**0**	**12.3**	**27.2**
63	Public Utility District	12.2	12.2	25.1	11.0	49.6	43.6	61.3	58.0	51.4	3.34	3.34	0	0	12.3	27.2
64	**USBR Obligation**	**295**	**304**	**252**	**104**	**30.1**	**29.2**	**27.1**	**25.2**	**65.8**	**250**	**250**	**327**	**340**	**402**	**180**
65	USBR	295	304	252	104	30.1	29.2	27.1	25.2	65.8	250	250	327	340	402	180
	Total Power Sales Contracts															
66	Cooperative	1893	1878	1686	1576	1855	2169	2168	2030	1757	1706	1706	1691	1792	2012	1861
67	Direct Service Industry	313	312	313	311	313	311	312	313	312	312	312	312	311	312	312
68	Federal Entities	105	104	96.9	104	132	153	154	143	133	118	118	105	99.2	107	121
69	Municipality	1740	1634	1684	1654	2107	2215	2179	1997	1997	1699	1703	1780	1535	1710	1854
70	Public Utility District	3074	2869	2742	2868	3513	3685	3556	3206	3183	2966	2973	3487	3104	3103	3200
71	USBR	295	304	252	104	30.1	29.2	27.1	25.2	65.8	250	250	327	340	402	180
72	**Total Power Sales Contracts**	**7420**	**7102**	**6774**	**6616**	**7950**	**8562**	**8395**	**7712**	**7448**	**7052**	**7061**	**7702**	**7181**	**7647**	**7527**

Table A-6: BPA Sales to Preference and Legacy Customers

Operating Year 2017 Water Year: 1937

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Pacific Northwest															
73	**DSI Obligation**	**312**	**312**	**313**	**311**	**313**	**311**	**312**	**313**	**312**	**313**	**312**	**312**	**311**	**312**	**312**
74	Direct Service Industry	312	312	313	311	313	311	312	313	312	313	312	312	311	312	312
75	**Load Following**	**3193**	**3196**	**2959**	**2923**	**3474**	**3965**	**3969**	**3800**	**3277**	**3148**	**3118**	**2980**	**3062**	**3340**	**3338**
76	Cooperative	1890	1892	1687	1590	1876	2198	2194	2114	1772	1730	1714	1707	1810	2037	1883
77	Municipality	586	587	557	568	662	733	741	703	625	595	590	544	546	582	620
78	Public Utility District	609	610	615	658	799	877	879	836	746	704	696	623	606	613	713
79	Federal Entities	108	108	99.4	106	136	157	155	147	134	119	118	105	99.7	108	123
80	**Slice Block**	**1589**	**1589**	**1657**	**1690**	**2081**	**2316**	**2345**	**2166**	**2014**	**1699**	**1699**	**1505**	**1410**	**1635**	**1841**
81	Municipality	477	477	597	552	768	838	869	823	791	548	548	364	290	468	614
82	Public Utility District	1111	1111	1060	1137	1313	1478	1476	1343	1222	1151	1151	1141	1120	1167	1226
83	**Slice Right to Power**	**1984**	**1681**	**1517**	**1649**	**2077**	**1995**	**1753**	**1591**	**1791**	**1713**	**1727**	**2479**	**1855**	**1979**	**1856**
84	Municipality	666	565	509	554	697	670	589	534	601	575	580	832	623	665	623
85	Public Utility District	1318	1117	1007	1096	1380	1325	1164	1057	1190	1138	1147	1647	1232	1315	1233
86	**Tier 1 Block**	**12.6**	**12.6**	**26.0**	**11.3**	**51.0**	**44.8**	**63.0**	**61.7**	**52.8**	**3.43**	**3.43**	**0**	**0**	**12.6**	**28.1**
87	Public Utility District	12.6	12.6	26.0	11.3	51.0	44.8	63.0	61.7	52.8	3.43	3.43	0	0	12.6	28.1
88	**USBR Obligation**	**301**	**299**	**252**	**104**	**30.1**	**29.2**	**27.1**	**25.2**	**65.8**	**244**	**256**	**327**	**340**	**402**	**180**
89	USBR	301	299	252	104	30.1	29.2	27.1	25.2	65.8	244	256	327	340	402	180
	Total Power Sales Contracts															
90	Cooperative	1890	1892	1687	1590	1876	2198	2194	2114	1772	1730	1714	1707	1810	2037	1883
91	Direct Service Industry	312	312	313	311	313	311	312	313	312	313	312	312	311	312	312
92	Federal Entities	108	108	99.4	106	136	157	155	147	134	119	118	105	99.7	108	123
93	Municipality	1729	1628	1664	1674	2127	2241	2198	2060	2018	1718	1717	1740	1459	1714	1857
94	Public Utility District	3051	2851	2708	2902	3543	3725	3582	3298	3210	2996	2997	3411	2958	3107	3200
95	USBR	301	299	252	104	30.1	29.2	27.1	25.2	65.8	244	256	327	340	402	180
96	**Total Power Sales Contracts**	**7392**	**7090**	**6723**	**6689**	**8025**	**8660**	**8468**	**7957**	**7512**	**7120**	**7114**	**7603**	**6978**	**7681**	**7555**

Table A-6: BPA Sales to Preference and Legacy Customers

Operating Year 2018 Water Year: 1937

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Pacific Northwest															
97	**DSI Obligation**	**312**	**312**	**313**	**311**	**313**	**311**	**312**	**313**	**312**	**312**	**313**	**312**	**311**	**312**	**312**
98	Direct Service Industry	312	312	313	311	313	311	312	313	312	312	313	312	311	312	312
99	**Load Following**	**3225**	**3228**	**2986**	**2954**	**3511**	**4009**	**4019**	**3851**	**3309**	**3149**	**3179**	**3010**	**3093**	**3378**	**3374**
100	Cooperative	1910	1912	1703	1610	1901	2230	2232	2153	1793	1735	1751	1727	1831	2065	1907
101	Municipality	593	594	564	575	669	740	747	709	630	595	601	549	552	588	626
102	Public Utility District	613	614	619	662	804	881	883	841	750	700	708	628	610	617	717
103	Federal Entities	108	108	100.0	107	137	158	156	148	135	119	120	106	101	109	124
104	**Slice Block**	**1628**	**1628**	**1698**	**1674**	**2062**	**2295**	**2323**	**2146**	**1995**	**1683**	**1683**	**1490**	**1397**	**1620**	**1833**
105	Municipality	489	489	611	547	761	830	860	815	784	542	542	360	287	463	611
106	Public Utility District	1140	1140	1086	1127	1301	1465	1463	1331	1211	1141	1141	1130	1110	1157	1222
107	**Slice Right to Power**	**1981**	**1678**	**1518**	**1656**	**2085**	**2000**	**1765**	**1600**	**1802**	**1724**	**1730**	**2651**	**2131**	**2031**	**1902**
108	Municipality	665	563	510	556	700	672	593	537	605	579	581	890	715	682	639
109	Public Utility District	1316	1115	1008	1100	1385	1329	1173	1063	1197	1145	1149	1761	1415	1349	1264
110	**Tier 1 Block**	**12.9**	**12.9**	**26.7**	**11.6**	**52.3**	**45.9**	**64.6**	**63.3**	**54.2**	**3.52**	**3.52**	**0**	**0**	**12.9**	**28.8**
111	Public Utility District	12.9	12.9	26.7	11.6	52.3	45.9	64.6	63.3	54.2	3.52	3.52	0	0	12.9	28.8
112	**USBR Obligation**	**301**	**299**	**252**	**104**	**30.1**	**29.2**	**27.1**	**25.2**	**65.8**	**256**	**244**	**327**	**340**	**402**	**180**
113	USBR	301	299	252	104	30.1	29.2	27.1	25.2	65.8	256	244	327	340	402	180
	Total Power Sales Contracts															
114	Cooperative	1910	1912	1703	1610	1901	2230	2232	2153	1793	1735	1751	1727	1831	2065	1907
115	Direct Service Industry	312	312	313	311	313	311	312	313	312	312	313	312	311	312	312
116	Federal Entities	108	108	100.0	107	137	158	156	148	135	119	120	106	101	109	124
117	Municipality	1747	1646	1685	1678	2130	2241	2200	2061	2019	1716	1724	1799	1554	1732	1876
118	Public Utility District	3082	2881	2741	2901	3542	3721	3584	3298	3212	2990	3001	3519	3135	3136	3231
119	USBR	301	299	252	104	30.1	29.2	27.1	25.2	65.8	256	244	327	340	402	180
120	**Total Power Sales Contracts**	**7460**	**7159**	**6793**	**6711**	**8054**	**8690**	**8511**	**7998**	**7538**	**7128**	**7153**	**7790**	**7271**	**7756**	**7630**

Table A-6: BPA Sales to Preference and Legacy Customers

Operating Year 2019 Water Year: 1937

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Pacific Northwest															
121	**DSI Obligation**	**312**	**312**	**313**	**311**	**313**	**311**	**312**	**313**	**312**	**312**	**312**	**312**	**311**	**312**	**312**
122	Direct Service Industry	312	312	313	311	313	311	312	313	312	312	312	312	311	312	312
123	**Load Following**	**3258**	**3261**	**3017**	**2978**	**3546**	**4053**	**4094**	**3927**	**3360**	**3213**	**3213**	**3053**	**3134**	**3428**	**3420**
124	Cooperative	1932	1934	1723	1625	1925	2262	2269	2192	1812	1762	1762	1743	1844	2087	1930
125	Municipality	599	600	569	580	675	746	753	715	635	603	603	554	557	593	631
126	Public Utility District	618	618	624	666	808	885	888	846	754	708	708	632	614	621	721
127	Federal Entities	109	109	101	108	138	160	185	175	159	140	140	124	118	127	137
128	**Slice Block**	**1613**	**1613**	**1682**	**1693**	**2084**	**2320**	**2349**	**2170**	**2017**	**1702**	**1702**	**1508**	**1413**	**1638**	**1848**
129	Municipality	484	484	605	553	768	839	869	824	792	548	548	364	290	468	616
130	Public Utility District	1130	1130	1077	1140	1316	1482	1480	1346	1225	1153	1153	1143	1122	1170	1232
131	**Slice Right to Power**	**1990**	**1688**	**1531**	**1656**	**2139**	**2052**	**1821**	**1654**	**1828**	**1751**	**1760**	**2469**	**1862**	**2006**	**1887**
132	Municipality	668	567	514	556	718	689	612	555	614	588	591	829	625	674	633
133	Public Utility District	1322	1121	1017	1100	1421	1363	1210	1099	1214	1163	1169	1640	1237	1333	1253
134	**Tier 1 Block**	**13.3**	**13.3**	**27.4**	**11.6**	**52.3**	**45.9**	**64.6**	**63.3**	**54.2**	**3.52**	**3.52**	**0**	**0**	**12.9**	**28.9**
135	Public Utility District	13.3	13.3	27.4	11.6	52.3	45.9	64.6	63.3	54.2	3.52	3.52	0	0	12.9	28.9
136	**USBR Obligation**	**301**	**299**	**252**	**104**	**30.1**	**29.2**	**27.1**	**25.2**	**65.8**	**250**	**250**	**327**	**340**	**402**	**180**
137	USBR	301	299	252	104	30.1	29.2	27.1	25.2	65.8	250	250	327	340	402	180
	Total Power Sales Contracts															
138	Cooperative	1932	1934	1723	1625	1925	2262	2269	2192	1812	1762	1762	1743	1844	2087	1930
139	Direct Service Industry	312	312	313	311	313	311	312	313	312	312	312	312	311	312	312
140	Federal Entities	109	109	101	108	138	160	185	175	159	140	140	124	118	127	137
141	Municipality	1751	1650	1689	1689	2162	2273	2234	2093	2041	1739	1742	1747	1473	1735	1881
142	Public Utility District	3082	2882	2744	2917	3597	3776	3642	3354	3247	3028	3034	3415	2973	3136	3235
143	USBR	301	299	252	104	30.1	29.2	27.1	25.2	65.8	250	250	327	340	402	180
144	**Total Power Sales Contracts**	**7487**	**7186**	**6822**	**6754**	**8165**	**8811**	**8668**	**8152**	**7636**	**7231**	**7240**	**7668**	**7059**	**7799**	**7675**

Table A-6: BPA Sales to Preference and Legacy Customers

Operating Year 2020 Water Year: 1937

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Pacific Northwest															
145	**DSI Obligation**	**312**	**312**	**313**	**311**	**313**	**311**	**312**	**313**	**312**	**312**	**312**	**312**	**311**	**312**	**312**
146	Direct Service Industry	312	312	313	311	313	311	312	313	312	312	312	312	311	312	312
147	**Load Following**	**3301**	**3304**	**3057**	**3026**	**3610**	**4132**	**4158**	**3893**	**3401**	**3253**	**3253**	**3089**	**3170**	**3473**	**3464**
148	Cooperative	1947	1949	1736	1644	1954	2299	2310	2172	1834	1785	1785	1763	1863	2114	1952
149	Municipality	605	605	575	586	681	752	759	706	641	608	608	559	563	599	636
150	Public Utility District	622	622	628	670	812	890	892	835	758	713	713	636	618	626	725
151	Federal Entities	128	128	118	126	163	191	197	181	168	148	148	131	125	135	151
152	**Slice Block**	**1631**	**1631**	**1700**	**1676**	**2065**	**2298**	**2326**	**2075**	**1998**	**1685**	**1685**	**1492**	**1398**	**1621**	**1830**
153	Municipality	489	489	612	547	762	831	861	788	785	542	542	360	287	463	610
154	Public Utility District	1142	1142	1089	1129	1303	1467	1465	1287	1213	1143	1143	1132	1111	1158	1220
155	**Slice Right to Power**	**1989**	**1687**	**1534**	**1657**	**2142**	**2053**	**1826**	**1657**	**1830**	**1753**	**1762**	**2648**	**2132**	**2034**	**1927**
156	Municipality	668	566	515	556	719	689	613	556	615	588	592	889	716	683	647
157	Public Utility District	1321	1120	1019	1100	1423	1364	1213	1100	1216	1164	1171	1759	1416	1351	1280
158	**Tier 1 Block**	**13.3**	**13.3**	**27.4**	**11.7**	**53.0**	**46.6**	**65.5**	**61.9**	**54.9**	**3.56**	**3.56**	**0**	**0**	**13.1**	**29.2**
159	Public Utility District	13.3	13.3	27.4	11.7	53.0	46.6	65.5	61.9	54.9	3.56	3.56	0	0	13.1	29.2
160	**USBR Obligation**	**301**	**299**	**252**	**104**	**30.1**	**29.2**	**27.1**	**25.2**	**65.8**	**250**	**250**	**327**	**340**	**402**	**180**
161	USBR	301	299	252	104	30.1	29.2	27.1	25.2	65.8	250	250	327	340	402	180
	Total Power Sales Contracts															
162	Cooperative	1947	1949	1736	1644	1954	2299	2310	2172	1834	1785	1785	1763	1863	2114	1952
163	Direct Service Industry	312	312	313	311	313	311	312	313	312	312	312	312	311	312	312
164	Federal Entities	128	128	118	126	163	191	197	181	168	148	148	131	125	135	151
165	Municipality	1761	1661	1702	1689	2162	2272	2233	2049	2040	1739	1742	1808	1565	1745	1893
166	Public Utility District	3098	2898	2763	2911	3591	3767	3636	3285	3242	3023	3029	3527	3146	3148	3254
167	USBR	301	299	252	104	30.1	29.2	27.1	25.2	65.8	250	250	327	340	402	180
168	**Total Power Sales Contracts**	**7548**	**7247**	**6884**	**6786**	**8213**	**8869**	**8715**	**8025**	**7662**	**7257**	**7266**	**7868**	**7351**	**7856**	**7742**

Table A-6: BPA Sales to Preference and Legacy Customers

Operating Year 2021 Water Year: 1937

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Pacific Northwest															
169	**DSI Obligation**	**313**	**312**	**313**	**311**	**313**	**311**	**312**	**313**	**312**	**312**	**312**	**312**	**311**	**312**	**312**
170	Direct Service Industry	313	312	313	311	313	311	312	313	312	312	312	312	311	312	312
171	**Load Following**	**3356**	**3326**	**3092**	**3055**	**3654**	**4187**	**4200**	**4037**	**3424**	**3276**	**3276**	**3111**	**3190**	**3502**	**3504**
172	Cooperative	1977	1959	1754	1659	1979	2334	2343	2272	1849	1800	1800	1777	1876	2135	1978
173	Municipality	614	608	580	590	686	757	763	724	644	611	611	563	566	602	641
174	Public Utility District	629	623	632	673	816	894	897	855	762	717	717	640	623	630	730
175	Federal Entities	136	135	125	134	173	203	198	186	169	148	148	132	126	135	155
176	**Slice Block**	**1615**	**1615**	**1684**	**1672**	**2059**	**2292**	**2321**	**2143**	**1992**	**1680**	**1680**	**1489**	**1395**	**1617**	**1829**
177	Municipality	484	484	606	545	758	827	857	812	781	540	540	358	286	461	609
178	Public Utility District	1131	1131	1078	1127	1301	1465	1463	1331	1211	1140	1140	1131	1109	1156	1220
179	**Slice Right to Power**	**1986**	**1687**	**1544**	**1653**	**2141**	**2050**	**1829**	**1657**	**1826**	**1760**	**1769**	**2502**	**1867**	**1974**	**1889**
180	Municipality	667	567	518	555	719	688	614	556	613	591	594	840	627	663	634
181	Public Utility District	1319	1121	1026	1098	1422	1362	1215	1100	1213	1169	1175	1662	1240	1311	1255
182	**Tier 1 Block**	**13.5**	**13.5**	**27.8**	**11.7**	**52.9**	**46.4**	**65.3**	**64.0**	**54.8**	**3.55**	**3.55**	**0**	**0**	**13.1**	**29.2**
183	Public Utility District	13.5	13.5	27.8	11.7	52.9	46.4	65.3	64.0	54.8	3.55	3.55	0	0	13.1	29.2
184	**USBR Obligation**	**295**	**304**	**252**	**104**	**30.1**	**29.2**	**27.1**	**25.2**	**65.8**	**250**	**250**	**327**	**340**	**402**	**180**
185	USBR	295	304	252	104	30.1	29.2	27.1	25.2	65.8	250	250	327	340	402	180
	Total Power Sales Contracts															
186	Cooperative	1977	1959	1754	1659	1979	2334	2343	2272	1849	1800	1800	1777	1876	2135	1978
187	Direct Service Industry	313	312	313	311	313	311	312	313	312	312	312	312	311	312	312
188	Federal Entities	136	135	125	134	173	203	198	186	169	148	148	132	126	135	155
189	Municipality	1764	1658	1705	1689	2162	2272	2234	2092	2038	1742	1745	1761	1478	1726	1884
190	Public Utility District	3093	2889	2764	2910	3592	3767	3640	3351	3241	3029	3036	3433	2972	3110	3234
191	USBR	295	304	252	104	30.1	29.2	27.1	25.2	65.8	250	250	327	340	402	180
192	**Total Power Sales Contracts**	**7577**	**7258**	**6913**	**6807**	**8250**	**8916**	**8754**	**8239**	**7674**	**7282**	**7291**	**7741**	**7103**	**7821**	**7743**

Table A-6: BPA Sales to Preference and Legacy Customers

Operating Year 2022 Water Year: 1937

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Pacific Northwest															
193	**DSI Obligation**	**312**	**313**	**313**	**311**	**313**	**311**	**312**	**313**	**312**	**312**	**312**	**312**	**311**	**312**	**312**
194	Direct Service Industry	312	313	313	311	313	311	312	313	312	312	312	312	311	312	312
195	**Load Following**	**3340**	**3382**	**3112**	**3091**	**3699**	**4243**	**4230**	**4068**	**3448**	**3299**	**3299**	**3134**	**3215**	**3529**	**3534**
196	Cooperative	1968	1993	1766	1686	2016	2379	2363	2291	1864	1815	1815	1792	1892	2153	1999
197	Municipality	610	618	584	594	690	762	768	731	648	615	615	566	570	607	645
198	Public Utility District	626	634	636	677	820	898	901	860	767	721	721	644	627	634	734
199	Federal Entities	135	137	126	134	174	204	198	187	169	149	149	132	126	136	156
200	**Slice Block**	**1611**	**1611**	**1679**	**1679**	**2068**	**2303**	**2332**	**2152**	**2000**	**1687**	**1687**	**1498**	**1401**	**1624**	**1835**
201	Municipality	482	482	603	546	759	829	859	814	783	541	541	359	287	462	609
202	Public Utility District	1129	1129	1076	1133	1309	1474	1473	1339	1217	1146	1146	1138	1115	1162	1226
203	**Slice Right to Power**	**1989**	**1683**	**1547**	**1648**	**2139**	**2044**	**1827**	**1653**	**1826**	**1757**	**1766**	**2654**	**2133**	**2032**	**1927**
204	Municipality	668	565	520	553	718	686	613	555	613	590	593	891	716	682	647
205	Public Utility District	1321	1118	1028	1094	1421	1358	1213	1098	1213	1167	1173	1763	1417	1350	1280
206	**Tier 1 Block**	**13.4**	**13.4**	**27.7**	**11.7**	**52.8**	**46.4**	**65.3**	**63.9**	**54.7**	**3.55**	**3.55**	**0**	**0**	**13.1**	**29.2**
207	Public Utility District	13.4	13.4	27.7	11.7	52.8	46.4	65.3	63.9	54.7	3.55	3.55	0	0	13.1	29.2
208	**USBR Obligation**	**307**	**293**	**252**	**104**	**30.1**	**29.2**	**27.1**	**25.2**	**65.8**	**250**	**250**	**327**	**340**	**402**	**180**
209	USBR	307	293	252	104	30.1	29.2	27.1	25.2	65.8	250	250	327	340	402	180
	Total Power Sales Contracts															
210	Cooperative	1968	1993	1766	1686	2016	2379	2363	2291	1864	1815	1815	1792	1892	2153	1999
211	Direct Service Industry	312	313	313	311	313	311	312	313	312	312	312	312	311	312	312
212	Federal Entities	135	137	126	134	174	204	198	187	169	149	149	132	126	136	156
213	Municipality	1760	1665	1706	1693	2167	2277	2241	2099	2043	1746	1749	1817	1573	1751	1902
214	Public Utility District	3090	2895	2768	2916	3603	3776	3652	3360	3252	3037	3043	3545	3158	3159	3269
215	USBR	307	293	252	104	30.1	29.2	27.1	25.2	65.8	250	250	327	340	402	180
216	**Total Power Sales Contracts**	**7572**	**7295**	**6931**	**6844**	**8303**	**8977**	**8792**	**8275**	**7706**	**7309**	**7319**	**7925**	**7400**	**7913**	**7817**

Table A-6: BPA Sales to Preference and Legacy Customers

Operating Year 2023 Water Year: 1937

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Pacific Northwest															
217	**DSI Obligation**	**312**	**312**	**313**	**311**	**313**	**311**	**312**	**313**	**312**	**313**	**312**	**312**	**311**	**312**	**312**
218	Direct Service Industry	312	312	313	311	313	311	312	313	312	313	312	312	311	312	312
219	**Load Following**	**3386**	**3389**	**3135**	**3118**	**3731**	**4280**	**4266**	**4102**	**3477**	**3344**	**3312**	**3163**	**3244**	**3562**	**3564**
220	Cooperative	1997	1999	1781	1705	2038	2407	2387	2315	1885	1844	1826	1812	1913	2177	2020
221	Municipality	618	619	588	598	695	767	774	735	652	622	616	570	574	611	650
222	Public Utility District	634	635	640	681	824	902	905	864	771	729	721	648	631	638	738
223	Federal Entities	136	136	126	135	174	204	199	188	170	150	149	132	126	136	156
224	**Slice Block**	**1618**	**1618**	**1686**	**1680**	**2070**	**2305**	**2334**	**2155**	**2002**	**1689**	**1689**	**1499**	**1403**	**1626**	**1838**
225	Municipality	483	483	605	547	760	830	860	815	783	542	542	360	287	463	610
226	Public Utility District	1135	1135	1081	1134	1310	1476	1474	1340	1219	1147	1147	1139	1116	1163	1228
227	**Slice Right to Power**	**1993**	**1691**	**1527**	**1660**	**2139**	**2057**	**1815**	**1653**	**1828**	**1752**	**1765**	**2492**	**1867**	**1989**	**1888**
228	Municipality	669	568	513	557	718	690	609	555	614	588	593	837	627	668	634
229	Public Utility District	1324	1123	1014	1103	1421	1366	1205	1098	1214	1164	1172	1655	1240	1321	1254
230	**Tier 1 Block**	**13.4**	**13.4**	**27.7**	**11.7**	**52.8**	**46.4**	**65.3**	**63.9**	**54.7**	**3.55**	**3.55**	**0**	**0**	**13.1**	**29.2**
231	Public Utility District	13.4	13.4	27.7	11.7	52.8	46.4	65.3	63.9	54.7	3.55	3.55	0	0	13.1	29.2
232	**USBR Obligation**	**301**	**299**	**252**	**104**	**30.1**	**29.2**	**27.1**	**25.2**	**65.8**	**244**	**256**	**327**	**340**	**402**	**180**
233	USBR	301	299	252	104	30.1	29.2	27.1	25.2	65.8	244	256	327	340	402	180
	Total Power Sales Contracts															
234	Cooperative	1997	1999	1781	1705	2038	2407	2387	2315	1885	1844	1826	1812	1913	2177	2020
235	Direct Service Industry	312	312	313	311	313	311	312	313	312	313	312	312	311	312	312
236	Federal Entities	136	136	126	135	174	204	199	188	170	150	149	132	126	136	156
237	Municipality	1770	1670	1705	1702	2173	2287	2244	2105	2049	1752	1751	1767	1488	1742	1894
238	Public Utility District	3106	2906	2763	2929	3609	3790	3650	3366	3258	3043	3044	3443	2987	3135	3249
239	USBR	301	299	252	104	30.1	29.2	27.1	25.2	65.8	244	256	327	340	402	180
240	**Total Power Sales Contracts**	**7624**	**7323**	**6940**	**6885**	**8337**	**9028**	**8819**	**8312**	**7739**	**7346**	**7337**	**7793**	**7165**	**7904**	**7811**

THIS PAGE INTENTIONALLY LEFT BLANK

Exhibit 26
Table A-7: Regional Regulated Hydro

Annual Energy
Operating Year 2014 to 2023
Using 1937-Water Conditions

Table A-7: Regional: Regulated Hydro

Operating Year 2014 Water Year: 1937

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Regulated Hydro															
1	Idle Capacity Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	Albeni Falls	18.5	16.8	20.3	32.6	19.5	19.7	14.6	12.3	12.7	26.3	19.7	38.7	43.5	35.7	24.3
3	Alder	37.1	14.7	0	0	0	0.45	45.0	13.7	33.3	33.0	6.32	27.7	37.0	21.8	18.8
4	Bonneville	187	138	404	420	542	551	456	462	487	370	185	445	361	273	403
5	Boundary	164	149	190	373	254	287	201	164	171	468	252	611	809	412	333
6	Box Canyon Dam	27.2	25.0	30.7	55.8	39.6	44.3	32.1	26.9	27.8	65.3	39.6	73.4	66.0	57.1	44.5
7	Brownlee	156	159	172	155	162	167	217	164	204	203	205	229	196	175	184
8	Cabinet Gorge	39.7	35.4	42.6	49.5	38.0	78.3	55.6	37.8	34.7	119	91.4	194	217	110	83.5
9	Chelan Lake	56.6	36.4	14.6	55.0	4.28	5.28	56.4	55.6	11.4	55.3	51.2	36.6	56.0	56.8	37.5
10	Chief Joseph	1457	1174	806	908	1305	1276	956	900	918	906	1053	1577	1231	1471	1139
11	Cushman 1	21.4	12.7	1.33	0.99	0.84	2.59	10.6	2.45	2.67	2.94	3.13	3.40	3.77	3.99	4.42
12	Cushman 2	51.2	31.4	0	0	0	0.49	25.1	0.49	0.36	0.20	0.20	0.13	0.10	0.03	5.77
13	Diablo	27.8	53.4	92.2	52.2	80.3	64.5	157	77.9	80.4	85.8	73.1	59.9	93.4	106	82.0
14	Dworshak	448	338	185	57.9	57.7	57.5	57.3	57.0	57.0	57.4	58.3	64.0	212	449	143
15	Faraday	8.08	7.53	8.57	7.58	6.25	16.1	8.89	16.6	31.4	43.0	42.5	40.8	16.8	13.5	18.1
16	Gorge	37.2	64.6	105	62.1	90.7	78.8	167	88.1	95.2	116	88.1	78.3	118	124	96.7
17	Grand Coulee	2628	2074	1418	1631	2361	2262	1665	1567	1562	1491	1690	2533	2110	2687	1982
18	Hells Canyon	124	129	143	130	133	133	173	133	165	161	168	190	161	137	149
19	Hungry Horse	63.4	63.2	72.9	81.7	86.4	86.9	88.0	87.1	84.8	64.4	26.3	27.4	78.8	114	76.4
20	Ice Harbor	109	140	118	108	104	114	122	125	178	179	180	312	255	150	158
21	John Day	751	613	642	676	926	916	730	735	814	793	730	1089	958	844	815
22	Kerr	44.9	44.9	61.7	76.4	55.3	137	95.3	60.2	44.0	170	106	147	178	138	98.2
23	La Grande	63.3	32.1	0	0	0	0.64	63.3	26.3	62.0	61.8	10.3	44.9	55.2	32.9	30.8
24	Libby	187	187	177	93.9	267	175	87.8	87.0	86.2	85.7	85.7	517	273	185	186
25	Little Falls	9.53	9.35	14.1	10.7	10.4	13.9	17.6	10.2	22.8	30.2	32.8	32.5	34.9	15.4	18.6
26	Little Goose	113	151	129	108	105	112	124	111	170	212	268	485	275	147	179
27	Long Lake	24.1	23.7	34.2	26.8	26.1	34.0	40.9	23.6	49.8	68.7	72.3	72.5	72.5	37.3	42.7
28	Lower Baker	66.9	29.1	0	0	0	0	44.4	10.2	20.6	12.6	1.33	45.3	70.2	58.9	25.5
29	Lower Granite	117	154	133	102	103	113	125	112	172	205	273	496	272	91.4	175
30	Lower Monumental	84.5	153	124	111	106	116	125	129	183	232	292	514	291	99.2	182
31	Mayfield	27.0	20.2	40.8	55.4	55.4	55.4	163	55.4	69.9	69.9	69.9	8.36	128	69.1	66.2
32	McNary	358	290	439	459	598	591	475	478	508	459	398	617	501	401	485
33	Merwin	19.7	17.0	27.0	26.3	57.3	94.8	80.6	33.1	68.1	109	60.5	28.8	64.7	33.4	51.5
34	Monroe Street	5.78	5.98	11.0	7.46	7.48	10.8	9.45	5.99	12.6	14.5	14.4	14.3	14.5	11.8	10.5
35	Mossyrock	50.1	38.4	71.8	88.4	88.1	64.8	254	42.3	56.2	48.3	42.6	0	253	126	94.7
36	Nine Mile	5.79	5.79	9.86	7.02	7.00	9.70	8.38	6.15	13.7	21.5	20.6	20.4	21.4	10.7	11.8
37	North Fork	9.00	8.38	9.54	8.44	6.95	17.9	9.90	18.5	34.9	54.0	47.3	54.0	43.0	15.0	23.1
38	Noxon Rapids	54.6	54.2	62.9	73.4	56.2	119	84.5	56.3	51.3	181	132	290	335	161	125
39	Oak Grove	21.0	16.9	26.7	24.7	17.3	20.1	17.0	17.7	24.5	33.7	33.7	33.7	33.7	25.0	24.4
40	Oxbow	64.4	66.8	74.1	67.3	68.5	67.6	88.2	67.3	81.8	79.9	79.6	88.2	75.5	69.7	74.5
41	Pelton	34.7	34.7	37.5	37.6	34.8	33.8	30.5	33.8	32.8	49.1	35.8	37.2	36.4	38.0	35.8
42	Pelton Rereg	8.09	8.09	6.64	8.88	8.11	7.86	6.96	7.86	7.57	12.0	8.40	8.77	8.54	8.99	8.21
43	Post Falls	1.38	1.61	5.14	3.31	3.16	5.64	5.07	2.49	8.87	15.2	13.6	13.3	15.2	4.78	6.92
44	Priest Rapids	430	311	324	373	520	521	407	377	375	373	277	508	473	466	420
45	River Mill	4.64	4.32	4.91	4.35	3.58	9.21	5.10	9.51	18.0	19.3	19.3	17.3	13.6	7.75	9.74
46	Rock Island	319	316	259	288	354	350	300	285	285	285	298	383	339	332	316
47	Rocky Reach	671	579	414	477	658	644	501	472	472	475	546	818	690	700	583
48	Ross	0	36.2	90.8	50.6	88.2	65.0	169	72.0	66.4	78.2	52.9	38.8	60.4	87.1	72.6
49	Round Butte	86.2	86.2	94.0	94.2	85.9	82.7	73.3	82.4	80.0	125	88.6	93.2	90.9	95.6	88.8
50	Swift 1	31.0	26.3	39.2	15.5	123	74.5	72.1	25.6	45.1	154	0.02	27.4	143	57.9	60.6
51	Swift 2	9.02	7.67	11.8	4.75	42.4	30.3	31.7	12.2	20.6	69.0	0.01	9.81	41.5	15.9	22.0
52	The Dalles	501	407	516	537	723	744	595	604	648	602	493	730	643	566	609
53	Thompson Falls	30.5	29.3	34.6	38.1	32.0	52.8	40.5	32.5	29.7	67.1	52.7	83.3	79.3	62.0	48.0
54	Upper Baker	28.4	22.5	0	26.8	30.5	22.6	42.5	8.03	12.7	2.67	0	51.5	103	60.7	32.3
55	Upper Falls	5.05	5.23	9.08	6.51	6.52	8.96	8.19	5.23	9.78	9.40	8.81	8.74	9.26	9.52	8.02
56	Wanapum	442	354	259	308	480	480	346	318	316	313	261	529	491	484	392
57	Wells	442	366	268	302	430	420	316	297	303	292	321	483	410	454	367
58	Yale	22.7	19.3	32.3	8.57	103	92.2	70.4	32.0	60.5	106	81.0	0	108	42.0	55.1

Table A-7: Regional: Regulated Hydro

Operating Year 2014 Water Year: 1937

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Total Regulated Hydro															
59	Federal Entities	7022	5898	5184	5327	7304	7135	5623	5466	5881	5684	5752	9445	7504	7514	6556
60	Investor Owned Utilities	1497	1343	1325	1337	1691	1912	1769	1328	1596	2275	1852	2512	2730	2013	1810
61	Marketer	475	408	337	381	507	501	396	377	375	395	370	567	506	506	440
62	Municipality	495	466	603	696	677	639	1268	555	651	977	609	892	1577	1001	821
63	Public Utility District	1314	1080	869	1046	1394	1372	1116	1026	990	1106	977	1565	1454	1428	1210
64	**Total Regulated Hydro**	**10803**	**9195**	**8319**	**8787**	**11573**	**11559**	**10173**	**8752**	**9493**	**10438**	**9561**	**14981**	**13771**	**12462**	**10836**

Table A-7: Regional: Regulated Hydro

Operating Year 2015 Water Year: 1937

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Regulated Hydro															
1	Idle Capacity Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	Albeni Falls	18.5	16.8	20.3	32.6	19.5	19.7	14.6	12.3	12.7	26.3	19.7	38.7	43.5	35.7	24.2
3	Alder	37.1	14.7	0	0	0	0.45	45.0	20.9	24.7	30.3	0	26.7	37.0	21.8	18.1
4	Bonneville	187	138	404	415	542	551	493	462	489	368	183	411	327	238	397
5	Boundary	164	149	190	372	254	287	201	164	171	468	252	611	809	412	333
6	Box Canyon Dam	27.2	25.0	30.7	55.6	39.6	44.3	32.1	26.9	27.8	65.3	39.6	73.4	66.0	57.1	44.5
7	Brownlee	156	159	172	155	162	167	217	164	204	203	205	229	196	175	184
8	Cabinet Gorge	39.7	35.4	42.6	49.1	38.0	78.3	55.6	37.8	34.7	119	91.4	194	217	110	83.5
9	Chelan Lake	56.6	36.4	14.6	55.0	55.2	5.27	55.6	54.9	54.2	5.23	4.23	4.25	55.8	56.8	38.5
10	Chief Joseph	1457	1174	806	893	1278	1278	1069	900	895	932	1070	1478	1125	1366	1119
11	Cushman 1	21.4	12.7	1.33	3.20	3.14	3.25	24.1	12.1	8.99	2.54	2.76	3.06	3.47	3.70	7.17
12	Cushman 2	51.2	31.4	0	0.10	0.33	0.49	54.9	29.9	22.2	0.20	0.20	0.13	0.10	0.03	12.4
13	Diablo	27.8	53.4	92.2	55.0	89.0	67.1	157	120	35.5	57.6	73.1	59.9	93.4	106	81.4
14	Dworshak	448	338	185	57.9	57.7	57.5	57.3	57.0	57.0	57.4	58.3	64.0	212	449	143
15	Faraday	8.08	7.53	8.57	7.58	6.25	16.1	8.89	16.6	31.4	43.0	42.5	40.8	16.8	13.5	18.1
16	Gorge	37.2	64.6	105	65.3	101	81.5	167	131	47.9	72.7	88.1	78.3	118	124	95.5
17	Grand Coulee	2628	2074	1418	1603	2301	2278	1887	1573	1533	1539	1722	2367	1922	2485	1950
18	Hells Canyon	124	129	143	130	133	133	173	133	165	161	168	190	161	137	149
19	Hungry Horse	63.4	63.2	72.9	81.7	86.4	86.9	88.0	87.1	84.8	64.4	26.3	27.4	78.8	114	76.4
20	Ice Harbor	109	140	118	108	104	114	122	125	178	179	180	312	255	150	158
21	John Day	751	613	642	667	925	917	799	735	814	793	727	1041	912	799	808
22	Kerr	44.9	44.9	61.7	76.4	55.3	137	95.3	60.2	44.0	170	106	147	178	138	98.2
23	La Grande	63.3	32.1	0	0	0	0.64	63.3	44.2	55.6	61.9	0	43.5	55.2	32.9	31.1
24	Libby	187	187	177	93.9	267	175	87.8	87.0	86.2	85.7	85.7	517	273	185	186
25	Little Falls	9.53	9.35	14.1	7.94	8.70	13.0	17.6	10.2	23.2	29.6	32.9	32.5	34.9	15.4	18.2
26	Little Goose	113	151	129	108	105	112	124	111	170	212	268	485	275	147	179
27	Long Lake	24.1	23.7	34.2	20.6	22.3	31.9	40.9	23.6	50.4	67.1	72.2	72.5	72.5	37.3	41.7
28	Lower Baker	66.9	29.1	0	0	0	0	44.4	11.6	29.0	10.0	1.33	36.1	70.2	58.9	25.5
29	Lower Granite	117	154	133	102	103	113	125	112	172	205	273	493	272	91.4	175
30	Lower Monumental	84.5	153	124	111	106	116	125	129	183	232	292	514	291	99.2	182
31	Mayfield	27.0	20.2	40.8	55.4	55.4	55.4	136	48.8	96.7	69.9	69.9	8.36	94.8	69.1	62.9
32	McNary	358	290	439	453	597	591	521	478	508	459	396	590	477	379	482
33	Merwin	19.7	17.0	27.0	13.7	34.5	67.2	80.6	35.0	77.6	107	35.8	28.8	64.7	33.4	46.1
34	Monroe Street	5.78	5.98	11.0	4.51	5.39	10.3	9.45	5.99	12.6	14.5	14.4	14.3	14.5	11.8	10.0
35	Mossyrock	50.1	38.4	71.8	81.1	79.1	57.8	186	32.4	76.9	40.0	37.2	0	162	126	79.9
36	Nine Mile	5.79	5.79	9.86	4.59	5.28	9.26	8.38	6.15	13.7	21.5	20.6	20.4	21.4	10.7	11.4
37	North Fork	9.00	8.38	9.54	8.44	6.95	17.9	9.90	18.5	34.9	54.0	47.3	54.0	43.0	15.0	23.1
38	Noxon Rapids	54.6	54.2	62.9	72.6	56.2	119	84.5	56.3	51.3	181	132	290	335	161	125
39	Oak Grove	21.0	16.9	26.7	24.7	17.3	20.1	17.0	17.7	24.5	33.7	33.7	33.7	33.7	25.0	24.4
40	Oxbow	64.4	66.8	74.1	67.3	68.5	67.6	88.2	67.3	81.8	79.9	79.6	88.2	75.5	69.7	74.5
41	Pelton	34.7	34.7	37.5	37.6	35.9	32.7	30.5	33.8	35.5	43.6	35.8	37.2	36.4	38.0	35.8
42	Pelton Rereg	8.09	8.09	6.64	8.88	8.43	7.56	6.96	7.86	8.30	10.5	8.40	8.77	8.54	8.99	8.21
43	Post Falls	1.38	1.61	5.14	1.29	1.73	5.27	5.07	2.49	8.87	15.2	13.6	13.3	15.2	4.78	6.60
44	Priest Rapids	430	311	324	367	520	522	451	377	375	373	274	463	430	424	412
45	River Mill	4.64	4.32	4.91	4.35	3.58	9.21	5.10	9.51	18.0	19.3	19.3	17.3	13.6	7.75	9.74
46	Rock Island	319	316	259	284	354	350	323	285	285	285	298	365	323	317	313
47	Rocky Reach	671	579	414	469	657	645	556	472	472	475	543	763	641	653	574
48	Ross	0	36.2	90.8	53.4	98.0	66.9	166	109	26.9	42.1	52.9	38.8	60.4	87.1	71.6
49	Round Butte	86.2	86.2	94.0	94.2	88.9	79.4	73.3	82.4	86.9	109	88.6	93.2	90.9	95.6	88.7
50	Swift 1	31.0	26.3	39.2	0.03	70.0	70.1	72.1	25.7	64.2	104	0.02	27.4	143	57.9	54.1
51	Swift 2	9.02	7.67	11.8	0.01	26.8	28.7	31.7	12.2	30.6	48.3	0.01	9.81	41.5	15.9	20.1
52	The Dalles	501	407	516	530	723	744	649	604	650	599	492	699	612	536	605
53	Thompson Falls	30.5	29.3	34.6	38.1	32.0	52.8	40.5	32.5	29.7	67.1	52.7	83.3	79.3	62.0	48.0
54	Upper Baker	28.4	22.5	0	6.03	31.7	21.1	42.5	8.95	22.1	0	0	39.9	103	60.7	30.3
55	Upper Falls	5.05	5.23	9.08	3.96	4.72	8.65	8.19	5.23	9.78	9.40	8.81	8.74	9.26	9.52	7.63
56	Wanapum	442	354	259	301	479	481	394	318	316	313	258	477	441	436	383
57	Wells	442	366	268	296	421	421	352	297	295	300	326	454	379	424	361
58	Yale	22.7	19.3	32.3	0	50.1	89.6	70.4	32.2	75.5	98.2	48.0	0	108	42.0	49.5

Table A-7: Regional: Regulated Hydro

Operating Year 2015 Water Year: 1937

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Total Regulated Hydro															
59	Federal Entities	7022	5898	5184	5255	7216	7154	6161	5471	5833	5753	5794	9036	7074	7075	6483
60	Investor Owned Utilities	1497	1343	1325	1252	1551	1869	1823	1332	1664	2194	1795	2442	2681	1967	1779
61	Marketer	475	408	337	376	508	500	435	377	378	388	368	528	470	472	434
62	Municipality	495	466	603	699	699	640	1216	725	580	858	586	888	1450	999	808
63	Public Utility District	1314	1080	869	1025	1422	1372	1226	1025	1037	1041	927	1423	1350	1328	1190
64	**Total Regulated Hydro**	**10803**	**9195**	**8319**	**8606**	**11396**	**11535**	**10861**	**8930**	**9492**	**10235**	**9471**	**14316**	**13025**	**11840**	**10694**

Table A-7: Regional: Regulated Hydro

Operating Year 2016 Water Year: 1937

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Regulated Hydro															
1	Idle Capacity Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	Albeni Falls	18.5	16.8	20.4	32.6	19.5	19.7	14.6	12.3	12.7	26.3	19.7	38.7	43.5	35.7	24.2
3	Alder	37.1	14.7	0	0	0	0.45	45.0	20.9	24.7	30.3	0	26.7	37.0	21.8	18.1
4	Bonneville	186	138	391	415	542	551	493	462	489	368	183	411	327	238	396
5	Boundary	164	149	191	372	254	287	201	164	171	468	252	611	809	412	333
6	Box Canyon Dam	27.2	25.0	30.9	55.6	39.6	44.3	32.1	26.9	27.8	65.3	39.6	73.4	66.0	57.1	44.4
7	Brownlee	156	159	172	155	162	167	217	164	204	203	205	229	196	175	184
8	Cabinet Gorge	39.7	35.4	43.0	49.1	38.0	78.3	55.6	37.8	34.7	119	91.4	194	217	110	83.4
9	Chelan Lake	56.6	36.4	14.6	55.0	55.2	5.27	55.6	54.9	54.2	5.23	4.23	4.25	55.8	56.8	38.5
10	Chief Joseph	1454	1152	769	893	1278	1278	1069	900	895	932	1070	1478	1125	1366	1114
11	Cushman 1	36.4	30.5	3.25	3.20	3.14	3.25	24.1	12.1	8.99	2.54	2.76	3.06	3.47	3.70	8.73
12	Cushman 2	67.3	61.8	0.03	0.10	0.33	0.49	54.9	29.9	22.2	0.20	0.20	0.13	0.10	0.03	14.5
13	Diablo	27.8	53.4	99.8	55.0	89.0	67.1	157	120	35.5	57.6	73.1	59.9	93.4	106	82.2
14	Dworshak	448	338	185	57.9	57.7	57.5	57.3	57.0	57.0	57.4	58.3	64.0	212	449	143
15	Faraday	8.08	7.53	8.57	7.58	6.25	16.1	8.89	16.6	31.4	43.0	42.5	40.8	16.8	13.5	18.1
16	Gorge	37.2	64.6	114	65.3	101	81.5	167	131	47.9	72.7	88.1	78.3	118	124	96.3
17	Grand Coulee	2623	2034	1350	1603	2301	2278	1887	1573	1533	1539	1722	2367	1922	2485	1941
18	Hells Canyon	124	129	143	130	133	133	173	133	165	161	168	190	161	137	149
19	Hungry Horse	63.4	63.2	72.9	81.7	86.4	86.9	88.0	87.1	84.8	64.4	26.3	27.4	78.8	114	76.4
20	Ice Harbor	109	140	118	108	104	114	122	125	178	179	180	312	255	150	158
21	John Day	750	604	620	667	925	917	799	735	814	793	727	1041	912	799	806
22	Kerr	44.9	44.9	61.7	76.4	55.3	137	95.3	60.2	44.0	170	106	147	178	138	98.1
23	La Grande	63.3	32.1	0	0	0	0.64	63.3	44.2	55.6	61.9	0	43.5	55.2	32.9	31.1
24	Libby	187	187	177	93.9	267	175	87.8	87.0	86.2	85.7	85.7	517	273	185	186
25	Little Falls	9.53	9.35	19.6	7.94	8.70	13.0	17.6	10.2	23.2	29.6	32.9	32.5	34.9	15.4	18.6
26	Little Goose	113	151	129	108	105	112	124	111	170	212	268	485	275	147	179
27	Long Lake	24.1	23.7	46.6	20.6	22.3	31.9	40.9	23.6	50.4	67.1	72.2	72.5	72.5	37.3	42.7
28	Lower Baker	66.9	29.1	0	0	0	0	44.4	11.6	29.0	10.0	1.33	36.1	70.2	58.9	25.4
29	Lower Granite	117	154	133	102	103	113	125	112	172	205	273	493	271	91.4	174
30	Lower Monumental	84.5	153	124	111	106	116	125	129	183	232	292	514	291	99.2	182
31	Mayfield	27.0	20.2	93.9	55.4	55.4	55.4	136	48.8	96.7	69.9	69.9	8.36	94.8	69.1	67.2
32	McNary	358	285	423	453	597	591	521	478	508	459	396	590	477	379	480
33	Merwin	19.7	17.0	83.9	13.7	34.5	67.2	80.6	35.0	77.6	107	35.8	28.8	64.7	33.4	50.7
34	Monroe Street	5.78	5.98	13.3	4.51	5.39	10.3	9.45	5.99	12.6	14.5	14.4	14.3	14.5	11.8	10.2
35	Mossyrock	50.1	38.4	168	81.1	79.1	57.8	186	32.4	76.9	40.0	37.2	0	162	126	87.7
36	Nine Mile	5.79	5.79	13.5	4.59	5.28	9.26	8.38	6.15	13.7	21.5	20.6	20.4	21.4	10.7	11.7
37	North Fork	9.00	8.38	9.54	8.44	6.95	17.9	9.90	18.5	34.9	54.0	47.3	54.0	43.0	15.0	23.1
38	Noxon Rapids	54.6	54.2	63.3	72.6	56.2	119	84.5	56.3	51.3	181	132	290	335	161	125
39	Oak Grove	21.0	16.9	26.7	24.7	17.3	20.1	17.0	17.7	24.5	33.7	33.7	33.7	33.7	25.0	24.4
40	Oxbow	64.4	66.8	74.1	67.3	68.5	67.6	88.2	67.3	81.8	79.9	79.6	88.2	75.5	69.7	74.5
41	Pelton	34.7	34.7	37.5	37.6	35.9	32.7	30.5	33.8	35.5	43.6	35.8	37.2	36.4	38.0	35.8
42	Pelton Rereg	8.09	8.09	6.64	8.88	8.43	7.56	6.96	7.86	8.30	10.5	8.40	8.77	8.54	8.99	8.21
43	Post Falls	1.38	1.61	8.60	1.29	1.73	5.27	5.07	2.49	8.87	15.2	13.6	13.3	15.2	4.78	6.87
44	Priest Rapids	429	302	309	367	520	522	451	377	375	373	274	463	430	424	411
45	River Mill	4.64	4.32	4.91	4.35	3.58	9.21	5.10	9.51	18.0	19.3	19.3	17.3	13.6	7.75	9.74
46	Rock Island	319	313	250	284	354	350	323	285	285	285	298	365	323	317	312
47	Rocky Reach	670	568	394	469	657	645	556	472	472	475	543	763	641	653	571
48	Ross	0	36.2	100	53.4	98.0	66.9	166	109	26.9	42.1	52.9	38.8	60.4	87.1	72.5
49	Round Butte	86.2	86.2	94.0	94.2	88.9	79.4	73.3	82.4	86.9	109	88.6	93.2	90.9	95.6	88.6
50	Swift 1	31.0	26.3	109	0.03	70.0	70.1	72.1	25.7	64.2	104	0.02	27.4	143	57.9	59.8
51	Swift 2	9.02	7.67	36.8	0.01	26.8	28.7	31.7	12.2	30.6	48.3	0.01	9.81	41.5	15.9	22.2
52	The Dalles	500	401	498	530	723	744	649	604	650	599	492	699	612	536	603
53	Thompson Falls	30.5	29.3	34.6	38.1	32.0	52.8	40.5	32.5	29.7	67.1	52.7	83.3	79.3	62.0	47.9
54	Upper Baker	28.4	22.5	20.9	6.03	31.7	21.1	42.5	8.95	22.1	0	0	39.9	103	60.7	31.9
55	Upper Falls	5.05	5.23	9.73	3.96	4.72	8.65	8.19	5.23	9.78	9.40	8.81	8.74	9.26	9.52	7.68
56	Wanapum	441	344	245	301	479	481	394	318	316	313	258	477	441	436	381
57	Wells	441	359	256	296	421	421	352	297	295	300	326	454	379	424	359
58	Yale	22.7	19.3	94.6	0	50.1	89.6	70.4	32.2	75.5	98.2	48.0	0	108	42.0	54.5

Table A-7: Regional: Regulated Hydro

Operating Year 2016 Water Year: 1937

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Total Regulated Hydro															
59	Federal Entities	7011	5817	5010	5255	7216	7154	6161	5471	5833	5753	5794	9036	7074	7075	6462
60	Investor Owned Utilities	1496	1333	1545	1252	1551	1869	1823	1332	1664	2194	1795	2442	2681	1967	1795
61	Marketer	474	401	324	376	508	500	435	377	378	388	368	528	470	472	432
62	Municipality	526	514	781	699	699	640	1216	725	580	858	586	888	1450	999	826
63	Public Utility District	1311	1059	855	1025	1422	1372	1226	1025	1037	1041	927	1423	1350	1328	1187
64	**Total Regulated Hydro**	**10819**	**9123**	**8515**	**8606**	**11396**	**11535**	**10861**	**8930**	**9492**	**10235**	**9471**	**14316**	**13025**	**11840**	**10703**

Table A-7: Regional: Regulated Hydro

Operating Year 2017 Water Year: 1937

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Regulated Hydro															
1	Idle Capacity Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	Albeni Falls	18.5	16.8	20.4	32.6	19.5	19.7	14.6	12.3	12.7	26.3	19.7	38.7	43.5	35.7	24.3
3	Alder	37.1	14.7	0	0	0	0.45	45.0	20.9	24.7	30.3	0	26.7	37.0	21.8	18.1
4	Bonneville	186	138	391	415	542	551	493	462	489	368	183	411	327	238	396
5	Boundary	164	149	191	372	254	287	201	164	171	468	252	611	809	412	333
6	Box Canyon Dam	27.2	25.0	30.9	55.6	39.6	44.3	32.1	26.9	27.8	65.3	39.6	73.4	66.0	57.1	44.5
7	Brownlee	156	159	172	155	162	167	217	164	204	203	205	229	196	175	184
8	Cabinet Gorge	39.7	35.4	43.0	49.1	38.0	78.3	55.6	37.8	34.7	119	91.4	194	217	110	83.5
9	Chelan Lake	56.6	36.4	14.6	55.0	55.2	5.27	55.6	54.9	54.2	5.23	4.23	4.25	55.8	56.8	38.5
10	Chief Joseph	1454	1152	769	893	1278	1278	1069	900	895	932	1070	1478	1125	1366	1115
11	Cushman 1	36.4	30.5	3.25	3.20	3.14	3.25	24.1	12.1	8.99	2.54	2.76	3.06	3.47	3.70	8.72
12	Cushman 2	67.3	61.8	0.03	0.10	0.33	0.49	54.9	29.9	22.2	0.20	0.20	0.13	0.10	0.03	14.4
13	Diablo	27.8	53.4	99.8	55.0	89.0	67.1	157	120	35.5	57.6	73.1	59.9	93.4	106	82.0
14	Dworshak	448	338	185	57.9	57.7	57.5	57.3	57.0	57.0	57.4	58.3	64.0	212	449	143
15	Faraday	8.08	7.53	8.57	7.58	6.25	16.1	8.89	16.6	31.4	43.0	42.5	40.8	16.8	13.5	18.1
16	Gorge	37.2	64.6	114	65.3	101	81.5	167	131	47.9	72.7	88.1	78.3	118	124	96.2
17	Grand Coulee	2623	2034	1350	1603	2301	2278	1887	1573	1533	1539	1722	2367	1922	2485	1942
18	Hells Canyon	124	129	143	130	133	133	173	133	165	161	168	190	161	137	149
19	Hungry Horse	63.4	63.2	72.9	81.7	86.4	86.9	88.0	87.1	84.8	64.4	26.3	27.4	78.8	114	76.4
20	Ice Harbor	109	140	118	108	104	114	122	125	178	179	180	312	255	150	158
21	John Day	750	604	620	667	925	917	799	735	814	793	727	1041	912	799	806
22	Kerr	44.9	44.9	61.7	76.4	55.3	137	95.3	60.2	44.0	170	106	147	178	138	98.2
23	La Grande	63.3	32.1	0	0	0	0.64	63.3	44.2	55.6	61.9	0	43.5	55.2	32.9	31.1
24	Libby	187	187	177	93.9	267	175	87.8	87.0	86.2	85.7	85.7	517	273	185	186
25	Little Falls	9.53	9.35	19.6	7.94	8.70	13.0	17.6	10.2	23.2	29.6	32.9	32.5	34.9	15.4	18.6
26	Little Goose	113	151	129	108	105	112	124	111	170	212	268	485	275	147	179
27	Long Lake	24.1	23.7	46.6	20.6	22.3	31.9	40.9	23.6	50.4	67.1	72.2	72.5	72.5	37.3	42.7
28	Lower Baker	66.9	29.1	0	0	0	0	44.4	11.6	29.0	10.0	1.33	36.1	70.2	58.9	25.5
29	Lower Granite	117	154	133	102	103	113	125	112	172	205	273	485	270	91.4	174
30	Lower Monumental	84.5	153	124	111	106	116	125	129	183	232	292	514	291	99.2	182
31	Mayfield	27.0	20.2	93.9	55.4	55.4	55.4	136	48.8	96.7	69.9	69.9	8.36	94.8	69.1	67.3
32	McNary	358	285	423	453	597	591	521	478	508	459	396	590	477	379	481
33	Merwin	19.7	17.0	83.9	13.7	34.5	67.2	80.6	35.0	77.6	107	35.8	28.8	64.7	33.4	50.8
34	Monroe Street	5.78	5.98	13.3	4.51	5.39	10.3	9.45	5.99	12.6	14.5	14.4	14.3	14.5	11.8	10.2
35	Mossyrock	50.1	38.4	168	81.1	79.1	57.8	186	32.4	76.9	40.0	37.2	0	162	126	87.8
36	Nine Mile	5.79	5.79	13.5	4.59	5.28	9.26	8.38	6.15	13.7	21.5	20.6	20.4	21.4	10.7	11.7
37	North Fork	9.00	8.38	9.54	8.44	6.95	17.9	9.90	18.5	34.9	54.0	47.3	54.0	43.0	15.0	23.1
38	Noxon Rapids	54.6	54.2	63.3	72.6	56.2	119	84.5	56.3	51.3	181	132	290	335	161	125
39	Oak Grove	21.0	16.9	26.7	24.7	17.3	20.1	17.0	17.7	24.5	33.7	33.7	33.7	33.7	25.0	24.4
40	Oxbow	64.4	66.8	74.1	67.3	68.5	67.6	88.2	67.3	81.8	79.9	79.6	88.2	75.5	69.7	74.5
41	Pelton	34.7	34.7	37.5	37.6	35.9	32.7	30.5	33.8	35.5	43.6	35.8	37.2	36.4	38.0	35.8
42	Pelton Rereg	8.09	8.09	6.64	8.88	8.43	7.56	6.96	7.86	8.30	10.5	8.40	8.77	8.54	8.99	8.21
43	Post Falls	1.38	1.61	8.60	1.29	1.73	5.27	5.07	2.49	8.87	15.2	13.6	13.3	15.2	4.78	6.88
44	Priest Rapids	429	302	309	367	520	522	451	377	375	373	274	463	430	424	411
45	River Mill	4.64	4.32	4.91	4.35	3.58	9.21	5.10	9.51	18.0	19.3	19.3	17.3	13.6	7.75	9.74
46	Rock Island	319	313	250	284	354	350	323	285	285	285	298	365	323	317	312
47	Rocky Reach	670	568	394	469	657	645	556	472	472	475	543	763	641	653	572
48	Ross	0	36.2	100	53.4	98.0	66.9	166	109	26.9	42.1	52.9	38.8	60.4	87.1	72.4
49	Round Butte	86.2	86.2	94.0	94.2	88.9	79.4	73.3	82.4	86.9	109	88.6	93.2	90.9	95.6	88.7
50	Swift 1	31.0	26.3	109	0.03	70.0	70.1	72.1	25.7	64.2	104	0.02	27.4	143	57.9	59.8
51	Swift 2	9.02	7.67	36.8	0.01	26.8	28.7	31.7	12.2	30.6	48.3	0.01	9.81	41.5	15.9	22.2
52	The Dalles	500	401	498	530	723	744	649	604	650	599	492	699	612	536	603
53	Thompson Falls	30.5	29.3	34.6	38.1	32.0	52.8	40.5	32.5	29.7	67.1	52.7	83.3	79.3	62.0	48.0
54	Upper Baker	28.4	22.5	20.9	6.03	31.7	21.1	42.5	8.95	22.1	0	0	39.9	103	60.7	32.0
55	Upper Falls	5.05	5.23	9.73	3.96	4.72	8.65	8.19	5.23	9.78	9.40	8.81	8.74	9.26	9.52	7.68
56	Wanapum	441	344	245	301	479	481	394	318	316	313	258	477	441	436	381
57	Wells	441	359	256	296	421	421	352	297	295	300	326	454	379	424	360
58	Yale	22.7	19.3	94.6	0	50.1	89.6	70.4	32.2	75.5	98.2	48.0	0	108	42.0	54.6

Table A-7: Regional: Regulated Hydro

Operating Year 2017 Water Year: 1937

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Total Regulated Hydro															
59	Federal Entities	7011	5817	5010	5255	7216	7154	6161	5471	5833	5753	5793	9029	7073	7075	6464
60	Investor Owned Utilities	1496	1333	1545	1252	1551	1869	1823	1332	1664	2194	1795	2442	2681	1967	1796
61	Marketer	474	401	324	376	508	500	435	377	378	388	368	528	470	472	432
62	Municipality	526	514	781	699	699	640	1216	725	580	858	586	888	1450	999	826
63	Public Utility District	1311	1059	855	1025	1422	1372	1226	1025	1037	1041	927	1423	1350	1328	1187
64	**Total Regulated Hydro**	**10819**	**9123**	**8515**	**8606**	**11396**	**11535**	**10861**	**8930**	**9492**	**10235**	**9471**	**14309**	**13024**	**11840**	**10707**

Table A-7: Regional: Regulated Hydro

Operating Year 2018 Water Year: 1937

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Regulated Hydro															
1	Idle Capacity Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	Albeni Falls	18.5	16.8	20.4	32.6	19.5	19.7	14.6	12.3	12.7	26.3	19.7	38.7	43.5	35.7	24.3
3	Alder	37.1	14.7	0	0	0	0.45	45.0	20.9	24.7	30.3	0	26.7	37.0	21.8	18.1
4	Bonneville	186	138	391	415	542	551	493	462	489	368	183	411	327	238	396
5	Boundary	164	149	191	372	254	287	201	164	171	468	252	611	809	412	333
6	Box Canyon Dam	27.2	25.0	30.9	55.6	39.6	44.3	32.1	26.9	27.8	65.3	39.6	73.4	66.0	57.1	44.5
7	Brownlee	156	159	172	155	162	167	217	164	204	203	205	229	196	175	184
8	Cabinet Gorge	39.7	35.4	43.0	49.1	38.0	78.3	55.6	37.8	34.7	119	91.4	194	217	110	83.5
9	Chelan Lake	56.6	36.4	14.6	55.0	55.2	5.27	55.6	54.9	54.2	5.23	4.23	4.25	55.8	56.8	38.5
10	Chief Joseph	1454	1152	769	893	1278	1278	1069	900	895	932	1070	1478	1125	1366	1115
11	Cushman 1	36.4	30.5	3.25	3.20	3.14	3.25	24.1	12.1	8.99	2.54	2.76	3.06	3.47	3.70	8.72
12	Cushman 2	67.3	61.8	0.03	0.10	0.33	0.49	54.9	29.9	22.2	0.20	0.20	0.13	0.10	0.03	14.4
13	Diablo	27.8	53.4	99.8	55.0	89.0	67.1	157	120	35.5	57.6	73.1	59.9	93.4	106	82.0
14	Dworshak	448	338	185	57.9	57.7	57.5	57.3	57.0	57.0	57.4	58.3	64.0	212	449	143
15	Faraday	8.08	7.53	8.57	7.58	6.25	16.1	8.89	16.6	31.4	43.0	42.5	40.8	16.8	13.5	18.1
16	Gorge	37.2	64.6	114	65.3	101	81.5	167	131	47.9	72.7	88.1	78.3	118	124	96.2
17	Grand Coulee	2623	2034	1350	1603	2301	2278	1887	1573	1533	1539	1722	2367	1922	2485	1942
18	Hells Canyon	124	129	143	130	133	133	173	133	165	161	168	190	161	137	149
19	Hungry Horse	63.4	63.2	72.9	81.7	86.4	86.9	88.0	87.1	84.8	64.4	26.3	27.4	78.8	114	76.4
20	Ice Harbor	109	140	118	108	104	114	122	125	178	179	180	312	255	150	158
21	John Day	750	604	620	667	925	917	799	735	814	793	727	1041	912	799	806
22	Kerr	44.9	44.9	61.7	76.4	55.3	137	95.3	60.2	44.0	170	106	147	178	138	98.2
23	La Grande	63.3	32.1	0	0	0	0.64	63.3	44.2	55.6	61.9	0	43.5	55.2	32.9	31.1
24	Libby	187	187	177	93.9	267	175	87.8	87.0	86.2	85.7	85.7	517	273	185	186
25	Little Falls	9.53	9.35	19.6	7.94	8.70	13.0	17.6	10.2	23.2	29.6	32.9	32.5	34.9	15.4	18.6
26	Little Goose	113	151	129	108	105	112	124	111	170	212	268	485	275	147	179
27	Long Lake	24.1	23.7	46.6	20.6	22.3	31.9	40.9	23.6	50.4	67.1	72.2	72.5	72.5	37.3	42.7
28	Lower Baker	66.9	29.1	0	0	0	0	44.4	11.6	29.0	10.0	1.33	36.1	70.2	58.9	25.5
29	Lower Granite	117	154	133	102	103	113	125	112	172	205	273	489	272	91.4	174
30	Lower Monumental	84.5	153	124	111	106	116	125	129	183	232	292	514	291	99.2	182
31	Mayfield	27.0	20.2	93.9	55.4	55.4	55.4	136	48.8	96.7	69.9	69.9	8.36	94.8	69.1	67.3
32	McNary	358	285	423	453	597	591	521	478	508	459	396	590	477	379	481
33	Merwin	19.7	17.0	83.9	13.7	34.5	67.2	80.6	35.0	77.6	107	35.8	28.8	64.7	33.4	50.8
34	Monroe Street	5.78	5.98	13.3	4.51	5.39	10.3	9.45	5.99	12.6	14.5	14.4	14.3	14.5	11.8	10.2
35	Mossyrock	50.1	38.4	168	81.1	79.1	57.8	186	32.4	76.9	40.0	37.2	0	162	126	87.8
36	Nine Mile	5.79	5.79	13.5	4.59	5.28	9.26	8.38	6.15	13.7	21.5	20.6	20.4	21.4	10.7	11.7
37	North Fork	9.00	8.38	9.54	8.44	6.95	17.9	9.90	18.5	34.9	54.0	47.3	54.0	43.0	15.0	23.1
38	Noxon Rapids	54.6	54.2	63.3	72.6	56.2	119	84.5	56.3	51.3	181	132	290	335	161	125
39	Oak Grove	21.0	16.9	26.7	24.7	17.3	20.1	17.0	17.7	24.5	33.7	33.7	33.7	33.7	25.0	24.4
40	Oxbow	64.4	66.8	74.1	67.3	68.5	67.6	88.2	67.3	81.8	79.9	79.6	88.2	75.5	69.7	74.5
41	Pelton	34.7	34.7	37.5	37.6	35.9	32.7	30.5	33.8	35.5	43.6	35.8	37.2	36.4	38.0	35.8
42	Pelton Rereg	8.09	8.09	6.64	8.88	8.43	7.56	6.96	7.86	8.30	10.5	8.40	8.77	8.54	8.99	8.21
43	Post Falls	1.38	1.61	8.60	1.29	1.73	5.27	5.07	2.49	8.87	15.2	13.6	13.3	15.2	4.78	6.88
44	Priest Rapids	429	302	309	367	520	522	451	377	375	373	274	463	430	424	411
45	River Mill	4.64	4.32	4.91	4.35	3.58	9.21	5.10	9.51	18.0	19.3	19.3	17.3	13.6	7.75	9.74
46	Rock Island	319	313	250	284	354	350	323	285	285	285	298	365	323	317	312
47	Rocky Reach	670	568	394	469	657	645	556	472	472	475	543	763	641	653	572
48	Ross	0	36.2	100	53.4	98.0	66.9	166	109	26.9	42.1	52.9	38.8	60.4	87.1	72.4
49	Round Butte	86.2	86.2	94.0	94.2	88.9	79.4	73.3	82.4	86.9	109	88.6	93.2	90.9	95.6	88.7
50	Swift 1	31.0	26.3	109	0.03	70.0	70.1	72.1	25.7	64.2	104	0.02	27.4	143	57.9	59.8
51	Swift 2	9.02	7.67	36.8	0.01	26.8	28.7	31.7	12.2	30.6	48.3	0.01	9.81	41.5	15.9	22.2
52	The Dalles	500	401	498	530	723	744	649	604	650	599	492	699	612	536	603
53	Thompson Falls	30.5	29.3	34.6	38.1	32.0	52.8	40.5	32.5	29.7	67.1	52.7	83.3	79.3	62.0	48.0
54	Upper Baker	28.4	22.5	20.9	6.03	31.7	21.1	42.5	8.95	22.1	0	0	39.9	103	60.7	32.0
55	Upper Falls	5.05	5.23	9.73	3.96	4.72	8.65	8.19	5.23	9.78	9.40	8.81	8.74	9.26	9.52	7.68
56	Wanapum	441	344	245	301	479	481	394	318	316	313	258	477	441	436	381
57	Wells	441	359	256	296	421	421	352	297	295	300	326	454	379	424	360
58	Yale	22.7	19.3	94.6	0	50.1	89.6	70.4	32.2	75.5	98.2	48.0	0	108	42.0	54.6

Table A-7: Regional: Regulated Hydro

Operating Year 2018 Water Year: 1937

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Total Regulated Hydro															
59	Federal Entities	7011	5817	5010	5255	7216	7154	6161	5471	5833	5753	5793	9033	7074	7075	6465
60	Investor Owned Utilities	1496	1333	1545	1252	1551	1869	1823	1332	1664	2194	1795	2442	2681	1967	1796
61	Marketer	474	401	324	376	508	500	435	377	378	388	368	528	470	472	432
62	Municipality	526	514	781	699	699	640	1216	725	580	858	586	888	1450	999	826
63	Public Utility District	1311	1059	855	1025	1422	1372	1226	1025	1037	1041	927	1423	1350	1328	1187
64	**Total Regulated Hydro**	**10819**	**9123**	**8515**	**8606**	**11396**	**11535**	**10861**	**8930**	**9492**	**10235**	**9471**	**14313**	**13025**	**11840**	**10707**

Table A-7: Regional: Regulated Hydro

Operating Year 2019 Water Year: 1937

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Regulated Hydro															
1	Idle Capacity Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	Albeni Falls	18.5	16.8	20.4	32.6	19.5	19.7	14.6	12.3	12.7	26.3	19.7	38.7	43.5	35.7	24.3
3	Alder	37.1	14.7	0	0	0	0.45	45.0	20.9	24.7	30.3	0	26.7	37.0	21.8	18.1
4	Bonneville	186	138	391	415	542	551	493	462	489	368	183	411	327	238	396
5	Boundary	164	149	191	372	254	287	201	164	171	468	252	611	809	412	333
6	Box Canyon Dam	27.2	25.0	30.9	55.6	39.6	44.3	32.1	26.9	27.8	65.3	39.6	73.4	66.0	57.1	44.5
7	Brownlee	156	159	172	155	162	167	217	164	204	203	205	229	196	175	184
8	Cabinet Gorge	39.7	35.4	43.0	49.1	38.0	78.3	55.6	37.8	34.7	119	91.4	194	217	110	83.5
9	Chelan Lake	56.6	36.4	14.6	55.0	55.2	5.27	55.6	54.9	54.2	5.23	4.23	4.25	55.8	56.8	38.5
10	Chief Joseph	1454	1152	769	893	1278	1278	1069	900	895	932	1070	1478	1125	1366	1115
11	Cushman 1	36.4	30.5	3.25	3.20	3.14	3.25	24.1	12.1	8.99	2.54	2.76	3.06	3.47	3.70	8.72
12	Cushman 2	67.3	61.8	0.03	0.10	0.33	0.49	54.9	29.9	22.2	0.20	0.20	0.13	0.10	0.03	14.4
13	Diablo	27.8	53.4	99.8	55.0	89.0	67.1	157	120	35.5	57.6	73.1	59.9	93.4	106	82.0
14	Dworshak	448	338	185	57.9	57.7	57.5	57.3	57.0	57.0	57.4	58.3	64.0	212	449	143
15	Faraday	8.08	7.53	8.57	7.58	6.25	16.1	8.89	16.6	31.4	43.0	42.5	40.8	16.8	13.5	18.1
16	Gorge	37.2	64.6	114	65.3	101	81.5	167	131	47.9	72.7	88.1	78.3	118	124	96.2
17	Grand Coulee	2623	2034	1350	1603	2301	2278	1887	1573	1533	1539	1722	2367	1922	2485	1942
18	Hells Canyon	124	129	143	130	133	133	173	133	165	161	168	190	161	137	149
19	Hungry Horse	63.4	63.2	72.9	81.7	86.4	86.9	88.0	87.1	84.8	64.4	26.3	27.4	78.8	114	76.4
20	Ice Harbor	109	140	118	108	104	114	122	125	178	179	180	312	255	150	158
21	John Day	750	604	620	667	925	917	799	735	814	793	727	1041	912	799	806
22	Kerr	44.9	44.9	61.7	76.4	55.3	137	95.3	60.2	44.0	170	106	147	178	138	98.2
23	La Grande	63.3	32.1	0	0	0	0.64	63.3	44.2	55.6	61.9	0	43.5	55.2	32.9	31.1
24	Libby	187	187	177	93.9	267	175	87.8	87.0	86.2	85.7	85.7	517	273	185	186
25	Little Falls	9.53	9.35	19.6	7.94	8.70	13.0	17.6	10.2	23.2	29.6	32.9	32.5	34.9	15.4	18.6
26	Little Goose	113	151	129	108	105	112	124	111	170	212	268	485	275	147	179
27	Long Lake	24.1	23.7	46.6	20.6	22.3	31.9	40.9	23.6	50.4	67.1	72.2	72.5	72.5	37.3	42.7
28	Lower Baker	66.9	29.1	0	0	0	0	44.4	11.6	29.0	10.0	1.33	36.1	70.2	58.9	25.5
29	Lower Granite	117	154	133	102	103	113	125	112	172	205	273	483	268	91.2	173
30	Lower Monumental	84.5	153	124	111	106	116	125	129	183	232	292	514	291	99.2	182
31	Mayfield	27.0	20.2	93.9	55.4	55.4	55.4	136	48.8	96.7	69.9	69.9	8.36	94.8	69.1	67.3
32	McNary	358	285	423	453	597	591	521	478	508	459	396	590	477	379	481
33	Merwin	19.7	17.0	83.9	13.7	34.5	67.2	80.6	35.0	77.6	107	35.8	28.8	64.7	33.4	50.8
34	Monroe Street	5.78	5.98	13.3	4.51	5.39	10.3	9.45	5.99	12.6	14.5	14.4	14.3	14.5	11.8	10.2
35	Mossyrock	50.1	38.4	168	81.1	79.1	57.8	186	32.4	76.9	40.0	37.2	0	162	126	87.8
36	Nine Mile	5.79	5.79	13.5	4.59	5.28	9.26	8.38	6.15	13.7	21.5	20.6	20.4	21.4	10.7	11.7
37	North Fork	9.00	8.38	9.54	8.44	6.95	17.9	9.90	18.5	34.9	54.0	47.3	54.0	43.0	15.0	23.1
38	Noxon Rapids	54.6	54.2	63.3	72.6	56.2	119	84.5	56.3	51.3	181	132	290	335	161	125
39	Oak Grove	21.0	16.9	26.7	24.7	17.3	20.1	17.0	17.7	24.5	33.7	33.7	33.7	33.7	25.0	24.4
40	Oxbow	64.4	66.8	74.1	67.3	68.5	67.6	88.2	67.3	81.8	79.9	79.6	88.2	75.5	69.7	74.5
41	Pelton	34.7	34.7	37.5	37.6	35.9	32.7	30.5	33.8	35.5	43.6	35.8	37.2	36.4	38.0	35.8
42	Pelton Rereg	8.09	8.09	6.64	8.88	8.43	7.56	6.96	7.86	8.30	10.5	8.40	8.77	8.54	8.99	8.21
43	Post Falls	1.38	1.61	8.60	1.29	1.73	5.27	5.07	2.49	8.87	15.2	13.6	13.3	15.2	4.78	6.88
44	Priest Rapids	429	302	309	367	520	522	451	377	375	373	274	463	430	424	411
45	River Mill	4.64	4.32	4.91	4.35	3.58	9.21	5.10	9.51	18.0	19.3	19.3	17.3	13.6	7.75	9.74
46	Rock Island	319	313	250	284	354	350	323	285	285	285	298	365	323	317	312
47	Rocky Reach	670	568	394	469	657	645	556	472	472	475	543	763	641	653	572
48	Ross	0	36.2	100	53.4	98.0	66.9	166	109	26.9	42.1	52.9	38.8	60.4	87.1	72.4
49	Round Butte	86.2	86.2	94.0	94.2	88.9	79.4	73.3	82.4	86.9	109	88.6	93.2	90.9	95.6	88.7
50	Swift 1	31.0	26.3	109	0.03	70.0	70.1	72.1	25.7	64.2	104	0.02	27.4	143	57.9	59.8
51	Swift 2	9.02	7.67	36.8	0.01	26.8	28.7	31.7	12.2	30.6	48.3	0.01	9.81	41.5	15.9	22.2
52	The Dalles	500	401	498	530	723	744	649	604	650	599	492	699	612	536	603
53	Thompson Falls	30.5	29.3	34.6	38.1	32.0	52.8	40.5	32.5	29.7	67.1	52.7	83.3	79.3	62.0	48.0
54	Upper Baker	28.4	22.5	20.9	6.03	31.7	21.1	42.5	8.95	22.1	0	0	39.9	103	60.7	32.0
55	Upper Falls	5.05	5.23	9.73	3.96	4.72	8.65	8.19	5.23	9.78	9.40	8.81	8.74	9.26	9.52	7.68
56	Wanapum	441	344	245	301	479	481	394	318	316	313	258	477	441	436	381
57	Wells	441	359	256	296	421	421	352	297	295	300	326	454	379	424	360
58	Yale	22.7	19.3	94.6	0	50.1	89.6	70.4	32.2	75.5	98.2	48.0	0	108	42.0	54.6

Table A-7: Regional: Regulated Hydro

Operating Year 2019 Water Year: 1937

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Total Regulated Hydro															
59	Federal Entities	7011	5817	5010	5255	7216	7154	6161	5471	5833	5753	5794	9026	7071	7074	6464
60	Investor Owned Utilities	1496	1333	1394	1076	1301	1620	1615	1157	1489	2016	1602	2173	2457	1716	1604
61	Marketer	474	401	324	376	508	500	435	377	378	388	368	528	470	472	432
62	Municipality	526	514	781	699	699	640	1216	725	580	858	586	888	1450	999	826
63	Public Utility District	1311	1059	1006	1201	1671	1621	1435	1201	1212	1219	1120	1691	1574	1579	1380
64	**Total Regulated Hydro**	**10819**	**9123**	**8515**	**8606**	**11396**	**11535**	**10861**	**8930**	**9491**	**10235**	**9471**	**14306**	**13022**	**11840**	**10706**

Table A-7: Regional: Regulated Hydro

Operating Year 2020 Water Year: 1937

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Regulated Hydro															
1	Idle Capacity Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	Albeni Falls	18.5	16.8	20.4	32.6	19.5	19.7	14.6	12.3	12.7	26.3	19.7	38.7	43.5	35.7	24.2
3	Alder	37.1	14.7	0	0	0	0.45	45.0	20.9	24.7	30.3	0	26.7	37.0	21.8	18.1
4	Bonneville	186	138	391	415	542	551	493	462	489	368	183	411	327	238	396
5	Boundary	164	149	191	372	254	287	201	164	171	468	252	611	809	412	333
6	Box Canyon Dam	27.2	25.0	30.9	55.6	39.6	44.3	32.1	26.9	27.8	65.3	39.6	73.4	66.0	57.1	44.4
7	Brownlee	156	159	172	155	162	167	217	164	204	203	205	229	196	175	184
8	Cabinet Gorge	39.7	35.4	43.0	49.1	38.0	78.3	55.6	37.8	34.7	119	91.4	194	217	110	83.4
9	Chelan Lake	56.6	36.4	14.6	55.0	55.2	5.27	55.6	54.9	54.2	5.23	4.23	4.25	55.8	56.8	38.5
10	Chief Joseph	1454	1152	769	893	1278	1278	1069	900	895	932	1070	1478	1125	1366	1114
11	Cushman 1	36.4	30.5	3.25	3.20	3.14	3.25	24.1	12.1	8.99	2.54	2.76	3.06	3.47	3.70	8.73
12	Cushman 2	67.3	61.8	0.03	0.10	0.33	0.49	54.9	29.9	22.2	0.20	0.20	0.13	0.10	0.03	14.5
13	Diablo	27.8	53.4	99.8	55.0	89.0	67.1	157	120	35.5	57.6	73.1	59.9	93.4	106	82.2
14	Dworshak	448	338	185	57.9	57.7	57.5	57.3	57.0	57.0	57.4	58.3	64.0	212	449	143
15	Faraday	8.08	7.53	8.57	7.58	6.25	16.1	8.89	16.6	31.4	43.0	42.5	40.8	16.8	13.5	18.1
16	Gorge	37.2	64.6	114	65.3	101	81.5	167	131	47.9	72.7	88.1	78.3	118	124	96.3
17	Grand Coulee	2623	2034	1350	1603	2301	2278	1887	1573	1533	1539	1722	2367	1922	2485	1941
18	Hells Canyon	124	129	143	130	133	133	173	133	165	161	168	190	161	137	149
19	Hungry Horse	63.4	63.2	72.9	81.7	86.4	86.9	88.0	87.1	84.8	64.4	26.3	27.4	78.8	114	76.4
20	Ice Harbor	109	140	118	108	104	114	122	125	178	179	180	312	255	150	158
21	John Day	750	604	620	667	925	917	799	735	814	793	727	1041	912	799	806
22	Kerr	44.9	44.9	61.7	76.4	55.3	137	95.3	60.2	44.0	170	106	147	178	138	98.1
23	La Grande	63.3	32.1	0	0	0	0.64	63.3	44.2	55.6	61.9	0	43.5	55.2	32.9	31.1
24	Libby	187	187	177	93.9	267	175	87.8	87.0	86.2	85.7	85.7	517	273	185	186
25	Little Falls	9.53	9.35	19.6	7.94	8.70	13.0	17.6	10.2	23.2	29.6	32.9	32.5	34.9	15.4	18.6
26	Little Goose	113	151	129	108	105	112	124	111	170	212	268	485	275	147	179
27	Long Lake	24.1	23.7	46.6	20.6	22.3	31.9	40.9	23.6	50.4	67.1	72.2	72.5	72.5	37.3	42.7
28	Lower Baker	66.9	29.1	0	0	0	0	44.4	11.6	29.0	10.0	1.33	36.1	70.2	58.9	25.4
29	Lower Granite	117	154	133	102	103	113	125	112	172	203	271	474	267	91.4	172
30	Lower Monumental	84.5	153	124	111	106	116	125	129	183	232	292	514	291	99.2	182
31	Mayfield	27.0	20.2	93.9	55.4	55.4	55.4	136	48.8	96.7	69.9	69.9	8.36	94.8	69.1	67.2
32	McNary	358	285	423	453	597	591	521	478	508	459	396	590	477	379	480
33	Merwin	19.7	17.0	83.9	13.7	34.5	67.2	80.6	35.0	77.6	107	35.8	28.8	64.7	33.4	50.7
34	Monroe Street	5.78	5.98	13.3	4.51	5.39	10.3	9.45	5.99	12.6	14.5	14.4	14.3	14.5	11.8	10.2
35	Mossyrock	50.1	38.4	168	81.1	79.1	57.8	186	32.4	76.9	40.0	37.2	0	162	126	87.7
36	Nine Mile	5.79	5.79	13.5	4.59	5.28	9.26	8.38	6.15	13.7	21.5	20.6	20.4	21.4	10.7	11.7
37	North Fork	9.00	8.38	9.54	8.44	6.95	17.9	9.90	18.5	34.9	54.0	47.3	54.0	43.0	15.0	23.1
38	Noxon Rapids	54.6	54.2	63.3	72.6	56.2	119	84.5	56.3	51.3	181	132	290	335	161	125
39	Oak Grove	21.0	16.9	26.7	24.7	17.3	20.1	17.0	17.7	24.5	33.7	33.7	33.7	33.7	25.0	24.4
40	Oxbow	64.4	66.8	74.1	67.3	68.5	67.6	88.2	67.3	81.8	79.9	79.6	88.2	75.5	69.7	74.5
41	Pelton	34.7	34.7	37.5	37.6	35.9	32.7	30.5	33.8	35.5	43.6	35.8	37.2	36.4	38.0	35.8
42	Pelton Rereg	8.09	8.09	6.64	8.88	8.43	7.56	6.96	7.86	8.30	10.5	8.40	8.77	8.54	8.99	8.21
43	Post Falls	1.38	1.61	8.60	1.29	1.73	5.27	5.07	2.49	8.87	15.2	13.6	13.3	15.2	4.78	6.87
44	Priest Rapids	429	302	309	367	520	522	451	377	375	373	274	463	430	424	411
45	River Mill	4.64	4.32	4.91	4.35	3.58	9.21	5.10	9.51	18.0	19.3	19.3	17.3	13.6	7.75	9.74
46	Rock Island	319	313	250	284	354	350	323	285	285	285	298	365	323	317	312
47	Rocky Reach	670	568	394	469	657	645	556	472	472	475	543	763	641	653	571
48	Ross	0	36.2	100	53.4	98.0	66.9	166	109	26.9	42.1	52.9	38.8	60.4	87.1	72.5
49	Round Butte	86.2	86.2	94.0	94.2	88.9	79.4	73.3	82.4	86.9	109	88.6	93.2	90.9	95.6	88.6
50	Swift 1	31.0	26.3	109	0.03	70.0	70.1	72.1	25.7	64.2	104	0.02	27.4	143	57.9	59.8
51	Swift 2	9.02	7.67	36.8	0.01	26.8	28.7	31.7	12.2	30.6	48.3	0.01	9.81	41.5	15.9	22.2
52	The Dalles	500	401	498	530	723	744	649	604	650	599	492	699	612	536	603
53	Thompson Falls	30.5	29.3	34.6	38.1	32.0	52.8	40.5	32.5	29.7	67.1	52.7	83.3	79.3	62.0	47.9
54	Upper Baker	28.4	22.5	20.9	6.03	31.7	21.1	42.5	8.95	22.1	0	0	39.9	103	60.7	31.9
55	Upper Falls	5.05	5.23	9.73	3.96	4.72	8.65	8.19	5.23	9.78	9.40	8.81	8.74	9.26	9.52	7.68
56	Wanapum	441	344	245	301	479	481	394	318	316	313	258	477	441	436	381
57	Wells	441	359	256	296	421	421	352	297	295	300	326	454	379	424	359
58	Yale	22.7	19.3	94.6	0	50.1	89.6	70.4	32.2	75.5	98.2	48.0	0	108	42.0	54.5

Table A-7: Regional: Regulated Hydro

Operating Year 2020 Water Year: 1937

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Total Regulated Hydro															
59	Federal Entities	7011	5817	5010	5255	7216	7154	6161	5471	5833	5751	5792	9017	7070	7075	6460
60	Investor Owned Utilities	1235	1121	1394	1076	1301	1620	1615	1157	1489	2016	1602	2173	2457	1716	1582
61	Marketer	474	401	324	376	508	500	435	377	378	388	368	528	470	472	432
62	Municipality	526	514	781	699	699	640	1216	725	580	858	586	888	1450	999	826
63	Public Utility District	1572	1271	1006	1201	1671	1621	1435	1201	1212	1219	1120	1691	1574	1579	1400
64	**Total Regulated Hydro**	**10819**	**9123**	**8515**	**8606**	**11396**	**11535**	**10861**	**8930**	**9492**	**10233**	**9470**	**14297**	**13021**	**11840**	**10700**

Table A-7: Regional: Regulated Hydro

Operating Year 2021 Water Year: 1937

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Regulated Hydro															
1	Idle Capacity Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	Albeni Falls	18.5	16.8	20.4	32.6	19.5	19.7	14.6	12.3	12.7	26.3	19.7	38.7	43.5	35.7	24.3
3	Alder	37.1	14.7	0	0	0	0.45	45.0	20.9	24.7	30.3	0	26.7	37.0	21.8	18.1
4	Bonneville	186	138	391	415	542	551	493	462	489	368	183	411	327	238	396
5	Boundary	164	149	191	372	254	287	201	164	171	468	252	611	809	412	333
6	Box Canyon Dam	27.2	25.0	30.9	55.6	39.6	44.3	32.1	26.9	27.8	65.3	39.6	73.4	66.0	57.1	44.5
7	Brownlee	156	159	172	155	162	167	217	164	204	203	205	229	196	175	184
8	Cabinet Gorge	39.7	35.4	43.0	49.1	38.0	78.3	55.6	37.8	34.7	119	91.4	194	217	110	83.5
9	Chelan Lake	56.6	36.4	14.6	55.0	55.2	5.27	55.6	54.9	54.2	5.23	4.23	4.25	55.8	56.8	38.5
10	Chief Joseph	1454	1152	769	893	1278	1278	1069	900	895	932	1070	1478	1125	1366	1115
11	Cushman 1	36.4	30.5	3.25	3.20	3.14	3.25	24.1	12.1	8.99	2.54	2.76	3.06	3.47	3.70	8.72
12	Cushman 2	67.3	61.8	0.03	0.10	0.33	0.49	54.9	29.9	22.2	0.20	0.20	0.13	0.10	0.03	14.4
13	Diablo	27.8	53.4	99.8	55.0	89.0	67.1	157	120	35.5	57.6	73.1	59.9	93.4	106	82.0
14	Dworshak	448	338	185	57.9	57.7	57.5	57.3	57.0	57.0	57.4	58.3	64.0	212	449	143
15	Faraday	8.08	7.53	8.57	7.58	6.25	16.1	8.89	16.6	31.4	43.0	42.5	40.8	16.8	13.5	18.1
16	Gorge	37.2	64.6	114	65.3	101	81.5	167	131	47.9	72.7	88.1	78.3	118	124	96.2
17	Grand Coulee	2623	2034	1350	1603	2301	2278	1887	1573	1533	1539	1722	2367	1922	2485	1942
18	Hells Canyon	124	129	143	130	133	133	173	133	165	161	168	190	161	137	149
19	Hungry Horse	63.4	63.2	72.9	81.7	86.4	86.9	88.0	87.1	84.8	64.4	26.3	27.4	78.8	114	76.4
20	Ice Harbor	109	140	118	108	104	114	122	125	178	179	180	312	255	150	158
21	John Day	750	604	620	667	925	917	799	735	814	793	727	1041	912	799	806
22	Kerr	44.9	44.9	61.7	76.4	55.3	137	95.3	60.2	44.0	170	106	147	178	138	98.2
23	La Grande	63.3	32.1	0	0	0	0.64	63.3	44.2	55.6	61.9	0	43.5	55.2	32.9	31.1
24	Libby	187	187	177	93.9	267	175	87.8	87.0	86.2	85.7	85.7	517	273	185	186
25	Little Falls	9.53	9.35	19.6	7.94	8.70	13.0	17.6	10.2	23.2	29.6	32.9	32.5	34.9	15.4	18.6
26	Little Goose	113	151	129	108	105	112	124	111	170	212	268	485	275	147	179
27	Long Lake	24.1	23.7	46.6	20.6	22.3	31.9	40.9	23.6	50.4	67.1	72.2	72.5	72.5	37.3	42.7
28	Lower Baker	66.9	29.1	0	0	0	0	44.4	11.6	29.0	10.0	1.33	36.1	70.2	58.9	25.5
29	Lower Granite	117	154	133	102	103	113	125	112	172	205	273	474	270	91.4	173
30	Lower Monumental	84.5	153	124	111	106	116	125	129	183	232	292	514	291	99.2	182
31	Mayfield	27.0	20.2	93.9	55.4	55.4	55.4	136	48.8	96.7	69.9	69.9	8.36	94.8	69.1	67.3
32	McNary	358	285	423	453	597	591	521	478	508	459	396	590	477	379	481
33	Merwin	19.7	17.0	83.9	13.7	34.5	67.2	80.6	35.0	77.6	107	35.8	28.8	64.7	33.4	50.8
34	Monroe Street	5.78	5.98	13.3	4.51	5.39	10.3	9.45	5.99	12.6	14.5	14.4	14.3	14.5	11.8	10.2
35	Mossyrock	50.1	38.4	168	81.1	79.1	57.8	186	32.4	76.9	40.0	37.2	0	162	126	87.8
36	Nine Mile	5.79	5.79	13.5	4.59	5.28	9.26	8.38	6.15	13.7	21.5	20.6	20.4	21.4	10.7	11.7
37	North Fork	9.00	8.38	9.54	8.44	6.95	17.9	9.90	18.5	34.9	54.0	47.3	54.0	43.0	15.0	23.1
38	Noxon Rapids	54.6	54.2	63.3	72.6	56.2	119	84.5	56.3	51.3	181	132	290	335	161	125
39	Oak Grove	21.0	16.9	26.7	24.7	17.3	20.1	17.0	17.7	24.5	33.7	33.7	33.7	33.7	25.0	24.4
40	Oxbow	64.4	66.8	74.1	67.3	68.5	67.6	88.2	67.3	81.8	79.9	79.6	88.2	75.5	69.7	74.5
41	Pelton	34.7	34.7	37.5	37.6	35.9	32.7	30.5	33.8	35.5	43.6	35.8	37.2	36.4	38.0	35.8
42	Pelton Rereg	8.09	8.09	6.64	8.88	8.43	7.56	6.96	7.86	8.30	10.5	8.40	8.77	8.54	8.99	8.21
43	Post Falls	1.38	1.61	8.60	1.29	1.73	5.27	5.07	2.49	8.87	15.2	13.6	13.3	15.2	4.78	6.88
44	Priest Rapids	429	302	309	367	520	522	451	377	375	373	274	463	430	424	411
45	River Mill	4.64	4.32	4.91	4.35	3.58	9.21	5.10	9.51	18.0	19.3	19.3	17.3	13.6	7.75	9.74
46	Rock Island	319	313	250	284	354	350	323	285	285	285	298	365	323	317	312
47	Rocky Reach	670	568	394	469	657	645	556	472	472	475	543	763	641	653	572
48	Ross	0	36.2	100	53.4	98.0	66.9	166	109	26.9	42.1	52.9	38.8	60.4	87.1	72.4
49	Round Butte	86.2	86.2	94.0	94.2	88.9	79.4	73.3	82.4	86.9	109	88.6	93.2	90.9	95.6	88.7
50	Swift 1	31.0	26.3	109	0.03	70.0	70.1	72.1	25.7	64.2	104	0.02	27.4	143	57.9	59.8
51	Swift 2	9.02	7.67	36.8	0.01	26.8	28.7	31.7	12.2	30.6	48.3	0.01	9.81	41.5	15.9	22.2
52	The Dalles	500	401	498	530	723	744	649	604	650	599	492	699	612	536	603
53	Thompson Falls	30.5	29.3	34.6	38.1	32.0	52.8	40.5	32.5	29.7	67.1	52.7	83.3	79.3	62.0	48.0
54	Upper Baker	28.4	22.5	20.9	6.03	31.7	21.1	42.5	8.95	22.1	0	0	39.9	103	60.7	32.0
55	Upper Falls	5.05	5.23	9.73	3.96	4.72	8.65	8.19	5.23	9.78	9.40	8.81	8.74	9.26	9.52	7.68
56	Wanapum	441	344	245	301	479	481	394	318	316	313	258	477	441	436	381
57	Wells	441	359	256	296	421	421	352	297	295	300	326	454	379	424	360
58	Yale	22.7	19.3	94.6	0	50.1	89.6	70.4	32.2	75.5	98.2	48.0	0	108	42.0	54.6

Table A-7: Regional: Regulated Hydro

Operating Year 2021 Water Year: 1937

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Total Regulated Hydro															
59	Federal Entities	7011	5817	5010	5255	7216	7154	6161	5471	5833	5753	5794	9017	7072	7075	6463
60	Investor Owned Utilities	1235	1121	1394	1076	1301	1620	1615	1157	1489	2016	1602	2173	2457	1716	1584
61	Marketer	474	401	324	376	508	500	435	377	378	388	368	528	470	472	432
62	Municipality	526	514	781	699	699	640	1216	725	580	858	586	888	1450	999	826
63	Public Utility District	1572	1271	1006	1201	1671	1621	1435	1201	1212	1219	1120	1691	1574	1579	1400
64	**Total Regulated Hydro**	**10819**	**9123**	**8515**	**8606**	**11396**	**11535**	**10861**	**8930**	**9492**	**10235**	**9471**	**14297**	**13023**	**11840**	**10706**

Table A-7: Regional: Regulated Hydro

Operating Year 2022 Water Year: 1937

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Regulated Hydro															
1	Idle Capacity Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	Albeni Falls	18.5	16.8	20.4	32.6	19.5	19.7	14.6	12.3	12.7	26.3	19.7	38.7	43.5	35.7	24.3
3	Alder	37.1	14.7	0	0	0	0.45	45.0	20.9	24.7	30.3	0	26.7	37.0	21.8	18.1
4	Bonneville	186	138	391	415	542	551	493	462	489	368	183	411	327	238	396
5	Boundary	164	149	191	372	254	287	201	164	171	468	252	611	809	412	333
6	Box Canyon Dam	27.2	25.0	30.9	55.6	39.6	44.3	32.1	26.9	27.8	65.3	39.6	73.4	66.0	57.1	44.5
7	Brownlee	156	159	172	155	162	167	217	164	204	203	205	229	196	175	184
8	Cabinet Gorge	39.7	35.4	43.0	49.1	38.0	78.3	55.6	37.8	34.7	119	91.4	194	217	110	83.5
9	Chelan Lake	56.6	36.4	14.6	55.0	55.2	5.27	55.6	54.9	54.2	5.23	4.23	4.25	55.8	56.8	38.5
10	Chief Joseph	1454	1152	769	893	1278	1278	1069	900	895	932	1070	1478	1125	1366	1115
11	Cushman 1	36.4	30.5	3.25	3.20	3.14	3.25	24.1	12.1	8.99	2.54	2.76	3.06	3.47	3.70	8.72
12	Cushman 2	67.3	61.8	0.03	0.10	0.33	0.49	54.9	29.9	22.2	0.20	0.20	0.13	0.10	0.03	14.4
13	Diablo	27.8	53.4	99.8	55.0	89.0	67.1	157	120	35.5	57.6	73.1	59.9	93.4	106	82.0
14	Dworshak	448	338	185	57.9	57.7	57.5	57.3	57.0	57.0	57.4	58.3	64.0	212	449	143
15	Faraday	8.08	7.53	8.57	7.58	6.25	16.1	8.89	16.6	31.4	43.0	42.5	40.8	16.8	13.5	18.1
16	Gorge	37.2	64.6	114	65.3	101	81.5	167	131	47.9	72.7	88.1	78.3	118	124	96.2
17	Grand Coulee	2623	2034	1350	1603	2301	2278	1887	1573	1533	1539	1722	2367	1922	2485	1942
18	Hells Canyon	124	129	143	130	133	133	173	133	165	161	168	190	161	137	149
19	Hungry Horse	63.4	63.2	72.9	81.7	86.4	86.9	88.0	87.1	84.8	64.4	26.3	27.4	78.8	114	76.4
20	Ice Harbor	109	140	118	108	104	114	122	125	178	179	180	312	255	150	158
21	John Day	750	604	620	667	925	917	799	735	814	793	727	1041	912	799	806
22	Kerr	44.9	44.9	61.7	76.4	55.3	137	95.3	60.2	44.0	170	106	147	178	138	98.2
23	La Grande	63.3	32.1	0	0	0	0.64	63.3	44.2	55.6	61.9	0	43.5	55.2	32.9	31.1
24	Libby	187	187	177	93.9	267	175	87.8	87.0	86.2	85.7	85.7	517	273	185	186
25	Little Falls	9.53	9.35	19.6	7.94	8.70	13.0	17.6	10.2	23.2	29.6	32.9	32.5	34.9	15.4	18.6
26	Little Goose	113	151	129	108	105	112	124	111	170	212	268	485	275	147	179
27	Long Lake	24.1	23.7	46.6	20.6	22.3	31.9	40.9	23.6	50.4	67.1	72.2	72.5	72.5	37.3	42.7
28	Lower Baker	66.9	29.1	0	0	0	0	44.4	11.6	29.0	10.0	1.33	36.1	70.2	58.9	25.5
29	Lower Granite	117	154	133	102	103	113	125	112	172	205	273	496	272	91.4	175
30	Lower Monumental	84.5	153	124	111	106	116	125	129	183	232	292	514	291	99.2	182
31	Mayfield	27.0	20.2	93.9	55.4	55.4	55.4	136	48.8	96.7	69.9	69.9	8.36	94.8	69.1	67.3
32	McNary	358	285	423	453	597	591	521	478	508	459	396	590	477	379	481
33	Merwin	19.7	17.0	83.9	13.7	34.5	67.2	80.6	35.0	77.6	107	35.8	28.8	64.7	33.4	50.8
34	Monroe Street	5.78	5.98	13.3	4.51	5.39	10.3	9.45	5.99	12.6	14.5	14.4	14.3	14.5	11.8	10.2
35	Mossyrock	50.1	38.4	168	81.1	79.1	57.8	186	32.4	76.9	40.0	37.2	0	162	126	87.8
36	Nine Mile	5.79	5.79	13.5	4.59	5.28	9.26	8.38	6.15	13.7	21.5	20.6	20.4	21.4	10.7	11.7
37	North Fork	9.00	8.38	9.54	8.44	6.95	17.9	9.90	18.5	34.9	54.0	47.3	54.0	43.0	15.0	23.1
38	Noxon Rapids	54.6	54.2	63.3	72.6	56.2	119	84.5	56.3	51.3	181	132	290	335	161	125
39	Oak Grove	21.0	16.9	26.7	24.7	17.3	20.1	17.0	17.7	24.5	33.7	33.7	33.7	33.7	25.0	24.4
40	Oxbow	64.4	66.8	74.1	67.3	68.5	67.6	88.2	67.3	81.8	79.9	79.6	88.2	75.5	69.7	74.5
41	Pelton	34.7	34.7	37.5	37.6	35.9	32.7	30.5	33.8	35.5	43.6	35.8	37.2	36.4	38.0	35.8
42	Pelton Rereg	8.09	8.09	6.64	8.88	8.43	7.56	6.96	7.86	8.30	10.5	8.40	8.77	8.54	8.99	8.21
43	Post Falls	1.38	1.61	8.60	1.29	1.73	5.27	5.07	2.49	8.87	15.2	13.6	13.3	15.2	4.78	6.88
44	Priest Rapids	429	302	309	367	520	522	451	377	375	373	274	463	430	424	411
45	River Mill	4.64	4.32	4.91	4.35	3.58	9.21	5.10	9.51	18.0	19.3	19.3	17.3	13.6	7.75	9.74
46	Rock Island	319	313	250	284	354	350	323	285	285	285	298	365	323	317	312
47	Rocky Reach	670	568	394	469	657	645	556	472	472	475	543	763	641	653	572
48	Ross	0	36.2	100	53.4	98.0	66.9	166	109	26.9	42.1	52.9	38.8	60.4	87.1	72.4
49	Round Butte	86.2	86.2	94.0	94.2	88.9	79.4	73.3	82.4	86.9	109	88.6	93.2	90.9	95.6	88.7
50	Swift 1	31.0	26.3	109	0.03	70.0	70.1	72.1	25.7	64.2	104	0.02	27.4	143	57.9	59.8
51	Swift 2	9.02	7.67	36.8	0.01	26.8	28.7	31.7	12.2	30.6	48.3	0.01	9.81	41.5	15.9	22.2
52	The Dalles	500	401	498	530	723	744	649	604	650	599	492	699	612	536	603
53	Thompson Falls	30.5	29.3	34.6	38.1	32.0	52.8	40.5	32.5	29.7	67.1	52.7	83.3	79.3	62.0	48.0
54	Upper Baker	28.4	22.5	20.9	6.03	31.7	21.1	42.5	8.95	22.1	0	0	39.9	103	60.7	32.0
55	Upper Falls	5.05	5.23	9.73	3.96	4.72	8.65	8.19	5.23	9.78	9.40	8.81	8.74	9.26	9.52	7.68
56	Wanapum	441	344	245	301	479	481	394	318	316	313	258	477	441	436	381
57	Wells	441	359	256	296	421	421	352	297	295	300	326	454	379	424	360
58	Yale	22.7	19.3	94.6	0	50.1	89.6	70.4	32.2	75.5	98.2	48.0	0	108	42.0	54.6

Table A-7: Regional: Regulated Hydro

Operating Year 2022 Water Year: 1937

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Total Regulated Hydro															
59	Federal Entities	7011	5817	5010	5255	7216	7154	6161	5471	5833	5753	5794	9040	7074	7075	6465
60	Investor Owned Utilities	1235	1121	1394	1076	1301	1620	1615	1157	1489	2016	1602	2173	2457	1716	1584
61	Marketer	474	401	324	376	508	500	435	377	378	388	368	528	470	472	432
62	Municipality	526	514	781	699	699	640	1216	725	580	858	586	888	1450	999	826
63	Public Utility District	1572	1271	1006	1201	1671	1621	1435	1201	1212	1219	1120	1691	1574	1579	1400
64	**Total Regulated Hydro**	**10819**	**9123**	**8515**	**8606**	**11396**	**11535**	**10861**	**8930**	**9492**	**10235**	**9471**	**14320**	**13025**	**11840**	**10708**

Table A-7: Regional: Regulated Hydro

Operating Year 2023 Water Year: 1937

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Regulated Hydro															
1	Idle Capacity Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	Albeni Falls	18.5	16.8	20.4	32.6	19.5	19.7	14.6	12.3	12.7	26.3	19.7	38.7	43.5	35.7	24.3
3	Alder	37.1	14.7	0	0	0	0.45	45.0	20.9	24.7	30.3	0	26.7	37.0	21.8	18.1
4	Bonneville	186	138	391	415	542	551	493	462	489	368	183	411	327	238	396
5	Boundary	164	149	191	372	254	287	201	164	171	468	252	611	809	412	333
6	Box Canyon Dam	27.2	25.0	30.9	55.6	39.6	44.3	32.1	26.9	27.8	65.3	39.6	73.4	66.0	57.1	44.5
7	Brownlee	156	159	172	155	162	167	217	164	204	203	205	229	196	175	184
8	Cabinet Gorge	39.7	35.4	43.0	49.1	38.0	78.3	55.6	37.8	34.7	119	91.4	194	217	110	83.5
9	Chelan Lake	56.6	36.4	14.6	55.0	55.2	5.27	55.6	54.9	54.2	5.23	4.23	4.25	55.8	56.8	38.5
10	Chief Joseph	1454	1152	769	893	1278	1278	1069	900	895	932	1070	1478	1125	1366	1115
11	Cushman 1	36.4	30.5	3.25	3.20	3.14	3.25	24.1	12.1	8.99	2.54	2.76	3.06	3.47	3.70	8.72
12	Cushman 2	67.3	61.8	0.03	0.10	0.33	0.49	54.9	29.9	22.2	0.20	0.20	0.13	0.10	0.03	14.4
13	Diablo	27.8	53.4	99.8	55.0	89.0	67.1	157	120	35.5	57.6	73.1	59.9	93.4	106	82.0
14	Dworshak	448	338	185	57.9	57.7	57.5	57.3	57.0	57.0	57.4	58.3	64.0	212	449	143
15	Faraday	8.08	7.53	8.57	7.58	6.25	16.1	8.89	16.6	31.4	43.0	42.5	40.8	16.8	13.5	18.1
16	Gorge	37.2	64.6	114	65.3	101	81.5	167	131	47.9	72.7	88.1	78.3	118	124	96.2
17	Grand Coulee	2623	2034	1350	1603	2301	2278	1887	1573	1533	1539	1722	2367	1922	2485	1942
18	Hells Canyon	124	129	143	130	133	133	173	133	165	161	168	190	161	137	149
19	Hungry Horse	63.4	63.2	72.9	81.7	86.4	86.9	88.0	87.1	84.8	64.4	26.3	27.4	78.8	114	76.4
20	Ice Harbor	109	140	118	108	104	114	122	125	178	179	180	312	255	150	158
21	John Day	750	604	620	667	925	917	799	735	814	793	727	1041	912	799	806
22	Kerr	44.9	44.9	61.7	76.4	55.3	137	95.3	60.2	44.0	170	106	147	178	138	98.2
23	La Grande	63.3	32.1	0	0	0	0.64	63.3	44.2	55.6	61.9	0	43.5	55.2	32.9	31.1
24	Libby	187	187	177	93.9	267	175	87.8	87.0	86.2	85.7	85.7	517	273	185	186
25	Little Falls	9.53	9.35	19.6	7.94	8.70	13.0	17.6	10.2	23.2	29.6	32.9	32.5	34.9	15.4	18.6
26	Little Goose	113	151	129	108	105	112	124	111	170	212	268	485	275	147	179
27	Long Lake	24.1	23.7	46.6	20.6	22.3	31.9	40.9	23.6	50.4	67.1	72.2	72.5	72.5	37.3	42.7
28	Lower Baker	66.9	29.1	0	0	0	0	44.4	11.6	29.0	10.0	1.33	36.1	70.2	58.9	25.5
29	Lower Granite	117	154	133	102	103	113	125	112	172	205	273	496	272	91.4	175
30	Lower Monumental	84.5	153	124	111	106	116	125	129	183	232	292	514	291	99.2	182
31	Mayfield	27.0	20.2	93.9	55.4	55.4	55.4	136	48.8	96.7	69.9	69.9	8.36	94.8	69.1	67.3
32	McNary	358	285	423	453	597	591	521	478	508	459	396	590	477	379	481
33	Merwin	19.7	17.0	83.9	13.7	34.5	67.2	80.6	35.0	77.6	107	35.8	28.8	64.7	33.4	50.8
34	Monroe Street	5.78	5.98	13.3	4.51	5.39	10.3	9.45	5.99	12.6	14.5	14.4	14.3	14.5	11.8	10.2
35	Mossyrock	50.1	38.4	168	81.1	79.1	57.8	186	32.4	76.9	40.0	37.2	0	162	126	87.8
36	Nine Mile	5.79	5.79	13.5	4.59	5.28	9.26	8.38	6.15	13.7	21.5	20.6	20.4	21.4	10.7	11.7
37	North Fork	9.00	8.38	9.54	8.44	6.95	17.9	9.90	18.5	34.9	54.0	47.3	54.0	43.0	15.0	23.1
38	Noxon Rapids	54.6	54.2	63.3	72.6	56.2	119	84.5	56.3	51.3	181	132	290	335	161	125
39	Oak Grove	21.0	16.9	26.7	24.7	17.3	20.1	17.0	17.7	24.5	33.7	33.7	33.7	33.7	25.0	24.4
40	Oxbow	64.4	66.8	74.1	67.3	68.5	67.6	88.2	67.3	81.8	79.9	79.6	88.2	75.5	69.7	74.5
41	Pelton	34.7	34.7	37.5	37.6	35.9	32.7	30.5	33.8	35.5	43.6	35.8	37.2	36.4	38.0	35.8
42	Pelton Rereg	8.09	8.09	6.64	8.88	8.43	7.56	6.96	7.86	8.30	10.5	8.40	8.77	8.54	8.99	8.21
43	Post Falls	1.38	1.61	8.60	1.29	1.73	5.27	5.07	2.49	8.87	15.2	13.6	13.3	15.2	4.78	6.88
44	Priest Rapids	429	302	309	367	520	522	451	377	375	373	274	463	430	424	411
45	River Mill	4.64	4.32	4.91	4.35	3.58	9.21	5.10	9.51	18.0	19.3	19.3	17.3	13.6	7.75	9.74
46	Rock Island	319	313	250	284	354	350	323	285	285	285	298	365	323	317	312
47	Rocky Reach	670	568	394	469	657	645	556	472	472	475	543	763	641	653	572
48	Ross	0	36.2	100	53.4	98.0	66.9	166	109	26.9	42.1	52.9	38.8	60.4	87.1	72.4
49	Round Butte	86.2	86.2	94.0	94.2	88.9	79.4	73.3	82.4	86.9	109	88.6	93.2	90.9	95.6	88.7
50	Swift 1	31.0	26.3	109	0.03	70.0	70.1	72.1	25.7	64.2	104	0.02	27.4	143	57.9	59.8
51	Swift 2	9.02	7.67	36.8	0.01	26.8	28.7	31.7	12.2	30.6	48.3	0.01	9.81	41.5	15.9	22.2
52	The Dalles	500	401	498	530	723	744	649	604	650	599	492	699	612	536	603
53	Thompson Falls	30.5	29.3	34.6	38.1	32.0	52.8	40.5	32.5	29.7	67.1	52.7	83.3	79.3	62.0	48.0
54	Upper Baker	28.4	22.5	20.9	6.03	31.7	21.1	42.5	8.95	22.1	0	0	39.9	103	60.7	32.0
55	Upper Falls	5.05	5.23	9.73	3.96	4.72	8.65	8.19	5.23	9.78	9.40	8.81	8.74	9.26	9.52	7.68
56	Wanapum	441	344	245	301	479	481	394	318	316	313	258	477	441	436	381
57	Wells	441	359	256	296	421	421	352	297	295	300	326	454	379	424	360
58	Yale	22.7	19.3	94.6	0	50.1	89.6	70.4	32.2	75.5	98.2	48.0	0	108	42.0	54.6

Table A-7: Regional: Regulated Hydro

Operating Year 2023 Water Year: 1937

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Total Regulated Hydro															
59	Federal Entities	7011	5817	5010	5255	7216	7154	6161	5471	5833	5753	5794	9040	7074	7075	6465
60	Investor Owned Utilities	1235	1121	1394	1076	1301	1620	1615	1157	1489	2016	1602	2173	2457	1716	1584
61	Marketer	474	401	324	376	508	500	435	377	378	388	368	528	470	472	432
62	Municipality	526	514	781	699	699	640	1216	725	580	858	586	888	1450	999	826
63	Public Utility District	1572	1271	1006	1201	1671	1621	1435	1201	1212	1219	1120	1691	1574	1579	1400
64	**Total Regulated Hydro**	**10819**	**9123**	**8515**	**8606**	**11396**	**11535**	**10861**	**8930**	**9492**	**10235**	**9471**	**14320**	**13025**	**11840**	**10708**

THIS PAGE INTENTIONALLY LEFT BLANK

Exhibit 27
Table A-8: Regional Independent Hydro

Monthly Energy
Operating Year 2014 to 2023
Using 1937-Water Conditions

Table A-8: Regional: Independent Hydro

Operating Year 2014 Water Year: 1937

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Independent Hydro															
1	American Falls	47.7	47.7	49.5	44.9	39.1	38.5	36.3	40.5	37.7	48.3	48.3	44.2	44.7	46.9	43.2
2	Anderson Ranch	28.8	28.8	9.23	4.19	4.36	4.27	4.31	4.76	4.31	9.41	9.41	11.8	37.0	33.2	13.0
3	Arrowrock Hydro	13.0	12.0	3.80	2.40	2.30	2.30	2.30	2.30	2.30	2.40	2.40	13.0	12.0	12.0	5.83
4	Ashton	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50
5	Bend Power Dam	0.56	0.56	0.52	0.34	0.24	0.30	0.32	0.34	0.40	0.48	0.48	0.63	0.63	0.63	0.45
6	Big Cliff	6.00	6.00	9.00	8.00	13.0	6.00	4.00	6.00	7.00	9.00	11.0	20.0	20.0	7.00	9.66
7	Big Fork	2.92	2.92	2.28	1.61	2.23	2.44	2.40	2.41	2.74	3.22	3.22	3.42	3.45	3.39	2.71
8	Black Canyon	8.53	8.53	8.53	5.45	3.61	2.98	3.27	3.53	4.19	8.53	8.53	8.53	8.53	8.53	6.19
9	Bliss	38.7	38.7	40.2	36.4	31.7	31.3	29.4	32.9	30.6	39.2	39.2	35.9	36.3	38.1	35.1
10	Boise River Diversion	1.83	1.83	2.47	0.73	0	0	0	0	0	0.87	0.87	2.50	2.50	2.50	1.12
11	Calispel Creek	0.20	0.20	0.20	0.20	0.20	0.30	0.30	0.31	0.40	0.40	0.40	0.40	0.40	0.30	0.30
12	Carmen-Smith	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
13	Cascade	11.2	11.2	10.4	8.97	8.88	8.80	8.67	8.64	8.45	7.96	7.96	7.66	7.55	8.97	8.84
14	Cedar Falls	3.18	1.96	2.24	1.96	1.21	8.50	9.25	10.2	15.1	9.81	12.2	14.5	27.9	4.39	9.04
15	Chandler	2.21	2.21	2.00	5.70	7.34	3.38	5.51	7.47	9.80	6.06	6.06	5.97	5.80	6.09	5.60
16	CJ Strike	42.7	42.7	44.4	40.2	35.0	34.5	32.5	36.3	33.8	43.3	43.3	39.6	40.1	42.0	38.7
17	Clear Lake	2.25	2.25	2.09	1.81	1.79	1.77	1.75	1.74	1.70	1.60	1.60	1.54	1.52	1.81	1.78
18	Cougar	23.0	22.0	16.0	27.0	23.0	9.00	6.00	8.00	10.00	29.0	29.0	29.0	29.0	17.0	18.8
19	Cowlitz Falls	11.9	8.50	7.90	6.20	3.10	23.1	10.00	13.7	33.3	46.1	50.3	63.6	66.3	28.9	26.2
20	Detroit	11.7	11.5	20.2	44.9	47.5	20.9	21.7	17.7	25.3	34.6	37.2	102	37.9	13.0	33.3
21	Dexter	5.00	7.00	6.00	12.0	16.0	4.00	3.00	5.00	5.00	12.0	17.0	17.0	17.0	6.00	9.29
22	Eagle Point	0	0	0	0	0.39	0.70	0.68	0.91	0.56	0.69	0.69	0.47	0	0	0.36
23	Electron	11.2	10.2	10.3	9.05	5.90	17.8	8.47	12.3	18.9	19.8	21.7	21.7	21.8	17.2	14.6
24	Felt Hydro Project	3.60	3.60	3.77	3.53	3.64	3.05	2.51	2.73	3.40	3.38	3.38	5.12	6.46	4.81	3.84
25	Foster	6.00	6.00	12.0	10.00	7.00	9.00	4.00	9.00	21.0	19.0	18.0	21.0	23.0	6.00	12.2
26	Gem State Hydro	0	0	15.0	10.1	10.7	10.5	11.6	13.0	14.0	15.2	15.2	0	0	0	8.28
27	Grace	27.5	25.8	22.5	19.3	20.0	19.3	19.3	21.4	21.8	27.5	27.5	26.6	27.5	26.6	23.2
28	Green Peter	15.0	15.0	29.0	18.0	16.0	18.0	8.00	0	33.0	88.0	45.0	58.0	49.0	11.0	26.9
29	Green Springs	7.94	7.94	6.90	5.02	5.95	6.34	6.94	6.74	7.97	8.26	8.26	8.78	8.98	8.01	7.32
30	Hellroaring	0.21	0.21	0.19	0.17	0.17	0.14	0.15	0.22	0.32	0.38	0.38	0.26	0.22	0.19	0.22
31	Henry M Jackson	18.4	18.4	20.0	21.1	18.6	79.7	32.9	15.6	41.6	64.6	64.6	73.5	81.8	45.9	43.0
32	Hills Creek	9.00	9.00	23.0	23.0	27.0	5.00	4.00	6.00	7.00	20.0	31.0	35.0	35.0	14.0	17.8
33	Hood Street	0.10	0.10	0.30	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.32
34	Idaho Falls - City Plant	2.89	2.89	3.14	3.91	4.88	6.39	6.59	6.13	4.28	2.92	2.92	1.99	2.92	3.70	4.14
35	Idaho Falls - Lower Plant #1	2.89	2.89	3.14	3.91	4.88	6.39	6.59	6.13	4.28	2.92	2.92	1.99	2.92	3.70	4.14
36	Idaho Falls - Lower Plant #2	1.08	1.08	1.18	1.47	1.83	2.39	2.47	2.30	1.61	1.10	1.10	0.74	1.09	1.39	1.55
37	Idaho Falls - Upper Plant	2.89	2.89	3.14	3.91	4.88	6.39	6.59	6.13	4.28	2.92	2.92	1.99	2.92	3.70	4.14
38	Island Park	3.19	3.19	1.80	1.45	1.47	1.46	1.71	1.89	1.76	1.79	1.79	3.26	3.92	3.81	2.30
39	John Boyle	0	0	9.28	33.2	39.6	44.7	45.1	52.1	78.0	82.0	82.0	28.3	20.7	0	35.9
40	Lake Creek (MT)	2.00	2.00	1.38	1.46	2.00	2.02	2.08	2.39	3.03	4.68	4.68	5.30	5.08	3.68	2.93
41	Last Chance	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
42	Leaburg	5.70	4.10	3.60	0	0	7.10	4.00	11.7	11.7	11.7	11.7	11.7	13.0	10.2	7.43
43	Lookout Point	21.0	26.0	22.0	45.0	47.0	9.00	8.00	12.0	15.0	45.0	74.0	85.0	73.0	24.0	35.3
44	Lost Creek	44.0	39.0	23.0	37.0	19.0	19.0	18.0	13.0	14.0	15.0	16.0	56.0	56.0	46.0	30.0
45	Lower Malad	12.2	12.2	11.3	9.76	9.67	9.58	9.44	9.41	9.20	8.66	8.66	8.34	8.22	9.76	9.63
46	Lower Salmon Falls	31.0	31.0	32.2	29.1	25.4	25.0	23.5	26.3	24.5	31.3	31.3	28.7	29.0	30.5	28.0
47	McNary Fishway	9.01	9.01	6.45	5.48	5.51	5.56	5.59	5.63	5.62	5.65	5.65	6.63	7.93	9.40	6.55
48	Mill Creek (WA)	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
49	Milner Hydro	30.6	30.6	31.8	28.8	25.1	24.8	23.3	26.1	24.2	31.0	31.0	28.4	28.7	30.2	27.8
50	Minidoka	20.7	20.7	15.2	6.48	2.39	2.32	2.32	2.57	2.32	10.3	10.3	24.6	22.7	21.7	11.2
51	Moyie River	1.10	1.10	0.92	1.33	1.32	0.63	0.47	0.81	1.59	2.71	2.71	4.39	4.34	2.95	1.88
52	Newhalem	0.22	0.14	0.16	0.14	0.09	0.60	0.65	0.71	1.06	0.69	0.86	1.01	1.95	0.31	0.63
53	North Umpqua	79.7	79.7	76.2	72.8	70.2	73.7	70.2	78.8	81.4	121	121	146	139	91.7	91.7
54	Oneida	7.46	7.00	6.11	5.25	5.42	5.25	5.25	5.81	5.92	7.46	7.46	7.22	7.46	7.22	6.30
55	Packwood Lake	7.80	20.7	3.87	3.03	1.63	4.65	2.65	3.24	5.36	9.72	9.72	24.1	44.9	24.8	11.9
56	Palisades	118	118	105	45.5	11.3	11.2	11.4	12.8	28.2	51.7	51.7	152	151	127	69.2
57	Paris	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
58	Reeder Gulch	0.40	0.15	0.15	0.10	0.11	0.08	0.12	0.13	0.18	0.18	0.21	0.21	0.23	0.23	0.17

Table A-8: Regional: Independent Hydro

Operating Year 2014 Water Year: 1937

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
59	Rogue	32.7	32.7	30.0	27.0	26.2	28.4	24.9	26.8	40.3	50.0	50.0	50.6	50.6	41.6	35.8
60	Roza	10.6	10.6	3.46	4.08	1.15	4.09	2.59	3.12	9.41	11.4	11.4	10.8	10.9	10.6	6.88
61	Shoshone Falls	6.45	6.45	6.70	6.07	5.29	5.21	4.91	5.49	5.10	6.53	6.53	5.98	6.05	6.35	5.84
62	Smith Creek (Idaho)	0	0	0.05	1.71	1.20	0.48	0.03	0.68	0.93	11.3	11.3	35.7	27.7	3.85	6.99
63	Snoqualmie Falls	23.6	21.7	21.9	19.2	12.5	37.7	17.9	26.1	39.9	41.9	45.8	46.1	46.1	36.4	30.9
64	Soda Creek 4	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
65	Soda Creek No 5	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
66	Soda Point	3.56	3.33	2.91	2.50	2.58	2.50	2.50	2.77	2.82	3.56	3.56	3.44	3.55	3.44	3.00
67	South Fork Tolt	9.01	9.01	6.45	5.48	5.51	5.56	5.59	5.63	5.62	5.65	5.65	6.63	7.93	9.40	6.55
68	Stone Creek	6.50	4.30	8.70	2.20	0.80	2.50	8.50	3.50	6.30	10.4	10.4	8.30	10.4	7.60	6.22
69	Strawberry Creek (WY)	1.35	1.35	1.12	0.96	0.86	0.78	0.70	0.68	0.63	0.80	0.80	1.37	1.58	1.51	1.03
70	Swan Falls	12.9	12.9	13.4	12.1	10.6	10.4	9.81	11.0	10.2	13.1	13.1	12.0	12.1	12.7	11.7
71	Swift Creek Hydro	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87
72	The Dalles North Fishway	4.93	4.93	4.95	5.01	5.02	3.43	3.20	3.11	4.73	4.82	4.82	4.71	4.67	4.85	4.46
73	Thousand Springs	7.93	7.93	7.35	6.36	6.31	6.25	6.15	6.13	6.00	5.65	5.65	5.43	5.36	6.36	6.28
74	Trail Bridge	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.60	3.80	3.80	3.80	3.80	2.50	3.80	3.68
75	TW Sullivan	12.5	11.1	12.5	11.1	10.7	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	14.1
76	Twin Falls (ID)	27.2	27.2	28.3	25.6	22.3	22.0	20.7	23.1	21.5	27.5	27.5	25.2	25.5	26.8	24.6
77	Upper Malad	7.48	7.48	6.93	6.00	5.95	5.89	5.80	5.78	5.65	5.33	5.33	5.13	5.05	6.00	5.92
78	Upper Salmon A	9.29	9.29	9.65	8.74	7.61	7.50	7.06	7.90	7.34	9.40	9.40	8.61	8.71	9.14	8.41
79	Upper Salmon B	8.51	8.51	8.85	8.01	6.98	6.88	6.48	7.24	6.73	8.62	8.62	7.89	7.98	8.38	7.71
80	Wallowa Falls	0.47	0.47	0.51	0.45	0.43	0.47	0.45	0.43	0.49	0.46	0.46	0.60	0.71	0.60	0.51
81	Walterville	4.00	3.10	2.90	0	0	5.00	3.10	8.70	9.50	9.50	9.50	9.50	9.50	7.70	5.72
82	Wynoochee Dam	1.17	1.17	2.06	3.62	6.40	7.46	7.98	5.67	3.93	0.84	0.84	0.01	0.01	1.49	3.38
83	Yelm	9.36	9.36	8.91	10.3	7.33	4.97	4.51	5.90	6.20	7.59	7.59	6.20	7.28	7.94	7.22
	Total Independent Hydro															
84	Cooperative	7.41	7.41	5.16	4.74	5.20	5.12	5.35	5.82	6.29	8.14	8.14	10.8	11.5	9.87	7.12
85	Federal Entities	361	358	332	322	271	179	145	152	252	435	445	718	664	403	354
86	Investor Owned Utilities	507	501	513	488	451	500	452	508	556	685	691	626	616	539	537
87	Municipality	69.8	76.5	68.7	56.1	52.9	73.2	74.2	84.5	94.9	96.7	99.3	131	152	89.6	87.4
88	Public Utility District	45.6	44.6	37.5	35.9	32.6	93.8	45.8	28.7	57.5	83.0	83.0	111	130	85.4	65.8
89	**Total Independent Hydro**	**991**	**988**	**957**	**906**	**813**	**851**	**722**	**779**	**966**	**1307**	**1327**	**1598**	**1574**	**1127**	**1051**

Table A-8: Regional: Independent Hydro

Operating Year 2015 Water Year: 1937

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Independent Hydro															
1	American Falls	47.7	47.7	49.5	44.9	39.1	38.5	36.3	40.5	37.7	48.3	48.3	44.2	44.7	46.9	43.2
2	Anderson Ranch	28.8	28.8	9.23	4.19	4.36	4.27	4.31	4.76	4.31	9.41	9.41	11.8	37.0	33.2	13.0
3	Arrowrock Hydro	13.0	12.0	3.80	2.40	2.30	2.30	2.30	2.30	2.30	2.40	2.40	13.0	12.0	12.0	5.83
4	Ashton	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50
5	Bend Power Dam	0.56	0.56	0.52	0.34	0.24	0.30	0.32	0.34	0.40	0.48	0.48	0.63	0.63	0.63	0.45
6	Big Cliff	6.00	6.00	9.00	8.00	13.0	6.00	4.00	6.00	7.00	9.00	11.0	20.0	20.0	7.00	9.66
7	Big Fork	2.92	2.92	2.28	1.61	2.23	2.44	2.40	2.41	2.74	3.22	3.22	3.42	3.45	3.39	2.71
8	Black Canyon	8.53	8.53	8.53	5.45	3.61	2.98	3.27	3.53	4.19	8.53	8.53	8.53	8.53	8.53	6.19
9	Bliss	38.7	38.7	40.2	36.4	31.7	31.3	29.4	32.9	30.6	39.2	39.2	35.9	36.3	38.1	35.1
10	Boise River Diversion	1.83	1.83	2.47	0.73	0	0	0	0	0	0.87	0.87	2.50	2.50	2.50	1.12
11	Calispel Creek	0.20	0.20	0.20	0.20	0.20	0.30	0.30	0.31	0.40	0.40	0.40	0.40	0.40	0.30	0.30
12	Carmen-Smith	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
13	Cascade	11.2	11.2	10.4	8.97	8.88	8.80	8.67	8.64	8.45	7.96	7.96	7.66	7.55	8.97	8.84
14	Cedar Falls	3.18	1.96	2.24	1.96	1.21	8.50	9.25	10.2	15.1	9.81	12.2	14.5	27.9	4.39	9.04
15	Chandler	2.21	2.21	2.00	5.70	7.34	3.38	5.51	7.47	9.80	6.06	6.06	5.97	5.80	6.09	5.60
16	CJ Strike	42.7	42.7	44.4	40.2	35.0	34.5	32.5	36.3	33.8	43.3	43.3	39.6	40.1	42.0	38.7
17	Clear Lake	2.25	2.25	2.09	1.81	1.79	1.77	1.75	1.74	1.70	1.60	1.60	1.54	1.52	1.81	1.78
18	Cougar	23.0	22.0	16.0	27.0	23.0	9.00	6.00	8.00	10.00	29.0	29.0	29.0	29.0	17.0	18.8
19	Cowlitz Falls	11.9	8.50	7.90	6.20	3.10	23.1	10.00	13.7	33.3	46.1	50.3	63.6	66.3	28.9	26.2
20	Detroit	11.7	11.5	20.2	44.9	47.5	20.9	21.7	17.7	25.3	34.6	37.2	102	37.9	13.0	33.3
21	Dexter	5.00	7.00	6.00	12.0	16.0	4.00	3.00	5.00	5.00	12.0	17.0	17.0	17.0	6.00	9.29
22	Eagle Point	0	0	0	0	0.39	0.70	0.68	0.91	0.56	0.69	0.69	0.47	0	0	0.36
23	Electron	11.2	10.2	10.3	9.05	5.90	17.8	8.47	12.3	18.9	19.8	21.7	21.7	21.8	17.2	14.6
24	Felt Hydro Project	3.60	3.60	3.77	3.53	3.64	3.05	2.51	2.73	3.40	3.38	3.38	5.12	6.46	4.81	3.84
25	Foster	6.00	6.00	12.0	10.00	7.00	9.00	4.00	9.00	21.0	19.0	18.0	21.0	23.0	6.00	12.2
26	Gem State Hydro	0	0	15.0	10.1	10.7	10.5	11.6	13.0	14.0	15.2	15.2	0	0	0	8.28
27	Grace	27.5	25.8	22.5	19.3	20.0	19.3	19.3	21.4	21.8	27.5	27.5	26.6	27.5	26.6	23.2
28	Green Peter	15.0	15.0	29.0	18.0	16.0	18.0	8.00	0	33.0	88.0	45.0	58.0	49.0	11.0	26.9
29	Green Springs	7.94	7.94	6.90	5.02	5.95	6.34	6.94	6.74	7.97	8.26	8.26	8.78	8.98	8.01	7.32
30	Hellroaring	0.21	0.21	0.19	0.17	0.17	0.14	0.15	0.22	0.32	0.38	0.38	0.26	0.22	0.19	0.22
31	Henry M Jackson	18.4	18.4	20.0	21.1	18.6	79.7	32.9	15.6	41.6	64.6	64.6	73.5	81.8	45.9	43.0
32	Hills Creek	9.00	9.00	23.0	23.0	27.0	5.00	4.00	6.00	7.00	20.0	31.0	35.0	35.0	14.0	17.8
33	Hood Street	0.10	0.10	0.30	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.32
34	Idaho Falls - City Plant	2.89	2.89	3.14	3.91	4.88	6.39	6.59	6.13	4.28	2.92	2.92	1.99	2.92	3.70	4.14
35	Idaho Falls - Lower Plant #1	2.89	2.89	3.14	3.91	4.88	6.39	6.59	6.13	4.28	2.92	2.92	1.99	2.92	3.70	4.14
36	Idaho Falls - Lower Plant #2	1.08	1.08	1.18	1.47	1.83	2.39	2.47	2.30	1.61	1.10	1.10	0.74	1.09	1.39	1.55
37	Idaho Falls - Upper Plant	2.89	2.89	3.14	3.91	4.88	6.39	6.59	6.13	4.28	2.92	2.92	1.99	2.92	3.70	4.14
38	Island Park	3.19	3.19	1.80	1.45	1.47	1.46	1.71	1.89	1.76	1.79	1.79	3.26	3.92	3.81	2.30
39	John Boyle	0	0	9.28	33.2	39.6	44.7	45.1	52.1	78.0	82.0	82.0	28.3	20.7	0	35.9
40	Lake Creek (MT)	2.00	2.00	1.38	1.46	2.00	2.02	2.08	2.39	3.03	4.68	4.68	5.30	5.08	3.68	2.93
41	Last Chance	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
42	Leaburg	5.70	4.10	3.60	0	0	7.10	4.00	11.7	11.7	11.7	11.7	11.7	13.0	10.2	7.43
43	Lookout Point	21.0	26.0	22.0	45.0	47.0	9.00	8.00	12.0	15.0	45.0	74.0	85.0	73.0	24.0	35.3
44	Lost Creek	44.0	39.0	23.0	37.0	19.0	19.0	18.0	13.0	14.0	15.0	16.0	56.0	56.0	46.0	30.0
45	Lower Malad	12.2	12.2	11.3	9.76	9.67	9.58	9.44	9.41	9.20	8.66	8.66	8.34	8.22	9.76	9.63
46	Lower Salmon Falls	31.0	31.0	32.2	29.1	25.4	25.0	23.5	26.3	24.5	31.3	31.3	28.7	29.0	30.5	28.0
47	McNary Fishway	9.01	9.01	6.45	5.48	5.51	5.56	5.59	5.63	5.62	5.65	5.65	6.63	7.93	9.40	6.55
48	Mill Creek (WA)	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
49	Milner Hydro	30.6	30.6	31.8	28.8	25.1	24.8	23.3	26.1	24.2	31.0	31.0	28.4	28.7	30.2	27.8
50	Minidoka	20.7	20.7	15.2	6.48	2.39	2.32	2.32	2.57	2.32	10.3	10.3	24.6	22.7	21.7	11.2
51	Moyie River	1.10	1.10	0.92	1.33	1.32	0.63	0.47	0.81	1.59	2.71	2.71	4.39	4.34	2.95	1.88
52	Newhalem	0.22	0.14	0.16	0.14	0.09	0.60	0.65	0.71	1.06	0.69	0.86	1.01	1.95	0.31	0.63
53	North Umpqua	79.7	79.7	76.2	72.8	70.2	73.7	70.2	78.8	81.4	121	121	146	139	91.7	91.7
54	Oneida	7.46	7.00	6.11	5.25	5.42	5.25	5.25	5.81	5.92	7.46	7.46	7.22	7.46	7.22	6.30
55	Packwood Lake	7.80	20.7	3.87	3.03	1.63	4.65	2.65	3.24	5.36	9.72	9.72	24.1	44.9	24.8	11.9
56	Palisades	118	118	105	45.5	11.3	11.2	11.4	12.8	28.2	51.7	51.7	152	151	127	69.2
57	Paris	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
58	Reeder Gulch	0.40	0.15	0.15	0.10	0.11	0.08	0.12	0.13	0.18	0.18	0.21	0.21	0.23	0.23	0.17

Table A-8: Regional: Independent Hydro

Operating Year 2015 Water Year: 1937

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
59	Rogue	32.7	32.7	30.0	27.0	26.2	28.4	24.9	26.8	40.3	50.0	50.0	50.6	50.6	41.6	35.8
60	Roza	10.6	10.6	3.46	4.08	1.15	4.09	2.59	3.12	9.41	11.4	11.4	10.8	10.9	10.6	6.88
61	Shoshone Falls	6.45	6.45	6.70	6.07	5.29	5.21	4.91	5.49	5.10	6.53	6.53	5.98	6.05	6.35	5.84
62	Smith Creek (Idaho)	0	0	0.05	1.71	1.20	0.48	0.03	0.68	0.93	11.3	11.3	35.7	27.7	3.85	6.99
63	Snoqualmie Falls	23.6	21.7	21.9	19.2	12.5	37.7	17.9	26.1	39.9	41.9	45.8	46.1	46.1	36.4	30.9
64	Soda Creek 4	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
65	Soda Creek No 5	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
66	Soda Point	3.56	3.33	2.91	2.50	2.58	2.50	2.50	2.77	2.82	3.56	3.56	3.44	3.55	3.44	3.00
67	South Fork Tolt	9.01	9.01	6.45	5.48	5.51	5.56	5.59	5.63	5.62	5.65	5.65	6.63	7.93	9.40	6.55
68	Stone Creek	6.50	4.30	8.70	2.20	0.80	2.50	8.50	3.50	6.30	10.4	10.4	8.30	10.4	7.60	6.22
69	Strawberry Creek (WY)	1.35	1.35	1.12	0.96	0.86	0.78	0.70	0.68	0.63	0.80	0.80	1.37	1.58	1.51	1.03
70	Swan Falls	12.9	12.9	13.4	12.1	10.6	10.4	9.81	11.0	10.2	13.1	13.1	12.0	12.1	12.7	11.7
71	Swift Creek Hydro	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87
72	The Dalles North Fishway	4.93	4.93	4.95	5.01	5.02	3.43	3.20	3.11	4.73	4.82	4.82	4.71	4.67	4.85	4.46
73	Thousand Springs	7.93	7.93	7.35	6.36	6.31	6.25	6.15	6.13	6.00	5.65	5.65	5.43	5.36	6.36	6.28
74	Trail Bridge	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.60	3.80	3.80	3.80	3.80	2.50	3.80	3.68
75	TW Sullivan	12.5	11.1	12.5	11.1	10.7	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	14.1
76	Twin Falls (ID)	27.2	27.2	28.3	25.6	22.3	22.0	20.7	23.1	21.5	27.5	27.5	25.2	25.5	26.8	24.6
77	Upper Malad	7.48	7.48	6.93	6.00	5.95	5.89	5.80	5.78	5.65	5.33	5.33	5.13	5.05	6.00	5.92
78	Upper Salmon A	9.29	9.29	9.65	8.74	7.61	7.50	7.06	7.90	7.34	9.40	9.40	8.61	8.71	9.14	8.41
79	Upper Salmon B	8.51	8.51	8.85	8.01	6.98	6.88	6.48	7.24	6.73	8.62	8.62	7.89	7.98	8.38	7.71
80	Wallowa Falls	0.47	0.47	0.51	0.45	0.43	0.47	0.45	0.43	0.49	0.46	0.46	0.60	0.71	0.60	0.51
81	Walterville	4.00	3.10	2.90	0	0	5.00	3.10	8.70	9.50	9.50	9.50	9.50	9.50	7.70	5.72
82	Wynoochee Dam	1.17	1.17	2.06	3.62	6.40	7.46	7.98	5.67	3.93	0.84	0.84	0.01	0.01	1.49	3.38
83	Yelm	9.36	9.36	8.91	10.3	7.33	4.97	4.51	5.90	6.20	7.59	7.59	6.20	7.28	7.94	7.22
Total Independent Hydro																
84	Cooperative	7.41	7.41	5.16	4.74	5.20	5.12	5.35	5.82	6.29	8.14	8.14	10.8	11.5	9.87	7.12
85	Federal Entities	361	358	332	322	271	179	145	152	252	435	445	718	664	403	354
86	Investor Owned Utilities	507	501	513	488	451	500	452	508	556	685	691	626	616	539	537
87	Municipality	65.8	65.7	68.7	56.1	52.9	73.2	74.2	84.5	94.9	96.7	99.3	131	152	89.6	86.7
88	Public Utility District	49.7	55.4	37.5	35.9	32.6	93.8	45.8	28.7	57.5	83.0	83.0	111	130	85.4	66.4
89	**Total Independent Hydro**	**991**	**988**	**957**	**906**	**813**	**851**	**722**	**779**	**966**	**1307**	**1327**	**1598**	**1574**	**1127**	**1051**

Table A-8: Regional: Independent Hydro

Operating Year 2016 Water Year: 1937

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Independent Hydro															
1	American Falls	47.7	47.7	49.5	44.9	39.1	38.5	36.3	40.5	37.7	48.3	48.3	44.2	44.7	46.9	43.2
2	Anderson Ranch	28.8	28.8	9.23	4.19	4.36	4.27	4.31	4.76	4.31	9.41	9.41	11.8	37.0	33.2	13.0
3	Arrowrock Hydro	13.0	12.0	3.80	2.40	2.30	2.30	2.30	2.30	2.30	2.40	2.40	13.0	12.0	12.0	5.83
4	Ashton	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50
5	Bend Power Dam	0.56	0.56	0.52	0.34	0.24	0.30	0.32	0.34	0.40	0.48	0.48	0.63	0.63	0.63	0.45
6	Big Cliff	6.00	6.00	9.00	8.00	13.0	6.00	4.00	6.00	7.00	9.00	11.0	20.0	20.0	7.00	9.65
7	Big Fork	2.92	2.92	2.28	1.61	2.23	2.44	2.40	2.41	2.74	3.22	3.22	3.42	3.45	3.39	2.71
8	Black Canyon	8.53	8.53	8.53	5.45	3.61	2.98	3.27	3.53	4.19	8.53	8.53	8.53	8.53	8.53	6.19
9	Bliss	38.7	38.7	40.2	36.4	31.7	31.3	29.4	32.9	30.6	39.2	39.2	35.9	36.3	38.1	35.0
10	Boise River Diversion	1.83	1.83	2.47	0.73	0	0	0	0	0	0.87	0.87	2.50	2.50	2.50	1.12
11	Calispel Creek	0.20	0.20	0.20	0.20	0.20	0.30	0.30	0.31	0.40	0.40	0.40	0.40	0.40	0.30	0.30
12	Carmen-Smith	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
13	Cascade	11.2	11.2	10.4	8.97	8.88	8.80	8.67	8.64	8.45	7.96	7.96	7.66	7.55	8.97	8.84
14	Cedar Falls	3.18	1.96	2.24	1.96	1.21	8.50	9.25	10.2	15.1	9.81	12.2	14.5	27.9	4.39	9.04
15	Chandler	2.21	2.21	2.00	5.70	7.34	3.38	5.51	7.47	9.80	6.06	6.06	5.97	5.80	6.09	5.61
16	CJ Strike	42.7	42.7	44.4	40.2	35.0	34.5	32.5	36.3	33.8	43.3	43.3	39.6	40.1	42.0	38.7
17	Clear Lake	2.25	2.25	2.09	1.81	1.79	1.77	1.75	1.74	1.70	1.60	1.60	1.54	1.52	1.81	1.78
18	Cougar	23.0	22.0	16.0	27.0	23.0	9.00	6.00	8.00	10.00	29.0	29.0	29.0	29.0	17.0	18.8
19	Cowlitz Falls	11.9	8.50	7.90	6.20	3.10	23.1	10.00	13.7	33.3	46.1	50.3	63.6	66.3	28.9	26.2
20	Detroit	11.7	11.5	20.2	44.9	47.5	20.9	21.7	17.7	25.3	34.6	37.2	102	37.9	13.0	33.2
21	Dexter	5.00	7.00	6.00	12.0	16.0	4.00	3.00	5.00	5.00	12.0	17.0	17.0	17.0	6.00	9.27
22	Eagle Point	0	0	0	0	0.39	0.70	0.68	0.91	0.56	0.69	0.69	0.47	0	0	0.36
23	Electron	11.2	10.2	10.3	9.05	5.90	17.8	8.47	12.3	18.9	19.8	21.7	21.7	21.8	17.2	14.6
24	Felt Hydro Project	3.60	3.60	3.77	3.53	3.64	3.05	2.51	2.73	3.40	3.38	3.38	5.12	6.46	4.81	3.83
25	Foster	6.00	6.00	12.0	10.00	7.00	9.00	4.00	9.00	21.0	19.0	18.0	21.0	23.0	6.00	12.2
26	Gem State Hydro	0	0	15.0	10.1	10.7	10.5	11.6	13.0	14.0	15.2	15.2	0	0	0	8.30
27	Grace	27.5	25.8	22.5	19.3	20.0	19.3	19.3	21.4	21.8	27.5	27.5	26.6	27.5	26.6	23.2
28	Green Peter	15.0	15.0	29.0	18.0	16.0	18.0	8.00	0	33.0	88.0	45.0	58.0	49.0	11.0	26.8
29	Green Springs	7.94	7.94	6.90	5.02	5.95	6.34	6.94	6.74	7.97	8.26	8.26	8.78	8.98	8.01	7.32
30	Hellroaring	0.21	0.21	0.19	0.17	0.17	0.14	0.15	0.22	0.32	0.38	0.38	0.26	0.22	0.19	0.22
31	Henry M Jackson	18.4	18.4	20.0	21.1	18.6	79.7	32.9	15.6	41.6	64.6	64.6	73.5	81.8	45.9	42.9
32	Hills Creek	9.00	9.00	23.0	23.0	27.0	5.00	4.00	6.00	7.00	20.0	31.0	35.0	35.0	14.0	17.8
33	Hood Street	0.10	0.10	0.30	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.32
34	Idaho Falls - City Plant	2.89	2.89	3.14	3.91	4.88	6.39	6.59	6.13	4.28	2.92	2.92	1.99	2.92	3.70	4.14
35	Idaho Falls - Lower Plant #1	2.89	2.89	3.14	3.91	4.88	6.39	6.59	6.13	4.28	2.92	2.92	1.99	2.92	3.70	4.14
36	Idaho Falls - Lower Plant #2	1.08	1.08	1.18	1.47	1.83	2.39	2.47	2.30	1.61	1.10	1.10	0.74	1.09	1.39	1.55
37	Idaho Falls - Upper Plant	2.89	2.89	3.14	3.91	4.88	6.39	6.59	6.13	4.28	2.92	2.92	1.99	2.92	3.70	4.14
38	Island Park	3.19	3.19	1.80	1.45	1.47	1.46	1.71	1.89	1.76	1.79	1.79	3.26	3.92	3.81	2.30
39	John Boyle	0	0	9.28	33.2	39.6	44.7	45.1	52.1	78.0	82.0	82.0	28.3	20.7	0	36.0
40	Lake Creek (MT)	2.00	2.00	1.38	1.46	2.00	2.02	2.08	2.39	3.03	4.68	4.68	5.30	5.08	3.68	2.92
41	Last Chance	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
42	Leaburg	5.70	4.10	3.60	0	0	7.10	4.00	11.7	11.7	11.7	11.7	11.7	13.0	10.2	7.44
43	Lookout Point	21.0	26.0	22.0	45.0	47.0	9.00	8.00	12.0	15.0	45.0	74.0	85.0	73.0	24.0	35.2
44	Lost Creek	44.0	39.0	23.0	37.0	19.0	19.0	18.0	13.0	14.0	15.0	16.0	56.0	56.0	46.0	29.9
45	Lower Malad	12.2	12.2	11.3	9.76	9.67	9.58	9.44	9.41	9.20	8.66	8.66	8.34	8.22	9.76	9.63
46	Lower Salmon Falls	31.0	31.0	32.2	29.1	25.4	25.0	23.5	26.3	24.5	31.3	31.3	28.7	29.0	30.5	28.0
47	McNary Fishway	9.01	9.01	6.45	5.48	5.51	5.56	5.59	5.63	5.62	5.65	5.65	6.63	7.93	9.40	6.54
48	Mill Creek (WA)	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
49	Milner Hydro	30.6	30.6	31.8	28.8	25.1	24.8	23.3	26.1	24.2	31.0	31.0	28.4	28.7	30.2	27.8
50	Minidoka	20.7	20.7	15.2	6.48	2.39	2.32	2.32	2.57	2.32	10.3	10.3	24.6	22.7	21.7	11.2
51	Moyie River	1.10	1.10	0.92	1.33	1.32	0.63	0.47	0.81	1.59	2.71	2.71	4.39	4.34	2.95	1.88
52	Newhalem	0.22	0.14	0.16	0.14	0.09	0.60	0.65	0.71	1.06	0.69	0.86	1.01	1.95	0.31	0.63
53	North Umpqua	79.7	79.7	76.2	72.8	70.2	73.7	70.2	78.8	81.4	121	121	146	139	91.7	91.7
54	Oneida	7.46	7.00	6.11	5.25	5.42	5.25	5.25	5.81	5.92	7.46	7.46	7.22	7.46	7.22	6.30
55	Packwood Lake	7.80	20.7	3.87	3.03	1.63	4.65	2.65	3.24	5.36	9.72	9.72	24.1	44.9	24.8	11.9
56	Palisades	118	118	105	45.5	11.3	11.2	11.4	12.8	28.2	51.7	51.7	152	151	127	69.0
57	Paris	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
58	Reeder Gulch	0.40	0.15	0.15	0.10	0.11	0.08	0.12	0.13	0.18	0.18	0.21	0.21	0.23	0.23	0.17

Table A-8: Regional: Independent Hydro

Operating Year 2016 Water Year: 1937

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
59	Rogue	32.7	32.7	30.0	27.0	26.2	28.4	24.9	26.8	40.3	50.0	50.0	50.6	50.6	41.6	35.8
60	Roza	10.6	10.6	3.46	4.08	1.15	4.09	2.59	3.12	9.41	11.4	11.4	10.8	10.9	10.6	6.87
61	Shoshone Falls	6.45	6.45	6.70	6.07	5.29	5.21	4.91	5.49	5.10	6.53	6.53	5.98	6.05	6.35	5.84
62	Smith Creek (Idaho)	0	0	0.05	1.71	1.20	0.48	0.03	0.68	0.93	11.3	11.3	35.7	27.7	3.85	6.97
63	Snoqualmie Falls	23.6	21.7	21.9	19.2	12.5	37.7	17.9	26.1	39.9	41.9	45.8	46.1	46.1	36.4	30.9
64	Soda Creek 4	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
65	Soda Creek No 5	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
66	Soda Point	3.56	3.33	2.91	2.50	2.58	2.50	2.50	2.77	2.82	3.56	3.56	3.44	3.55	3.44	3.00
67	South Fork Tolt	9.01	9.01	6.45	5.48	5.51	5.56	5.59	5.63	5.62	5.65	5.65	6.63	7.93	9.40	6.54
68	Stone Creek	6.50	4.30	8.70	2.20	0.80	2.50	8.50	3.50	6.30	10.4	10.4	8.30	10.4	7.60	6.21
69	Strawberry Creek (WY)	1.35	1.35	1.12	0.96	0.86	0.78	0.70	0.68	0.63	0.80	0.80	1.37	1.58	1.51	1.03
70	Swan Falls	12.9	12.9	13.4	12.1	10.6	10.4	9.81	11.0	10.2	13.1	13.1	12.0	12.1	12.7	11.7
71	Swift Creek Hydro	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87
72	The Dalles North Fishway	4.93	4.93	4.95	5.01	5.02	3.43	3.20	3.11	4.73	4.82	4.82	4.71	4.67	4.85	4.45
73	Thousand Springs	7.93	7.93	7.35	6.36	6.31	6.25	6.15	6.13	6.00	5.65	5.65	5.43	5.36	6.36	6.27
74	Trail Bridge	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.60	3.80	3.80	3.80	3.80	2.50	3.80	3.68
75	TW Sullivan	12.5	11.1	12.5	11.1	10.7	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	14.1
76	Twin Falls (ID)	27.2	27.2	28.3	25.6	22.3	22.0	20.7	23.1	21.5	27.5	27.5	25.2	25.5	26.8	24.6
77	Upper Malad	7.48	7.48	6.93	6.00	5.95	5.89	5.80	5.78	5.65	5.33	5.33	5.13	5.05	6.00	5.92
78	Upper Salmon A	9.29	9.29	9.65	8.74	7.61	7.50	7.06	7.90	7.34	9.40	9.40	8.61	8.71	9.14	8.41
79	Upper Salmon B	8.51	8.51	8.85	8.01	6.98	6.88	6.48	7.24	6.73	8.62	8.62	7.89	7.98	8.38	7.71
80	Wallowa Falls	0.47	0.47	0.51	0.45	0.43	0.47	0.45	0.43	0.49	0.46	0.46	0.60	0.71	0.60	0.51
81	Walterville	4.00	3.10	2.90	0	0	5.00	3.10	8.70	9.50	9.50	9.50	9.50	9.50	7.70	5.73
82	Wynoochee Dam	1.17	1.17	2.06	3.62	6.40	7.46	7.98	5.67	3.93	0.84	0.84	0.01	0.01	1.49	3.39
83	Yelm	9.36	9.36	8.91	10.3	7.33	4.97	4.51	5.90	6.20	7.59	7.59	6.20	7.28	7.94	7.21
	Total Independent Hydro															
84	Cooperative	7.41	7.41	5.16	4.74	5.20	5.12	5.35	5.82	6.29	8.14	8.14	10.8	11.5	9.87	7.12
85	Federal Entities	361	358	332	322	271	179	145	152	252	435	445	718	664	403	354
86	Investor Owned Utilities	507	501	513	488	451	500	452	508	556	685	691	626	616	539	536
87	Municipality	65.8	65.7	68.7	56.1	52.9	73.2	74.2	84.5	94.9	96.7	99.3	131	152	89.6	86.7
88	Public Utility District	49.7	55.4	37.5	35.9	32.6	93.8	45.8	28.7	57.5	83.0	83.0	111	130	85.4	66.3
89	**Total Independent Hydro**	**991**	**988**	**957**	**906**	**813**	**851**	**722**	**779**	**966**	**1307**	**1327**	**1598**	**1574**	**1127**	**1050**

Table A-8: Regional: Independent Hydro

Operating Year 2017 Water Year: 1937

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Independent Hydro															
1	American Falls	47.7	47.7	49.5	44.9	39.1	38.5	36.3	40.5	37.7	48.3	48.3	44.2	44.7	46.9	43.2
2	Anderson Ranch	28.8	28.8	9.23	4.19	4.36	4.27	4.31	4.76	4.31	9.41	9.41	11.8	37.0	33.2	13.0
3	Arrowrock Hydro	13.0	12.0	3.80	2.40	2.30	2.30	2.30	2.30	2.30	2.40	2.40	13.0	12.0	12.0	5.83
4	Ashton	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50
5	Bend Power Dam	0.56	0.56	0.52	0.34	0.24	0.30	0.32	0.34	0.40	0.48	0.48	0.63	0.63	0.63	0.45
6	Big Cliff	6.00	6.00	9.00	8.00	13.0	6.00	4.00	6.00	7.00	9.00	11.0	20.0	20.0	7.00	9.66
7	Big Fork	2.92	2.92	2.28	1.61	2.23	2.44	2.40	2.41	2.74	3.22	3.22	3.42	3.45	3.39	2.71
8	Black Canyon	8.53	8.53	8.53	5.45	3.61	2.98	3.27	3.53	4.19	8.53	8.53	8.53	8.53	8.53	6.19
9	Bliss	38.7	38.7	40.2	36.4	31.7	31.3	29.4	32.9	30.6	39.2	39.2	35.9	36.3	38.1	35.1
10	Boise River Diversion	1.83	1.83	2.47	0.73	0	0	0	0	0	0.87	0.87	2.50	2.50	2.50	1.12
11	Calispel Creek	0.20	0.20	0.20	0.20	0.20	0.30	0.30	0.31	0.40	0.40	0.40	0.40	0.40	0.30	0.30
12	Carmen-Smith	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
13	Cascade	11.2	11.2	10.4	8.97	8.88	8.80	8.67	8.64	8.45	7.96	7.96	7.66	7.55	8.97	8.84
14	Cedar Falls	3.18	1.96	2.24	1.96	1.21	8.50	9.25	10.2	15.1	9.81	12.2	14.5	27.9	4.39	9.04
15	Chandler	2.21	2.21	2.00	5.70	7.34	3.38	5.51	7.47	9.80	6.06	6.06	5.97	5.80	6.09	5.60
16	CJ Strike	42.7	42.7	44.4	40.2	35.0	34.5	32.5	36.3	33.8	43.3	43.3	39.6	40.1	42.0	38.7
17	Clear Lake	2.25	2.25	2.09	1.81	1.79	1.77	1.75	1.74	1.70	1.60	1.60	1.54	1.52	1.81	1.78
18	Cougar	23.0	22.0	16.0	27.0	23.0	9.00	6.00	8.00	10.00	29.0	29.0	29.0	29.0	17.0	18.8
19	Cowlitz Falls	11.9	8.50	7.90	6.20	3.10	23.1	10.00	13.7	33.3	46.1	50.3	63.6	66.3	28.9	26.2
20	Detroit	11.7	11.5	20.2	44.9	47.5	20.9	21.7	17.7	25.3	34.6	37.2	102	37.9	13.0	33.3
21	Dexter	5.00	7.00	6.00	12.0	16.0	4.00	3.00	5.00	5.00	12.0	17.0	17.0	17.0	6.00	9.29
22	Eagle Point	0	0	0	0	0.39	0.70	0.68	0.91	0.56	0.69	0.69	0.47	0	0	0.36
23	Electron	11.2	10.2	10.3	9.05	5.90	17.8	8.47	12.3	18.9	19.8	21.7	21.7	21.8	17.2	14.6
24	Felt Hydro Project	3.60	3.60	3.77	3.53	3.64	3.05	2.51	2.73	3.40	3.38	3.38	5.12	6.46	4.81	3.84
25	Foster	6.00	6.00	12.0	10.00	7.00	9.00	4.00	9.00	21.0	19.0	18.0	21.0	23.0	6.00	12.2
26	Gem State Hydro	0	0	15.0	10.1	10.7	10.5	11.6	13.0	14.0	15.2	15.2	0	0	0	8.28
27	Grace	27.5	25.8	22.5	19.3	20.0	19.3	19.3	21.4	21.8	27.5	27.5	26.6	27.5	26.6	23.2
28	Green Peter	15.0	15.0	29.0	18.0	16.0	18.0	8.00	0	33.0	88.0	45.0	58.0	49.0	11.0	26.9
29	Green Springs	7.94	7.94	6.90	5.02	5.95	6.34	6.94	6.74	7.97	8.26	8.26	8.78	8.98	8.01	7.32
30	Hellroaring	0.21	0.21	0.19	0.17	0.17	0.14	0.15	0.22	0.32	0.38	0.38	0.26	0.22	0.19	0.22
31	Henry M Jackson	18.4	18.4	20.0	21.1	18.6	79.7	32.9	15.6	41.6	64.6	64.6	73.5	81.8	45.9	43.0
32	Hills Creek	9.00	9.00	23.0	23.0	27.0	5.00	4.00	6.00	7.00	20.0	31.0	35.0	35.0	14.0	17.8
33	Hood Street	0.10	0.10	0.30	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.32
34	Idaho Falls - City Plant	2.89	2.89	3.14	3.91	4.88	6.39	6.59	6.13	4.28	2.92	2.92	1.99	2.92	3.70	4.14
35	Idaho Falls - Lower Plant #1	2.89	2.89	3.14	3.91	4.88	6.39	6.59	6.13	4.28	2.92	2.92	1.99	2.92	3.70	4.14
36	Idaho Falls - Lower Plant #2	1.08	1.08	1.18	1.47	1.83	2.39	2.47	2.30	1.61	1.10	1.10	0.74	1.09	1.39	1.55
37	Idaho Falls - Upper Plant	2.89	2.89	3.14	3.91	4.88	6.39	6.59	6.13	4.28	2.92	2.92	1.99	2.92	3.70	4.14
38	Island Park	3.19	3.19	1.80	1.45	1.47	1.46	1.71	1.89	1.76	1.79	1.79	3.26	3.92	3.81	2.30
39	John Boyle	0	0	9.28	33.2	39.6	44.7	45.1	52.1	78.0	82.0	82.0	28.3	20.7	0	35.9
40	Lake Creek (MT)	2.00	2.00	1.38	1.46	2.00	2.02	2.08	2.39	3.03	4.68	4.68	5.30	5.08	3.68	2.93
41	Last Chance	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
42	Leaburg	5.70	4.10	3.60	0	0	7.10	4.00	11.7	11.7	11.7	11.7	11.7	13.0	10.2	7.43
43	Lookout Point	21.0	26.0	22.0	45.0	47.0	9.00	8.00	12.0	15.0	45.0	74.0	85.0	73.0	24.0	35.3
44	Lost Creek	44.0	39.0	23.0	37.0	19.0	19.0	18.0	13.0	14.0	15.0	16.0	56.0	56.0	46.0	30.0
45	Lower Malad	12.2	12.2	11.3	9.76	9.67	9.58	9.44	9.41	9.20	8.66	8.66	8.34	8.22	9.76	9.63
46	Lower Salmon Falls	31.0	31.0	32.2	29.1	25.4	25.0	23.5	26.3	24.5	31.3	31.3	28.7	29.0	30.5	28.0
47	McNary Fishway	9.01	9.01	6.45	5.48	5.51	5.56	5.59	5.63	5.62	5.65	5.65	6.63	7.93	9.40	6.55
48	Mill Creek (WA)	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
49	Milner Hydro	30.6	30.6	31.8	28.8	25.1	24.8	23.3	26.1	24.2	31.0	31.0	28.4	28.7	30.2	27.8
50	Minidoka	20.7	20.7	15.2	6.48	2.39	2.32	2.32	2.57	2.32	10.3	10.3	24.6	22.7	21.7	11.2
51	Moyie River	1.10	1.10	0.92	1.33	1.32	0.63	0.47	0.81	1.59	2.71	2.71	4.39	4.34	2.95	1.88
52	Newhalem	0.22	0.14	0.16	0.14	0.09	0.60	0.65	0.71	1.06	0.69	0.86	1.01	1.95	0.31	0.63
53	North Umpqua	79.7	79.7	76.2	72.8	70.2	73.7	70.2	78.8	81.4	121	121	146	139	91.7	91.7
54	Oneida	7.46	7.00	6.11	5.25	5.42	5.25	5.25	5.81	5.92	7.46	7.46	7.22	7.46	7.22	6.30
55	Packwood Lake	7.80	20.7	3.87	3.03	1.63	4.65	2.65	3.24	5.36	9.72	9.72	24.1	44.9	24.8	11.9
56	Palisades	118	118	105	45.5	11.3	11.2	11.4	12.8	28.2	51.7	51.7	152	151	127	69.2
57	Paris	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
58	Reeder Gulch	0.40	0.15	0.15	0.10	0.11	0.08	0.12	0.13	0.18	0.18	0.21	0.21	0.23	0.23	0.17

Table A-8: Regional: Independent Hydro

Operating Year 2017 Water Year: 1937

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
59	Rogue	32.7	32.7	30.0	27.0	26.2	28.4	24.9	26.8	40.3	50.0	50.0	50.6	50.6	41.6	35.8
60	Roza	10.6	10.6	3.46	4.08	1.15	4.09	2.59	3.12	9.41	11.4	11.4	10.8	10.9	10.6	6.88
61	Shoshone Falls	6.45	6.45	6.70	6.07	5.29	5.21	4.91	5.49	5.10	6.53	6.53	5.98	6.05	6.35	5.84
62	Smith Creek (Idaho)	0	0	0.05	1.71	1.20	0.48	0.03	0.68	0.93	11.3	11.3	35.7	27.7	3.85	6.99
63	Snoqualmie Falls	23.6	21.7	21.9	19.2	12.5	37.7	17.9	26.1	39.9	41.9	45.8	46.1	46.1	36.4	30.9
64	Soda Creek 4	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
65	Soda Creek No 5	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
66	Soda Point	3.56	3.33	2.91	2.50	2.58	2.50	2.50	2.77	2.82	3.56	3.56	3.44	3.55	3.44	3.00
67	South Fork Tolt	9.01	9.01	6.45	5.48	5.51	5.56	5.59	5.63	5.62	5.65	5.65	6.63	7.93	9.40	6.55
68	Stone Creek	6.50	4.30	8.70	2.20	0.80	2.50	8.50	3.50	6.30	10.4	10.4	8.30	10.4	7.60	6.22
69	Strawberry Creek (WY)	1.35	1.35	1.12	0.96	0.86	0.78	0.70	0.68	0.63	0.80	0.80	1.37	1.58	1.51	1.03
70	Swan Falls	12.9	12.9	13.4	12.1	10.6	10.4	9.81	11.0	10.2	13.1	13.1	12.0	12.1	12.7	11.7
71	Swift Creek Hydro	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87
72	The Dalles North Fishway	4.93	4.93	4.95	5.01	5.02	3.43	3.20	3.11	4.73	4.82	4.82	4.71	4.67	4.85	4.46
73	Thousand Springs	7.93	7.93	7.35	6.36	6.31	6.25	6.15	6.13	6.00	5.65	5.65	5.43	5.36	6.36	6.28
74	Trail Bridge	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.60	3.80	3.80	3.80	3.80	2.50	3.80	3.68
75	TW Sullivan	12.5	11.1	12.5	11.1	10.7	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	14.1
76	Twin Falls (ID)	27.2	27.2	28.3	25.6	22.3	22.0	20.7	23.1	21.5	27.5	27.5	25.2	25.5	26.8	24.6
77	Upper Malad	7.48	7.48	6.93	6.00	5.95	5.89	5.80	5.78	5.65	5.33	5.33	5.13	5.05	6.00	5.92
78	Upper Salmon A	9.29	9.29	9.65	8.74	7.61	7.50	7.06	7.90	7.34	9.40	9.40	8.61	8.71	9.14	8.41
79	Upper Salmon B	8.51	8.51	8.85	8.01	6.98	6.88	6.48	7.24	6.73	8.62	8.62	7.89	7.98	8.38	7.71
80	Wallowa Falls	0.47	0.47	0.51	0.45	0.43	0.47	0.45	0.43	0.49	0.46	0.46	0.60	0.71	0.60	0.51
81	Walterville	4.00	3.10	2.90	0	0	5.00	3.10	8.70	9.50	9.50	9.50	9.50	9.50	7.70	5.72
82	Wynoochee Dam	1.17	1.17	2.06	3.62	6.40	7.46	7.98	5.67	3.93	0.84	0.84	0.01	0.01	1.49	3.38
83	Yelm	9.36	9.36	8.91	10.3	7.33	4.97	4.51	5.90	6.20	7.59	7.59	6.20	7.28	7.94	7.22
	Total Independent Hydro															
84	Cooperative	7.41	7.41	5.16	4.74	5.20	5.12	5.35	5.82	6.29	8.14	8.14	10.8	11.5	9.87	7.12
85	Federal Entities	361	358	332	322	271	179	145	152	252	435	445	718	664	403	354
86	Investor Owned Utilities	507	501	513	488	451	500	452	508	556	685	691	626	616	539	537
87	Municipality	65.8	65.7	68.7	56.1	52.9	73.2	74.2	84.5	94.9	96.7	99.3	131	152	89.6	86.7
88	Public Utility District	49.7	55.4	37.5	35.9	32.6	93.8	45.8	28.7	57.5	83.0	83.0	111	130	85.4	66.4
89	**Total Independent Hydro**	**991**	**988**	**957**	**906**	**813**	**851**	**722**	**779**	**966**	**1307**	**1327**	**1598**	**1574**	**1127**	**1051**

Table A-8: Regional: Independent Hydro

Operating Year 2018 Water Year: 1937

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Independent Hydro															
1	American Falls	47.7	47.7	49.5	44.9	39.1	38.5	36.3	40.5	37.7	48.3	48.3	44.2	44.7	46.9	43.2
2	Anderson Ranch	28.8	28.8	9.23	4.19	4.36	4.27	4.31	4.76	4.31	9.41	9.41	11.8	37.0	33.2	13.0
3	Arrowrock Hydro	13.0	12.0	3.80	2.40	2.30	2.30	2.30	2.30	2.30	2.40	2.40	13.0	12.0	12.0	5.83
4	Ashton	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50
5	Bend Power Dam	0.56	0.56	0.52	0.34	0.24	0.30	0.32	0.34	0.40	0.48	0.48	0.63	0.63	0.63	0.45
6	Big Cliff	6.00	6.00	9.00	8.00	13.0	6.00	4.00	6.00	7.00	9.00	11.0	20.0	20.0	7.00	9.66
7	Big Fork	2.92	2.92	2.28	1.61	2.23	2.44	2.40	2.41	2.74	3.22	3.22	3.42	3.45	3.39	2.71
8	Black Canyon	8.53	8.53	8.53	5.45	3.61	2.98	3.27	3.53	4.19	8.53	8.53	8.53	8.53	8.53	6.19
9	Bliss	38.7	38.7	40.2	36.4	31.7	31.3	29.4	32.9	30.6	39.2	39.2	35.9	36.3	38.1	35.1
10	Boise River Diversion	1.83	1.83	2.47	0.73	0	0	0	0	0	0.87	0.87	2.50	2.50	2.50	1.12
11	Calispel Creek	0.20	0.20	0.20	0.20	0.20	0.30	0.30	0.31	0.40	0.40	0.40	0.40	0.40	0.30	0.30
12	Carmen-Smith	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
13	Cascade	11.2	11.2	10.4	8.97	8.88	8.80	8.67	8.64	8.45	7.96	7.96	7.66	7.55	8.97	8.84
14	Cedar Falls	3.18	1.96	2.24	1.96	1.21	8.50	9.25	10.2	15.1	9.81	12.2	14.5	27.9	4.39	9.04
15	Chandler	2.21	2.21	2.00	5.70	7.34	3.38	5.51	7.47	9.80	6.06	6.06	5.97	5.80	6.09	5.60
16	CJ Strike	42.7	42.7	44.4	40.2	35.0	34.5	32.5	36.3	33.8	43.3	43.3	39.6	40.1	42.0	38.7
17	Clear Lake	2.25	2.25	2.09	1.81	1.79	1.77	1.75	1.74	1.70	1.60	1.60	1.54	1.52	1.81	1.78
18	Cougar	23.0	22.0	16.0	27.0	23.0	9.00	6.00	8.00	10.00	29.0	29.0	29.0	29.0	17.0	18.8
19	Cowlitz Falls	11.9	8.50	7.90	6.20	3.10	23.1	10.00	13.7	33.3	46.1	50.3	63.6	66.3	28.9	26.2
20	Detroit	11.7	11.5	20.2	44.9	47.5	20.9	21.7	17.7	25.3	34.6	37.2	102	37.9	13.0	33.3
21	Dexter	5.00	7.00	6.00	12.0	16.0	4.00	3.00	5.00	5.00	12.0	17.0	17.0	17.0	6.00	9.29
22	Eagle Point	0	0	0	0	0.39	0.70	0.68	0.91	0.56	0.69	0.69	0.47	0	0	0.36
23	Electron	11.2	10.2	10.3	9.05	5.90	17.8	8.47	12.3	18.9	19.8	21.7	21.7	21.8	17.2	14.6
24	Felt Hydro Project	3.60	3.60	3.77	3.53	3.64	3.05	2.51	2.73	3.40	3.38	3.38	5.12	6.46	4.81	3.84
25	Foster	6.00	6.00	12.0	10.00	7.00	9.00	4.00	9.00	21.0	19.0	18.0	21.0	23.0	6.00	12.2
26	Gem State Hydro	0	0	15.0	10.1	10.7	10.5	11.6	13.0	14.0	15.2	15.2	0	0	0	8.28
27	Grace	27.5	25.8	22.5	19.3	20.0	19.3	19.3	21.4	21.8	27.5	27.5	26.6	27.5	26.6	23.2
28	Green Peter	15.0	15.0	29.0	18.0	16.0	18.0	8.00	0	33.0	88.0	45.0	58.0	49.0	11.0	26.9
29	Green Springs	7.94	7.94	6.90	5.02	5.95	6.34	6.94	6.74	7.97	8.26	8.26	8.78	8.98	8.01	7.32
30	Hellroaring	0.21	0.21	0.19	0.17	0.17	0.14	0.15	0.22	0.32	0.38	0.38	0.26	0.22	0.19	0.22
31	Henry M Jackson	18.4	18.4	20.0	21.1	18.6	79.7	32.9	15.6	41.6	64.6	64.6	73.5	81.8	45.9	43.0
32	Hills Creek	9.00	9.00	23.0	23.0	27.0	5.00	4.00	6.00	7.00	20.0	31.0	35.0	35.0	14.0	17.8
33	Hood Street	0.10	0.10	0.30	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.32
34	Idaho Falls - City Plant	2.89	2.89	3.14	3.91	4.88	6.39	6.59	6.13	4.28	2.92	2.92	1.99	2.92	3.70	4.14
35	Idaho Falls - Lower Plant #1	2.89	2.89	3.14	3.91	4.88	6.39	6.59	6.13	4.28	2.92	2.92	1.99	2.92	3.70	4.14
36	Idaho Falls - Lower Plant #2	1.08	1.08	1.18	1.47	1.83	2.39	2.47	2.30	1.61	1.10	1.10	0.74	1.09	1.39	1.55
37	Idaho Falls - Upper Plant	2.89	2.89	3.14	3.91	4.88	6.39	6.59	6.13	4.28	2.92	2.92	1.99	2.92	3.70	4.14
38	Island Park	3.19	3.19	1.80	1.45	1.47	1.46	1.71	1.89	1.76	1.79	1.79	3.26	3.92	3.81	2.30
39	John Boyle	0	0	9.28	33.2	39.6	44.7	45.1	52.1	78.0	82.0	82.0	28.3	20.7	0	35.9
40	Lake Creek (MT)	2.00	2.00	1.38	1.46	2.00	2.02	2.08	2.39	3.03	4.68	4.68	5.30	5.08	3.68	2.93
41	Last Chance	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
42	Leaburg	5.70	4.10	3.60	0	0	7.10	4.00	11.7	11.7	11.7	11.7	11.7	13.0	10.2	7.43
43	Lookout Point	21.0	26.0	22.0	45.0	47.0	9.00	8.00	12.0	15.0	45.0	74.0	85.0	73.0	24.0	35.3
44	Lost Creek	44.0	39.0	23.0	37.0	19.0	19.0	18.0	13.0	14.0	15.0	16.0	56.0	56.0	46.0	30.0
45	Lower Malad	12.2	12.2	11.3	9.76	9.67	9.58	9.44	9.41	9.20	8.66	8.66	8.34	8.22	9.76	9.63
46	Lower Salmon Falls	31.0	31.0	32.2	29.1	25.4	25.0	23.5	26.3	24.5	31.3	31.3	28.7	29.0	30.5	28.0
47	McNary Fishway	9.01	9.01	6.45	5.48	5.51	5.56	5.59	5.63	5.62	5.65	5.65	6.63	7.93	9.40	6.55
48	Mill Creek (WA)	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
49	Milner Hydro	30.6	30.6	31.8	28.8	25.1	24.8	23.3	26.1	24.2	31.0	31.0	28.4	28.7	30.2	27.8
50	Minidoka	20.7	20.7	15.2	6.48	2.39	2.32	2.32	2.57	2.32	10.3	10.3	24.6	22.7	21.7	11.2
51	Moyie River	1.10	1.10	0.92	1.33	1.32	0.63	0.47	0.81	1.59	2.71	2.71	4.39	4.34	2.95	1.88
52	Newhalem	0.22	0.14	0.16	0.14	0.09	0.60	0.65	0.71	1.06	0.69	0.86	1.01	1.95	0.31	0.63
53	North Umpqua	79.7	79.7	76.2	72.8	70.2	73.7	70.2	78.8	81.4	121	121	146	139	91.7	91.7
54	Oneida	7.46	7.00	6.11	5.25	5.42	5.25	5.25	5.81	5.92	7.46	7.46	7.22	7.46	7.22	6.30
55	Packwood Lake	7.80	20.7	3.87	3.03	1.63	4.65	2.65	3.24	5.36	9.72	9.72	24.1	44.9	24.8	11.9
56	Palisades	118	118	105	45.5	11.3	11.2	11.4	12.8	28.2	51.7	51.7	152	151	127	69.2
57	Paris	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
58	Reeder Gulch	0.40	0.15	0.15	0.10	0.11	0.08	0.12	0.13	0.18	0.18	0.21	0.21	0.23	0.23	0.17

Table A-8: Regional: Independent Hydro

Operating Year 2018 Water Year: 1937

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
59	Rogue	32.7	32.7	30.0	27.0	26.2	28.4	24.9	26.8	40.3	50.0	50.0	50.6	50.6	41.6	35.8
60	Roza	10.6	10.6	3.46	4.08	1.15	4.09	2.59	3.12	9.41	11.4	11.4	10.8	10.9	10.6	6.88
61	Shoshone Falls	6.45	6.45	6.70	6.07	5.29	5.21	4.91	5.49	5.10	6.53	6.53	5.98	6.05	6.35	5.84
62	Smith Creek (Idaho)	0	0	0.05	1.71	1.20	0.48	0.03	0.68	0.93	11.3	11.3	35.7	27.7	3.85	6.99
63	Snoqualmie Falls	23.6	21.7	21.9	19.2	12.5	37.7	17.9	26.1	39.9	41.9	45.8	46.1	46.1	36.4	30.9
64	Soda Creek 4	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
65	Soda Creek No 5	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
66	Soda Point	3.56	3.33	2.91	2.50	2.58	2.50	2.50	2.77	2.82	3.56	3.56	3.44	3.55	3.44	3.00
67	South Fork Tolt	9.01	9.01	6.45	5.48	5.51	5.56	5.59	5.63	5.62	5.65	5.65	6.63	7.93	9.40	6.55
68	Stone Creek	6.50	4.30	8.70	2.20	0.80	2.50	8.50	3.50	6.30	10.4	10.4	8.30	10.4	7.60	6.22
69	Strawberry Creek (WY)	1.35	1.35	1.12	0.96	0.86	0.78	0.70	0.68	0.63	0.80	0.80	1.37	1.58	1.51	1.03
70	Swan Falls	12.9	12.9	13.4	12.1	10.6	10.4	9.81	11.0	10.2	13.1	13.1	12.0	12.1	12.7	11.7
71	Swift Creek Hydro	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87
72	The Dalles North Fishway	4.93	4.93	4.95	5.01	5.02	3.43	3.20	3.11	4.73	4.82	4.82	4.71	4.67	4.85	4.46
73	Thousand Springs	7.93	7.93	7.35	6.36	6.31	6.25	6.15	6.13	6.00	5.65	5.65	5.43	5.36	6.36	6.28
74	Trail Bridge	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.60	3.80	3.80	3.80	3.80	2.50	3.80	3.68
75	TW Sullivan	12.5	11.1	12.5	11.1	10.7	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	14.1
76	Twin Falls (ID)	27.2	27.2	28.3	25.6	22.3	22.0	20.7	23.1	21.5	27.5	27.5	25.2	25.5	26.8	24.6
77	Upper Malad	7.48	7.48	6.93	6.00	5.95	5.89	5.80	5.78	5.65	5.33	5.33	5.13	5.05	6.00	5.92
78	Upper Salmon A	9.29	9.29	9.65	8.74	7.61	7.50	7.06	7.90	7.34	9.40	9.40	8.61	8.71	9.14	8.41
79	Upper Salmon B	8.51	8.51	8.85	8.01	6.98	6.88	6.48	7.24	6.73	8.62	8.62	7.89	7.98	8.38	7.71
80	Wallowa Falls	0.47	0.47	0.51	0.45	0.43	0.47	0.45	0.43	0.49	0.46	0.46	0.60	0.71	0.60	0.51
81	Walterville	4.00	3.10	2.90	0	0	5.00	3.10	8.70	9.50	9.50	9.50	9.50	9.50	7.70	5.72
82	Wynoochee Dam	1.17	1.17	2.06	3.62	6.40	7.46	7.98	5.67	3.93	0.84	0.84	0.01	0.01	1.49	3.38
83	Yelm	9.36	9.36	8.91	10.3	7.33	4.97	4.51	5.90	6.20	7.59	7.59	6.20	7.28	7.94	7.22
Total Independent Hydro																
84	Cooperative	7.41	7.41	5.16	4.74	5.20	5.12	5.35	5.82	6.29	8.14	8.14	10.8	11.5	9.87	7.12
85	Federal Entities	361	358	332	322	271	179	145	152	252	435	445	718	664	403	354
86	Investor Owned Utilities	507	501	513	488	451	500	452	508	556	685	691	626	616	539	537
87	Municipality	65.8	65.7	68.7	56.1	52.9	73.2	74.2	84.5	94.9	96.7	99.3	131	152	89.6	86.7
88	Public Utility District	49.7	55.4	37.5	35.9	32.6	93.8	45.8	28.7	57.5	83.0	83.0	111	130	85.4	66.4
89	**Total Independent Hydro**	**991**	**988**	**957**	**906**	**813**	**851**	**722**	**779**	**966**	**1307**	**1327**	**1598**	**1574**	**1127**	**1051**

Table A-8: Regional: Independent Hydro

Operating Year 2019 Water Year: 1937

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Independent Hydro															
1	American Falls	47.7	47.7	49.5	44.9	39.1	38.5	36.3	40.5	37.7	48.3	48.3	44.2	44.7	46.9	43.2
2	Anderson Ranch	28.8	28.8	9.23	4.19	4.36	4.27	4.31	4.76	4.31	9.41	9.41	11.8	37.0	33.2	13.0
3	Arrowrock Hydro	13.0	12.0	3.80	2.40	2.30	2.30	2.30	2.30	2.30	2.40	2.40	13.0	12.0	12.0	5.83
4	Ashton	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50
5	Bend Power Dam	0.56	0.56	0.52	0.34	0.24	0.30	0.32	0.34	0.40	0.48	0.48	0.63	0.63	0.63	0.45
6	Big Cliff	6.00	6.00	9.00	8.00	13.0	6.00	4.00	6.00	7.00	9.00	11.0	20.0	20.0	7.00	9.66
7	Big Fork	2.92	2.92	2.28	1.61	2.23	2.44	2.40	2.41	2.74	3.22	3.22	3.42	3.45	3.39	2.71
8	Black Canyon	8.53	8.53	8.53	5.45	3.61	2.98	3.27	3.53	4.19	8.53	8.53	8.53	8.53	8.53	6.19
9	Bliss	38.7	38.7	40.2	36.4	31.7	31.3	29.4	32.9	30.6	39.2	39.2	35.9	36.3	38.1	35.1
10	Boise River Diversion	1.83	1.83	2.47	0.73	0	0	0	0	0	0.87	0.87	2.50	2.50	2.50	1.12
11	Calispel Creek	0.20	0.20	0.20	0.20	0.20	0.30	0.30	0.31	0.40	0.40	0.40	0.40	0.40	0.30	0.30
12	Carmen-Smith	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
13	Cascade	11.2	11.2	10.4	8.97	8.88	8.80	8.67	8.64	8.45	7.96	7.96	7.66	7.55	8.97	8.84
14	Cedar Falls	3.18	1.96	2.24	1.96	1.21	8.50	9.25	10.2	15.1	9.81	12.2	14.5	27.9	4.39	9.04
15	Chandler	2.21	2.21	2.00	5.70	7.34	3.38	5.51	7.47	9.80	6.06	6.06	5.97	5.80	6.09	5.60
16	CJ Strike	42.7	42.7	44.4	40.2	35.0	34.5	32.5	36.3	33.8	43.3	43.3	39.6	40.1	42.0	38.7
17	Clear Lake	2.25	2.25	2.09	1.81	1.79	1.77	1.75	1.74	1.70	1.60	1.60	1.54	1.52	1.81	1.78
18	Cougar	23.0	22.0	16.0	27.0	23.0	9.00	6.00	8.00	10.00	29.0	29.0	29.0	29.0	17.0	18.8
19	Cowlitz Falls	11.9	8.50	7.90	6.20	3.10	23.1	10.00	13.7	33.3	46.1	50.3	63.6	66.3	28.9	26.2
20	Detroit	11.7	11.5	20.2	44.9	47.5	20.9	21.7	17.7	25.3	34.6	37.2	102	37.9	13.0	33.3
21	Dexter	5.00	7.00	6.00	12.0	16.0	4.00	3.00	5.00	5.00	12.0	17.0	17.0	17.0	6.00	9.29
22	Eagle Point	0	0	0	0	0.39	0.70	0.68	0.91	0.56	0.69	0.69	0.47	0	0	0.36
23	Electron	11.2	10.2	10.3	9.05	5.90	17.8	8.47	12.3	18.9	19.8	21.7	21.7	21.8	17.2	14.6
24	Felt Hydro Project	3.60	3.60	3.77	3.53	3.64	3.05	2.51	2.73	3.40	3.38	3.38	5.12	6.46	4.81	3.84
25	Foster	6.00	6.00	12.0	10.00	7.00	9.00	4.00	9.00	21.0	19.0	18.0	21.0	23.0	6.00	12.2
26	Gem State Hydro	0	0	15.0	10.1	10.7	10.5	11.6	13.0	14.0	15.2	15.2	0	0	0	8.28
27	Grace	27.5	25.8	22.5	19.3	20.0	19.3	19.3	21.4	21.8	27.5	27.5	26.6	27.5	26.6	23.2
28	Green Peter	15.0	15.0	29.0	18.0	16.0	18.0	8.00	0	33.0	88.0	45.0	58.0	49.0	11.0	26.9
29	Green Springs	7.94	7.94	6.90	5.02	5.95	6.34	6.94	6.74	7.97	8.26	8.26	8.78	8.98	8.01	7.32
30	Hellroaring	0.21	0.21	0.19	0.17	0.17	0.14	0.15	0.22	0.32	0.38	0.38	0.26	0.22	0.19	0.22
31	Henry M Jackson	18.4	18.4	20.0	21.1	18.6	79.7	32.9	15.6	41.6	64.6	64.6	73.5	81.8	45.9	43.0
32	Hills Creek	9.00	9.00	23.0	23.0	27.0	5.00	4.00	6.00	7.00	20.0	31.0	35.0	35.0	14.0	17.8
33	Hood Street	0.10	0.10	0.30	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.32
34	Idaho Falls - City Plant	2.89	2.89	3.14	3.91	4.88	6.39	6.59	6.13	4.28	2.92	2.92	1.99	2.92	3.70	4.14
35	Idaho Falls - Lower Plant #1	2.89	2.89	3.14	3.91	4.88	6.39	6.59	6.13	4.28	2.92	2.92	1.99	2.92	3.70	4.14
36	Idaho Falls - Lower Plant #2	1.08	1.08	1.18	1.47	1.83	2.39	2.47	2.30	1.61	1.10	1.10	0.74	1.09	1.39	1.55
37	Idaho Falls - Upper Plant	2.89	2.89	3.14	3.91	4.88	6.39	6.59	6.13	4.28	2.92	2.92	1.99	2.92	3.70	4.14
38	Island Park	3.19	3.19	1.80	1.45	1.47	1.46	1.71	1.89	1.76	1.79	1.79	3.26	3.92	3.81	2.30
39	John Boyle	0	0	9.28	33.2	39.6	44.7	45.1	52.1	78.0	82.0	82.0	28.3	20.7	0	35.9
40	Lake Creek (MT)	2.00	2.00	1.38	1.46	2.00	2.02	2.08	2.39	3.03	4.68	4.68	5.30	5.08	3.68	2.93
41	Last Chance	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
42	Leaburg	5.70	4.10	3.60	0	0	7.10	4.00	11.7	11.7	11.7	11.7	11.7	13.0	10.2	7.43
43	Lookout Point	21.0	26.0	22.0	45.0	47.0	9.00	8.00	12.0	15.0	45.0	74.0	85.0	73.0	24.0	35.3
44	Lost Creek	44.0	39.0	23.0	37.0	19.0	19.0	18.0	13.0	14.0	15.0	16.0	56.0	56.0	46.0	30.0
45	Lower Malad	12.2	12.2	11.3	9.76	9.67	9.58	9.44	9.41	9.20	8.66	8.66	8.34	8.22	9.76	9.63
46	Lower Salmon Falls	31.0	31.0	32.2	29.1	25.4	25.0	23.5	26.3	24.5	31.3	31.3	28.7	29.0	30.5	28.0
47	McNary Fishway	9.01	9.01	6.45	5.48	5.51	5.56	5.59	5.63	5.62	5.65	5.65	6.63	7.93	9.40	6.55
48	Mill Creek (WA)	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
49	Milner Hydro	30.6	30.6	31.8	28.8	25.1	24.8	23.3	26.1	24.2	31.0	31.0	28.4	28.7	30.2	27.8
50	Minidoka	20.7	20.7	15.2	6.48	2.39	2.32	2.32	2.57	2.32	10.3	10.3	24.6	22.7	21.7	11.2
51	Moyie River	1.10	1.10	0.92	1.33	1.32	0.63	0.47	0.81	1.59	2.71	2.71	4.39	4.34	2.95	1.88
52	Newhalem	0.22	0.14	0.16	0.14	0.09	0.60	0.65	0.71	1.06	0.69	0.86	1.01	1.95	0.31	0.63
53	North Umpqua	79.7	79.7	76.2	72.8	70.2	73.7	70.2	78.8	81.4	121	121	146	139	91.7	91.7
54	Oneida	7.46	7.00	6.11	5.25	5.42	5.25	5.25	5.81	5.92	7.46	7.46	7.22	7.46	7.22	6.30
55	Packwood Lake	7.80	20.7	3.87	3.03	1.63	4.65	2.65	3.24	5.36	9.72	9.72	24.1	44.9	24.8	11.9
56	Palisades	118	118	105	45.5	11.3	11.2	11.4	12.8	28.2	51.7	51.7	152	151	127	69.2
57	Paris	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
58	Reeder Gulch	0.40	0.15	0.15	0.10	0.11	0.08	0.12	0.13	0.18	0.18	0.21	0.21	0.23	0.23	0.17

Table A-8: Regional: Independent Hydro

Operating Year 2019 Water Year: 1937

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
59	Rogue	32.7	32.7	30.0	27.0	26.2	28.4	24.9	26.8	40.3	50.0	50.0	50.6	50.6	41.6	35.8
60	Roza	10.6	10.6	3.46	4.08	1.15	4.09	2.59	3.12	9.41	11.4	11.4	10.8	10.9	10.6	6.88
61	Shoshone Falls	6.45	6.45	6.70	6.07	5.29	5.21	4.91	5.49	5.10	6.53	6.53	5.98	6.05	6.35	5.84
62	Smith Creek (Idaho)	0	0	0.05	1.71	1.20	0.48	0.03	0.68	0.93	11.3	11.3	35.7	27.7	3.85	6.99
63	Snoqualmie Falls	23.6	21.7	21.9	19.2	12.5	37.7	17.9	26.1	39.9	41.9	45.8	46.1	46.1	36.4	30.9
64	Soda Creek 4	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
65	Soda Creek No 5	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
66	Soda Point	3.56	3.33	2.91	2.50	2.58	2.50	2.50	2.77	2.82	3.56	3.56	3.44	3.55	3.44	3.00
67	South Fork Tolt	9.01	9.01	6.45	5.48	5.51	5.56	5.59	5.63	5.62	5.65	5.65	6.63	7.93	9.40	6.55
68	Stone Creek	6.50	4.30	8.70	2.20	0.80	2.50	8.50	3.50	6.30	10.4	10.4	8.30	10.4	7.60	6.22
69	Strawberry Creek (WY)	1.35	1.35	1.12	0.96	0.86	0.78	0.70	0.68	0.63	0.80	0.80	1.37	1.58	1.51	1.03
70	Swan Falls	12.9	12.9	13.4	12.1	10.6	10.4	9.81	11.0	10.2	13.1	13.1	12.0	12.1	12.7	11.7
71	Swift Creek Hydro	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87
72	The Dalles North Fishway	4.93	4.93	4.95	5.01	5.02	3.43	3.20	3.11	4.73	4.82	4.82	4.71	4.67	4.85	4.46
73	Thousand Springs	7.93	7.93	7.35	6.36	6.31	6.25	6.15	6.13	6.00	5.65	5.65	5.43	5.36	6.36	6.28
74	Trail Bridge	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.60	3.80	3.80	3.80	3.80	2.50	3.80	3.68
75	TW Sullivan	12.5	11.1	12.5	11.1	10.7	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	14.1
76	Twin Falls (ID)	27.2	27.2	28.3	25.6	22.3	22.0	20.7	23.1	21.5	27.5	27.5	25.2	25.5	26.8	24.6
77	Upper Malad	7.48	7.48	6.93	6.00	5.95	5.89	5.80	5.78	5.65	5.33	5.33	5.13	5.05	6.00	5.92
78	Upper Salmon A	9.29	9.29	9.65	8.74	7.61	7.50	7.06	7.90	7.34	9.40	9.40	8.61	8.71	9.14	8.41
79	Upper Salmon B	8.51	8.51	8.85	8.01	6.98	6.88	6.48	7.24	6.73	8.62	8.62	7.89	7.98	8.38	7.71
80	Wallowa Falls	0.47	0.47	0.51	0.45	0.43	0.47	0.45	0.43	0.49	0.46	0.46	0.60	0.71	0.60	0.51
81	Walterville	4.00	3.10	2.90	0	0	5.00	3.10	8.70	9.50	9.50	9.50	9.50	9.50	7.70	5.72
82	Wynoochee Dam	1.17	1.17	2.06	3.62	6.40	7.46	7.98	5.67	3.93	0.84	0.84	0.01	0.01	1.49	3.38
83	Yelm	9.36	9.36	8.91	10.3	7.33	4.97	4.51	5.90	6.20	7.59	7.59	6.20	7.28	7.94	7.22
Total Independent Hydro																
84	Cooperative	7.41	7.41	5.16	4.74	5.20	5.12	5.35	5.82	6.29	8.14	8.14	10.8	11.5	9.87	7.12
85	Federal Entities	361	358	332	322	271	179	145	152	252	435	445	718	664	403	354
86	Investor Owned Utilities	507	501	513	488	451	500	452	508	556	685	691	626	616	539	537
87	Municipality	65.8	65.7	68.7	56.1	52.9	73.2	74.2	84.5	94.9	96.7	99.3	131	152	89.6	86.7
88	Public Utility District	49.7	55.4	37.5	35.9	32.6	93.8	45.8	28.7	57.5	83.0	83.0	111	130	85.4	66.4
89	**Total Independent Hydro**	**991**	**988**	**957**	**906**	**813**	**851**	**722**	**779**	**966**	**1307**	**1327**	**1598**	**1574**	**1127**	**1051**

Table A-8: Regional: Independent Hydro

Operating Year 2020 Water Year: 1937

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Independent Hydro															
1	American Falls	47.7	47.7	49.5	44.9	39.1	38.5	36.3	40.5	37.7	48.3	48.3	44.2	44.7	46.9	43.2
2	Anderson Ranch	28.8	28.8	9.23	4.19	4.36	4.27	4.31	4.76	4.31	9.41	9.41	11.8	37.0	33.2	13.0
3	Arrowrock Hydro	13.0	12.0	3.80	2.40	2.30	2.30	2.30	2.30	2.30	2.40	2.40	13.0	12.0	12.0	5.83
4	Ashton	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50
5	Bend Power Dam	0.56	0.56	0.52	0.34	0.24	0.30	0.32	0.34	0.40	0.48	0.48	0.63	0.63	0.63	0.45
6	Big Cliff	6.00	6.00	9.00	8.00	13.0	6.00	4.00	6.00	7.00	9.00	11.0	20.0	20.0	7.00	9.65
7	Big Fork	2.92	2.92	2.28	1.61	2.23	2.44	2.40	2.41	2.74	3.22	3.22	3.42	3.45	3.39	2.71
8	Black Canyon	8.53	8.53	8.53	5.45	3.61	2.98	3.27	3.53	4.19	8.53	8.53	8.53	8.53	8.53	6.19
9	Bliss	38.7	38.7	40.2	36.4	31.7	31.3	29.4	32.9	30.6	39.2	39.2	35.9	36.3	38.1	35.0
10	Boise River Diversion	1.83	1.83	2.47	0.73	0	0	0	0	0	0.87	0.87	2.50	2.50	2.50	1.12
11	Calispel Creek	0.20	0.20	0.20	0.20	0.20	0.30	0.30	0.31	0.40	0.40	0.40	0.40	0.40	0.30	0.30
12	Carmen-Smith	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
13	Cascade	11.2	11.2	10.4	8.97	8.88	8.80	8.67	8.64	8.45	7.96	7.96	7.66	7.55	8.97	8.84
14	Cedar Falls	3.18	1.96	2.24	1.96	1.21	8.50	9.25	10.2	15.1	9.81	12.2	14.5	27.9	4.39	9.04
15	Chandler	2.21	2.21	2.00	5.70	7.34	3.38	5.51	7.47	9.80	6.06	6.06	5.97	5.80	6.09	5.61
16	CJ Strike	42.7	42.7	44.4	40.2	35.0	34.5	32.5	36.3	33.8	43.3	43.3	39.6	40.1	42.0	38.7
17	Clear Lake	2.25	2.25	2.09	1.81	1.79	1.77	1.75	1.74	1.70	1.60	1.60	1.54	1.52	1.81	1.78
18	Cougar	23.0	22.0	16.0	27.0	23.0	9.00	6.00	8.00	10.00	29.0	29.0	29.0	29.0	17.0	18.8
19	Cowlitz Falls	11.9	8.50	7.90	6.20	3.10	23.1	10.00	13.7	33.3	46.1	50.3	63.6	66.3	28.9	26.2
20	Detroit	11.7	11.5	20.2	44.9	47.5	20.9	21.7	17.7	25.3	34.6	37.2	102	37.9	13.0	33.2
21	Dexter	5.00	7.00	6.00	12.0	16.0	4.00	3.00	5.00	5.00	12.0	17.0	17.0	17.0	6.00	9.27
22	Eagle Point	0	0	0	0	0.39	0.70	0.68	0.91	0.56	0.69	0.69	0.47	0	0	0.36
23	Electron	11.2	10.2	10.3	9.05	5.90	17.8	8.47	12.3	18.9	19.8	21.7	21.7	21.8	17.2	14.6
24	Felt Hydro Project	3.60	3.60	3.77	3.53	3.64	3.05	2.51	2.73	3.40	3.38	3.38	5.12	6.46	4.81	3.83
25	Foster	6.00	6.00	12.0	10.00	7.00	9.00	4.00	9.00	21.0	19.0	18.0	21.0	23.0	6.00	12.2
26	Gem State Hydro	0	0	15.0	10.1	10.7	10.5	11.6	13.0	14.0	15.2	15.2	0	0	0	8.30
27	Grace	27.5	25.8	22.5	19.3	20.0	19.3	19.3	21.4	21.8	27.5	27.5	26.6	27.5	26.6	23.2
28	Green Peter	15.0	15.0	29.0	18.0	16.0	18.0	8.00	0	33.0	88.0	45.0	58.0	49.0	11.0	26.8
29	Green Springs	7.94	7.94	6.90	5.02	5.95	6.34	6.94	6.74	7.97	8.26	8.26	8.78	8.98	8.01	7.32
30	Hellroaring	0.21	0.21	0.19	0.17	0.17	0.14	0.15	0.22	0.32	0.38	0.38	0.26	0.22	0.19	0.22
31	Henry M Jackson	18.4	18.4	20.0	21.1	18.6	79.7	32.9	15.6	41.6	64.6	64.6	73.5	81.8	45.9	42.9
32	Hills Creek	9.00	9.00	23.0	23.0	27.0	5.00	4.00	6.00	7.00	20.0	31.0	35.0	35.0	14.0	17.8
33	Hood Street	0.10	0.10	0.30	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.32
34	Idaho Falls - City Plant	2.89	2.89	3.14	3.91	4.88	6.39	6.59	6.13	4.28	2.92	2.92	1.99	2.92	3.70	4.14
35	Idaho Falls - Lower Plant #1	2.89	2.89	3.14	3.91	4.88	6.39	6.59	6.13	4.28	2.92	2.92	1.99	2.92	3.70	4.14
36	Idaho Falls - Lower Plant #2	1.08	1.08	1.18	1.47	1.83	2.39	2.47	2.30	1.61	1.10	1.10	0.74	1.09	1.39	1.55
37	Idaho Falls - Upper Plant	2.89	2.89	3.14	3.91	4.88	6.39	6.59	6.13	4.28	2.92	2.92	1.99	2.92	3.70	4.14
38	Island Park	3.19	3.19	1.80	1.45	1.47	1.46	1.71	1.89	1.76	1.79	1.79	3.26	3.92	3.81	2.30
39	John Boyle	0	0	9.28	33.2	39.6	44.7	45.1	52.1	78.0	82.0	82.0	28.3	20.7	0	36.0
40	Lake Creek (MT)	2.00	2.00	1.38	1.46	2.00	2.02	2.08	2.39	3.03	4.68	4.68	5.30	5.08	3.68	2.92
41	Last Chance	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
42	Leaburg	5.70	4.10	3.60	0	0	7.10	4.00	11.7	11.7	11.7	11.7	11.7	13.0	10.2	7.44
43	Lookout Point	21.0	26.0	22.0	45.0	47.0	9.00	8.00	12.0	15.0	45.0	74.0	85.0	73.0	24.0	35.2
44	Lost Creek	44.0	39.0	23.0	37.0	19.0	19.0	18.0	13.0	14.0	15.0	16.0	56.0	56.0	46.0	29.9
45	Lower Malad	12.2	12.2	11.3	9.76	9.67	9.58	9.44	9.41	9.20	8.66	8.66	8.34	8.22	9.76	9.63
46	Lower Salmon Falls	31.0	31.0	32.2	29.1	25.4	25.0	23.5	26.3	24.5	31.3	31.3	28.7	29.0	30.5	28.0
47	McNary Fishway	9.01	9.01	6.45	5.48	5.51	5.56	5.59	5.63	5.62	5.65	5.65	6.63	7.93	9.40	6.54
48	Mill Creek (WA)	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
49	Milner Hydro	30.6	30.6	31.8	28.8	25.1	24.8	23.3	26.1	24.2	31.0	31.0	28.4	28.7	30.2	27.8
50	Minidoka	20.7	20.7	15.2	6.48	2.39	2.32	2.32	2.57	2.32	10.3	10.3	24.6	22.7	21.7	11.2
51	Moyie River	1.10	1.10	0.92	1.33	1.32	0.63	0.47	0.81	1.59	2.71	2.71	4.39	4.34	2.95	1.88
52	Newhalem	0.22	0.14	0.16	0.14	0.09	0.60	0.65	0.71	1.06	0.69	0.86	1.01	1.95	0.31	0.63
53	North Umpqua	79.7	79.7	76.2	72.8	70.2	73.7	70.2	78.8	81.4	121	121	146	139	91.7	91.7
54	Oneida	7.46	7.00	6.11	5.25	5.42	5.25	5.25	5.81	5.92	7.46	7.46	7.22	7.46	7.22	6.30
55	Packwood Lake	7.80	20.7	3.87	3.03	1.63	4.65	2.65	3.24	5.36	9.72	9.72	24.1	44.9	24.8	11.9
56	Palisades	118	118	105	45.5	11.3	11.2	11.4	12.8	28.2	51.7	51.7	152	151	127	69.0
57	Paris	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
58	Reeder Gulch	0.40	0.15	0.15	0.10	0.11	0.08	0.12	0.13	0.18	0.18	0.21	0.21	0.23	0.23	0.17

Table A-8: Regional: Independent Hydro

Operating Year 2020 Water Year: 1937

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
59	Rogue	32.7	32.7	30.0	27.0	26.2	28.4	24.9	26.8	40.3	50.0	50.0	50.6	50.6	41.6	35.8
60	Roza	10.6	10.6	3.46	4.08	1.15	4.09	2.59	3.12	9.41	11.4	11.4	10.8	10.9	10.6	6.87
61	Shoshone Falls	6.45	6.45	6.70	6.07	5.29	5.21	4.91	5.49	5.10	6.53	6.53	5.98	6.05	6.35	5.84
62	Smith Creek (Idaho)	0	0	0.05	1.71	1.20	0.48	0.03	0.68	0.93	11.3	11.3	35.7	27.7	3.85	6.97
63	Snoqualmie Falls	23.6	21.7	21.9	19.2	12.5	37.7	17.9	26.1	39.9	41.9	45.8	46.1	46.1	36.4	30.9
64	Soda Creek 4	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
65	Soda Creek No 5	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
66	Soda Point	3.56	3.33	2.91	2.50	2.58	2.50	2.50	2.77	2.82	3.56	3.56	3.44	3.55	3.44	3.00
67	South Fork Tolt	9.01	9.01	6.45	5.48	5.51	5.56	5.59	5.63	5.62	5.65	5.65	6.63	7.93	9.40	6.54
68	Stone Creek	6.50	4.30	8.70	2.20	0.80	2.50	8.50	3.50	6.30	10.4	10.4	8.30	10.4	7.60	6.21
69	Strawberry Creek (WY)	1.35	1.35	1.12	0.96	0.86	0.78	0.70	0.68	0.63	0.80	0.80	1.37	1.58	1.51	1.03
70	Swan Falls	12.9	12.9	13.4	12.1	10.6	10.4	9.81	11.0	10.2	13.1	13.1	12.0	12.1	12.7	11.7
71	Swift Creek Hydro	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87
72	The Dalles North Fishway	4.93	4.93	4.95	5.01	5.02	3.43	3.20	3.11	4.73	4.82	4.82	4.71	4.67	4.85	4.45
73	Thousand Springs	7.93	7.93	7.35	6.36	6.31	6.25	6.15	6.13	6.00	5.65	5.65	5.43	5.36	6.36	6.27
74	Trail Bridge	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.60	3.80	3.80	3.80	3.80	2.50	3.80	3.68
75	TW Sullivan	12.5	11.1	12.5	11.1	10.7	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	14.1
76	Twin Falls (ID)	27.2	27.2	28.3	25.6	22.3	22.0	20.7	23.1	21.5	27.5	27.5	25.2	25.5	26.8	24.6
77	Upper Malad	7.48	7.48	6.93	6.00	5.95	5.89	5.80	5.78	5.65	5.33	5.33	5.13	5.05	6.00	5.92
78	Upper Salmon A	9.29	9.29	9.65	8.74	7.61	7.50	7.06	7.90	7.34	9.40	9.40	8.61	8.71	9.14	8.41
79	Upper Salmon B	8.51	8.51	8.85	8.01	6.98	6.88	6.48	7.24	6.73	8.62	8.62	7.89	7.98	8.38	7.71
80	Wallowa Falls	0.47	0.47	0.51	0.45	0.43	0.47	0.45	0.43	0.49	0.46	0.46	0.60	0.71	0.60	0.51
81	Walterville	4.00	3.10	2.90	0	0	5.00	3.10	8.70	9.50	9.50	9.50	9.50	9.50	7.70	5.73
82	Wynoochee Dam	1.17	1.17	2.06	3.62	6.40	7.46	7.98	5.67	3.93	0.84	0.84	0.01	0.01	1.49	3.39
83	Yelm	9.36	9.36	8.91	10.3	7.33	4.97	4.51	5.90	6.20	7.59	7.59	6.20	7.28	7.94	7.21
Total Independent Hydro																
84	Cooperative	7.41	7.41	5.16	4.74	5.20	5.12	5.35	5.82	6.29	8.14	8.14	10.8	11.5	9.87	7.12
85	Federal Entities	361	358	332	322	271	179	145	152	252	435	445	718	664	403	354
86	Investor Owned Utilities	507	501	513	488	451	500	452	508	556	685	691	626	616	539	536
87	Municipality	65.8	65.7	68.7	56.1	52.9	73.2	74.2	84.5	94.9	96.7	99.3	131	152	89.6	86.7
88	Public Utility District	49.7	55.4	37.5	35.9	32.6	93.8	45.8	28.7	57.5	83.0	83.0	111	130	85.4	66.3
89	**Total Independent Hydro**	**991**	**988**	**957**	**906**	**813**	**851**	**722**	**779**	**966**	**1307**	**1327**	**1598**	**1574**	**1127**	**1050**

Table A-8: Regional: Independent Hydro

Operating Year 2021 Water Year: 1937

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Independent Hydro															
1	American Falls	47.7	47.7	49.5	44.9	39.1	38.5	36.3	40.5	37.7	48.3	48.3	44.2	44.7	46.9	43.2
2	Anderson Ranch	28.8	28.8	9.23	4.19	4.36	4.27	4.31	4.76	4.31	9.41	9.41	11.8	37.0	33.2	13.0
3	Arrowrock Hydro	13.0	12.0	3.80	2.40	2.30	2.30	2.30	2.30	2.30	2.40	2.40	13.0	12.0	12.0	5.83
4	Ashton	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50
5	Bend Power Dam	0.56	0.56	0.52	0.34	0.24	0.30	0.32	0.34	0.40	0.48	0.48	0.63	0.63	0.63	0.45
6	Big Cliff	6.00	6.00	9.00	8.00	13.0	6.00	4.00	6.00	7.00	9.00	11.0	20.0	20.0	7.00	9.66
7	Big Fork	2.92	2.92	2.28	1.61	2.23	2.44	2.40	2.41	2.74	3.22	3.22	3.42	3.45	3.39	2.71
8	Black Canyon	8.53	8.53	8.53	5.45	3.61	2.98	3.27	3.53	4.19	8.53	8.53	8.53	8.53	8.53	6.19
9	Bliss	38.7	38.7	40.2	36.4	31.7	31.3	29.4	32.9	30.6	39.2	39.2	35.9	36.3	38.1	35.1
10	Boise River Diversion	1.83	1.83	2.47	0.73	0	0	0	0	0	0.87	0.87	2.50	2.50	2.50	1.12
11	Calispel Creek	0.20	0.20	0.20	0.20	0.20	0.30	0.30	0.31	0.40	0.40	0.40	0.40	0.40	0.30	0.30
12	Carmen-Smith	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
13	Cascade	11.2	11.2	10.4	8.97	8.88	8.80	8.67	8.64	8.45	7.96	7.96	7.66	7.55	8.97	8.84
14	Cedar Falls	3.18	1.96	2.24	1.96	1.21	8.50	9.25	10.2	15.1	9.81	12.2	14.5	27.9	4.39	9.04
15	Chandler	2.21	2.21	2.00	5.70	7.34	3.38	5.51	7.47	9.80	6.06	6.06	5.97	5.80	6.09	5.60
16	CJ Strike	42.7	42.7	44.4	40.2	35.0	34.5	32.5	36.3	33.8	43.3	43.3	39.6	40.1	42.0	38.7
17	Clear Lake	2.25	2.25	2.09	1.81	1.79	1.77	1.75	1.74	1.70	1.60	1.60	1.54	1.52	1.81	1.78
18	Cougar	23.0	22.0	16.0	27.0	23.0	9.00	6.00	8.00	10.00	29.0	29.0	29.0	29.0	17.0	18.8
19	Cowlitz Falls	11.9	8.50	7.90	6.20	3.10	23.1	10.00	13.7	33.3	46.1	50.3	63.6	66.3	28.9	26.2
20	Detroit	11.7	11.5	20.2	44.9	47.5	20.9	21.7	17.7	25.3	34.6	37.2	102	37.9	13.0	33.3
21	Dexter	5.00	7.00	6.00	12.0	16.0	4.00	3.00	5.00	5.00	12.0	17.0	17.0	17.0	6.00	9.29
22	Eagle Point	0	0	0	0	0.39	0.70	0.68	0.91	0.56	0.69	0.69	0.47	0	0	0.36
23	Electron	11.2	10.2	10.3	9.05	5.90	17.8	8.47	12.3	18.9	19.8	21.7	21.7	21.8	17.2	14.6
24	Felt Hydro Project	3.60	3.60	3.77	3.53	3.64	3.05	2.51	2.73	3.40	3.38	3.38	5.12	6.46	4.81	3.84
25	Foster	6.00	6.00	12.0	10.00	7.00	9.00	4.00	9.00	21.0	19.0	18.0	21.0	23.0	6.00	12.2
26	Gem State Hydro	0	0	15.0	10.1	10.7	10.5	11.6	13.0	14.0	15.2	15.2	0	0	0	8.28
27	Grace	27.5	25.8	22.5	19.3	20.0	19.3	19.3	21.4	21.8	27.5	27.5	26.6	27.5	26.6	23.2
28	Green Peter	15.0	15.0	29.0	18.0	16.0	18.0	8.00	0	33.0	88.0	45.0	58.0	49.0	11.0	26.9
29	Green Springs	7.94	7.94	6.90	5.02	5.95	6.34	6.94	6.74	7.97	8.26	8.26	8.78	8.98	8.01	7.32
30	Hellroaring	0.21	0.21	0.19	0.17	0.17	0.14	0.15	0.22	0.32	0.38	0.38	0.26	0.22	0.19	0.22
31	Henry M Jackson	18.4	18.4	20.0	21.1	18.6	79.7	32.9	15.6	41.6	64.6	64.6	73.5	81.8	45.9	43.0
32	Hills Creek	9.00	9.00	23.0	23.0	27.0	5.00	4.00	6.00	7.00	20.0	31.0	35.0	35.0	14.0	17.8
33	Hood Street	0.10	0.10	0.30	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.32
34	Idaho Falls - City Plant	2.89	2.89	3.14	3.91	4.88	6.39	6.59	6.13	4.28	2.92	2.92	1.99	2.92	3.70	4.14
35	Idaho Falls - Lower Plant #1	2.89	2.89	3.14	3.91	4.88	6.39	6.59	6.13	4.28	2.92	2.92	1.99	2.92	3.70	4.14
36	Idaho Falls - Lower Plant #2	1.08	1.08	1.18	1.47	1.83	2.39	2.47	2.30	1.61	1.10	1.10	0.74	1.09	1.39	1.55
37	Idaho Falls - Upper Plant	2.89	2.89	3.14	3.91	4.88	6.39	6.59	6.13	4.28	2.92	2.92	1.99	2.92	3.70	4.14
38	Island Park	3.19	3.19	1.80	1.45	1.47	1.46	1.71	1.89	1.76	1.79	1.79	3.26	3.92	3.81	2.30
39	John Boyle	0	0	9.28	33.2	39.6	44.7	45.1	52.1	78.0	82.0	82.0	28.3	20.7	0	35.9
40	Lake Creek (MT)	2.00	2.00	1.38	1.46	2.00	2.02	2.08	2.39	3.03	4.68	4.68	5.30	5.08	3.68	2.93
41	Last Chance	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
42	Leaburg	5.70	4.10	3.60	0	0	7.10	4.00	11.7	11.7	11.7	11.7	11.7	13.0	10.2	7.43
43	Lookout Point	21.0	26.0	22.0	45.0	47.0	9.00	8.00	12.0	15.0	45.0	74.0	85.0	73.0	24.0	35.3
44	Lost Creek	44.0	39.0	23.0	37.0	19.0	19.0	18.0	13.0	14.0	15.0	16.0	56.0	56.0	46.0	30.0
45	Lower Malad	12.2	12.2	11.3	9.76	9.67	9.58	9.44	9.41	9.20	8.66	8.66	8.34	8.22	9.76	9.63
46	Lower Salmon Falls	31.0	31.0	32.2	29.1	25.4	25.0	23.5	26.3	24.5	31.3	31.3	28.7	29.0	30.5	28.0
47	McNary Fishway	9.01	9.01	6.45	5.48	5.51	5.56	5.59	5.63	5.62	5.65	5.65	6.63	7.93	9.40	6.55
48	Mill Creek (WA)	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
49	Milner Hydro	30.6	30.6	31.8	28.8	25.1	24.8	23.3	26.1	24.2	31.0	31.0	28.4	28.7	30.2	27.8
50	Minidoka	20.7	20.7	15.2	6.48	2.39	2.32	2.32	2.57	2.32	10.3	10.3	24.6	22.7	21.7	11.2
51	Moyie River	1.10	1.10	0.92	1.33	1.32	0.63	0.47	0.81	1.59	2.71	2.71	4.39	4.34	2.95	1.88
52	Newhalem	0.22	0.14	0.16	0.14	0.09	0.60	0.65	0.71	1.06	0.69	0.86	1.01	1.95	0.31	0.63
53	North Umpqua	79.7	79.7	76.2	72.8	70.2	73.7	70.2	78.8	81.4	121	121	146	139	91.7	91.7
54	Oneida	7.46	7.00	6.11	5.25	5.42	5.25	5.25	5.81	5.92	7.46	7.46	7.22	7.46	7.22	6.30
55	Packwood Lake	7.80	20.7	3.87	3.03	1.63	4.65	2.65	3.24	5.36	9.72	9.72	24.1	44.9	24.8	11.9
56	Palisades	118	118	105	45.5	11.3	11.2	11.4	12.8	28.2	51.7	51.7	152	151	127	69.2
57	Paris	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
58	Reeder Gulch	0.40	0.15	0.15	0.10	0.11	0.08	0.12	0.13	0.18	0.18	0.21	0.21	0.23	0.23	0.17

Table A-8: Regional: Independent Hydro

Operating Year 2021 Water Year: 1937

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
59	Rogue	32.7	32.7	30.0	27.0	26.2	28.4	24.9	26.8	40.3	50.0	50.0	50.6	50.6	41.6	35.8
60	Roza	10.6	10.6	3.46	4.08	1.15	4.09	2.59	3.12	9.41	11.4	11.4	10.8	10.9	10.6	6.88
61	Shoshone Falls	6.45	6.45	6.70	6.07	5.29	5.21	4.91	5.49	5.10	6.53	6.53	5.98	6.05	6.35	5.84
62	Smith Creek (Idaho)	0	0	0.05	1.71	1.20	0.48	0.03	0.68	0.93	11.3	11.3	35.7	27.7	3.85	6.99
63	Snoqualmie Falls	23.6	21.7	21.9	19.2	12.5	37.7	17.9	26.1	39.9	41.9	45.8	46.1	46.1	36.4	30.9
64	Soda Creek 4	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
65	Soda Creek No 5	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
66	Soda Point	3.56	3.33	2.91	2.50	2.58	2.50	2.50	2.77	2.82	3.56	3.56	3.44	3.55	3.44	3.00
67	South Fork Tolt	9.01	9.01	6.45	5.48	5.51	5.56	5.59	5.63	5.62	5.65	5.65	6.63	7.93	9.40	6.55
68	Stone Creek	6.50	4.30	8.70	2.20	0.80	2.50	8.50	3.50	6.30	10.4	10.4	8.30	10.4	7.60	6.22
69	Strawberry Creek (WY)	1.35	1.35	1.12	0.96	0.86	0.78	0.70	0.68	0.63	0.80	0.80	1.37	1.58	1.51	1.03
70	Swan Falls	12.9	12.9	13.4	12.1	10.6	10.4	9.81	11.0	10.2	13.1	13.1	12.0	12.1	12.7	11.7
71	Swift Creek Hydro	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87
72	The Dalles North Fishway	4.93	4.93	4.95	5.01	5.02	3.43	3.20	3.11	4.73	4.82	4.82	4.71	4.67	4.85	4.46
73	Thousand Springs	7.93	7.93	7.35	6.36	6.31	6.25	6.15	6.13	6.00	5.65	5.65	5.43	5.36	6.36	6.28
74	Trail Bridge	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.60	3.80	3.80	3.80	3.80	2.50	3.80	3.68
75	TW Sullivan	12.5	11.1	12.5	11.1	10.7	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	14.1
76	Twin Falls (ID)	27.2	27.2	28.3	25.6	22.3	22.0	20.7	23.1	21.5	27.5	27.5	25.2	25.5	26.8	24.6
77	Upper Malad	7.48	7.48	6.93	6.00	5.95	5.89	5.80	5.78	5.65	5.33	5.33	5.13	5.05	6.00	5.92
78	Upper Salmon A	9.29	9.29	9.65	8.74	7.61	7.50	7.06	7.90	7.34	9.40	9.40	8.61	8.71	9.14	8.41
79	Upper Salmon B	8.51	8.51	8.85	8.01	6.98	6.88	6.48	7.24	6.73	8.62	8.62	7.89	7.98	8.38	7.71
80	Wallowa Falls	0.47	0.47	0.51	0.45	0.43	0.47	0.45	0.43	0.49	0.46	0.46	0.60	0.71	0.60	0.51
81	Walterville	4.00	3.10	2.90	0	0	5.00	3.10	8.70	9.50	9.50	9.50	9.50	9.50	7.70	5.72
82	Wynoochee Dam	1.17	1.17	2.06	3.62	6.40	7.46	7.98	5.67	3.93	0.84	0.84	0.01	0.01	1.49	3.38
83	Yelm	9.36	9.36	8.91	10.3	7.33	4.97	4.51	5.90	6.20	7.59	7.59	6.20	7.28	7.94	7.22
	Total Independent Hydro															
84	Cooperative	7.41	7.41	5.16	4.74	5.20	5.12	5.35	5.82	6.29	8.14	8.14	10.8	11.5	9.87	7.12
85	Federal Entities	361	358	332	322	271	179	145	152	252	435	445	718	664	403	354
86	Investor Owned Utilities	507	501	513	488	451	500	452	508	556	685	691	626	616	539	537
87	Municipality	65.8	65.7	68.7	56.1	52.9	73.2	74.2	84.5	94.9	96.7	99.3	131	152	89.6	86.7
88	Public Utility District	49.7	55.4	37.5	35.9	32.6	93.8	45.8	28.7	57.5	83.0	83.0	111	130	85.4	66.4
89	**Total Independent Hydro**	**991**	**988**	**957**	**906**	**813**	**851**	**722**	**779**	**966**	**1307**	**1327**	**1598**	**1574**	**1127**	**1051**

Table A-8: Regional: Independent Hydro

Operating Year 2022 Water Year: 1937

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Independent Hydro															
1	American Falls	47.7	47.7	49.5	44.9	39.1	38.5	36.3	40.5	37.7	48.3	48.3	44.2	44.7	46.9	43.2
2	Anderson Ranch	28.8	28.8	9.23	4.19	4.36	4.27	4.31	4.76	4.31	9.41	9.41	11.8	37.0	33.2	13.0
3	Arrowrock Hydro	13.0	12.0	3.80	2.40	2.30	2.30	2.30	2.30	2.30	2.40	2.40	13.0	12.0	12.0	5.83
4	Ashton	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50
5	Bend Power Dam	0.56	0.56	0.52	0.34	0.24	0.30	0.32	0.34	0.40	0.48	0.48	0.63	0.63	0.63	0.45
6	Big Cliff	6.00	6.00	9.00	8.00	13.0	6.00	4.00	6.00	7.00	9.00	11.0	20.0	20.0	7.00	9.66
7	Big Fork	2.92	2.92	2.28	1.61	2.23	2.44	2.40	2.41	2.74	3.22	3.22	3.42	3.45	3.39	2.71
8	Black Canyon	8.53	8.53	8.53	5.45	3.61	2.98	3.27	3.53	4.19	8.53	8.53	8.53	8.53	8.53	6.19
9	Bliss	38.7	38.7	40.2	36.4	31.7	31.3	29.4	32.9	30.6	39.2	39.2	35.9	36.3	38.1	35.1
10	Boise River Diversion	1.83	1.83	2.47	0.73	0	0	0	0	0	0.87	0.87	2.50	2.50	2.50	1.12
11	Calispel Creek	0.20	0.20	0.20	0.20	0.20	0.30	0.30	0.31	0.40	0.40	0.40	0.40	0.40	0.30	0.30
12	Carmen-Smith	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
13	Cascade	11.2	11.2	10.4	8.97	8.88	8.80	8.67	8.64	8.45	7.96	7.96	7.66	7.55	8.97	8.84
14	Cedar Falls	3.18	1.96	2.24	1.96	1.21	8.50	9.25	10.2	15.1	9.81	12.2	14.5	27.9	4.39	9.04
15	Chandler	2.21	2.21	2.00	5.70	7.34	3.38	5.51	7.47	9.80	6.06	6.06	5.97	5.80	6.09	5.60
16	CJ Strike	42.7	42.7	44.4	40.2	35.0	34.5	32.5	36.3	33.8	43.3	43.3	39.6	40.1	42.0	38.7
17	Clear Lake	2.25	2.25	2.09	1.81	1.79	1.77	1.75	1.74	1.70	1.60	1.60	1.54	1.52	1.81	1.78
18	Cougar	23.0	22.0	16.0	27.0	23.0	9.00	6.00	8.00	10.00	29.0	29.0	29.0	29.0	17.0	18.8
19	Cowlitz Falls	11.9	8.50	7.90	6.20	3.10	23.1	10.00	13.7	33.3	46.1	50.3	63.6	66.3	28.9	26.2
20	Detroit	11.7	11.5	20.2	44.9	47.5	20.9	21.7	17.7	25.3	34.6	37.2	102	37.9	13.0	33.3
21	Dexter	5.00	7.00	6.00	12.0	16.0	4.00	3.00	5.00	5.00	12.0	17.0	17.0	17.0	6.00	9.29
22	Eagle Point	0	0	0	0	0.39	0.70	0.68	0.91	0.56	0.69	0.69	0.47	0	0	0.36
23	Electron	11.2	10.2	10.3	9.05	5.90	17.8	8.47	12.3	18.9	19.8	21.7	21.7	21.8	17.2	14.6
24	Felt Hydro Project	3.60	3.60	3.77	3.53	3.64	3.05	2.51	2.73	3.40	3.38	3.38	5.12	6.46	4.81	3.84
25	Foster	6.00	6.00	12.0	10.00	7.00	9.00	4.00	9.00	21.0	19.0	18.0	21.0	23.0	6.00	12.2
26	Gem State Hydro	0	0	15.0	10.1	10.7	10.5	11.6	13.0	14.0	15.2	15.2	0	0	0	8.28
27	Grace	27.5	25.8	22.5	19.3	20.0	19.3	19.3	21.4	21.8	27.5	27.5	26.6	27.5	26.6	23.2
28	Green Peter	15.0	15.0	29.0	18.0	16.0	18.0	8.00	0	33.0	88.0	45.0	58.0	49.0	11.0	26.9
29	Green Springs	7.94	7.94	6.90	5.02	5.95	6.34	6.94	6.74	7.97	8.26	8.26	8.78	8.98	8.01	7.32
30	Hellroaring	0.21	0.21	0.19	0.17	0.17	0.14	0.15	0.22	0.32	0.38	0.38	0.26	0.22	0.19	0.22
31	Henry M Jackson	18.4	18.4	20.0	21.1	18.6	79.7	32.9	15.6	41.6	64.6	64.6	73.5	81.8	45.9	43.0
32	Hills Creek	9.00	9.00	23.0	23.0	27.0	5.00	4.00	6.00	7.00	20.0	31.0	35.0	35.0	14.0	17.8
33	Hood Street	0.10	0.10	0.30	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.32
34	Idaho Falls - City Plant	2.89	2.89	3.14	3.91	4.88	6.39	6.59	6.13	4.28	2.92	2.92	1.99	2.92	3.70	4.14
35	Idaho Falls - Lower Plant #1	2.89	2.89	3.14	3.91	4.88	6.39	6.59	6.13	4.28	2.92	2.92	1.99	2.92	3.70	4.14
36	Idaho Falls - Lower Plant #2	1.08	1.08	1.18	1.47	1.83	2.39	2.47	2.30	1.61	1.10	1.10	0.74	1.09	1.39	1.55
37	Idaho Falls - Upper Plant	2.89	2.89	3.14	3.91	4.88	6.39	6.59	6.13	4.28	2.92	2.92	1.99	2.92	3.70	4.14
38	Island Park	3.19	3.19	1.80	1.45	1.47	1.46	1.71	1.89	1.76	1.79	1.79	3.26	3.92	3.81	2.30
39	John Boyle	0	0	9.28	33.2	39.6	44.7	45.1	52.1	78.0	82.0	82.0	28.3	20.7	0	35.9
40	Lake Creek (MT)	2.00	2.00	1.38	1.46	2.00	2.02	2.08	2.39	3.03	4.68	4.68	5.30	5.08	3.68	2.93
41	Last Chance	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
42	Leaburg	5.70	4.10	3.60	0	0	7.10	4.00	11.7	11.7	11.7	11.7	11.7	13.0	10.2	7.43
43	Lookout Point	21.0	26.0	22.0	45.0	47.0	9.00	8.00	12.0	15.0	45.0	74.0	85.0	73.0	24.0	35.3
44	Lost Creek	44.0	39.0	23.0	37.0	19.0	19.0	18.0	13.0	14.0	15.0	16.0	56.0	56.0	46.0	30.0
45	Lower Malad	12.2	12.2	11.3	9.76	9.67	9.58	9.44	9.41	9.20	8.66	8.66	8.34	8.22	9.76	9.63
46	Lower Salmon Falls	31.0	31.0	32.2	29.1	25.4	25.0	23.5	26.3	24.5	31.3	31.3	28.7	29.0	30.5	28.0
47	McNary Fishway	9.01	9.01	6.45	5.48	5.51	5.56	5.59	5.63	5.62	5.65	5.65	6.63	7.93	9.40	6.55
48	Mill Creek (WA)	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
49	Milner Hydro	30.6	30.6	31.8	28.8	25.1	24.8	23.3	26.1	24.2	31.0	31.0	28.4	28.7	30.2	27.8
50	Minidoka	20.7	20.7	15.2	6.48	2.39	2.32	2.32	2.57	2.32	10.3	10.3	24.6	22.7	21.7	11.2
51	Moyie River	1.10	1.10	0.92	1.33	1.32	0.63	0.47	0.81	1.59	2.71	2.71	4.39	4.34	2.95	1.88
52	Newhalem	0.22	0.14	0.16	0.14	0.09	0.60	0.65	0.71	1.06	0.69	0.86	1.01	1.95	0.31	0.63
53	North Umpqua	79.7	79.7	76.2	72.8	70.2	73.7	70.2	78.8	81.4	121	121	146	139	91.7	91.7
54	Oneida	7.46	7.00	6.11	5.25	5.42	5.25	5.25	5.81	5.92	7.46	7.46	7.22	7.46	7.22	6.30
55	Packwood Lake	7.80	20.7	3.87	3.03	1.63	4.65	2.65	3.24	5.36	9.72	9.72	24.1	44.9	24.8	11.9
56	Palisades	118	118	105	45.5	11.3	11.2	11.4	12.8	28.2	51.7	51.7	152	151	127	69.2
57	Paris	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
58	Reeder Gulch	0.40	0.15	0.15	0.10	0.11	0.08	0.12	0.13	0.18	0.18	0.21	0.21	0.23	0.23	0.17

Table A-8: Regional: Independent Hydro

Operating Year 2022 Water Year: 1937

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
59	Rogue	32.7	32.7	30.0	27.0	26.2	28.4	24.9	26.8	40.3	50.0	50.0	50.6	50.6	41.6	35.8
60	Roza	10.6	10.6	3.46	4.08	1.15	4.09	2.59	3.12	9.41	11.4	11.4	10.8	10.9	10.6	6.88
61	Shoshone Falls	6.45	6.45	6.70	6.07	5.29	5.21	4.91	5.49	5.10	6.53	6.53	5.98	6.05	6.35	5.84
62	Smith Creek (Idaho)	0	0	0.05	1.71	1.20	0.48	0.03	0.68	0.93	11.3	11.3	35.7	27.7	3.85	6.99
63	Snoqualmie Falls	23.6	21.7	21.9	19.2	12.5	37.7	17.9	26.1	39.9	41.9	45.8	46.1	46.1	36.4	30.9
64	Soda Creek 4	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
65	Soda Creek No 5	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
66	Soda Point	3.56	3.33	2.91	2.50	2.58	2.50	2.50	2.77	2.82	3.56	3.56	3.44	3.55	3.44	3.00
67	South Fork Tolt	9.01	9.01	6.45	5.48	5.51	5.56	5.59	5.63	5.62	5.65	5.65	6.63	7.93	9.40	6.55
68	Stone Creek	6.50	4.30	8.70	2.20	0.80	2.50	8.50	3.50	6.30	10.4	10.4	8.30	10.4	7.60	6.22
69	Strawberry Creek (WY)	1.35	1.35	1.12	0.96	0.86	0.78	0.70	0.68	0.63	0.80	0.80	1.37	1.58	1.51	1.03
70	Swan Falls	12.9	12.9	13.4	12.1	10.6	10.4	9.81	11.0	10.2	13.1	13.1	12.0	12.1	12.7	11.7
71	Swift Creek Hydro	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87
72	The Dalles North Fishway	4.93	4.93	4.95	5.01	5.02	3.43	3.20	3.11	4.73	4.82	4.82	4.71	4.67	4.85	4.46
73	Thousand Springs	7.93	7.93	7.35	6.36	6.31	6.25	6.15	6.13	6.00	5.65	5.65	5.43	5.36	6.36	6.28
74	Trail Bridge	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.60	3.80	3.80	3.80	3.80	2.50	3.80	3.68
75	TW Sullivan	12.5	11.1	12.5	11.1	10.7	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	14.1
76	Twin Falls (ID)	27.2	27.2	28.3	25.6	22.3	22.0	20.7	23.1	21.5	27.5	27.5	25.2	25.5	26.8	24.6
77	Upper Malad	7.48	7.48	6.93	6.00	5.95	5.89	5.80	5.78	5.65	5.33	5.33	5.13	5.05	6.00	5.92
78	Upper Salmon A	9.29	9.29	9.65	8.74	7.61	7.50	7.06	7.90	7.34	9.40	9.40	8.61	8.71	9.14	8.41
79	Upper Salmon B	8.51	8.51	8.85	8.01	6.98	6.88	6.48	7.24	6.73	8.62	8.62	7.89	7.98	8.38	7.71
80	Wallowa Falls	0.47	0.47	0.51	0.45	0.43	0.47	0.45	0.43	0.49	0.46	0.46	0.60	0.71	0.60	0.51
81	Walterville	4.00	3.10	2.90	0	0	5.00	3.10	8.70	9.50	9.50	9.50	9.50	9.50	7.70	5.72
82	Wynoochee Dam	1.17	1.17	2.06	3.62	6.40	7.46	7.98	5.67	3.93	0.84	0.84	0.01	0.01	1.49	3.38
83	Yelm	9.36	9.36	8.91	10.3	7.33	4.97	4.51	5.90	6.20	7.59	7.59	6.20	7.28	7.94	7.22
	Total Independent Hydro															
84	Cooperative	7.41	7.41	5.16	4.74	5.20	5.12	5.35	5.82	6.29	8.14	8.14	10.8	11.5	9.87	7.12
85	Federal Entities	361	358	332	308	255	158	123	132	237	425	435	712	654	391	342
86	Investor Owned Utilities	507	501	513	488	451	500	452	508	556	685	691	626	616	539	537
87	Municipality	65.8	65.7	68.7	69.3	69.4	94.7	96.5	105	109	107	109	138	162	102	99.0
88	Public Utility District	49.7	55.4	37.5	35.9	32.6	93.8	45.8	28.7	57.5	83.0	83.0	111	130	85.4	66.4
89	**Total Independent Hydro**	**991**	**988**	**957**	**906**	**813**	**851**	**722**	**779**	**966**	**1307**	**1327**	**1598**	**1574**	**1127**	**1051**

Table A-8: Regional: Independent Hydro

Operating Year 2023 Water Year: 1937

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Independent Hydro															
1	American Falls	47.7	47.7	49.5	44.9	39.1	38.5	36.3	40.5	37.7	48.3	48.3	44.2	44.7	46.9	43.2
2	Anderson Ranch	28.8	28.8	9.23	4.19	4.36	4.27	4.31	4.76	4.31	9.41	9.41	11.8	37.0	33.2	13.0
3	Arrowrock Hydro	13.0	12.0	3.80	2.40	2.30	2.30	2.30	2.30	2.30	2.40	2.40	13.0	12.0	12.0	5.83
4	Ashton	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50
5	Bend Power Dam	0.56	0.56	0.52	0.34	0.24	0.30	0.32	0.34	0.40	0.48	0.48	0.63	0.63	0.63	0.45
6	Big Cliff	6.00	6.00	9.00	8.00	13.0	6.00	4.00	6.00	7.00	9.00	11.0	20.0	20.0	7.00	9.66
7	Big Fork	2.92	2.92	2.28	1.61	2.23	2.44	2.40	2.41	2.74	3.22	3.22	3.42	3.45	3.39	2.71
8	Black Canyon	8.53	8.53	8.53	5.45	3.61	2.98	3.27	3.53	4.19	8.53	8.53	8.53	8.53	8.53	6.19
9	Bliss	38.7	38.7	40.2	36.4	31.7	31.3	29.4	32.9	30.6	39.2	39.2	35.9	36.3	38.1	35.1
10	Boise River Diversion	1.83	1.83	2.47	0.73	0	0	0	0	0	0.87	0.87	2.50	2.50	2.50	1.12
11	Calispel Creek	0.20	0.20	0.20	0.20	0.20	0.30	0.30	0.31	0.40	0.40	0.40	0.40	0.40	0.30	0.30
12	Carmen-Smith	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
13	Cascade	11.2	11.2	10.4	8.97	8.88	8.80	8.67	8.64	8.45	7.96	7.96	7.66	7.55	8.97	8.84
14	Cedar Falls	3.18	1.96	2.24	1.96	1.21	8.50	9.25	10.2	15.1	9.81	12.2	14.5	27.9	4.39	9.04
15	Chandler	2.21	2.21	2.00	5.70	7.34	3.38	5.51	7.47	9.80	6.06	6.06	5.97	5.80	6.09	5.60
16	CJ Strike	42.7	42.7	44.4	40.2	35.0	34.5	32.5	36.3	33.8	43.3	43.3	39.6	40.1	42.0	38.7
17	Clear Lake	2.25	2.25	2.09	1.81	1.79	1.77	1.75	1.74	1.70	1.60	1.60	1.54	1.52	1.81	1.78
18	Cougar	23.0	22.0	16.0	27.0	23.0	9.00	6.00	8.00	10.00	29.0	29.0	29.0	29.0	17.0	18.8
19	Cowlitz Falls	11.9	8.50	7.90	6.20	3.10	23.1	10.00	13.7	33.3	46.1	50.3	63.6	66.3	28.9	26.2
20	Detroit	11.7	11.5	20.2	44.9	47.5	20.9	21.7	17.7	25.3	34.6	37.2	102	37.9	13.0	33.3
21	Dexter	5.00	7.00	6.00	12.0	16.0	4.00	3.00	5.00	5.00	12.0	17.0	17.0	17.0	6.00	9.29
22	Eagle Point	0	0	0	0	0.39	0.70	0.68	0.91	0.56	0.69	0.69	0.47	0	0	0.36
23	Electron	11.2	10.2	10.3	9.05	5.90	17.8	8.47	12.3	18.9	19.8	21.7	21.7	21.8	17.2	14.6
24	Felt Hydro Project	3.60	3.60	3.77	3.53	3.64	3.05	2.51	2.73	3.40	3.38	3.38	5.12	6.46	4.81	3.84
25	Foster	6.00	6.00	12.0	10.00	7.00	9.00	4.00	9.00	21.0	19.0	18.0	21.0	23.0	6.00	12.2
26	Gem State Hydro	0	0	15.0	10.1	10.7	10.5	11.6	13.0	14.0	15.2	15.2	0	0	0	8.28
27	Grace	27.5	25.8	22.5	19.3	20.0	19.3	19.3	21.4	21.8	27.5	27.5	26.6	27.5	26.6	23.2
28	Green Peter	15.0	15.0	29.0	18.0	16.0	18.0	8.00	0	33.0	88.0	45.0	58.0	49.0	11.0	26.9
29	Green Springs	7.94	7.94	6.90	5.02	5.95	6.34	6.94	6.74	7.97	8.26	8.26	8.78	8.98	8.01	7.32
30	Hellroaring	0.21	0.21	0.19	0.17	0.17	0.14	0.15	0.22	0.32	0.38	0.38	0.26	0.22	0.19	0.22
31	Henry M Jackson	18.4	18.4	20.0	21.1	18.6	79.7	32.9	15.6	41.6	64.6	64.6	73.5	81.8	45.9	43.0
32	Hills Creek	9.00	9.00	23.0	23.0	27.0	5.00	4.00	6.00	7.00	20.0	31.0	35.0	35.0	14.0	17.8
33	Hood Street	0.10	0.10	0.30	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.32
34	Idaho Falls - City Plant	2.89	2.89	3.14	3.91	4.88	6.39	6.59	6.13	4.28	2.92	2.92	1.99	2.92	3.70	4.14
35	Idaho Falls - Lower Plant #1	2.89	2.89	3.14	3.91	4.88	6.39	6.59	6.13	4.28	2.92	2.92	1.99	2.92	3.70	4.14
36	Idaho Falls - Lower Plant #2	1.08	1.08	1.18	1.47	1.83	2.39	2.47	2.30	1.61	1.10	1.10	0.74	1.09	1.39	1.55
37	Idaho Falls - Upper Plant	2.89	2.89	3.14	3.91	4.88	6.39	6.59	6.13	4.28	2.92	2.92	1.99	2.92	3.70	4.14
38	Island Park	3.19	3.19	1.80	1.45	1.47	1.46	1.71	1.89	1.76	1.79	1.79	3.26	3.92	3.81	2.30
39	John Boyle	0	0	9.28	33.2	39.6	44.7	45.1	52.1	78.0	82.0	82.0	28.3	20.7	0	35.9
40	Lake Creek (MT)	2.00	2.00	1.38	1.46	2.00	2.02	2.08	2.39	3.03	4.68	4.68	5.30	5.08	3.68	2.93
41	Last Chance	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
42	Leaburg	5.70	4.10	3.60	0	0	7.10	4.00	11.7	11.7	11.7	11.7	11.7	13.0	10.2	7.43
43	Lookout Point	21.0	26.0	22.0	45.0	47.0	9.00	8.00	12.0	15.0	45.0	74.0	85.0	73.0	24.0	35.3
44	Lost Creek	44.0	39.0	23.0	37.0	19.0	19.0	18.0	13.0	14.0	15.0	16.0	56.0	56.0	46.0	30.0
45	Lower Malad	12.2	12.2	11.3	9.76	9.67	9.58	9.44	9.41	9.20	8.66	8.66	8.34	8.22	9.76	9.63
46	Lower Salmon Falls	31.0	31.0	32.2	29.1	25.4	25.0	23.5	26.3	24.5	31.3	31.3	28.7	29.0	30.5	28.0
47	McNary Fishway	9.01	9.01	6.45	5.48	5.51	5.56	5.59	5.63	5.62	5.65	5.65	6.63	7.93	9.40	6.55
48	Mill Creek (WA)	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
49	Milner Hydro	30.6	30.6	31.8	28.8	25.1	24.8	23.3	26.1	24.2	31.0	31.0	28.4	28.7	30.2	27.8
50	Minidoka	20.7	20.7	15.2	6.48	2.39	2.32	2.32	2.57	2.32	10.3	10.3	24.6	22.7	21.7	11.2
51	Moyie River	1.10	1.10	0.92	1.33	1.32	0.63	0.47	0.81	1.59	2.71	2.71	4.39	4.34	2.95	1.88
52	Newhalem	0.22	0.14	0.16	0.14	0.09	0.60	0.65	0.71	1.06	0.69	0.86	1.01	1.95	0.31	0.63
53	North Umpqua	79.7	79.7	76.2	72.8	70.2	73.7	70.2	78.8	81.4	121	121	146	139	91.7	91.7
54	Oneida	7.46	7.00	6.11	5.25	5.42	5.25	5.25	5.81	5.92	7.46	7.46	7.22	7.46	7.22	6.30
55	Packwood Lake	7.80	20.7	3.87	3.03	1.63	4.65	2.65	3.24	5.36	9.72	9.72	24.1	44.9	24.8	11.9
56	Palisades	118	118	105	45.5	11.3	11.2	11.4	12.8	28.2	51.7	51.7	152	151	127	69.2
57	Paris	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
58	Reeder Gulch	0.40	0.15	0.15	0.10	0.11	0.08	0.12	0.13	0.18	0.18	0.21	0.21	0.23	0.23	0.17

Table A-8: Regional: Independent Hydro

Operating Year 2023 Water Year: 1937

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
59	Rogue	32.7	32.7	30.0	27.0	26.2	28.4	24.9	26.8	40.3	50.0	50.0	50.6	50.6	41.6	35.8
60	Roza	10.6	10.6	3.46	4.08	1.15	4.09	2.59	3.12	9.41	11.4	11.4	10.8	10.9	10.6	6.88
61	Shoshone Falls	6.45	6.45	6.70	6.07	5.29	5.21	4.91	5.49	5.10	6.53	6.53	5.98	6.05	6.35	5.84
62	Smith Creek (Idaho)	0	0	0.05	1.71	1.20	0.48	0.03	0.68	0.93	11.3	11.3	35.7	27.7	3.85	6.99
63	Snoqualmie Falls	23.6	21.7	21.9	19.2	12.5	37.7	17.9	26.1	39.9	41.9	45.8	46.1	46.1	36.4	30.9
64	Soda Creek 4	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
65	Soda Creek No 5	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
66	Soda Point	3.56	3.33	2.91	2.50	2.58	2.50	2.50	2.77	2.82	3.56	3.56	3.44	3.55	3.44	3.00
67	South Fork Tolt	9.01	9.01	6.45	5.48	5.51	5.56	5.59	5.63	5.62	5.65	5.65	6.63	7.93	9.40	6.55
68	Stone Creek	6.50	4.30	8.70	2.20	0.80	2.50	8.50	3.50	6.30	10.4	10.4	8.30	10.4	7.60	6.22
69	Strawberry Creek (WY)	1.35	1.35	1.12	0.96	0.86	0.78	0.70	0.68	0.63	0.80	0.80	1.37	1.58	1.51	1.03
70	Swan Falls	12.9	12.9	13.4	12.1	10.6	10.4	9.81	11.0	10.2	13.1	13.1	12.0	12.1	12.7	11.7
71	Swift Creek Hydro	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87
72	The Dalles North Fishway	4.93	4.93	4.95	5.01	5.02	3.43	3.20	3.11	4.73	4.82	4.82	4.71	4.67	4.85	4.46
73	Thousand Springs	7.93	7.93	7.35	6.36	6.31	6.25	6.15	6.13	6.00	5.65	5.65	5.43	5.36	6.36	6.28
74	Trail Bridge	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.60	3.80	3.80	3.80	3.80	2.50	3.80	3.68
75	TW Sullivan	12.5	11.1	12.5	11.1	10.7	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	14.1
76	Twin Falls (ID)	27.2	27.2	28.3	25.6	22.3	22.0	20.7	23.1	21.5	27.5	27.5	25.2	25.5	26.8	24.6
77	Upper Malad	7.48	7.48	6.93	6.00	5.95	5.89	5.80	5.78	5.65	5.33	5.33	5.13	5.05	6.00	5.92
78	Upper Salmon A	9.29	9.29	9.65	8.74	7.61	7.50	7.06	7.90	7.34	9.40	9.40	8.61	8.71	9.14	8.41
79	Upper Salmon B	8.51	8.51	8.85	8.01	6.98	6.88	6.48	7.24	6.73	8.62	8.62	7.89	7.98	8.38	7.71
80	Wallowa Falls	0.47	0.47	0.51	0.45	0.43	0.47	0.45	0.43	0.49	0.46	0.46	0.60	0.71	0.60	0.51
81	Walterville	4.00	3.10	2.90	0	0	5.00	3.10	8.70	9.50	9.50	9.50	9.50	9.50	7.70	5.72
82	Wynoochee Dam	1.17	1.17	2.06	3.62	6.40	7.46	7.98	5.67	3.93	0.84	0.84	0.01	0.01	1.49	3.38
83	Yelm	9.36	9.36	8.91	10.3	7.33	4.97	4.51	5.90	6.20	7.59	7.59	6.20	7.28	7.94	7.22
	Total Independent Hydro															
84	Cooperative	7.41	7.41	5.16	4.74	5.20	5.12	5.35	5.82	6.29	8.14	8.14	10.8	11.5	9.87	7.12
85	Federal Entities	351	349	321	308	255	158	123	132	237	425	435	712	654	391	340
86	Investor Owned Utilities	507	501	513	488	451	500	452	508	556	685	691	626	616	539	537
87	Municipality	75.5	75.5	79.4	69.3	69.4	94.7	96.5	105	109	107	109	138	162	102	101
88	Public Utility District	49.7	55.4	37.5	35.9	32.6	93.8	45.8	28.7	57.5	83.0	83.0	111	130	85.4	66.4
89	**Total Independent Hydro**	**991**	**988**	**957**	**906**	**813**	**851**	**722**	**779**	**966**	**1307**	**1327**	**1598**	**1574**	**1127**	**1051**

THIS PAGE INTENTIONALLY LEFT BLANK

Exhibit 28
Table A-9: Regional Small Hydro

Annual Energy
Operating Year 2014 to 2023
Using 1937-Water Conditions

Table A-9: Regional: Small Hydro

Operating Year 2014 Water Year: 1937

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Small Hydro															
1	Albany-Millersburg Hydro Project	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
2	Amy Ranch	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33
3	Arena Drop	0.31	0.31	0.31	0	0	0	0	0	0	0.31	0.31	0.31	0.31	0.31	0.16
4	Barber Dam	2.38	2.38	1.93	0.84	0.31	0.97	2.16	2.64	3.28	3.22	3.22	3.14	3.24	3.28	2.28
5	Barney Creek	0.02	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.02	0.01	0.01	0.02
6	Beaverton	0	0	0	0.02	0.05	0.05	0.05	0.01	0	0.03	0.03	0.05	0	0	0.02
7	Bell Mountain	0.12	0.12	0.10	0.21	0.05	0.12	0.10	0.13	0.13	0.11	0.11	0.13	0.19	0.13	0.13
8	Big Elk Creek YMCA Camp	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	Big Sheep Creek	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60
10	Bigg's Creek (Pickering Micro)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	Billingsley Creek	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
12	Birch Creek Diversion Dam	0.04	0.04	0.05	0.05	0.06	0.06	0.04	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.05
13	Birch Creek (Gooding,ID)	1.25	1.25	1.11	1.00	1.14	1.10	0.31	1.19	1.73	1.63	1.63	1.60	1.34	1.19	1.21
14	Black Canyon #3	0.11	0.11	0.06	0.05	0.06	0	0	0	0.09	0.09	0.09	0.09	0.11	0.11	0.06
15	Black Creek	3.39	3.39	3.08	3.70	3.39	3.08	3.08	2.78	3.08	3.08	2.78	1.85	2.78	2.78	2.99
16	Blind Canyon	0.73	0.73	1.09	0.89	0.15	0	0	0	0	0.57	0.57	1.61	0.97	0.73	0.57
17	Boulder Creek	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
18	Box Canyon Springs	0.42	0.42	0.40	0.39	0.40	0.31	0.31	0.34	0.28	0.29	0.29	0.28	0.43	0.42	0.36
19	Briggs Creek	0.59	0.59	0.61	0.59	0.61	0.59	0.59	0.65	0.59	0.61	0.61	0.59	0.61	0.59	0.60
20	Briggs Project	0.20	0.20	0.12	0.21	0.21	0.22	0.13	0.20	0.22	0.13	0.13	0.20	0.19	0.12	0.18
21	Broadwater	1.11	1.13	1.55	1.91	2.06	1.64	1.58	1.74	1.80	2.76	2.70	3.22	2.74	1.99	2.01
22	Buffalo Hydro	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
23	Burr & Bouchard	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	Burton Creek	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
25	Bypass	8.26	8.26	6.54	2.82	0.99	0	0	0	0.06	2.94	2.94	7.01	8.16	8.68	3.81
26	Canyon Creek	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
27	Canyon Springs	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.10	0.09	0.09	0.09	0.09	0.09	0.09	0.09
28	Carlton	0	0	0	0	0.01	0.05	0.08	0.08	0.06	0.08	0.08	0.04	0.02	0	0.04
29	Cascade Creek	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
30	Cedar Draw Creek	0.30	0.30	0.92	0.89	0.92	1.16	1.16	1.28	0.42	0.43	0.43	0.42	0.31	0.30	0.71
31	Central Oregon Siphon	3.10	3.10	3.71	3.47	0.02	0.69	0	0.40	0.87	0.83	0.83	4.47	3.83	4.09	2.14
32	Cereghino	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55
33	Chester Hydroelectic Plant	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92
34	Clear Springs Trout	0.43	0.43	0.44	0.52	0.60	0.56	0.41	0.47	0.35	0.35	0.35	0.35	0.36	0.43	0.44
35	Company Creek	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
36	Cornelius	0	0	0	0	0	0.02	0.01	0.01	0.01	0	0	0	0	0	0
37	Cowiche	0.80	0.80	0.80	0.80	0	0	0	0	0	0	0.80	0.80	0.80	0.80	0.44
38	Crystal Springs	1.34	1.34	1.56	1.51	1.56	0.54	0.54	0.59	0.83	0.86	0.86	0.83	1.38	1.34	1.07
39	Curry Cattle Co.	0.21	0.21	0.22	0.14	0.08	0.05	0.04	0.04	0.07	0.09	0.09	0.18	0.20	0.18	0.12
40	Curtiss Livestock	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01
41	Cushman North Fork	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25
42	D. Wiggins	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43	Deep Creek	0.01	0.01	0.01	0	0	0	0	0	0	0.01	0.01	0.02	0.03	0.02	0.01
44	Denny Creek	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
45	Dietrich Drop	4.67	4.67	3.56	3.09	1.37	0	0	0	0	3.09	3.09	4.67	4.67	4.52	2.48
46	Donald Jenni	0.07	0.08	0.07	0.07	0.07	0.08	0.08	0.07	0.07	0.07	0.07	0.08	0.07	0.07	0.07
47	Dry Creek	0.94	0.94	1.00	0.80	0.43	0	0.33	0.27	0.37	0.41	0.41	0.90	2.66	2.09	0.85
48	Dworshak-Clearwater Hatchery	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63
49	Ebey Hill (Kevin Duncan)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50	Elk Creek	1.19	1.19	0.01	0.01	0.01	0.10	0.10	0.11	1.00	1.04	1.04	1.00	1.23	1.19	0.59
51	Eltopia Branch Canal 4.6	1.80	1.80	1.20	0.60	0	0	0	0	0	1.40	1.40	2.00	2.00	2.20	0.94
52	Esquatzel Small Hydro	0.90	0.90	0.80	0.80	0.60	0.60	0.60	0.60	0.60	0.70	0.70	0.70	0.80	0.90	0.72
53	Falls Creek (Or)	0	0	0	0	1.88	3.08	0.91	2.72	2.66	4.35	4.35	4.11	3.82	0	1.95
54	Falls Creek (Wa)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
55	Falls River Hydro	6.46	6.46	6.29	5.72	5.58	4.96	4.18	3.75	3.79	6.22	6.22	7.91	8.55	7.08	5.88
56	Farmers Irr Dist Proj No 2	0.35	0.35	0.45	0.77	2.02	2.00	1.34	2.88	2.04	2.19	2.19	2.96	0.52	0.45	1.49
57	Farmers Irr Dist Proj No 3	0.21	0.21	0.27	0.46	1.21	1.20	0.81	1.73	1.22	1.32	1.32	1.77	0.31	0.27	0.89
58	Faulkner Ranch	0.82	0.82	0.71	0.69	0.71	0.30	0.30	0.34	0.54	0.56	0.56	0.54	0.85	0.82	0.60

Table A-9: Regional: Small Hydro

Operating Year 2014 Water Year: 1937

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
59	Fisheries Development #1	0.24	0.24	0.26	0.22	0.27	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.24	0.23	0.25
60	Flying W	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61	Ford	0	0	0	0	0.30	0.50	0.90	0.90	1.10	1.10	1.10	0.70	0.30	0.10	0.49
62	Forgy	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
63	Galesville	0.63	0.63	0.38	0.18	0.17	0.26	0.01	0.25	0.35	0.43	0.43	0.33	0.35	0.54	0.32
64	Geo-Bon #2	0.97	0.97	0.35	0.34	0.35	0.24	0.24	0.26	0.59	0.61	0.61	0.59	1.00	0.97	0.54
65	Georgetown	0	0	0.24	0.30	0.32	0.31	0.28	0.27	0.25	0.28	0.28	0.34	0.22	0	0.23
66	Gillihan	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
67	Ground Water Pumping Station	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
68	Hailey	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
69	Hazelton A	7.04	7.04	5.43	2.49	0.91	0	0	0	0.08	2.56	2.56	6.01	6.73	7.45	3.24
70	Hazelton B	6.61	6.61	5.15	2.36	0.67	0	0	0	0.06	2.23	2.23	5.64	6.41	6.97	3.03
71	Hettinger	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
72	Horseshoe Bend	8.79	8.79	7.55	3.91	2.78	3.50	3.86	4.65	5.89	8.81	8.81	9.93	9.80	9.22	6.56
73	Hutchinson Creek	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
74	James Boyd	0	0	0	0	0	0.37	0.34	0.58	0.69	0.81	0.81	0.50	0	0	0.27
75	James White	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.20	0.20	0.30	0.20	0.20	0.14
76	Jim Knight	0.36	0.36	0.25	0.25	0.25	0.09	0.09	0.10	0.25	0.25	0.25	0.25	0.37	0.36	0.24
77	John Day Creek	0.20	0.20	0.20	0.20	0.20	0.20	0.30	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.21
78	Juniper Ridge Hydro	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37
79	Kasel-Withersppon	0.90	0.90	0.94	0.60	0.36	0.19	0.15	0.16	0.27	0.36	0.36	0.76	0.85	0.78	0.53
80	Kaster Riverview	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
81	Koma Kulshan	4.60	4.60	4.30	6.40	8.00	6.10	3.90	3.80	4.40	6.90	6.90	9.40	10.4	8.20	6.38
82	Koyle Ranch Power	1.05	1.05	1.14	0.99	1.04	0.16	0.15	0.06	0.32	0.82	0.82	1.25	0.78	0.94	0.73
83	L & M Angus Ranch	0.23	0.23	0.28	0.32	0.51	0.50	0.41	0.42	0.45	0.40	0.40	0.35	0.27	0.27	0.37
84	Lacomb	0	0	0	0	0.21	0.97	0.22	0.89	0.89	1.05	1.05	0.95	0.88	0.42	0.54
85	Lake Creek (OR)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
86	Lake Oswego	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
87	Lateral #10	1.21	1.21	1.25	1.60	1.65	1.21	1.21	1.34	1.41	1.45	1.45	1.41	1.25	1.21	1.35
88	Le Moyne	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
89	Lee Tavenner	0.06	0.06	0.08	0.08	0.07	0.10	0.13	0.10	0.08	0.09	0.08	0.08	0.07	0.05	0.08
90	Little Butte Ranch	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
91	Little Mac	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
92	Little Wood River Ranch	1.94	1.94	0.21	0.20	0.21	0	0	0	1.61	1.66	1.66	1.61	2.00	1.94	0.95
93	Little Wood River Reservoir	0.73	0.73	0.44	0.42	0.44	0.20	0.20	0.22	0.44	0.45	0.45	0.44	0.75	0.73	0.46
94	Low line Canal Drop	7.82	7.82	7.50	7.26	7.50	0.63	0.63	0.70	5.28	5.45	5.45	5.28	8.08	7.82	5.35
95	Low Line Midway	2.00	2.00	0	0	0	0	0	0	0	0	0	0	2.00	2.00	0.50
96	Lower Low line	2.69	2.69	2.48	1.80	1.45	0	0	0.68	1.88	2.48	2.48	2.69	2.69	2.69	1.80
97	Loyd F. Fery Farms	0.03	0.03	0.04	0.03	0.03	0.03	0.04	0.04	0.02	0.04	0.04	0.03	0.03	0.04	0.03
98	LQ-LS Drains (Pigeon Cove)	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88
99	Lucky Peak	28.6	26.8	19.9	4.50	0	0.70	0	1.50	1.60	11.4	11.4	67.7	75.2	73.0	23.7
100	Magic Dam	6.82	6.82	4.40	0.49	0.17	0.10	0.25	0.15	0.86	2.99	2.99	8.25	9.08	8.96	3.56
101	Main Canal Headworks	20.4	20.4	12.2	5.20	0	0	0	0	2.80	13.6	13.6	18.2	21.2	23.6	9.82
102	Marsh Valley	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44
103	Meyers Falls	0.77	0.77	0.69	0.46	0.69	0.69	0.46	0.61	0.84	0.84	0.84	0.77	0.92	0.84	0.72
104	Meyers Falls 1910	0.23	0.23	0.21	0.14	0.21	0.21	0.14	0.19	0.26	0.26	0.26	0.23	0.28	0.26	0.22
105	Middle Fork Irrigation District	1.84	1.84	0.77	1.24	1.31	1.66	2.72	3.09	3.08	2.93	2.93	2.84	2.42	1.98	2.15
106	Mile 28	1.32	1.32	1.23	0.69	0.18	0	0	0	0	0.62	0.62	1.20	1.29	1.36	0.66
107	Mill Creek (Cove Hydro)	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
108	Minikahda	0	0	0	0	0.04	0.05	0.05	0.08	0.05	0.07	0.07	0.07	0	0.01	0.03
109	Mink Creek	1.18	1.18	0.83	0.62	0.56	0.50	0.40	0.39	0.25	0.41	0.41	1.65	2.69	1.61	0.93
110	Mitchell Butte	1.05	1.05	1.07	0.42	0	0	0	0	0.28	0.83	0.83	1.24	1.25	1.09	0.60
111	Mora Drop	1.90	1.90	1.90	0	0	0	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.42
112	Morse Creek	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
113	Mt. Tabor	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
114	Mud Creek	0.50	0.50	0.65	0.66	0.74	0.60	0.47	0.53	0.50	0.50	0.50	0.49	0.44	0.50	0.55
115	N-32 Canal	1.12	1.12	1.15	1.12	1.15	0	0	0	1.12	1.15	1.15	1.12	1.15	1.12	0.85
116	Nichols Gap	0	0	0	0	0.42	0.62	0.19	0.55	0.58	0.40	0.40	0.02	0.01	0	0.23
117	Nicholson	0.22	0.22	0.16	0.21	0.19	0.20	0.14	0.21	0.19	0.16	0.16	0.19	0.23	0.22	0.19

Table A-9: Regional: Small Hydro

Operating Year 2014 Water Year: 1937

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
118	North Fork Sprague	0.03	0.03	0.07	0.01	0	0.05	0.15	0.26	0.16	0.27	0.27	0.92	0.45	0.15	0.21
119	North Willow Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
120	O. J. Power Company	0.01	0.01	0.07	0.03	0.05	0.05	0.06	0.07	0.08	0.07	0.07	0.08	0.11	0.10	0.06
121	Odell Creek	0.03	0.03	0.04	0.04	0.01	0.03	0.02	0.03	0.04	0.05	0.05	0.01	0	0.03	0.03
122	Opal Springs	2.63	2.63	2.95	3.62	3.16	2.94	2.94	3.51	2.60	2.71	2.71	4.47	1.62	2.23	2.95
123	Orchard Avenue	0.79	0.79	0.79	0.79	0	0	0	0	0	0	0.79	0.79	0.79	0.79	0.43
124	Owyhee Dam	2.78	2.78	1.99	0.59	0	0	0.24	0.64	1.76	3.35	3.35	3.88	3.33	3.16	1.82
125	Owyhee Tunnel No 1	4.27	4.27	2.56	0.54	0	0	0	0	2.35	5.10	5.10	5.83	5.85	5.93	2.72
126	Pancheri	0	0	0.01	0	0	0.01	0	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
127	PEC Headworks	4.50	4.50	3.10	2.20	0	0	0	0	0.40	5.10	5.10	6.50	6.20	5.80	2.83
128	Phillips Ranch	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
129	Phillipsburg	0.03	0.03	0.04	0.04	0.03	0.05	0.07	0.05	0.04	0.04	0.04	0.04	0.03	0.03	0.04
130	Pine Creek	0.08	0.09	0.08	0.08	0.08	0.09	0.09	0.08	0.08	0.08	0.08	0.09	0.08	0.08	0.08
131	Portland Hydro Project	2.34	2.34	2.92	6.66	16.2	19.9	18.4	17.2	16.4	17.4	17.4	15.1	8.42	3.16	12.0
132	Portneuf River	0.24	0.24	0.11	0.05	0.10	0.11	0	0	0	0	0	0.22	0.58	0.38	0.15
133	Potholes East Canal	1.80	1.80	1.80	1.60	0	0	0	0	0.60	1.80	1.80	1.80	1.80	1.80	1.09
134	Preston	0.31	0.31	0.38	0.37	0.38	0.37	0.36	0.35	0.35	0.37	0.37	0.38	0.37	0.38	0.36
135	Pristine Springs	0.28	0.28	0.41	0.43	0.31	0.33	0.28	0.25	0.27	0.35	0.35	0.37	0.32	0.28	0.32
136	Quincy Chute	7.70	7.70	4.00	2.30	0	0	0	0	0.80	5.50	5.50	7.10	8.40	8.50	3.71
137	Ravenscroft Ranch	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35
138	Reynolds Irrigation District	0.15	0.15	0.25	0.24	0.25	0.24	0.24	0.26	0.20	0.21	0.21	0.20	0.16	0.15	0.21
139	Rim View	0.17	0.17	0.25	0.26	0.19	0.20	0.17	0.15	0.16	0.22	0.22	0.23	0.20	0.17	0.20
140	Rock Creek #1	1.13	1.13	1.63	1.73	1.24	1.33	1.11	1.00	1.08	1.42	1.42	1.48	1.29	1.13	1.30
141	Rock Creek No 2	1.82	1.82	1.84	1.89	1.87	1.87	0.63	0.40	1.63	1.87	1.87	1.87	1.87	1.64	1.61
142	Rocky Brook	0	0	0	0.04	0.21	0.56	0.58	0.42	0.47	0.46	0.46	0.20	0.09	0	0.25
143	Russell D. Smith	4.00	4.00	2.60	1.40	0	0	0	0	0.20	2.40	2.40	3.80	4.20	3.40	1.84
144	Sagebrush	0.40	0.40	0.26	0.25	0.26	0.08	0.08	0.09	0.26	0.26	0.26	0.26	0.41	0.40	0.25
145	Sahko	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
146	Schaffner	0.36	0.36	0.26	0.25	0.26	0.14	0.14	0.16	0.29	0.30	0.30	0.29	0.37	0.36	0.26
147	Shingle Creek	0.11	0.11	0.16	0.17	0.12	0.13	0.11	0.10	0.10	0.14	0.14	0.14	0.12	0.11	0.12
148	Shoshone	0.90	0.90	0.92	0.29	0.31	0.05	0.04	0.02	0.10	0.54	0.54	0.84	0.82	0.86	0.47
149	Skookumchuck	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
150	Smith Creek (Washington)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
151	Snake River Pottery	0.03	0.03	0.04	0.04	0.04	0.06	0.06	0.07	0.04	0.04	0.04	0.04	0.03	0.03	0.04
152	Snedigar Ranch	0.15	0.15	0.22	0.21	0.22	0.15	0.15	0.17	0.11	0.12	0.12	0.11	0.16	0.15	0.16
153	South Dry Creek	0.52	0.53	0.49	0.50	0	0	0	0	0.50	0.50	0.49	0.58	0.49	0.47	0.34
154	Spencer Lake Hydro	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
155	Spring Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
156	Stayton Hydro	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
157	Stevenson #1	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
158	Stevenson #2	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
159	Strawberry Creek (MT)	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.06	0.06	0.06	0.06	0.07	0.06	0.06	0.06
160	Summer Falls	78.8	78.8	48.4	21.6	0	0	0	0	4.80	50.0	50.0	71.4	81.0	87.4	37.2
161	Sunshine	0.10	0.10	0.06	0.06	0.06	0.04	0.04	0.05	0.07	0.07	0.07	0.07	0.10	0.10	0.07
162	Sygitowicz Creek	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
163	Thompson's Mills	0.01	0.01	0.01	0.03	0.05	0.06	0.05	0.06	0.06	0.07	0.07	0.05	0.07	0.03	0.05
164	Tiber Dam	7.04	7.04	5.43	2.49	0.91	0	0	0	0.08	2.56	2.56	6.01	6.73	7.45	3.24
165	Tieton Dam (Yakima)	7.81	7.81	7.81	7.81	0	0	0	0	0	0	7.81	7.81	7.81	7.81	4.26
166	Trinity	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
167	Twin Falls (WA)	5.00	5.00	0	1.20	9.60	7.90	7.40	4.80	7.80	14.8	14.8	13.2	24.3	18.7	9.57
168	Upper Pine Creek	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
169	Upriver Dam	3.40	3.40	3.40	4.70	6.70	13.4	14.4	13.0	13.8	12.9	12.9	11.2	11.6	8.40	9.73
170	Walla Walla	1.54	1.54	1.44	1.28	1.17	1.29	1.17	1.53	1.75	1.77	1.77	1.48	1.54	1.76	1.48
171	Water Street	0.02	0.02	0.09	0.14	0.16	0.15	0.10	0.12	0.12	0.16	0.16	0.14	0.14	0.07	0.12
172	Weeks Falls	0.80	0.80	0	0.20	1.70	1.80	1.20	0.60	1.20	2.60	2.60	2.40	4.40	3.50	1.70
173	White Ranch	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
174	White Water Ranch	0.07	0.07	0.08	0.08	0.08	0.10	0.10	0.11	0.08	0.08	0.08	0.08	0.07	0.07	0.08
175	Whitefish	0.12	0.12	0.20	0.12	0.11	0.11	0.11	0.11	0.11	0.12	0.12	0.11	0.11	0.20	0.13
176	Wilson Lake	7.07	7.07	5.27	2.00	0.25	0	0	0	0.03	2.32	2.32	6.05	6.83	7.63	3.14

Table A-9: Regional: Small Hydro

Operating Year 2014 Water Year: 1937

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
177	Wisconsin Noble	0.04	0.04	0.05	0.05	0.04	0.06	0.08	0.06	0.05	0.05	0.05	0.05	0.04	0.03	0.05
178	Wolf Creek	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
179	Woods Creek	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
180	Yakama Drop 2	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
181	Yakama Drop 3	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
182	Youngs Creek	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
183	Zena Creek Ranch	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
	Total Small Hydro															
184	Cooperative	3.80	3.80	3.78	3.53	3.43	3.54	3.42	3.78	4.01	4.03	4.03	3.73	3.80	4.10	3.75
185	Federal Entities	2.83	2.83	2.83	2.87	3.04	3.39	3.41	3.25	3.30	3.29	3.29	3.03	2.92	2.83	3.08
186	Investor Owned Utilities	164	164	138	114	120	111	104	108	130	177	178	214	227	201	151
187	Marketer	7.81	7.81	7.81	7.81	0	0	0	0	0	0	7.81	7.81	7.81	7.81	4.26
188	Municipality	138	136	88.6	37.4	2.48	3.18	2.48	3.98	12.5	83.1	83.1	167	188	194	77.1
189	Public Utility District	17.9	17.9	12.7	10.1	5.38	5.38	5.38	5.38	6.58	16.1	16.1	19.1	20.2	20.0	12.0
190	**Total Small Hydro**	**334**	**333**	**254**	**176**	**135**	**127**	**118**	**124**	**157**	**283**	**292**	**415**	**449**	**430**	**251**

Table A-9: Regional: Small Hydro

Operating Year 2015 Water Year: 1937

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Small Hydro															
1	Albany-Millersburg Hydro Project	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
2	Amy Ranch	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33
3	Arena Drop	0.31	0.31	0.31	0	0	0	0	0	0	0.31	0.31	0.31	0.31	0.31	0.16
4	Barber Dam	2.38	2.38	1.93	0.84	0.31	0.97	2.16	2.64	3.28	3.22	3.22	3.14	3.24	3.28	2.28
5	Barney Creek	0.02	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.02	0.01	0.01	0.02
6	Beaverton	0	0	0	0.02	0.05	0.05	0.05	0.01	0	0.03	0.03	0.05	0	0	0.02
7	Bell Mountain	0.12	0.12	0.10	0.21	0.05	0.12	0.10	0.13	0.13	0.11	0.11	0.13	0.19	0.13	0.13
8	Big Elk Creek YMCA Camp	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	Big Sheep Creek	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60
10	Bigg's Creek (Pickering Micro)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	Billingsley Creek	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
12	Birch Creek Diversion Dam	0.04	0.04	0.05	0.05	0.06	0.06	0.04	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.05
13	Birch Creek (Gooding,ID)	1.25	1.25	1.11	1.00	1.14	1.10	0.31	1.19	1.73	1.63	1.63	1.60	1.34	1.19	1.21
14	Black Canyon #3	0.11	0.11	0.06	0.05	0.06	0	0	0	0.09	0.09	0.09	0.09	0.11	0.11	0.06
15	Black Creek	1.85	2.47	3.39	3.39	3.39	3.08	3.70	3.39	3.08	3.08	2.78	3.08	3.08	2.78	3.12
16	Blind Canyon	0.73	0.73	1.09	0.89	0.15	0	0	0	0	0.57	0.57	1.61	0.97	0.73	0.57
17	Boulder Creek	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
18	Box Canyon Springs	0.42	0.42	0.40	0.39	0.40	0.31	0.31	0.34	0.28	0.29	0.29	0.28	0.43	0.42	0.36
19	Briggs Creek	0.59	0.59	0.61	0.59	0.61	0.59	0.59	0.65	0.59	0.61	0.61	0.59	0.61	0.59	0.60
20	Briggs Project	0.20	0.20	0.12	0.21	0.21	0.22	0.13	0.20	0.22	0.13	0.13	0.20	0.19	0.12	0.18
21	Broadwater	1.11	1.13	1.55	1.91	2.06	1.64	1.58	1.74	1.80	2.76	2.70	3.22	2.74	1.99	2.01
22	Buffalo Hydro	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
23	Burr & Bouchard	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	Burton Creek	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
25	Bypass	8.26	8.26	6.54	2.82	0.99	0	0	0	0.06	2.94	2.94	7.01	8.16	8.68	3.81
26	Canyon Creek	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
27	Canyon Springs	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.10	0.09	0.09	0.09	0.09	0.09	0.09	0.09
28	Carlton	0	0	0	0	0.01	0.05	0.08	0.08	0.06	0.08	0.08	0.04	0.02	0	0.04
29	Cascade Creek	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
30	Cedar Draw Creek	0.30	0.30	0.92	0.89	0.92	1.16	1.16	1.28	0.42	0.43	0.43	0.42	0.31	0.30	0.71
31	Central Oregon Siphon	3.10	3.10	3.71	3.47	0.02	0.69	0	0.40	0.87	0.83	0.83	4.47	3.83	4.09	2.14
32	Cereghino	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55
33	Chester Hydroelectic Plant	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92
34	Clear Springs Trout	0.43	0.43	0.44	0.52	0.60	0.56	0.41	0.47	0.35	0.35	0.35	0.35	0.36	0.43	0.44
35	Company Creek	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
36	Cornelius	0	0	0	0	0	0.02	0.01	0.01	0.01	0	0	0	0	0	0
37	Cowiche	0.80	0.80	0.80	0.80	0	0	0	0	0	0	0.80	0.80	0.80	0.80	0.44
38	Crystal Springs	1.34	1.34	1.56	1.51	1.56	0.54	0.54	0.59	0.83	0.86	0.86	0.83	1.38	1.34	1.07
39	Curry Cattle Co.	0.21	0.21	0.22	0.14	0.08	0.05	0.04	0.04	0.07	0.09	0.09	0.18	0.20	0.18	0.12
40	Curtiss Livestock	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01
41	Cushman North Fork	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25
42	D. Wiggins	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43	Deep Creek	0.01	0.01	0.01	0	0	0	0	0	0	0.01	0.01	0.02	0.03	0.02	0.01
44	Denny Creek	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
45	Dietrich Drop	4.67	4.67	3.56	3.09	1.37	0	0	0	0	3.09	3.09	4.67	4.67	4.52	2.48
46	Donald Jenni	0.07	0.08	0.07	0.07	0.07	0.08	0.08	0.07	0.07	0.07	0.07	0.08	0.07	0.07	0.07
47	Dry Creek	0.94	0.94	1.00	0.80	0.43	0	0.33	0.27	0.37	0.41	0.41	0.90	2.66	2.09	0.85
48	Dworshak-Clearwater Hatchery	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63
49	Ebey Hill (Kevin Duncan)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50	Elk Creek	1.19	1.19	0.01	0.01	0.01	0.10	0.10	0.11	1.00	1.04	1.04	1.00	1.23	1.19	0.59
51	Eltopia Branch Canal 4.6	1.80	1.80	1.20	0.60	0	0	0	0	0	1.40	1.40	2.00	2.00	2.20	0.94
52	Esquatzel Small Hydro	0.90	0.90	0.80	0.80	0.60	0.60	0.60	0.60	0.60	0.70	0.70	0.70	0.80	0.90	0.72
53	Falls Creek (Or)	0	0	0	0	1.88	3.08	0.91	2.72	2.66	4.35	4.35	4.11	3.82	0	1.95
54	Falls Creek (Wa)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
55	Falls River Hydro	6.46	6.46	6.29	5.72	5.58	4.96	4.18	3.75	3.79	6.22	6.22	7.91	8.55	7.08	5.88
56	Farmers Irr Dist Proj No 2	0.35	0.35	0.45	0.77	2.02	2.00	1.34	2.88	2.04	2.19	2.19	2.96	0.52	0.45	1.49
57	Farmers Irr Dist Proj No 3	0.21	0.21	0.27	0.46	1.21	1.20	0.81	1.73	1.22	1.32	1.32	1.77	0.31	0.27	0.89
58	Faulkner Ranch	0.82	0.82	0.71	0.69	0.71	0.30	0.30	0.34	0.54	0.56	0.56	0.54	0.85	0.82	0.60

Table A-9: Regional: Small Hydro

Operating Year 2015 Water Year: 1937

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
59	Fisheries Development #1	0.24	0.24	0.26	0.22	0.27	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.24	0.23	0.25
60	Flying W	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61	Ford	0	0	0	0	0.30	0.50	0.90	0.90	1.10	1.10	1.10	0.70	0.30	0.10	0.49
62	Forgy	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
63	Galesville	0.63	0.63	0.38	0.18	0.17	0.26	0.01	0.25	0.35	0.43	0.43	0.33	0.35	0.54	0.32
64	Geo-Bon #2	0.97	0.97	0.35	0.34	0.35	0.24	0.24	0.26	0.59	0.61	0.61	0.59	1.00	0.97	0.54
65	Georgetown	0	0	0.24	0.30	0.32	0.31	0.28	0.27	0.25	0.28	0.28	0.34	0.22	0	0.23
66	Gillihan	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
67	Ground Water Pumping Station	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
68	Hailey	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
69	Hazelton A	7.04	7.04	5.43	2.49	0.91	0	0	0	0.08	2.56	2.56	6.01	6.73	7.45	3.24
70	Hazelton B	6.61	6.61	5.15	2.36	0.67	0	0	0	0.06	2.23	2.23	5.64	6.41	6.97	3.03
71	Hettinger	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
72	Horseshoe Bend	8.79	8.79	7.55	3.91	2.78	3.50	3.86	4.65	5.89	8.81	8.81	9.93	9.80	9.22	6.56
73	Hutchinson Creek	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
74	James Boyd	0	0	0	0	0	0.37	0.34	0.58	0.69	0.81	0.81	0.50	0	0	0.27
75	James White	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.20	0.20	0.30	0.20	0.20	0.14
76	Jim Knight	0.36	0.36	0.25	0.25	0.25	0.09	0.09	0.10	0.25	0.25	0.25	0.25	0.37	0.36	0.24
77	John Day Creek	0.20	0.20	0.20	0.20	0.20	0.20	0.30	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.21
78	Juniper Ridge Hydro	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37
79	Kasel-Withersppon	0.90	0.90	0.94	0.60	0.36	0.19	0.15	0.16	0.27	0.36	0.36	0.76	0.85	0.78	0.53
80	Kaster Riverview	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
81	Koma Kulshan	4.60	4.60	4.30	6.40	8.00	6.10	3.90	3.80	4.40	6.90	6.90	9.40	10.4	8.20	6.38
82	Koyle Ranch Power	1.05	1.05	1.14	0.99	1.04	0.16	0.15	0.06	0.32	0.82	0.82	1.25	0.78	0.94	0.73
83	L & M Angus Ranch	0.23	0.23	0.28	0.32	0.51	0.50	0.41	0.42	0.45	0.40	0.40	0.35	0.27	0.27	0.37
84	Lacomb	0	0	0	0	0.21	0.97	0.22	0.89	0.89	1.05	1.05	0.95	0.88	0.42	0.54
85	Lake Creek (OR)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
86	Lake Oswego	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
87	Lateral #10	1.21	1.21	1.25	1.60	1.65	1.21	1.21	1.34	1.41	1.45	1.45	1.41	1.25	1.21	1.35
88	Le Moyne	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
89	Lee Tavenner	0.06	0.06	0.08	0.08	0.07	0.10	0.13	0.10	0.08	0.09	0.08	0.08	0.07	0.05	0.08
90	Little Butte Ranch	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
91	Little Mac	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
92	Little Wood River Ranch	1.94	1.94	0.21	0.20	0.21	0	0	0	1.61	1.66	1.66	1.61	2.00	1.94	0.95
93	Little Wood River Reservoir	0.73	0.73	0.44	0.42	0.44	0.20	0.20	0.22	0.44	0.45	0.45	0.44	0.75	0.73	0.46
94	Low line Canal Drop	7.82	7.82	7.50	7.26	7.50	0.63	0.63	0.70	5.28	5.45	5.45	5.28	8.08	7.82	5.35
95	Low Line Midway	2.00	2.00	0	0	0	0	0	0	0	0	0	0	2.00	2.00	0.50
96	Lower Low line	2.69	2.69	2.48	1.80	1.45	0	0	0.68	1.88	2.48	2.48	2.69	2.69	2.69	1.80
97	Loyd F. Fery Farms	0.03	0.03	0.04	0.03	0.03	0.03	0.04	0.04	0.02	0.04	0.04	0.03	0.03	0.04	0.03
98	LQ-LS Drains (Pigeon Cove)	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88
99	Lucky Peak	28.6	26.8	19.9	4.50	0	0.70	0	1.50	1.60	11.4	11.4	67.7	75.2	73.0	23.7
100	Magic Dam	6.82	6.82	4.40	0.49	0.17	0.10	0.25	0.15	0.86	2.99	2.99	8.25	9.08	8.96	3.56
101	Main Canal Headworks	20.4	20.4	12.2	5.20	0	0	0	0	2.80	13.6	13.6	18.2	21.2	23.6	9.82
102	Marsh Valley	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44
103	Meyers Falls	0.77	0.77	0.69	0.46	0.69	0.69	0.46	0.61	0.84	0.84	0.84	0.77	0.92	0.84	0.72
104	Meyers Falls 1910	0.23	0.23	0.21	0.14	0.21	0.21	0.14	0.19	0.26	0.26	0.26	0.23	0.28	0.26	0.22
105	Middle Fork Irrigation District	1.84	1.84	0.77	1.24	1.31	1.66	2.72	3.09	3.08	2.93	2.93	2.84	2.42	1.98	2.15
106	Mile 28	1.32	1.32	1.23	0.69	0.18	0	0	0	0	0.62	0.62	1.20	1.29	1.36	0.66
107	Mill Creek (Cove Hydro)	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
108	Minikahda	0	0	0	0	0.04	0.05	0.05	0.08	0.05	0.07	0.07	0.07	0	0.01	0.03
109	Mink Creek	1.18	1.18	0.83	0.62	0.56	0.50	0.40	0.39	0.25	0.41	0.41	1.65	2.69	1.61	0.93
110	Mitchell Butte	1.05	1.05	1.07	0.42	0	0	0	0	0.28	0.83	0.83	1.24	1.25	1.09	0.60
111	Mora Drop	1.90	1.90	1.90	0	0	0	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.42
112	Morse Creek	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
113	Mt. Tabor	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
114	Mud Creek	0.50	0.50	0.65	0.66	0.74	0.60	0.47	0.53	0.50	0.50	0.50	0.49	0.44	0.50	0.55
115	N-32 Canal	1.12	1.12	1.15	1.12	1.15	0	0	0	1.12	1.15	1.15	1.12	1.15	1.12	0.85
116	Nichols Gap	0	0	0	0	0.42	0.62	0.19	0.55	0.58	0.40	0.40	0.02	0.01	0	0.23
117	Nicholson	0.22	0.22	0.16	0.21	0.19	0.20	0.14	0.21	0.19	0.16	0.16	0.19	0.23	0.22	0.19

Table A-9: Regional: Small Hydro

Operating Year 2015 Water Year: 1937

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
118	North Fork Sprague	0.03	0.03	0.07	0.01	0	0.05	0.15	0.26	0.16	0.27	0.27	0.92	0.45	0.15	0.21
119	North Willow Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
120	O. J. Power Company	0.01	0.01	0.07	0.03	0.05	0.05	0.06	0.07	0.08	0.07	0.07	0.08	0.11	0.10	0.06
121	Odell Creek	0.03	0.03	0.04	0.04	0.01	0.03	0.02	0.03	0.04	0.05	0.05	0.01	0	0.03	0.03
122	Opal Springs	2.63	2.63	2.95	3.62	3.16	2.94	2.94	3.51	2.60	2.71	2.71	4.47	1.62	2.23	2.95
123	Orchard Avenue	0.79	0.79	0.79	0.79	0	0	0	0	0	0	0.79	0.79	0.79	0.79	0.43
124	Owyhee Dam	2.78	2.78	1.99	0.59	0	0	0.24	0.64	1.76	3.35	3.35	3.88	3.33	3.16	1.82
125	Owyhee Tunnel No 1	4.27	4.27	2.56	0.54	0	0	0	0	2.35	5.10	5.10	5.83	5.85	5.93	2.72
126	Pancheri	0	0	0.01	0	0	0.01	0	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
127	PEC Headworks	4.50	4.50	3.10	2.20	0	0	0	0	0.40	5.10	5.10	6.50	6.20	5.80	2.83
128	Phillips Ranch	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
129	Phillipsburg	0.03	0.03	0.04	0.04	0.03	0.05	0.07	0.05	0.04	0.04	0.04	0.04	0.03	0.03	0.04
130	Pine Creek	0.08	0.09	0.08	0.08	0.08	0.09	0.09	0.08	0.08	0.08	0.08	0.09	0.08	0.08	0.08
131	Portland Hydro Project	2.34	2.34	2.92	6.66	16.2	19.9	18.4	17.2	16.4	17.4	17.4	15.1	8.42	3.16	12.0
132	Portneuf River	0.24	0.24	0.11	0.05	0.10	0.11	0	0	0	0	0	0.22	0.58	0.38	0.15
133	Potholes East Canal	1.80	1.80	1.80	1.60	0	0	0	0	0.60	1.80	1.80	1.80	1.80	1.80	1.09
134	Preston	0.31	0.31	0.38	0.37	0.38	0.37	0.36	0.35	0.35	0.37	0.37	0.38	0.37	0.38	0.36
135	Pristine Springs	0.28	0.28	0.41	0.43	0.31	0.33	0.28	0.25	0.27	0.35	0.35	0.37	0.32	0.28	0.32
136	Quincy Chute	7.70	7.70	4.00	2.30	0	0	0	0	0.80	5.50	5.50	7.10	8.40	8.50	3.71
137	Ravenscroft Ranch	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35
138	Reynolds Irrigation District	0.15	0.15	0.25	0.24	0.25	0.24	0.24	0.26	0.20	0.21	0.21	0.20	0.16	0.15	0.21
139	Rim View	0.17	0.17	0.25	0.26	0.19	0.20	0.17	0.15	0.16	0.22	0.22	0.23	0.20	0.17	0.20
140	Rock Creek #1	1.13	1.13	1.63	1.73	1.24	1.33	1.11	1.00	1.08	1.42	1.42	1.48	1.29	1.13	1.30
141	Rock Creek No 2	1.82	1.82	1.84	1.89	1.87	1.87	0.63	0.40	1.63	1.87	1.87	1.87	1.87	1.64	1.61
142	Rocky Brook	0	0	0	0.04	0.21	0.56	0.58	0.42	0.47	0.46	0.46	0.20	0.09	0	0.25
143	Russell D. Smith	4.00	4.00	2.60	1.40	0	0	0	0	0.20	2.40	2.40	3.80	4.20	3.40	1.84
144	Sagebrush	0.40	0.40	0.26	0.25	0.26	0.08	0.08	0.09	0.26	0.26	0.26	0.26	0.41	0.40	0.25
145	Sahko	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
146	Schaffner	0.36	0.36	0.26	0.25	0.26	0.14	0.14	0.16	0.29	0.30	0.30	0.29	0.37	0.36	0.26
147	Shingle Creek	0.11	0.11	0.16	0.17	0.12	0.13	0.11	0.10	0.10	0.14	0.14	0.14	0.12	0.11	0.12
148	Shoshone	0.90	0.90	0.92	0.29	0.31	0.05	0.04	0.02	0.10	0.54	0.54	0.84	0.82	0.86	0.47
149	Skookumchuck	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
150	Smith Creek (Washington)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
151	Snake River Pottery	0.03	0.03	0.04	0.04	0.04	0.06	0.06	0.07	0.04	0.04	0.04	0.04	0.03	0.03	0.04
152	Snedigar Ranch	0.15	0.15	0.22	0.21	0.22	0.15	0.15	0.17	0.11	0.12	0.12	0.11	0.16	0.15	0.16
153	South Dry Creek	0.52	0.53	0.49	0.50	0	0	0	0	0.50	0.50	0.49	0.58	0.49	0.47	0.34
154	Spencer Lake Hydro	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
155	Spring Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
156	Stayton Hydro	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
157	Stevenson #1	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
158	Stevenson #2	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
159	Strawberry Creek (MT)	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.06	0.06	0.06	0.06	0.07	0.06	0.06	0.06
160	Summer Falls	78.8	78.8	48.4	21.6	0	0	0	0	4.80	50.0	50.0	71.4	81.0	87.4	37.2
161	Sunshine	0.10	0.10	0.06	0.06	0.06	0.04	0.04	0.05	0.07	0.07	0.07	0.07	0.10	0.10	0.07
162	Sygitowicz Creek	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
163	Thompson's Mills	0.01	0.01	0.01	0.03	0.05	0.06	0.05	0.06	0.06	0.07	0.07	0.05	0.07	0.03	0.05
164	Tiber Dam	7.04	7.04	5.43	2.49	0.91	0	0	0	0.08	2.56	2.56	6.01	6.73	7.45	3.24
165	Tieton Dam (Yakima)	7.81	7.81	7.81	7.81	0	0	0	0	0	0	7.81	7.81	7.81	7.81	4.26
166	Trinity	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
167	Twin Falls (WA)	5.00	5.00	0	1.20	9.60	7.90	7.40	4.80	7.80	14.8	14.8	13.2	24.3	18.7	9.57
168	Upper Pine Creek	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
169	Upriver Dam	3.40	3.40	3.40	4.70	6.70	13.4	14.4	13.0	13.8	12.9	12.9	11.2	11.6	8.40	9.73
170	Walla Walla	1.54	1.54	1.44	1.28	1.17	1.29	1.17	1.53	1.75	1.77	1.77	1.48	1.54	1.76	1.48
171	Water Street	0.02	0.02	0.09	0.14	0.16	0.15	0.10	0.12	0.12	0.16	0.16	0.14	0.14	0.07	0.12
172	Weeks Falls	0.80	0.80	0	0.20	1.70	1.80	1.20	0.60	1.20	2.60	2.60	2.40	4.40	3.50	1.70
173	White Ranch	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
174	White Water Ranch	0.07	0.07	0.08	0.08	0.08	0.10	0.10	0.11	0.08	0.08	0.08	0.08	0.07	0.07	0.08
175	Whitefish	0.12	0.11	0.20	0.12	0.11	0.11	0.11	0.11	0.11	0.12	0.12	0.11	0.12	0.20	0.13
176	Wilson Lake	7.07	7.07	5.27	2.00	0.25	0	0	0	0.03	2.32	2.32	6.05	6.83	7.63	3.14

Table A-9: Regional: Small Hydro

Operating Year 2015 Water Year: 1937

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
177	Wisconsin Noble	0.04	0.04	0.05	0.05	0.04	0.06	0.08	0.06	0.05	0.05	0.05	0.05	0.04	0.03	0.05
178	Wolf Creek	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
179	Woods Creek	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
180	Yakama Drop 2	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
181	Yakama Drop 3	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
182	Youngs Creek	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
183	Zena Creek Ranch	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
	Total Small Hydro															
184	Cooperative	3.80	3.79	3.78	3.53	3.42	3.55	3.42	3.78	4.01	4.03	4.03	3.73	3.80	4.10	3.75
185	Federal Entities	2.83	2.83	2.83	2.87	3.04	3.39	3.41	3.25	3.30	3.29	3.29	3.03	2.92	2.83	3.08
186	Investor Owned Utilities	163	163	138	114	120	111	104	109	130	177	178	215	227	201	151
187	Marketer	7.81	7.81	7.81	7.81	0	0	0	0	0	0	7.81	7.81	7.81	7.81	4.26
188	Municipality	138	136	88.6	37.4	2.48	3.18	2.48	3.98	12.5	83.1	83.1	167	188	194	77.1
189	Public Utility District	17.9	17.9	12.7	10.1	5.38	5.38	5.38	5.38	6.58	16.1	16.1	19.1	20.2	20.0	12.0
190	**Total Small Hydro**	**333**	**332**	**254**	**175**	**135**	**127**	**119**	**125**	**157**	**283**	**292**	**416**	**449**	**430**	**251**

Table A-9: Regional: Small Hydro

Operating Year 2016 Water Year: 1937

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Small Hydro															
1	Albany-Millersburg Hydro Project	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
2	Amy Ranch	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33
3	Arena Drop	0.31	0.31	0.31	0	0	0	0	0	0	0.31	0.31	0.31	0.31	0.31	0.16
4	Barber Dam	2.38	2.38	1.93	0.84	0.31	0.97	2.16	2.64	3.28	3.22	3.22	3.14	3.24	3.28	2.28
5	Barney Creek	0.02	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.02	0.01	0.01	0.02
6	Beaverton	0	0	0	0.02	0.05	0.05	0.05	0.01	0	0.03	0.03	0.05	0	0	0.02
7	Bell Mountain	0.12	0.12	0.10	0.21	0.05	0.12	0.10	0.13	0.13	0.11	0.11	0.13	0.19	0.13	0.13
8	Big Elk Creek YMCA Camp	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	Big Sheep Creek	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60
10	Bigg's Creek (Pickering Micro)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	Billingsley Creek	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
12	Birch Creek Diversion Dam	0.04	0.04	0.05	0.05	0.06	0.06	0.04	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.05
13	Birch Creek (Gooding,ID)	1.25	1.25	1.11	1.00	1.14	1.10	0.31	1.19	1.73	1.63	1.63	1.60	1.34	1.19	1.21
14	Black Canyon #3	0.11	0.11	0.06	0.05	0.06	0	0	0	0.09	0.09	0.09	0.09	0.11	0.11	0.06
15	Black Creek	1.85	2.78	2.78	1.85	2.47	3.39	3.39	3.39	3.08	3.70	3.39	3.08	3.08	2.78	2.93
16	Blind Canyon	0.73	0.73	1.09	0.89	0.15	0	0	0	0	0.57	0.57	1.61	0.97	0.73	0.56
17	Boulder Creek	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
18	Box Canyon Springs	0.42	0.42	0.40	0.39	0.40	0.31	0.31	0.34	0.28	0.29	0.29	0.28	0.43	0.42	0.36
19	Briggs Creek	0.59	0.59	0.61	0.59	0.61	0.59	0.59	0.65	0.59	0.61	0.61	0.59	0.61	0.59	0.60
20	Briggs Project	0.20	0.20	0.12	0.21	0.21	0.22	0.13	0.20	0.22	0.13	0.13	0.20	0.19	0.12	0.18
21	Broadwater	1.11	1.13	1.55	1.91	2.06	1.64	1.58	1.74	1.80	2.76	2.70	3.22	2.74	1.99	2.01
22	Buffalo Hydro	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
23	Burr & Bouchard	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	Burton Creek	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
25	Bypass	8.26	8.26	6.54	2.82	0.99	0	0	0	0.06	2.94	2.94	7.01	8.16	8.68	3.80
26	Canyon Creek	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
27	Canyon Springs	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.10	0.09	0.09	0.09	0.09	0.09	0.09	0.09
28	Carlton	0	0	0	0	0.01	0.05	0.08	0.08	0.06	0.08	0.08	0.04	0.02	0	0.04
29	Cascade Creek	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
30	Cedar Draw Creek	0.30	0.30	0.92	0.89	0.92	1.16	1.16	1.28	0.42	0.43	0.43	0.42	0.31	0.30	0.71
31	Central Oregon Siphon	3.10	3.10	3.71	3.47	0.02	0.69	0	0.40	0.87	0.83	0.83	4.47	3.83	4.09	2.13
32	Cereghino	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55
33	Chester Hydroelectic Plant	1.92	1.92	1.92	1.92	1.92	1.92	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91
34	Clear Springs Trout	0.43	0.43	0.44	0.52	0.60	0.56	0.41	0.47	0.35	0.35	0.35	0.35	0.36	0.43	0.44
35	Company Creek	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
36	Cornelius	0	0	0	0	0	0.02	0.01	0.01	0.01	0	0	0	0	0	0
37	Cowiche	0.80	0.80	0.80	0.80	0	0	0	0	0	0	0.80	0.80	0.80	0.80	0.44
38	Crystal Springs	1.34	1.34	1.56	1.51	1.56	0.54	0.54	0.59	0.83	0.86	0.86	0.83	1.38	1.34	1.07
39	Curry Cattle Co.	0.21	0.21	0.22	0.14	0.08	0.05	0.04	0.04	0.07	0.09	0.09	0.18	0.20	0.18	0.12
40	Curtiss Livestock	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01
41	Cushman North Fork	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25
42	D. Wiggins	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43	Deep Creek	0.01	0.01	0.01	0	0	0	0	0	0	0.01	0.01	0.02	0.03	0.02	0.01
44	Denny Creek	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
45	Dietrich Drop	4.67	4.67	3.56	3.09	1.37	0	0	0	0	3.09	3.09	4.67	4.67	4.52	2.47
46	Donald Jenni	0.07	0.08	0.07	0.07	0.07	0.08	0.08	0.07	0.07	0.07	0.07	0.08	0.07	0.07	0.07
47	Dry Creek	0.94	0.94	1.00	0.80	0.43	0	0.33	0.27	0.37	0.41	0.41	0.90	2.66	2.09	0.85
48	Dworshak-Clearwater Hatchery	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63
49	Ebey Hill (Kevin Duncan)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50	Elk Creek	1.19	1.19	0.01	0.01	0.01	0.10	0.10	0.11	1.00	1.04	1.04	1.00	1.23	1.19	0.59
51	Eltopia Branch Canal 4.6	1.80	1.80	1.20	0.60	0	0	0	0	0	1.40	1.40	2.00	2.00	2.20	0.94
52	Esquatzel Small Hydro	0.90	0.90	0.80	0.80	0.60	0.60	0.60	0.60	0.60	0.70	0.70	0.70	0.80	0.90	0.72
53	Falls Creek (Or)	0	0	0	0	1.88	3.08	0.91	2.72	2.66	4.35	4.35	4.11	3.82	0	1.95
54	Falls Creek (Wa)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
55	Falls River Hydro	6.46	6.46	6.29	5.72	5.58	4.96	4.18	3.75	3.79	6.22	6.22	7.91	8.55	7.08	5.88
56	Farmers Irr Dist Proj No 2	0.35	0.35	0.45	0.77	2.02	2.00	1.34	2.88	2.04	2.19	2.19	2.96	0.52	0.45	1.49
57	Farmers Irr Dist Proj No 3	0.21	0.21	0.27	0.46	1.21	1.20	0.81	1.73	1.22	1.32	1.32	1.77	0.31	0.27	0.90
58	Faulkner Ranch	0.82	0.82	0.71	0.69	0.71	0.30	0.30	0.34	0.54	0.56	0.56	0.54	0.85	0.82	0.60

Table A-9: Regional: Small Hydro

Operating Year 2016 Water Year: 1937

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
59	Fisheries Development #1	0.24	0.24	0.26	0.22	0.27	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.24	0.23	0.25
60	Flying W	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61	Ford	0	0	0	0	0.30	0.50	0.90	0.90	1.10	1.10	1.10	0.70	0.30	0.10	0.49
62	Forgy	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
63	Galesville	0.63	0.63	0.38	0.18	0.17	0.26	0.01	0.25	0.35	0.43	0.43	0.33	0.35	0.54	0.32
64	Geo-Bon #2	0.97	0.97	0.35	0.34	0.35	0.24	0.24	0.26	0.59	0.61	0.61	0.59	1.00	0.97	0.54
65	Georgetown	0	0	0.24	0.30	0.32	0.31	0.28	0.27	0.25	0.28	0.28	0.34	0.22	0	0.23
66	Gillihan	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
67	Ground Water Pumping Station	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
68	Hailey	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
69	Hazelton A	7.04	7.04	5.43	2.49	0.91	0	0	0	0.08	2.56	2.56	6.01	6.73	7.45	3.23
70	Hazelton B	6.61	6.61	5.15	2.36	0.67	0	0	0	0.06	2.23	2.23	5.64	6.41	6.97	3.02
71	Hettinger	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
72	Horseshoe Bend	8.79	8.79	7.55	3.91	2.78	3.50	3.86	4.65	5.89	8.81	8.81	9.93	9.80	9.22	6.56
73	Hutchinson Creek	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
74	James Boyd	0	0	0	0	0	0.37	0.34	0.58	0.69	0.81	0.81	0.50	0	0	0.27
75	James White	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.20	0.20	0.30	0.20	0.20	0.14
76	Jim Knight	0.36	0.36	0.25	0.25	0.25	0.09	0.09	0.10	0.25	0.25	0.25	0.25	0.37	0.36	0.24
77	John Day Creek	0.20	0.20	0.20	0.20	0.20	0.20	0.30	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.21
78	Juniper Ridge Hydro	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37
79	Kasel-Withersppon	0.90	0.90	0.94	0.60	0.36	0.19	0.15	0.16	0.27	0.36	0.36	0.76	0.85	0.78	0.53
80	Kaster Riverview	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
81	Koma Kulshan	4.60	4.60	4.30	6.40	8.00	6.10	3.90	3.80	4.40	6.90	6.90	9.40	10.4	8.20	6.37
82	Koyle Ranch Power	1.05	1.05	1.14	0.99	1.04	0.16	0.15	0.06	0.32	0.82	0.82	1.25	0.78	0.94	0.73
83	L & M Angus Ranch	0.23	0.23	0.28	0.32	0.51	0.50	0.41	0.42	0.45	0.40	0.40	0.35	0.27	0.27	0.37
84	Lacomb	0	0	0	0	0.21	0.97	0.22	0.89	0.89	1.05	1.05	0.95	0.88	0.42	0.54
85	Lake Creek (OR)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
86	Lake Oswego	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
87	Lateral #10	1.21	1.21	1.25	1.60	1.65	1.21	1.21	1.34	1.41	1.45	1.45	1.41	1.25	1.21	1.35
88	Le Moyne	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
89	Lee Tavenner	0.06	0.06	0.08	0.08	0.07	0.10	0.13	0.10	0.08	0.09	0.08	0.08	0.07	0.05	0.08
90	Little Butte Ranch	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
91	Little Mac	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
92	Little Wood River Ranch	1.94	1.94	0.21	0.20	0.21	0	0	0	1.61	1.66	1.66	1.61	2.00	1.94	0.95
93	Little Wood River Reservoir	0.73	0.73	0.44	0.42	0.44	0.20	0.20	0.22	0.44	0.45	0.45	0.44	0.75	0.73	0.46
94	Low line Canal Drop	7.82	7.82	7.50	7.26	7.50	0.63	0.63	0.70	5.28	5.45	5.45	5.28	8.08	7.82	5.33
95	Low Line Midway	2.00	2.00	0	0	0	0	0	0	0	0	0	0	2.00	2.00	0.50
96	Lower Low line	2.69	2.69	2.48	1.80	1.45	0	0	0.68	1.88	2.48	2.48	2.69	2.69	2.69	1.80
97	Loyd F. Fery Farms	0.03	0.03	0.04	0.03	0.03	0.03	0.04	0.04	0.02	0.04	0.04	0.03	0.03	0.04	0.03
98	LQ-LS Drains (Pigeon Cove)	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88
99	Lucky Peak	28.6	26.8	19.9	4.50	0	0.70	0	1.50	1.60	11.4	11.4	67.7	75.2	73.0	23.7
100	Magic Dam	6.82	6.82	4.40	0.49	0.17	0.10	0.25	0.15	0.86	2.99	2.99	8.25	9.08	8.96	3.55
101	Main Canal Headworks	20.4	20.4	12.2	5.20	0	0	0	0	2.80	13.6	13.6	18.2	21.2	23.6	9.80
102	Marsh Valley	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44
103	Meyers Falls	0.77	0.77	0.69	0.46	0.69	0.69	0.46	0.61	0.84	0.84	0.84	0.77	0.92	0.84	0.72
104	Meyers Falls 1910	0.23	0.23	0.21	0.14	0.21	0.21	0.14	0.19	0.26	0.26	0.26	0.23	0.28	0.26	0.22
105	Middle Fork Irrigation District	1.84	1.84	0.77	1.24	1.31	1.66	2.72	3.09	3.08	2.93	2.93	2.84	2.42	1.98	2.16
106	Mile 28	1.32	1.32	1.23	0.69	0.18	0	0	0	0	0.62	0.62	1.20	1.29	1.36	0.66
107	Mill Creek (Cove Hydro)	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
108	Minikahda	0	0	0	0	0.04	0.05	0.05	0.08	0.05	0.07	0.07	0.07	0	0.01	0.03
109	Mink Creek	1.18	1.18	0.83	0.62	0.56	0.50	0.40	0.39	0.25	0.41	0.41	1.65	2.69	1.61	0.93
110	Mitchell Butte	1.05	1.05	1.07	0.42	0	0	0	0	0.28	0.83	0.83	1.24	1.25	1.09	0.60
111	Mora Drop	1.90	1.90	1.90	0	0	0	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.42
112	Morse Creek	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
113	Mt. Tabor	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
114	Mud Creek	0.50	0.50	0.65	0.66	0.74	0.60	0.47	0.53	0.50	0.50	0.50	0.49	0.44	0.50	0.55
115	N-32 Canal	1.12	1.12	1.15	1.12	1.15	0	0	0	1.12	1.15	1.15	1.12	1.15	1.12	0.85
116	Nichols Gap	0	0	0	0	0.42	0.62	0.19	0.55	0.58	0.40	0.40	0.02	0.01	0	0.23
117	Nicholson	0.22	0.22	0.16	0.21	0.19	0.20	0.14	0.21	0.19	0.16	0.16	0.19	0.23	0.22	0.19

Table A-9: Regional: Small Hydro

Operating Year 2016 Water Year: 1937

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
118	North Fork Sprague	0.03	0.03	0.07	0.01	0	0.05	0.15	0.26	0.16	0.27	0.27	0.92	0.45	0.15	0.21
119	North Willow Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
120	O. J. Power Company	0.01	0.01	0.07	0.03	0.05	0.05	0.06	0.07	0.08	0.07	0.07	0.08	0.11	0.10	0.06
121	Odell Creek	0.03	0.03	0.04	0.04	0.01	0.03	0.02	0.03	0.04	0.05	0.05	0.01	0	0.03	0.03
122	Opal Springs	2.63	2.63	2.95	3.62	3.16	2.94	2.94	3.51	2.60	2.71	2.71	4.47	1.62	2.23	2.95
123	Orchard Avenue	0.79	0.79	0.79	0.79	0	0	0	0	0	0	0.79	0.79	0.79	0.79	0.43
124	Owyhee Dam	2.78	2.78	1.99	0.59	0	0	0.24	0.64	1.76	3.35	3.35	3.88	3.33	3.16	1.81
125	Owyhee Tunnel No 1	4.27	4.27	2.56	0.54	0	0	0	0	2.35	5.10	5.10	5.83	5.85	5.93	2.71
126	Pancheri	0	0	0.01	0	0	0.01	0	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
127	PEC Headworks	4.50	4.50	3.10	2.20	0	0	0	0	0.40	5.10	5.10	6.50	6.20	5.80	2.82
128	Phillips Ranch	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
129	Phillipsburg	0.03	0.03	0.04	0.04	0.03	0.05	0.07	0.05	0.04	0.04	0.04	0.04	0.03	0.03	0.04
130	Pine Creek	0.08	0.09	0.08	0.08	0.08	0.09	0.09	0.08	0.08	0.08	0.08	0.09	0.08	0.08	0.08
131	Portland Hydro Project	2.34	2.34	2.92	6.66	16.2	19.9	18.4	17.2	16.4	17.4	17.4	15.1	8.42	3.16	12.0
132	Portneuf River	0.24	0.24	0.11	0.05	0.10	0.11	0	0	0	0	0	0.22	0.58	0.38	0.15
133	Potholes East Canal	1.80	1.80	1.80	1.60	0	0	0	0	0.60	1.80	1.80	1.80	1.80	1.80	1.09
134	Preston	0.31	0.31	0.38	0.37	0.38	0.37	0.36	0.35	0.35	0.37	0.37	0.38	0.37	0.38	0.36
135	Pristine Springs	0.28	0.28	0.41	0.43	0.31	0.33	0.28	0.25	0.27	0.35	0.35	0.37	0.32	0.28	0.32
136	Quincy Chute	7.70	7.70	4.00	2.30	0	0	0	0	0.80	5.50	5.50	7.10	8.40	8.50	3.70
137	Ravenscroft Ranch	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35
138	Reynolds Irrigation District	0.15	0.15	0.25	0.24	0.25	0.24	0.24	0.26	0.20	0.21	0.21	0.20	0.16	0.15	0.21
139	Rim View	0.17	0.17	0.25	0.26	0.19	0.20	0.17	0.15	0.16	0.22	0.22	0.23	0.20	0.17	0.20
140	Rock Creek #1	1.13	1.13	1.63	1.73	1.24	1.33	1.11	1.00	1.08	1.42	1.42	1.48	1.29	1.13	1.30
141	Rock Creek No 2	1.82	1.82	1.84	1.89	1.87	1.87	0.63	0.40	1.63	1.87	1.87	1.87	1.87	1.64	1.60
142	Rocky Brook	0	0	0	0.04	0.21	0.56	0.58	0.41	0.47	0.46	0.46	0.20	0.09	0	0.25
143	Russell D. Smith	4.00	4.00	2.60	1.40	0	0	0	0	0.20	2.40	2.40	3.80	4.20	3.40	1.84
144	Sagebrush	0.40	0.40	0.26	0.25	0.26	0.08	0.08	0.09	0.26	0.26	0.26	0.26	0.41	0.40	0.25
145	Sahko	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
146	Schaffner	0.36	0.36	0.26	0.25	0.26	0.14	0.14	0.16	0.29	0.30	0.30	0.29	0.37	0.36	0.26
147	Shingle Creek	0.11	0.11	0.16	0.17	0.12	0.13	0.11	0.10	0.10	0.14	0.14	0.14	0.12	0.11	0.12
148	Shoshone	0.90	0.90	0.92	0.29	0.31	0.05	0.04	0.02	0.10	0.54	0.54	0.84	0.82	0.86	0.47
149	Skookumchuck	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
150	Smith Creek (Washington)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
151	Snake River Pottery	0.03	0.03	0.04	0.04	0.04	0.06	0.06	0.07	0.04	0.04	0.04	0.04	0.03	0.03	0.04
152	Snedigar Ranch	0.15	0.15	0.22	0.21	0.22	0.15	0.15	0.17	0.11	0.12	0.12	0.11	0.16	0.15	0.16
153	South Dry Creek	0.52	0.53	0.49	0.50	0	0	0	0	0.50	0.50	0.49	0.58	0.49	0.47	0.34
154	Spencer Lake Hydro	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
155	Spring Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
156	Stayton Hydro	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
157	Stevenson #1	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
158	Stevenson #2	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
159	Strawberry Creek (MT)	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.06	0.06	0.06	0.06	0.07	0.06	0.06	0.06
160	Summer Falls	78.8	78.8	48.4	21.6	0	0	0	0	4.80	50.0	50.0	71.4	81.0	87.4	37.1
161	Sunshine	0.10	0.10	0.06	0.06	0.06	0.04	0.04	0.05	0.07	0.07	0.07	0.07	0.10	0.10	0.07
162	Sygitowicz Creek	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.43	0.45	0.45	0.45	0.45	0.45	0.45	0.45
163	Thompson's Mills	0.01	0.01	0.01	0.03	0.05	0.06	0.05	0.06	0.06	0.07	0.07	0.05	0.07	0.03	0.05
164	Tiber Dam	7.04	7.04	5.43	2.49	0.91	0	0	0	0.08	2.56	2.56	6.01	6.73	7.45	3.23
165	Tieton Dam (Yakima)	7.81	7.81	7.81	7.81	0	0	0	0	0	0	7.81	7.81	7.81	7.81	4.25
166	Trinity	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
167	Twin Falls (WA)	5.00	5.00	0	1.20	9.60	7.90	7.40	4.80	7.80	14.8	14.8	13.2	24.3	18.7	9.56
168	Upper Pine Creek	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
169	Upriver Dam	3.40	3.40	3.40	4.70	6.70	13.4	14.4	13.0	13.8	12.9	12.9	11.2	11.6	8.40	9.73
170	Walla Walla	1.54	1.54	1.44	1.28	1.17	1.29	1.17	1.53	1.75	1.77	1.77	1.48	1.54	1.76	1.48
171	Water Street	0.02	0.02	0.09	0.14	0.16	0.15	0.10	0.12	0.12	0.16	0.16	0.14	0.14	0.07	0.12
172	Weeks Falls	0.80	0.80	0	0.20	1.70	1.80	1.20	0.60	1.20	2.60	2.60	2.40	4.40	3.50	1.70
173	White Ranch	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
174	White Water Ranch	0.07	0.07	0.08	0.08	0.08	0.10	0.10	0.11	0.08	0.08	0.08	0.08	0.07	0.07	0.08
175	Whitefish	0.12	0.11	0.20	0.12	0.11	0.11	0.11	0.11	0.12	0.12	0.12	0.11	0.12	0.20	0.13
176	Wilson Lake	7.07	7.07	5.27	2.00	0.25	0	0	0	0.03	2.32	2.32	6.05	6.83	7.63	3.13

Table A-9: Regional: Small Hydro

Operating Year 2016 Water Year: 1937

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
177	Wisconsin Noble	0.04	0.04	0.05	0.05	0.04	0.06	0.08	0.06	0.05	0.05	0.05	0.05	0.04	0.03	0.05
178	Wolf Creek	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
179	Woods Creek	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
180	Yakama Drop 2	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
181	Yakama Drop 3	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
182	Youngs Creek	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
183	Zena Creek Ranch	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
	Total Small Hydro															
184	Cooperative	3.80	3.79	3.78	3.53	3.42	3.55	3.41	3.78	4.01	4.03	4.03	3.72	3.80	4.09	3.74
185	Federal Entities	2.83	2.83	2.83	2.87	3.04	3.39	3.41	3.24	3.30	3.29	3.29	3.03	2.92	2.83	3.08
186	Investor Owned Utilities	163	164	138	112	119	112	104	109	130	177	179	215	227	201	151
187	Marketer	7.81	7.81	7.81	7.81	0	0	0	0	0	0	7.81	7.81	7.81	7.81	4.25
188	Municipality	138	136	88.6	37.4	2.48	3.18	2.48	3.98	12.5	83.1	83.1	167	188	194	76.9
189	Public Utility District	17.9	17.9	12.7	10.1	5.38	5.38	5.38	5.38	6.58	16.1	16.1	19.1	20.2	20.0	12.0
190	**Total Small Hydro**	**333**	**332**	**253**	**174**	**134**	**127**	**119**	**125**	**157**	**284**	**293**	**416**	**449**	**430**	**251**

Table A-9: Regional: Small Hydro

Operating Year 2017 Water Year: 1937

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Small Hydro															
1	Albany-Millersburg Hydro Project	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
2	Amy Ranch	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33
3	Arena Drop	0.31	0.31	0.31	0	0	0	0	0	0	0.31	0.31	0.31	0.31	0.31	0.16
4	Barber Dam	2.38	2.38	1.93	0.84	0.31	0.97	2.16	2.64	3.28	3.22	3.22	3.14	3.24	3.28	2.28
5	Barney Creek	0.02	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.02	0.01	0.01	0.02
6	Beaverton	0	0	0	0.02	0.05	0.05	0.05	0.01	0	0.03	0.03	0.05	0	0	0.02
7	Bell Mountain	0.12	0.12	0.10	0.21	0.05	0.12	0.10	0.13	0.13	0.11	0.11	0.13	0.19	0.13	0.13
8	Big Elk Creek YMCA Camp	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	Big Sheep Creek	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60
10	Bigg's Creek (Pickering Micro)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	Billingsley Creek	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
12	Birch Creek Diversion Dam	0.04	0.04	0.05	0.05	0.06	0.06	0.04	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.05
13	Birch Creek (Gooding,ID)	1.25	1.25	1.11	1.00	1.14	1.10	0.31	1.19	1.73	1.63	1.63	1.60	1.34	1.19	1.21
14	Black Canyon #3	0.11	0.11	0.06	0.05	0.06	0	0	0	0.09	0.09	0.09	0.09	0.11	0.11	0.06
15	Black Creek	3.08	3.08	2.78	1.85	2.78	2.78	3.39	3.39	3.08	3.70	3.39	3.08	3.08	2.78	2.96
16	Blind Canyon	0.73	0.73	1.09	0.89	0.15	0	0	0	0	0.57	0.57	1.61	0.97	0.73	0.57
17	Boulder Creek	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
18	Box Canyon Springs	0.42	0.42	0.40	0.39	0.40	0.31	0.31	0.34	0.28	0.29	0.29	0.28	0.43	0.42	0.36
19	Briggs Creek	0.59	0.59	0.61	0.59	0.61	0.59	0.59	0.65	0.59	0.61	0.61	0.59	0.61	0.59	0.60
20	Briggs Project	0.20	0.20	0.12	0.21	0.21	0.22	0.13	0.20	0.22	0.13	0.13	0.20	0.19	0.12	0.18
21	Broadwater	1.11	1.13	1.55	1.91	2.06	1.64	1.58	1.74	1.80	2.76	2.70	3.22	2.74	1.99	2.01
22	Buffalo Hydro	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
23	Burr & Bouchard	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	Burton Creek	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
25	Bypass	8.26	8.26	6.54	2.82	0.99	0	0	0	0.06	2.94	2.94	7.01	8.16	8.68	3.81
26	Canyon Creek	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
27	Canyon Springs	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.10	0.09	0.09	0.09	0.09	0.09	0.09	0.09
28	Carlton	0	0	0	0	0.01	0.05	0.08	0.08	0.06	0.08	0.08	0.04	0.02	0	0.04
29	Cascade Creek	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
30	Cedar Draw Creek	0.30	0.30	0.92	0.89	0.92	1.16	1.16	1.28	0.42	0.43	0.43	0.42	0.31	0.30	0.71
31	Central Oregon Siphon	3.10	3.10	3.71	3.47	0.02	0.69	0	0.40	0.87	0.83	0.83	4.47	3.83	4.09	2.14
32	Cereghino	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55
33	Chester Hydroelectic Plant	1.91	1.91	1.91	1.91	1.91	1.91	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92
34	Clear Springs Trout	0.43	0.43	0.44	0.52	0.60	0.56	0.41	0.47	0.35	0.35	0.35	0.35	0.36	0.43	0.44
35	Company Creek	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
36	Cornelius	0	0	0	0	0	0.02	0.01	0.01	0.01	0	0	0	0	0	0
37	Cowiche	0.80	0.80	0.80	0.80	0	0	0	0	0	0	0.80	0.80	0.80	0.80	0.44
38	Crystal Springs	1.34	1.34	1.56	1.51	1.56	0.54	0.54	0.59	0.83	0.86	0.86	0.83	1.38	1.34	1.07
39	Curry Cattle Co.	0.21	0.21	0.22	0.14	0.08	0.05	0.04	0.04	0.07	0.09	0.09	0.18	0.20	0.18	0.12
40	Curtiss Livestock	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01
41	Cushman North Fork	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25
42	D. Wiggins	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43	Deep Creek	0.01	0.01	0.01	0	0	0	0	0	0	0.01	0.01	0.02	0.03	0.02	0.01
44	Denny Creek	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
45	Dietrich Drop	4.67	4.67	3.56	3.09	1.37	0	0	0	0	3.09	3.09	4.67	4.67	4.52	2.48
46	Donald Jenni	0.07	0.08	0.07	0.07	0.07	0.08	0.08	0.07	0.07	0.07	0.07	0.08	0.07	0.07	0.07
47	Dry Creek	0.94	0.94	1.00	0.80	0.43	0	0.33	0.27	0.37	0.41	0.41	0.90	2.66	2.09	0.85
48	Dworshak-Clearwater Hatchery	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63
49	Ebey Hill (Kevin Duncan)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50	Elk Creek	1.19	1.19	0.01	0.01	0.01	0.10	0.10	0.11	1.00	1.04	1.04	1.00	1.23	1.19	0.59
51	Eltopia Branch Canal 4.6	1.80	1.80	1.20	0.60	0	0	0	0	0	1.40	1.40	2.00	2.00	2.20	0.94
52	Esquatzel Small Hydro	0.90	0.90	0.80	0.80	0.60	0.60	0.60	0.60	0.60	0.70	0.70	0.70	0.80	0.90	0.72
53	Falls Creek (Or)	0	0	0	0	1.88	3.08	0.91	2.72	2.66	4.35	4.35	4.11	3.82	0	1.95
54	Falls Creek (Wa)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
55	Falls River Hydro	6.46	6.46	6.29	5.72	5.58	4.96	4.18	3.75	3.79	6.22	6.22	7.91	8.55	7.08	5.88
56	Farmers Irr Dist Proj No 2	0.35	0.35	0.45	0.77	2.02	2.00	1.34	2.88	2.04	2.19	2.19	2.96	0.52	0.45	1.49
57	Farmers Irr Dist Proj No 3	0.21	0.21	0.27	0.46	1.21	1.20	0.81	1.73	1.22	1.32	1.32	1.77	0.31	0.27	0.89
58	Faulkner Ranch	0.82	0.82	0.71	0.69	0.71	0.30	0.30	0.34	0.54	0.56	0.56	0.54	0.85	0.82	0.60

Table A-9: Regional: Small Hydro

Operating Year 2017 Water Year: 1937

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
59	Fisheries Development #1	0.24	0.24	0.26	0.22	0.27	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.24	0.23	0.25
60	Flying W	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61	Ford	0	0	0	0	0.30	0.50	0.90	0.90	1.10	1.10	1.10	0.70	0.30	0.10	0.49
62	Forgy	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
63	Galesville	0.63	0.63	0.38	0.18	0.17	0.26	0.01	0.25	0.35	0.43	0.43	0.33	0.35	0.54	0.32
64	Geo-Bon #2	0.97	0.97	0.35	0.34	0.35	0.24	0.24	0.26	0.59	0.61	0.61	0.59	1.00	0.97	0.54
65	Georgetown	0	0	0.24	0.30	0.32	0.31	0.28	0.27	0.25	0.28	0.28	0.34	0.22	0	0.23
66	Gillihan	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
67	Ground Water Pumping Station	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
68	Hailey	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
69	Hazelton A	7.04	7.04	5.43	2.49	0.91	0	0	0	0.08	2.56	2.56	6.01	6.73	7.45	3.24
70	Hazelton B	6.61	6.61	5.15	2.36	0.67	0	0	0	0.06	2.23	2.23	5.64	6.41	6.97	3.03
71	Hettinger	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
72	Horseshoe Bend	8.79	8.79	7.55	3.91	2.78	3.50	3.86	4.65	5.89	8.81	8.81	9.93	9.80	9.22	6.56
73	Hutchinson Creek	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
74	James Boyd	0	0	0	0	0	0.37	0.34	0.58	0.69	0.81	0.81	0.50	0	0	0.27
75	James White	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.20	0.20	0.30	0.20	0.20	0.14
76	Jim Knight	0.36	0.36	0.25	0.25	0.25	0.09	0.09	0.10	0.25	0.25	0.25	0.25	0.37	0.36	0.24
77	John Day Creek	0.20	0.20	0.20	0.20	0.20	0.20	0.30	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.21
78	Juniper Ridge Hydro	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37
79	Kasel-Withersppon	0.90	0.90	0.94	0.60	0.36	0.19	0.15	0.16	0.27	0.36	0.36	0.76	0.85	0.78	0.53
80	Kaster Riverview	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
81	Koma Kulshan	4.60	4.60	4.30	6.40	8.00	6.10	3.90	3.80	4.40	6.90	6.90	9.40	10.4	8.20	6.38
82	Koyle Ranch Power	1.05	1.05	1.14	0.99	1.04	0.16	0.15	0.06	0.32	0.82	0.82	1.25	0.78	0.94	0.73
83	L & M Angus Ranch	0.23	0.23	0.28	0.32	0.51	0.50	0.41	0.42	0.45	0.40	0.40	0.35	0.27	0.27	0.37
84	Lacomb	0	0	0	0	0.21	0.97	0.22	0.89	0.89	1.05	1.05	0.95	0.88	0.42	0.54
85	Lake Creek (OR)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
86	Lake Oswego	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
87	Lateral #10	1.21	1.21	1.25	1.60	1.65	1.21	1.21	1.34	1.41	1.45	1.45	1.41	1.25	1.21	1.35
88	Le Moyne	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
89	Lee Tavenner	0.06	0.06	0.08	0.08	0.07	0.10	0.13	0.10	0.08	0.09	0.08	0.08	0.07	0.05	0.08
90	Little Butte Ranch	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
91	Little Mac	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
92	Little Wood River Ranch	1.94	1.94	0.21	0.20	0.21	0	0	0	1.61	1.66	1.66	1.61	2.00	1.94	0.95
93	Little Wood River Reservoir	0.73	0.73	0.44	0.42	0.44	0.20	0.20	0.22	0.44	0.45	0.45	0.44	0.75	0.73	0.46
94	Low line Canal Drop	7.82	7.82	7.50	7.26	7.50	0.63	0.63	0.70	5.28	5.45	5.45	5.28	8.08	7.82	5.35
95	Low Line Midway	2.00	2.00	0	0	0	0	0	0	0	0	0	0	2.00	2.00	0.50
96	Lower Low line	2.69	2.69	2.48	1.80	1.45	0	0	0.68	1.88	2.48	2.48	2.69	2.69	2.69	1.80
97	Loyd F. Fery Farms	0.03	0.03	0.04	0.03	0.03	0.03	0.04	0.04	0.02	0.04	0.04	0.03	0.03	0.04	0.03
98	LQ-LS Drains (Pigeon Cove)	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88
99	Lucky Peak	28.6	26.8	19.9	4.50	0	0.70	0	1.50	1.60	11.4	11.4	67.7	75.2	73.0	23.7
100	Magic Dam	6.82	6.82	4.40	0.49	0.17	0.10	0.25	0.15	0.86	2.99	2.99	8.25	9.08	8.96	3.56
101	Main Canal Headworks	20.4	20.4	12.2	5.20	0	0	0	0	2.80	13.6	13.6	18.2	21.2	23.6	9.82
102	Marsh Valley	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44
103	Meyers Falls	0.77	0.77	0.69	0.46	0.69	0.69	0.46	0.61	0.84	0.84	0.84	0.77	0.92	0.84	0.72
104	Meyers Falls 1910	0.23	0.23	0.21	0.14	0.21	0.21	0.14	0.19	0.26	0.26	0.26	0.23	0.28	0.26	0.22
105	Middle Fork Irrigation District	1.84	1.84	0.77	1.24	1.31	1.66	2.72	3.09	3.08	2.93	2.93	2.84	2.42	1.98	2.15
106	Mile 28	1.32	1.32	1.23	0.69	0.18	0	0	0	0	0.62	0.62	1.20	1.29	1.36	0.66
107	Mill Creek (Cove Hydro)	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
108	Minikahda	0	0	0	0	0.04	0.05	0.05	0.08	0.05	0.07	0.07	0.07	0	0.01	0.03
109	Mink Creek	1.18	1.18	0.83	0.62	0.56	0.50	0.40	0.39	0.25	0.41	0.41	1.65	2.69	1.61	0.93
110	Mitchell Butte	1.05	1.05	1.07	0.42	0	0	0	0	0.28	0.83	0.83	1.24	1.25	1.09	0.60
111	Mora Drop	1.90	1.90	1.90	0	0	0	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.42
112	Morse Creek	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
113	Mt. Tabor	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
114	Mud Creek	0.50	0.50	0.65	0.66	0.74	0.60	0.47	0.53	0.50	0.50	0.50	0.49	0.44	0.50	0.55
115	N-32 Canal	1.12	1.12	1.15	1.12	1.15	0	0	0	1.12	1.15	1.15	1.12	1.15	1.12	0.85
116	Nichols Gap	0	0	0	0	0.42	0.62	0.19	0.55	0.58	0.40	0.40	0.02	0.01	0	0.23
117	Nicholson	0.22	0.22	0.16	0.21	0.19	0.20	0.14	0.21	0.19	0.16	0.16	0.19	0.23	0.22	0.19

Table A-9: Regional: Small Hydro

Operating Year 2017 Water Year: 1937

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
118	North Fork Sprague	0.03	0.03	0.07	0.01	0	0.05	0.15	0.26	0.16	0.27	0.27	0.92	0.45	0.15	0.21
119	North Willow Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
120	O. J. Power Company	0.01	0.01	0.07	0.03	0.05	0.05	0.06	0.07	0.08	0.07	0.07	0.08	0.11	0.10	0.06
121	Odell Creek	0.03	0.03	0.04	0.04	0.01	0.03	0.02	0.03	0.04	0.05	0.05	0.01	0	0.03	0.03
122	Opal Springs	2.63	2.63	2.95	3.62	3.16	2.94	2.94	3.51	2.60	2.71	2.71	4.47	1.62	2.23	2.95
123	Orchard Avenue	0.79	0.79	0.79	0.79	0	0	0	0	0	0	0.79	0.79	0.79	0.79	0.43
124	Owyhee Dam	2.78	2.78	1.99	0.59	0	0	0.24	0.64	1.76	3.35	3.35	3.88	3.33	3.16	1.82
125	Owyhee Tunnel No 1	4.27	4.27	2.56	0.54	0	0	0	0	2.35	5.10	5.10	5.83	5.85	5.93	2.72
126	Pancheri	0	0	0.01	0	0	0.01	0	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
127	PEC Headworks	4.50	4.50	3.10	2.20	0	0	0	0	0.40	5.10	5.10	6.50	6.20	5.80	2.83
128	Phillips Ranch	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
129	Phillipsburg	0.03	0.03	0.04	0.04	0.03	0.05	0.07	0.05	0.04	0.04	0.04	0.04	0.03	0.03	0.04
130	Pine Creek	0.08	0.09	0.08	0.08	0.08	0.09	0.09	0.08	0.08	0.08	0.08	0.09	0.08	0.08	0.08
131	Portland Hydro Project	2.34	2.34	2.92	6.66	16.2	19.9	18.4	17.2	16.4	17.4	17.4	15.1	8.42	3.16	12.0
132	Portneuf River	0.24	0.24	0.11	0.05	0.10	0.11	0	0	0	0	0	0.22	0.58	0.38	0.15
133	Potholes East Canal	1.80	1.80	1.80	1.60	0	0	0	0	0.60	1.80	1.80	1.80	1.80	1.80	1.09
134	Preston	0.31	0.31	0.38	0.37	0.38	0.37	0.36	0.35	0.35	0.37	0.37	0.38	0.37	0.38	0.36
135	Pristine Springs	0.28	0.28	0.41	0.43	0.31	0.33	0.28	0.25	0.27	0.35	0.35	0.37	0.32	0.28	0.32
136	Quincy Chute	7.70	7.70	4.00	2.30	0	0	0	0	0.80	5.50	5.50	7.10	8.40	8.50	3.71
137	Ravenscroft Ranch	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35
138	Reynolds Irrigation District	0.15	0.15	0.25	0.24	0.25	0.24	0.24	0.26	0.20	0.21	0.21	0.20	0.16	0.15	0.21
139	Rim View	0.17	0.17	0.25	0.26	0.19	0.20	0.17	0.15	0.16	0.22	0.22	0.23	0.20	0.17	0.20
140	Rock Creek #1	1.13	1.13	1.63	1.73	1.24	1.33	1.11	1.00	1.08	1.42	1.42	1.48	1.29	1.13	1.30
141	Rock Creek No 2	1.82	1.82	1.84	1.89	1.87	1.87	0.63	0.40	1.63	1.87	1.87	1.87	1.87	1.64	1.61
142	Rocky Brook	0	0	0	0.04	0.21	0.56	0.58	0.42	0.47	0.46	0.46	0.20	0.09	0	0.25
143	Russell D. Smith	4.00	4.00	2.60	1.40	0	0	0	0	0.20	2.40	2.40	3.80	4.20	3.40	1.84
144	Sagebrush	0.40	0.40	0.26	0.25	0.26	0.08	0.08	0.09	0.26	0.26	0.26	0.26	0.41	0.40	0.25
145	Sahko	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
146	Schaffner	0.36	0.36	0.26	0.25	0.26	0.14	0.14	0.16	0.29	0.30	0.30	0.29	0.37	0.36	0.26
147	Shingle Creek	0.11	0.11	0.16	0.17	0.12	0.13	0.11	0.10	0.10	0.14	0.14	0.14	0.12	0.11	0.12
148	Shoshone	0.90	0.90	0.92	0.29	0.31	0.05	0.04	0.02	0.10	0.54	0.54	0.84	0.82	0.86	0.47
149	Skookumchuck	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
150	Smith Creek (Washington)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
151	Snake River Pottery	0.03	0.03	0.04	0.04	0.04	0.06	0.06	0.07	0.04	0.04	0.04	0.04	0.03	0.03	0.04
152	Snedigar Ranch	0.15	0.15	0.22	0.21	0.22	0.15	0.15	0.17	0.11	0.12	0.12	0.11	0.16	0.15	0.16
153	South Dry Creek	0.52	0.53	0.49	0.50	0	0	0	0	0.50	0.50	0.49	0.58	0.49	0.47	0.34
154	Spencer Lake Hydro	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
155	Spring Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
156	Stayton Hydro	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
157	Stevenson #1	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
158	Stevenson #2	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
159	Strawberry Creek (MT)	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.06	0.06	0.06	0.06	0.07	0.06	0.06	0.06
160	Summer Falls	78.8	78.8	48.4	21.6	0	0	0	0	4.80	50.0	50.0	71.4	81.0	87.4	37.2
161	Sunshine	0.10	0.10	0.06	0.06	0.06	0.04	0.04	0.05	0.07	0.07	0.07	0.07	0.10	0.10	0.07
162	Sygitowicz Creek	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
163	Thompson's Mills	0.01	0.01	0.01	0.03	0.05	0.06	0.05	0.06	0.06	0.07	0.07	0.05	0.07	0.03	0.05
164	Tiber Dam	7.04	7.04	5.43	2.49	0.91	0	0	0	0.08	2.56	2.56	6.01	6.73	7.45	3.24
165	Tieton Dam (Yakima)	7.81	7.81	7.81	7.81	0	0	0	0	0	0	7.81	7.81	7.81	7.81	4.26
166	Trinity	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
167	Twin Falls (WA)	5.00	5.00	0	1.20	9.60	7.90	7.40	4.80	7.80	14.8	14.8	13.2	24.3	18.7	9.57
168	Upper Pine Creek	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
169	Upriver Dam	3.40	3.40	3.40	4.70	6.70	13.4	14.4	13.0	13.8	12.9	12.9	11.2	11.6	8.40	9.73
170	Walla Walla	1.54	1.54	1.44	1.28	1.17	1.29	1.17	1.53	1.75	1.77	1.77	1.48	1.54	1.76	1.48
171	Water Street	0.02	0.02	0.09	0.14	0.16	0.15	0.10	0.12	0.12	0.16	0.16	0.14	0.14	0.07	0.12
172	Weeks Falls	0.80	0.80	0	0.20	1.70	1.80	1.20	0.60	1.20	2.60	2.60	2.40	4.40	3.50	1.70
173	White Ranch	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
174	White Water Ranch	0.07	0.07	0.08	0.08	0.08	0.10	0.10	0.11	0.08	0.08	0.08	0.08	0.07	0.07	0.08
175	Whitefish	0.12	0.12	0.20	0.11	0.11	0.11	0.11	0.11	0.12	0.12	0.11	0.11	0.12	0.20	0.13
176	Wilson Lake	7.07	7.07	5.27	2.00	0.25	0	0	0	0.03	2.32	2.32	6.05	6.83	7.63	3.14

Table A-9: Regional: Small Hydro

Operating Year 2017 Water Year: 1937

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
177	Wisconsin Noble	0.04	0.04	0.05	0.05	0.04	0.06	0.08	0.06	0.05	0.05	0.05	0.05	0.04	0.03	0.05
178	Wolf Creek	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
179	Woods Creek	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
180	Yakama Drop 2	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
181	Yakama Drop 3	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
182	Youngs Creek	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
183	Zena Creek Ranch	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
	Total Small Hydro															
184	Cooperative	3.79	3.79	3.77	3.53	3.42	3.54	3.42	3.78	4.01	4.03	4.02	3.73	3.80	4.10	3.74
185	Federal Entities	2.83	2.83	2.83	2.87	3.04	3.39	3.41	3.25	3.30	3.29	3.29	3.03	2.92	2.83	3.08
186	Investor Owned Utilities	164	164	138	112	120	111	104	109	130	177	179	215	227	201	151
187	Marketer	7.81	7.81	7.81	7.81	0	0	0	0	0	0	7.81	7.81	7.81	7.81	4.26
188	Municipality	138	136	88.6	37.4	2.48	3.18	2.48	3.98	12.5	83.1	83.1	167	188	194	77.1
189	Public Utility District	17.9	17.9	12.7	10.1	5.38	5.38	5.38	5.38	6.58	16.1	16.1	19.1	20.2	20.0	12.0
190	**Total Small Hydro**	**334**	**332**	**253**	**174**	**134**	**126**	**119**	**125**	**157**	**284**	**293**	**416**	**449**	**430**	**251**

Table A-9: Regional: Small Hydro

Operating Year 2018 Water Year: 1937

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Small Hydro															
1	Albany-Millersburg Hydro Project	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
2	Amy Ranch	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33
3	Arena Drop	0.31	0.31	0.31	0	0	0	0	0	0	0.31	0.31	0.31	0.31	0.31	0.16
4	Barber Dam	2.38	2.38	1.93	0.84	0.31	0.97	2.16	2.64	3.28	3.22	3.22	3.14	3.24	3.28	2.28
5	Barney Creek	0.02	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.02	0.01	0.01	0.02
6	Beaverton	0	0	0	0.02	0.05	0.05	0.05	0.01	0	0.03	0.03	0.05	0	0	0.02
7	Bell Mountain	0.12	0.12	0.10	0.21	0.05	0.12	0.10	0.13	0.13	0.11	0.11	0.13	0.19	0.13	0.13
8	Big Elk Creek YMCA Camp	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	Big Sheep Creek	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60
10	Bigg's Creek (Pickering Micro)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	Billingsley Creek	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
12	Birch Creek Diversion Dam	0.04	0.04	0.05	0.05	0.06	0.06	0.04	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.05
13	Birch Creek (Gooding,ID)	1.25	1.25	1.11	1.00	1.14	1.10	0.31	1.19	1.73	1.63	1.63	1.60	1.34	1.19	1.21
14	Black Canyon #3	0.11	0.11	0.06	0.05	0.06	0	0	0	0.09	0.09	0.09	0.09	0.11	0.11	0.06
15	Black Creek	3.08	3.08	2.78	1.85	2.78	2.78	3.39	3.39	3.08	3.70	3.39	3.08	3.08	2.78	2.96
16	Blind Canyon	0.73	0.73	1.09	0.89	0.15	0	0	0	0	0.57	0.57	1.61	0.97	0.73	0.57
17	Boulder Creek	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
18	Box Canyon Springs	0.42	0.42	0.40	0.39	0.40	0.31	0.31	0.34	0.28	0.29	0.29	0.28	0.43	0.42	0.36
19	Briggs Creek	0.59	0.59	0.61	0.59	0.61	0.59	0.59	0.65	0.59	0.61	0.61	0.59	0.61	0.59	0.60
20	Briggs Project	0.20	0.20	0.12	0.21	0.21	0.22	0.13	0.20	0.22	0.13	0.13	0.20	0.19	0.12	0.18
21	Broadwater	1.11	1.13	1.55	1.91	2.06	1.64	1.58	1.74	1.80	2.76	2.70	3.22	2.74	1.99	2.01
22	Buffalo Hydro	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
23	Burr & Bouchard	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	Burton Creek	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
25	Bypass	8.26	8.26	6.54	2.82	0.99	0	0	0	0.06	2.94	2.94	7.01	8.16	8.68	3.81
26	Canyon Creek	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
27	Canyon Springs	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.10	0.09	0.09	0.09	0.09	0.09	0.09	0.09
28	Carlton	0	0	0	0	0.01	0.05	0.08	0.08	0.06	0.08	0.08	0.04	0.02	0	0.04
29	Cascade Creek	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
30	Cedar Draw Creek	0.30	0.30	0.92	0.89	0.92	1.16	1.16	1.28	0.42	0.43	0.43	0.42	0.31	0.30	0.71
31	Central Oregon Siphon	3.10	3.10	3.71	3.47	0.02	0.69	0	0.40	0.87	0.83	0.83	4.47	3.83	4.09	2.14
32	Cereghino	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55
33	Chester Hydroelectic Plant	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92
34	Clear Springs Trout	0.43	0.43	0.44	0.52	0.60	0.56	0.41	0.47	0.35	0.35	0.35	0.35	0.36	0.43	0.44
35	Company Creek	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
36	Cornelius	0	0	0	0	0	0.02	0.01	0.01	0.01	0	0	0	0	0	0
37	Cowiche	0.80	0.80	0.80	0.80	0	0	0	0	0	0	0.80	0.80	0.80	0.80	0.44
38	Crystal Springs	1.34	1.34	1.56	1.51	1.56	0.54	0.54	0.59	0.83	0.86	0.86	0.83	1.38	1.34	1.07
39	Curry Cattle Co.	0.21	0.21	0.22	0.14	0.08	0.05	0.04	0.04	0.07	0.09	0.09	0.18	0.20	0.18	0.12
40	Curtiss Livestock	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01
41	Cushman North Fork	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25
42	D. Wiggins	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43	Deep Creek	0.01	0.01	0.01	0	0	0	0	0	0	0.01	0.01	0.02	0.03	0.02	0.01
44	Denny Creek	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
45	Dietrich Drop	4.67	4.67	3.56	3.09	1.37	0	0	0	0	3.09	3.09	4.67	4.67	4.52	2.48
46	Donald Jenni	0.07	0.08	0.07	0.07	0.07	0.08	0.08	0.07	0.07	0.07	0.07	0.08	0.07	0.07	0.07
47	Dry Creek	0.94	0.94	1.00	0.80	0.43	0	0.33	0.27	0.37	0.41	0.41	0.90	2.66	2.09	0.85
48	Dworshak-Clearwater Hatchery	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63
49	Ebey Hill (Kevin Duncan)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50	Elk Creek	1.19	1.19	0.01	0.01	0.01	0.10	0.10	0.11	1.00	1.04	1.04	1.00	1.23	1.19	0.59
51	Eltopia Branch Canal 4.6	1.80	1.80	1.20	0.60	0	0	0	0	0	1.40	1.40	2.00	2.00	2.20	0.94
52	Esquatzel Small Hydro	0.90	0.90	0.80	0.80	0.60	0.60	0.60	0.60	0.60	0.70	0.70	0.70	0.80	0.90	0.72
53	Falls Creek (Or)	0	0	0	0	1.88	3.08	0.91	2.72	2.66	4.35	4.35	4.11	3.82	0	1.95
54	Falls Creek (Wa)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
55	Falls River Hydro	6.46	6.46	6.29	5.72	5.58	4.96	4.18	3.75	3.79	6.22	6.22	7.91	8.55	7.08	5.88
56	Farmers Irr Dist Proj No 2	0.35	0.35	0.45	0.77	2.02	2.00	1.34	2.88	2.04	2.19	2.19	2.96	0.52	0.45	1.49
57	Farmers Irr Dist Proj No 3	0.21	0.21	0.27	0.46	1.21	1.20	0.81	1.73	1.22	1.32	1.32	1.77	0.31	0.27	0.89
58	Faulkner Ranch	0.82	0.82	0.71	0.69	0.71	0.30	0.30	0.34	0.54	0.56	0.56	0.54	0.85	0.82	0.60

Table A-9: Regional: Small Hydro

Operating Year 2018 Water Year: 1937

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
59	Fisheries Development #1	0.24	0.24	0.26	0.22	0.27	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.24	0.23	0.25
60	Flying W	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61	Ford	0	0	0	0	0.30	0.50	0.90	0.90	1.10	1.10	1.10	0.70	0.30	0.10	0.49
62	Forgy	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
63	Galesville	0.63	0.63	0.38	0.18	0.17	0.26	0.01	0.25	0.35	0.43	0.43	0.33	0.35	0.54	0.32
64	Geo-Bon #2	0.97	0.97	0.35	0.34	0.35	0.24	0.24	0.26	0.59	0.61	0.61	0.59	1.00	0.97	0.54
65	Georgetown	0	0	0.24	0.30	0.32	0.31	0.28	0.27	0.25	0.28	0.28	0.34	0.22	0	0.23
66	Gillihan	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
67	Ground Water Pumping Station	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
68	Hailey	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
69	Hazelton A	7.04	7.04	5.43	2.49	0.91	0	0	0	0.08	2.56	2.56	6.01	6.73	7.45	3.24
70	Hazelton B	6.61	6.61	5.15	2.36	0.67	0	0	0	0.06	2.23	2.23	5.64	6.41	6.97	3.03
71	Hettinger	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
72	Horseshoe Bend	8.79	8.79	7.55	3.91	2.78	3.50	3.86	4.65	5.89	8.81	8.81	9.93	9.80	9.22	6.56
73	Hutchinson Creek	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
74	James Boyd	0	0	0	0	0	0.37	0.34	0.58	0.69	0.81	0.81	0.50	0	0	0.27
75	James White	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.20	0.20	0.30	0.20	0.20	0.14
76	Jim Knight	0.36	0.36	0.25	0.25	0.25	0.09	0.09	0.10	0.25	0.25	0.25	0.25	0.37	0.36	0.24
77	John Day Creek	0.20	0.20	0.20	0.20	0.20	0.20	0.30	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.21
78	Juniper Ridge Hydro	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37
79	Kasel-Withersppon	0.90	0.90	0.94	0.60	0.36	0.19	0.15	0.16	0.27	0.36	0.36	0.76	0.85	0.78	0.53
80	Kaster Riverview	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
81	Koma Kulshan	4.60	4.60	4.30	6.40	8.00	6.10	3.90	3.80	4.40	6.90	6.90	9.40	10.4	8.20	6.38
82	Koyle Ranch Power	1.05	1.05	1.14	0.99	1.04	0.16	0.15	0.06	0.32	0.82	0.82	1.25	0.78	0.94	0.73
83	L & M Angus Ranch	0.23	0.23	0.28	0.32	0.51	0.50	0.41	0.42	0.45	0.40	0.40	0.35	0.27	0.27	0.37
84	Lacomb	0	0	0	0	0.21	0.97	0.22	0.89	0.89	1.05	1.05	0.95	0.88	0.42	0.54
85	Lake Creek (OR)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
86	Lake Oswego	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
87	Lateral #10	1.21	1.21	1.25	1.60	1.65	1.21	1.21	1.34	1.41	1.45	1.45	1.41	1.25	1.21	1.35
88	Le Moyne	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
89	Lee Tavenner	0.06	0.06	0.08	0.08	0.07	0.10	0.13	0.10	0.08	0.09	0.08	0.08	0.07	0.05	0.08
90	Little Butte Ranch	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
91	Little Mac	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
92	Little Wood River Ranch	1.94	1.94	0.21	0.20	0.21	0	0	0	1.61	1.66	1.66	1.61	2.00	1.94	0.95
93	Little Wood River Reservoir	0.73	0.73	0.44	0.42	0.44	0.20	0.20	0.22	0.44	0.45	0.45	0.44	0.75	0.73	0.46
94	Low line Canal Drop	7.82	7.82	7.50	7.26	7.50	0.63	0.63	0.70	5.28	5.45	5.45	5.28	8.08	7.82	5.35
95	Low Line Midway	2.00	2.00	0	0	0	0	0	0	0	0	0	0	2.00	2.00	0.50
96	Lower Low line	2.69	2.69	2.48	1.80	1.45	0	0	0.68	1.88	2.48	2.48	2.69	2.69	2.69	1.80
97	Loyd F. Fery Farms	0.03	0.03	0.04	0.03	0.03	0.03	0.04	0.04	0.02	0.04	0.04	0.03	0.03	0.04	0.03
98	LQ-LS Drains (Pigeon Cove)	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88
99	Lucky Peak	28.6	26.8	19.9	4.50	0	0.70	0	1.50	1.60	11.4	11.4	67.7	75.2	73.0	23.7
100	Magic Dam	6.82	6.82	4.40	0.49	0.17	0.10	0.25	0.15	0.86	2.99	2.99	8.25	9.08	8.96	3.56
101	Main Canal Headworks	20.4	20.4	12.2	5.20	0	0	0	0	2.80	13.6	13.6	18.2	21.2	23.6	9.82
102	Marsh Valley	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44
103	Meyers Falls	0.77	0.77	0.69	0.46	0.69	0.69	0.46	0.61	0.84	0.84	0.84	0.77	0.92	0.84	0.72
104	Meyers Falls 1910	0.23	0.23	0.21	0.14	0.21	0.21	0.14	0.19	0.26	0.26	0.26	0.23	0.28	0.26	0.22
105	Middle Fork Irrigation District	1.84	1.84	0.77	1.24	1.31	1.66	2.72	3.09	3.08	2.93	2.93	2.84	2.42	1.98	2.15
106	Mile 28	1.32	1.32	1.23	0.69	0.18	0	0	0	0	0.62	0.62	1.20	1.29	1.36	0.66
107	Mill Creek (Cove Hydro)	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
108	Minikahda	0	0	0	0	0.04	0.05	0.05	0.08	0.05	0.07	0.07	0.07	0	0.01	0.03
109	Mink Creek	1.18	1.18	0.83	0.62	0.56	0.50	0.40	0.39	0.25	0.41	0.41	1.65	2.69	1.61	0.93
110	Mitchell Butte	1.05	1.05	1.07	0.42	0	0	0	0	0.28	0.83	0.83	1.24	1.25	1.09	0.60
111	Mora Drop	1.90	1.90	1.90	0	0	0	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.42
112	Morse Creek	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
113	Mt. Tabor	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
114	Mud Creek	0.50	0.50	0.65	0.66	0.74	0.60	0.47	0.53	0.50	0.50	0.50	0.49	0.44	0.50	0.55
115	N-32 Canal	1.12	1.12	1.15	1.12	1.15	0	0	0	1.12	1.15	1.15	1.12	1.15	1.12	0.85
116	Nichols Gap	0	0	0	0	0.42	0.62	0.19	0.55	0.58	0.40	0.40	0.02	0.01	0	0.23
117	Nicholson	0.22	0.22	0.16	0.21	0.19	0.20	0.14	0.21	0.19	0.16	0.16	0.19	0.23	0.22	0.19

Table A-9: Regional: Small Hydro

Operating Year 2018 Water Year: 1937

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
118	North Fork Sprague	0.03	0.03	0.07	0.01	0	0.05	0.15	0.26	0.16	0.27	0.27	0.92	0.45	0.15	0.21
119	North Willow Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
120	O. J. Power Company	0.01	0.01	0.07	0.03	0.05	0.05	0.06	0.07	0.08	0.07	0.07	0.08	0.11	0.10	0.06
121	Odell Creek	0.03	0.03	0.04	0.04	0.01	0.03	0.02	0.03	0.04	0.05	0.05	0.01	0	0.03	0.03
122	Opal Springs	2.63	2.63	2.95	3.62	3.16	2.94	2.94	3.51	2.60	2.71	2.71	4.47	1.62	2.23	2.95
123	Orchard Avenue	0.79	0.79	0.79	0.79	0	0	0	0	0	0	0.79	0.79	0.79	0.79	0.43
124	Owyhee Dam	2.78	2.78	1.99	0.59	0	0	0.24	0.64	1.76	3.35	3.35	3.88	3.33	3.16	1.82
125	Owyhee Tunnel No 1	4.27	4.27	2.56	0.54	0	0	0	0	2.35	5.10	5.10	5.83	5.85	5.93	2.72
126	Pancheri	0	0	0.01	0	0	0.01	0	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
127	PEC Headworks	4.50	4.50	3.10	2.20	0	0	0	0	0.40	5.10	5.10	6.50	6.20	5.80	2.83
128	Phillips Ranch	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
129	Phillipsburg	0.03	0.03	0.04	0.04	0.03	0.05	0.07	0.05	0.04	0.04	0.04	0.04	0.03	0.03	0.04
130	Pine Creek	0.08	0.09	0.08	0.08	0.08	0.09	0.09	0.08	0.08	0.08	0.08	0.09	0.08	0.08	0.08
131	Portland Hydro Project	2.34	2.34	2.92	6.66	16.2	19.9	18.4	17.2	16.4	17.4	17.4	15.1	8.42	3.16	12.0
132	Portneuf River	0.24	0.24	0.11	0.05	0.10	0.11	0	0	0	0	0	0.22	0.58	0.38	0.15
133	Potholes East Canal	1.80	1.80	1.80	1.60	0	0	0	0	0.60	1.80	1.80	1.80	1.80	1.80	1.09
134	Preston	0.31	0.31	0.38	0.37	0.38	0.37	0.36	0.35	0.35	0.37	0.37	0.38	0.37	0.38	0.36
135	Pristine Springs	0.28	0.28	0.41	0.43	0.31	0.33	0.28	0.25	0.27	0.35	0.35	0.37	0.32	0.28	0.32
136	Quincy Chute	7.70	7.70	4.00	2.30	0	0	0	0	0.80	5.50	5.50	7.10	8.40	8.50	3.71
137	Ravenscroft Ranch	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35
138	Reynolds Irrigation District	0.15	0.15	0.25	0.24	0.25	0.24	0.24	0.26	0.20	0.21	0.21	0.20	0.16	0.15	0.21
139	Rim View	0.17	0.17	0.25	0.26	0.19	0.20	0.17	0.15	0.16	0.22	0.22	0.23	0.20	0.17	0.20
140	Rock Creek #1	1.13	1.13	1.63	1.73	1.24	1.33	1.11	1.00	1.08	1.42	1.42	1.48	1.29	1.13	1.30
141	Rock Creek No 2	1.82	1.82	1.84	1.89	1.87	1.87	0.63	0.40	1.63	1.87	1.87	1.87	1.87	1.64	1.61
142	Rocky Brook	0	0	0	0.04	0.21	0.56	0.58	0.42	0.47	0.46	0.46	0.20	0.09	0	0.25
143	Russell D. Smith	4.00	4.00	2.60	1.40	0	0	0	0	0.20	2.40	2.40	3.80	4.20	3.40	1.84
144	Sagebrush	0.40	0.40	0.26	0.25	0.26	0.08	0.08	0.09	0.26	0.26	0.26	0.26	0.41	0.40	0.25
145	Sahko	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
146	Schaffner	0.36	0.36	0.26	0.25	0.26	0.14	0.14	0.16	0.29	0.30	0.30	0.29	0.37	0.36	0.26
147	Shingle Creek	0.11	0.11	0.16	0.17	0.12	0.13	0.11	0.10	0.10	0.14	0.14	0.14	0.12	0.11	0.12
148	Shoshone	0.90	0.90	0.92	0.29	0.31	0.05	0.04	0.02	0.10	0.54	0.54	0.84	0.82	0.86	0.47
149	Skookumchuck	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
150	Smith Creek (Washington)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
151	Snake River Pottery	0.03	0.03	0.04	0.04	0.04	0.06	0.06	0.07	0.04	0.04	0.04	0.04	0.03	0.03	0.04
152	Snedigar Ranch	0.15	0.15	0.22	0.21	0.22	0.15	0.15	0.17	0.11	0.12	0.12	0.11	0.16	0.15	0.16
153	South Dry Creek	0.52	0.53	0.49	0.50	0	0	0	0	0.50	0.50	0.49	0.58	0.49	0.47	0.34
154	Spencer Lake Hydro	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
155	Spring Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
156	Stayton Hydro	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
157	Stevenson #1	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
158	Stevenson #2	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
159	Strawberry Creek (MT)	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.06	0.06	0.06	0.06	0.07	0.06	0.06	0.06
160	Summer Falls	78.8	78.8	48.4	21.6	0	0	0	0	4.80	50.0	50.0	71.4	81.0	87.4	37.2
161	Sunshine	0.10	0.10	0.06	0.06	0.06	0.04	0.04	0.05	0.07	0.07	0.07	0.07	0.10	0.10	0.07
162	Sygitowicz Creek	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
163	Thompson's Mills	0.01	0.01	0.01	0.03	0.05	0.06	0.05	0.06	0.06	0.07	0.07	0.05	0.07	0.03	0.05
164	Tiber Dam	7.04	7.04	5.43	2.49	0.91	0	0	0	0.08	2.56	2.56	6.01	6.73	7.45	3.24
165	Tieton Dam (Yakima)	7.81	7.81	7.81	7.81	0	0	0	0	0	0	7.81	7.81	7.81	7.81	4.26
166	Trinity	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
167	Twin Falls (WA)	5.00	5.00	0	1.20	9.60	7.90	7.40	4.80	7.80	14.8	14.8	13.2	24.3	18.7	9.57
168	Upper Pine Creek	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
169	Upriver Dam	3.40	3.40	3.40	4.70	6.70	13.4	14.4	13.0	13.8	12.9	12.9	11.2	11.6	8.40	9.73
170	Walla Walla	1.54	1.54	1.44	1.28	1.17	1.29	1.17	1.53	1.75	1.77	1.77	1.48	1.54	1.76	1.48
171	Water Street	0.02	0.02	0.09	0.14	0.16	0.15	0.10	0.12	0.12	0.16	0.16	0.14	0.14	0.07	0.12
172	Weeks Falls	0.80	0.80	0	0.20	1.70	1.80	1.20	0.60	1.20	2.60	2.60	2.40	4.40	3.50	1.70
173	White Ranch	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
174	White Water Ranch	0.07	0.07	0.08	0.08	0.08	0.10	0.10	0.11	0.08	0.08	0.08	0.08	0.07	0.07	0.08
175	Whitefish	0.12	0.12	0.20	0.11	0.11	0.11	0.11	0.11	0.12	0.11	0.12	0.11	0.12	0.20	0.13
176	Wilson Lake	7.07	7.07	5.27	2.00	0.25	0	0	0	0.03	2.32	2.32	6.05	6.83	7.63	3.14

Table A-9: Regional: Small Hydro

Operating Year 2018 Water Year: 1937

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
177	Wisconsin Noble	0.04	0.04	0.05	0.05	0.04	0.06	0.08	0.06	0.05	0.05	0.05	0.05	0.04	0.03	0.05
178	Wolf Creek	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
179	Woods Creek	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
180	Yakama Drop 2	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
181	Yakama Drop 3	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
182	Youngs Creek	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
183	Zena Creek Ranch	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
	Total Small Hydro															
184	Cooperative	3.80	3.80	3.78	3.53	3.43	3.54	3.42	3.78	4.01	4.02	4.03	3.73	3.80	4.10	3.75
185	Federal Entities	2.83	2.83	2.83	2.87	3.04	3.39	3.41	3.25	3.30	3.29	3.29	3.03	2.92	2.83	3.08
186	Investor Owned Utilities	164	164	138	112	120	111	104	109	130	177	179	215	227	201	151
187	Marketer	7.81	7.81	7.81	7.81	0	0	0	0	0	0	7.81	7.81	7.81	7.81	4.26
188	Municipality	138	136	88.6	37.4	2.48	3.18	2.48	3.98	12.5	83.1	83.1	167	188	194	77.1
189	Public Utility District	17.9	17.9	12.7	10.1	5.38	5.38	5.38	5.38	6.58	16.1	16.1	19.1	20.2	20.0	12.0
190	**Total Small Hydro**	**334**	**332**	**253**	**174**	**134**	**126**	**119**	**125**	**157**	**284**	**293**	**416**	**449**	**430**	**251**

Table A-9: Regional: Small Hydro

Operating Year 2019 Water Year: 1937

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Small Hydro															
1	Albany-Millersburg Hydro Project	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
2	Amy Ranch	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33
3	Arena Drop	0.31	0.31	0.31	0	0	0	0	0	0	0.31	0.31	0.31	0.31	0.31	0.16
4	Barber Dam	2.38	2.38	1.93	0.84	0.31	0.97	2.16	2.64	3.28	3.22	3.22	3.14	3.24	3.28	2.28
5	Barney Creek	0.02	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.02	0.01	0.01	0.02
6	Beaverton	0	0	0	0.02	0.05	0.05	0.05	0.01	0	0.03	0.03	0.05	0	0	0.02
7	Bell Mountain	0.12	0.12	0.10	0.21	0.05	0.12	0.10	0.13	0.13	0.11	0.11	0.13	0.19	0.13	0.13
8	Big Elk Creek YMCA Camp	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	Big Sheep Creek	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60
10	Bigg's Creek (Pickering Micro)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	Billingsley Creek	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
12	Birch Creek Diversion Dam	0.04	0.04	0.05	0.05	0.06	0.06	0.04	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.05
13	Birch Creek (Gooding,ID)	1.25	1.25	1.11	1.00	1.14	1.10	0.31	1.19	1.73	1.63	1.63	1.60	1.34	1.19	1.21
14	Black Canyon #3	0.11	0.11	0.06	0.05	0.06	0	0	0	0.09	0.09	0.09	0.09	0.11	0.11	0.06
15	Black Creek	3.08	3.08	2.78	1.85	2.78	2.78	3.39	3.39	3.08	3.70	3.39	3.08	3.08	2.78	2.96
16	Blind Canyon	0.73	0.73	1.09	0.89	0.15	0	0	0	0	0.57	0.57	1.61	0.97	0.73	0.57
17	Boulder Creek	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
18	Box Canyon Springs	0.42	0.42	0.40	0.39	0.40	0.31	0.31	0.34	0.28	0.29	0.29	0.28	0.43	0.42	0.36
19	Briggs Creek	0.59	0.59	0.61	0.59	0.61	0.59	0.59	0.65	0.59	0.61	0.61	0.59	0.61	0.59	0.60
20	Briggs Project	0.20	0.20	0.12	0.21	0.21	0.22	0.13	0.20	0.22	0.13	0.13	0.20	0.19	0.12	0.18
21	Broadwater	1.11	1.13	1.55	1.91	2.06	1.64	1.58	1.74	1.80	2.76	2.70	3.22	2.74	1.99	2.01
22	Buffalo Hydro	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
23	Burr & Bouchard	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	Burton Creek	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
25	Bypass	8.26	8.26	6.54	2.82	0.99	0	0	0.06	2.94	2.94	7.01	8.16	8.68	8.26	4.33
26	Canyon Creek	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
27	Canyon Springs	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.10	0.09	0.09	0.09	0.09	0.09	0.09	0.09
28	Carlton	0	0	0	0	0.01	0.05	0.08	0.08	0.06	0.08	0.08	0.04	0.02	0	0.04
29	Cascade Creek	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
30	Cedar Draw Creek	0.30	0.30	0.92	0.89	0.92	1.16	1.16	1.28	0.42	0.43	0.43	0.42	0.31	0.30	0.71
31	Central Oregon Siphon	3.10	3.10	3.71	3.47	0.02	0.69	0	0.40	0.87	0.83	0.83	4.47	3.83	4.09	2.14
32	Cereghino	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55
33	Chester Hydroelectic Plant	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92
34	Clear Springs Trout	0.43	0.43	0.44	0.52	0.60	0.56	0.41	0.47	0.35	0.35	0.35	0.35	0.36	0.43	0.44
35	Company Creek	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
36	Cornelius	0	0	0	0	0	0.02	0.01	0.01	0.01	0	0	0	0	0	0
37	Cowiche	0.80	0.80	0.80	0.80	0	0	0	0	0	0	0.80	0.80	0.80	0.80	0.44
38	Crystal Springs	1.34	1.34	1.56	1.51	1.56	0.54	0.54	0.59	0.83	0.86	0.86	0.83	1.38	1.34	1.07
39	Curry Cattle Co.	0.21	0.21	0.22	0.14	0.08	0.05	0.04	0.04	0.07	0.09	0.09	0.18	0.20	0.18	0.12
40	Curtiss Livestock	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01
41	Cushman North Fork	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25
42	D. Wiggins	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43	Deep Creek	0.01	0.01	0.01	0	0	0	0	0	0	0.01	0.01	0.02	0.03	0.02	0.01
44	Denny Creek	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
45	Dietrich Drop	4.67	4.67	3.56	3.09	1.37	0	0	0	0	3.09	3.09	4.67	4.67	4.52	2.48
46	Donald Jenni	0.07	0.08	0.07	0.07	0.07	0.08	0.08	0.07	0.07	0.07	0.07	0.08	0.07	0.07	0.07
47	Dry Creek	0.94	0.94	1.00	0.80	0.43	0.33	0.27	0.37	0.41	0.41	0.90	2.66	2.09	0.94	0.91
48	Dworshak-Clearwater Hatchery	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63
49	Ebey Hill (Kevin Duncan)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50	Elk Creek	1.19	1.19	0.01	0.01	0.01	0.10	0.10	0.11	1.00	1.04	1.04	1.00	1.23	1.19	0.59
51	Eltopia Branch Canal 4.6	1.80	1.80	1.20	0.60	0	0	0	0	0	1.40	1.40	2.00	2.00	2.20	0.94
52	Esquatzel Small Hydro	0.90	0.90	0.80	0.80	0.60	0.60	0.60	0.60	0.60	0.70	0.70	0.70	0.80	0.90	0.72
53	Falls Creek (Or)	0	0	0	0	1.88	3.08	0.91	2.72	2.66	4.35	4.35	4.11	3.82	0	1.95
54	Falls Creek (Wa)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
55	Falls River Hydro	6.46	6.46	6.29	5.72	5.58	4.96	4.18	3.75	3.79	6.22	6.22	7.91	8.55	7.08	5.88
56	Farmers Irr Dist Proj No 2	0.35	0.35	0.45	0.77	2.02	2.00	1.34	2.88	2.04	2.19	2.19	2.96	0.52	0.45	1.49
57	Farmers Irr Dist Proj No 3	0.21	0.21	0.27	0.46	1.21	1.20	0.81	1.73	1.22	1.32	1.32	1.77	0.31	0.27	0.89
58	Faulkner Ranch	0.82	0.82	0.71	0.69	0.71	0.30	0.30	0.34	0.54	0.56	0.56	0.54	0.85	0.82	0.60

Table A-9: Regional: Small Hydro

Operating Year 2019 Water Year: 1937

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
59	Fisheries Development #1	0.24	0.24	0.26	0.22	0.27	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.24	0.23	0.25
60	Flying W	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61	Ford	0	0	0	0	0.30	0.50	0.90	0.90	1.10	1.10	1.10	0.70	0.30	0.10	0.49
62	Forgy	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
63	Galesville	0.63	0.63	0.38	0.18	0.17	0.26	0.01	0.25	0.35	0.43	0.43	0.33	0.35	0.54	0.32
64	Geo-Bon #2	0.97	0.97	0.35	0.34	0.35	0.24	0.24	0.26	0.59	0.61	0.61	0.59	1.00	0.97	0.54
65	Georgetown	0	0	0.24	0.30	0.32	0.31	0.28	0.27	0.25	0.28	0.28	0.34	0.22	0	0.23
66	Gillihan	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
67	Ground Water Pumping Station	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
68	Hailey	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
69	Hazelton A	7.04	7.04	5.43	2.49	0.91	0	0	0	0.08	2.56	2.56	6.01	6.73	7.45	3.24
70	Hazelton B	6.61	6.61	5.15	2.36	0.67	0	0	0	0.06	2.23	2.23	5.64	6.41	6.97	3.03
71	Hettinger	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
72	Horseshoe Bend	8.79	8.79	7.55	3.91	2.78	3.50	3.86	4.65	5.89	8.81	8.81	9.93	9.80	9.22	6.56
73	Hutchinson Creek	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
74	James Boyd	0	0	0	0	0	0.37	0.34	0.58	0.69	0.81	0.81	0.50	0	0	0.27
75	James White	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.20	0.20	0.30	0.20	0.20	0.14
76	Jim Knight	0.36	0.36	0.25	0.25	0.25	0.09	0.09	0.10	0.25	0.25	0.25	0.25	0.37	0.36	0.24
77	John Day Creek	0.20	0.20	0.20	0.20	0.20	0.20	0.30	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.21
78	Juniper Ridge Hydro	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37
79	Kasel-Withersppon	0.90	0.90	0.94	0.60	0.36	0.19	0.15	0.16	0.27	0.36	0.36	0.76	0.85	0.78	0.53
80	Kaster Riverview	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
81	Koma Kulshan	4.60	4.60	4.30	6.40	8.00	6.10	3.90	3.80	4.40	6.90	6.90	9.40	10.4	8.20	6.38
82	Koyle Ranch Power	1.05	1.05	1.14	0.99	1.04	0.16	0.15	0.06	0.32	0.82	0.82	1.25	0.78	0.94	0.73
83	L & M Angus Ranch	0.23	0.23	0.28	0.32	0.51	0.50	0.41	0.42	0.45	0.40	0.40	0.35	0.27	0.27	0.37
84	Lacomb	0	0	0	0	0.21	0.97	0.22	0.89	0.89	1.05	1.05	0.95	0.88	0.42	0.54
85	Lake Creek (OR)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
86	Lake Oswego	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
87	Lateral #10	1.21	1.21	1.25	1.60	1.65	1.21	1.21	1.34	1.41	1.45	1.45	1.41	1.25	1.21	1.35
88	Le Moyne	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
89	Lee Tavenner	0.06	0.06	0.08	0.08	0.07	0.10	0.13	0.10	0.08	0.09	0.08	0.08	0.07	0.05	0.08
90	Little Butte Ranch	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
91	Little Mac	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
92	Little Wood River Ranch	1.94	1.94	0.21	0.20	0.21	0	0	0	1.61	1.66	1.66	1.61	2.00	1.94	0.95
93	Little Wood River Reservoir	0.73	0.73	0.44	0.42	0.44	0.20	0.20	0.22	0.44	0.45	0.45	0.44	0.75	0.73	0.46
94	Low line Canal Drop	7.82	7.82	7.50	7.26	7.50	0.63	0.63	0.70	5.28	5.45	5.45	5.28	8.08	7.82	5.35
95	Low Line Midway	2.00	2.00	0	0	0	0	0	0	0	0	0	0	2.00	2.00	0.50
96	Lower Low line	2.69	2.69	2.48	1.80	1.45	0	0	0.68	1.88	2.48	2.48	2.69	2.69	2.69	1.80
97	Loyd F. Fery Farms	0.03	0.03	0.04	0.03	0.03	0.03	0.04	0.04	0.02	0.04	0.04	0.03	0.03	0.04	0.03
98	LQ-LS Drains (Pigeon Cove)	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88
99	Lucky Peak	28.6	26.8	19.9	4.50	0	0.70	0	1.50	1.60	11.4	11.4	67.7	75.2	73.0	23.7
100	Magic Dam	6.82	6.82	4.40	0.49	0.17	0.10	0.25	0.15	0.86	2.99	2.99	8.25	9.08	8.96	3.56
101	Main Canal Headworks	20.4	20.4	12.2	5.20	0	0	0	0	2.80	13.6	13.6	18.2	21.2	23.6	9.82
102	Marsh Valley	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44
103	Meyers Falls	0.77	0.77	0.69	0.46	0.69	0.69	0.46	0.61	0.84	0.84	0.84	0.77	0.92	0.84	0.72
104	Meyers Falls 1910	0.23	0.23	0.21	0.14	0.21	0.21	0.14	0.19	0.26	0.26	0.26	0.23	0.28	0.26	0.22
105	Middle Fork Irrigation District	1.84	1.84	0.77	1.24	1.31	1.66	2.72	3.09	3.08	2.93	2.93	2.84	2.42	1.98	2.15
106	Mile 28	1.32	1.32	1.23	0.69	0.18	0	0	0	0	0.62	0.62	1.20	1.29	1.36	0.66
107	Mill Creek (Cove Hydro)	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
108	Minikahda	0	0	0	0	0.04	0.05	0.05	0.08	0.05	0.07	0.07	0.07	0	0.01	0.03
109	Mink Creek	1.18	1.18	0.83	0.62	0.56	0.50	0.40	0.39	0.25	0.41	0.41	1.65	2.69	1.61	0.93
110	Mitchell Butte	1.05	1.05	1.07	0.42	0	0	0	0	0.28	0.83	0.83	1.24	1.25	1.09	0.60
111	Mora Drop	1.90	1.90	1.90	0	0	0	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.42
112	Morse Creek	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
113	Mt. Tabor	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
114	Mud Creek	0.50	0.50	0.65	0.66	0.74	0.60	0.47	0.53	0.50	0.50	0.50	0.49	0.44	0.50	0.55
115	N-32 Canal	1.12	1.12	1.15	1.12	1.15	0	0	0	1.12	1.15	1.15	1.12	1.15	1.12	0.85
116	Nichols Gap	0	0	0	0	0.42	0.62	0.19	0.55	0.58	0.40	0.40	0.02	0.01	0	0.23
117	Nicholson	0.22	0.22	0.16	0.21	0.19	0.20	0.14	0.21	0.19	0.16	0.16	0.19	0.23	0.22	0.19

Table A-9: Regional: Small Hydro

Operating Year 2019 Water Year: 1937

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
118	North Fork Sprague	0.03	0.03	0.07	0.01	0	0.05	0.15	0.26	0.16	0.27	0.27	0.92	0.45	0.15	0.21
119	North Willow Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
120	O. J. Power Company	0.01	0.01	0.07	0.03	0.05	0.05	0.06	0.07	0.08	0.07	0.07	0.08	0.11	0.10	0.06
121	Odell Creek	0.03	0.03	0.04	0.04	0.01	0.03	0.02	0.03	0.04	0.05	0.05	0.01	0	0.03	0.03
122	Opal Springs	2.63	2.63	2.95	3.62	3.16	2.94	2.94	3.51	2.60	2.71	2.71	4.47	1.62	2.23	2.95
123	Orchard Avenue	0.79	0.79	0.79	0.79	0	0	0	0	0	0	0.79	0.79	0.79	0.79	0.43
124	Owyhee Dam	2.78	2.78	1.99	0.59	0	0	0.24	0.64	1.76	3.35	3.35	3.88	3.33	3.16	1.82
125	Owyhee Tunnel No 1	4.27	4.27	2.56	0.54	0	0	0	0	2.35	5.10	5.10	5.83	5.85	5.93	2.72
126	Pancheri	0	0	0.01	0	0	0.01	0	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
127	PEC Headworks	4.50	4.50	3.10	2.20	0	0	0	0	0.40	5.10	5.10	6.50	6.20	5.80	2.83
128	Phillips Ranch	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
129	Phillipsburg	0.03	0.03	0.04	0.04	0.03	0.05	0.07	0.05	0.04	0.04	0.04	0.04	0.03	0.03	0.04
130	Pine Creek	0.08	0.09	0.08	0.08	0.08	0.09	0.09	0.08	0.08	0.08	0.08	0.09	0.08	0.08	0.08
131	Portland Hydro Project	2.34	2.34	2.92	6.66	16.2	19.9	18.4	17.2	16.4	17.4	17.4	15.1	8.42	3.16	12.0
132	Portneuf River	0.24	0.24	0.11	0.05	0.10	0.11	0	0	0	0	0	0.22	0.58	0.38	0.15
133	Potholes East Canal	1.80	1.80	1.80	1.60	0	0	0	0	0.60	1.80	1.80	1.80	1.80	1.80	1.09
134	Preston	0.31	0.31	0.38	0.37	0.38	0.37	0.36	0.35	0.35	0.37	0.37	0.38	0.37	0.38	0.36
135	Pristine Springs	0.28	0.28	0.41	0.43	0.31	0.33	0.28	0.25	0.27	0.35	0.35	0.37	0.32	0.28	0.32
136	Quincy Chute	7.70	7.70	4.00	2.30	0	0	0	0	0.80	5.50	5.50	7.10	8.40	8.50	3.71
137	Ravenscroft Ranch	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35
138	Reynolds Irrigation District	0.15	0.15	0.25	0.24	0.25	0.24	0.24	0.26	0.20	0.21	0.21	0.20	0.16	0.15	0.21
139	Rim View	0.17	0.17	0.25	0.26	0.19	0.20	0.17	0.15	0.16	0.22	0.22	0.23	0.20	0.17	0.20
140	Rock Creek #1	1.13	1.13	1.63	1.73	1.24	1.33	1.11	1.00	1.08	1.42	1.42	1.48	1.29	1.13	1.30
141	Rock Creek No 2	1.82	1.82	1.84	1.89	1.87	1.87	0.63	0.40	1.63	1.87	1.87	1.87	1.87	1.64	1.61
142	Rocky Brook	0	0	0	0.04	0.21	0.56	0.58	0.42	0.47	0.46	0.46	0.20	0.09	0	0.25
143	Russell D. Smith	4.00	4.00	2.60	1.40	0	0	0	0	0.20	2.40	2.40	3.80	4.20	3.40	1.84
144	Sagebrush	0.40	0.40	0.26	0.25	0.26	0.08	0.08	0.09	0.26	0.26	0.26	0.26	0.41	0.40	0.25
145	Sahko	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
146	Schaffner	0.36	0.36	0.26	0.25	0.26	0.14	0.14	0.16	0.29	0.30	0.30	0.29	0.37	0.36	0.26
147	Shingle Creek	0.11	0.11	0.16	0.17	0.12	0.13	0.11	0.10	0.10	0.14	0.14	0.14	0.12	0.11	0.12
148	Shoshone	0.90	0.90	0.92	0.29	0.31	0.05	0.04	0.02	0.10	0.54	0.54	0.84	0.82	0.86	0.47
149	Skookumchuck	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
150	Smith Creek (Washington)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
151	Snake River Pottery	0.03	0.03	0.04	0.04	0.04	0.06	0.06	0.07	0.04	0.04	0.04	0.04	0.03	0.03	0.04
152	Snedigar Ranch	0.15	0.15	0.22	0.21	0.22	0.15	0.15	0.17	0.11	0.12	0.12	0.11	0.16	0.15	0.16
153	South Dry Creek	0.52	0.53	0.49	0.50	0	0	0	0	0.50	0.50	0.49	0.58	0.49	0.47	0.34
154	Spencer Lake Hydro	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
155	Spring Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
156	Stayton Hydro	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
157	Stevenson #1	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
158	Stevenson #2	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
159	Strawberry Creek (MT)	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.06	0.06	0.06	0.06	0.07	0.06	0.06	0.06
160	Summer Falls	78.8	78.8	48.4	21.6	0	0	0	0	4.80	50.0	50.0	71.4	81.0	87.4	37.2
161	Sunshine	0.10	0.10	0.06	0.06	0.06	0.04	0.04	0.05	0.07	0.07	0.07	0.07	0.10	0.10	0.07
162	Sygitowicz Creek	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
163	Thompson's Mills	0.01	0.01	0.01	0.03	0.05	0.06	0.05	0.06	0.06	0.07	0.07	0.05	0.07	0.03	0.05
164	Tiber Dam	7.04	7.04	5.43	2.49	0.91	0	0	0	0.08	2.56	2.56	6.01	6.73	7.45	3.24
165	Tieton Dam (Yakima)	7.81	7.81	7.81	7.81	0	0	0	0	0	0	7.81	7.81	7.81	7.81	4.26
166	Trinity	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
167	Twin Falls (WA)	5.00	5.00	0	1.20	9.60	7.90	8.30	8.30	8.30	8.30	8.30	8.30	8.30	18.7	7.69
168	Upper Pine Creek	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
169	Upriver Dam	3.40	3.40	3.40	4.70	6.70	13.4	14.4	13.0	13.8	12.9	12.9	11.2	11.6	8.40	9.73
170	Walla Walla	1.54	1.54	1.44	1.28	1.17	1.29	1.17	1.53	1.75	1.77	1.77	1.48	1.54	1.76	1.48
171	Water Street	0.02	0.02	0.09	0.14	0.16	0.15	0.10	0.12	0.12	0.16	0.16	0.14	0.14	0.07	0.12
172	Weeks Falls	0.80	0.80	0	0.20	1.70	1.80	1.20	0.60	1.20	2.60	2.60	2.40	4.40	3.50	1.70
173	White Ranch	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
174	White Water Ranch	0.07	0.07	0.08	0.08	0.08	0.10	0.10	0.11	0.08	0.08	0.08	0.08	0.07	0.07	0.08
175	Whitefish	0.12	0.12	0.20	0.12	0.11	0.11	0.11	0.11	0.11	0.12	0.12	0.11	0.11	0.20	0.13
176	Wilson Lake	7.07	7.07	5.27	2.00	0.25	0	0	0	0.03	2.32	2.32	6.05	6.83	7.63	3.14

Table A-9: Regional: Small Hydro

Operating Year 2019 Water Year: 1937

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
177	Wisconsin Noble	0.04	0.04	0.05	0.05	0.04	0.06	0.08	0.06	0.05	0.05	0.05	0.05	0.04	0.03	0.05
178	Wolf Creek	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
179	Woods Creek	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
180	Yakama Drop 2	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
181	Yakama Drop 3	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
182	Youngs Creek	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
183	Zena Creek Ranch	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
	Total Small Hydro															
184	Cooperative	3.80	3.80	3.78	3.53	3.43	3.54	3.42	3.78	4.01	4.03	4.03	3.73	3.80	4.10	3.75
185	Federal Entities	2.83	2.83	2.83	2.87	3.04	3.39	3.41	3.25	3.30	3.29	3.29	3.03	2.92	2.83	3.08
186	Investor Owned Utilities	164	164	138	112	120	111	105	112	134	171	177	213	211	200	150
187	Marketer	7.81	7.81	7.81	7.81	0	0	0	0	0	0	7.81	7.81	7.81	7.81	4.26
188	Municipality	138	136	88.6	37.4	2.48	3.18	2.48	3.98	12.5	83.1	83.1	167	188	194	77.1
189	Public Utility District	17.9	17.9	12.7	10.1	5.38	5.38	5.38	5.38	6.58	16.1	16.1	19.1	20.2	20.0	12.0
190	**Total Small Hydro**	**334**	**332**	**253**	**174**	**134**	**127**	**119**	**129**	**160**	**277**	**291**	**414**	**433**	**429**	**250**

Table A-9: Regional: Small Hydro

Operating Year 2020 Water Year: 1937

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Small Hydro															
1	Albany-Millersburg Hydro Project	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
2	Amy Ranch	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33
3	Arena Drop	0.31	0.31	0.31	0	0	0	0	0	0	0.31	0.31	0.31	0.31	0.31	0.16
4	Barber Dam	2.38	2.38	1.93	0.84	0.31	0.97	2.16	2.64	3.28	3.22	3.22	3.14	3.24	3.28	2.28
5	Barney Creek	0.02	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.02	0.01	0.01	0.02
6	Beaverton	0	0	0	0.02	0.05	0.05	0.05	0.01	0	0.03	0.03	0.05	0	0	0.02
7	Bell Mountain	0.12	0.12	0.10	0.21	0.05	0.12	0.10	0.13	0.13	0.11	0.11	0.13	0.19	0.13	0.13
8	Big Elk Creek YMCA Camp	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	Big Sheep Creek	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60
10	Bigg's Creek (Pickering Micro)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	Billingsley Creek	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
12	Birch Creek Diversion Dam	0.04	0.04	0.05	0.05	0.06	0.06	0.04	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.05
13	Birch Creek (Gooding,ID)	1.25	1.25	1.11	1.00	1.14	1.10	0.31	1.19	1.73	1.63	1.63	1.60	1.34	1.19	1.21
14	Black Canyon #3	0.11	0.11	0.06	0.05	0.06	0	0	0	0.09	0.09	0.09	0.09	0.11	0.11	0.06
15	Black Creek	3.08	3.08	2.78	1.85	2.78	2.78	3.39	3.39	3.08	3.70	3.39	3.08	3.08	2.78	2.96
16	Blind Canyon	0.73	0.73	1.09	0.89	0.15	0	0	0	0	0.57	0.57	1.61	0.97	0.73	0.56
17	Boulder Creek	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
18	Box Canyon Springs	0.42	0.42	0.40	0.39	0.40	0.31	0.31	0.34	0.28	0.29	0.29	0.28	0.43	0.42	0.36
19	Briggs Creek	0.59	0.59	0.61	0.59	0.61	0.59	0.59	0.65	0.59	0.61	0.61	0.59	0.61	0.59	0.60
20	Briggs Project	0.20	0.20	0.12	0.21	0.21	0.22	0.13	0.20	0.22	0.13	0.13	0.20	0.19	0.12	0.18
21	Broadwater	1.11	1.13	1.55	1.91	2.06	1.64	1.58	1.74	1.80	2.76	2.70	3.22	2.74	1.99	2.01
22	Buffalo Hydro	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
23	Burr & Bouchard	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	Burton Creek	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
25	Bypass	8.26	6.54	2.82	0.99	0	0	0	0	0.06	2.94	2.94	7.01	8.16	8.68	3.18
26	Canyon Creek	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
27	Canyon Springs	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.10	0.09	0.09	0.09	0.09	0.09	0.09	0.09
28	Carlton	0	0	0	0	0.01	0.05	0.08	0.08	0.06	0.08	0.08	0.04	0.02	0	0.04
29	Cascade Creek	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
30	Cedar Draw Creek	0.30	0.30	0.92	0.89	0.92	1.16	1.16	1.28	0.42	0.43	0.43	0.42	0.31	0.30	0.71
31	Central Oregon Siphon	3.10	3.10	3.71	3.47	0.02	0.69	0	0.40	0.87	0.83	0.83	4.47	3.83	4.09	2.13
32	Cereghino	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55
33	Chester Hydroelectic Plant	1.92	1.92	1.92	1.92	1.92	1.92	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91
34	Clear Springs Trout	0.43	0.43	0.44	0.52	0.60	0.56	0.41	0.47	0.35	0.35	0.35	0.35	0.36	0.43	0.44
35	Company Creek	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
36	Cornelius	0	0	0	0	0	0.02	0.01	0.01	0.01	0	0	0	0	0	0
37	Cowiche	0.80	0.80	0.80	0.80	0	0	0	0	0	0	0.80	0.80	0.80	0.80	0.44
38	Crystal Springs	1.34	1.34	1.56	1.51	1.56	0.54	0.54	0.59	0.83	0.86	0.86	0.83	1.38	1.34	1.07
39	Curry Cattle Co.	0.21	0.21	0.22	0.14	0.08	0.05	0.04	0.04	0.07	0.09	0.09	0.18	0.20	0.18	0.12
40	Curtiss Livestock	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01
41	Cushman North Fork	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25
42	D. Wiggins	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43	Deep Creek	0.01	0.01	0.01	0	0	0	0	0	0	0.01	0.01	0.02	0.03	0.02	0.01
44	Denny Creek	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
45	Dietrich Drop	4.67	4.67	3.56	3.09	1.37	0	0	0	0	3.09	3.09	4.67	4.67	4.52	2.47
46	Donald Jenni	0.07	0.08	0.07	0.07	0.07	0.08	0.08	0.07	0.07	0.07	0.07	0.08	0.07	0.07	0.07
47	Dry Creek	0.94	1.00	0.80	0.43	0.33	0.27	0.33	0.27	0.37	0.41	0.41	0.90	2.66	2.09	0.82
48	Dworshak-Clearwater Hatchery	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63
49	Ebey Hill (Kevin Duncan)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50	Elk Creek	1.19	1.19	0.01	0.01	0.01	0.10	0.10	0.11	1.00	1.04	1.04	1.00	1.23	1.19	0.59
51	Eltopia Branch Canal 4.6	1.80	1.80	1.20	0.60	0	0	0	0	0	1.40	1.40	2.00	2.00	2.20	0.94
52	Esquatzel Small Hydro	0.90	0.90	0.80	0.80	0.60	0.60	0.60	0.60	0.60	0.70	0.70	0.70	0.80	0.90	0.72
53	Falls Creek (Or)	0	0	0	0	1.88	3.08	0.91	2.72	2.66	4.35	4.35	4.11	3.82	0	1.95
54	Falls Creek (Wa)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
55	Falls River Hydro	6.46	6.46	6.29	5.72	5.58	4.96	4.18	3.75	3.79	6.22	6.22	7.91	8.55	7.08	5.88
56	Farmers Irr Dist Proj No 2	0.35	0.35	0.45	0.77	2.02	2.00	1.34	2.88	2.04	2.19	2.19	2.96	0.52	0.45	1.49
57	Farmers Irr Dist Proj No 3	0.21	0.21	0.27	0.46	1.21	1.20	0.81	1.73	1.22	1.32	1.32	1.77	0.31	0.27	0.90
58	Faulkner Ranch	0.82	0.82	0.71	0.69	0.71	0.30	0.30	0.34	0.54	0.56	0.56	0.54	0.85	0.82	0.60

Table A-9: Regional: Small Hydro

Operating Year 2020 Water Year: 1937

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
59	Fisheries Development #1	0.24	0.24	0.26	0.22	0.27	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.24	0.23	0.25
60	Flying W	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61	Ford	0	0	0	0	0.30	0.50	0.90	0.90	1.10	1.10	1.10	0.70	0.30	0.10	0.49
62	Forgy	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
63	Galesville	0.63	0.63	0.38	0.18	0.17	0.26	0.01	0.25	0.35	0.43	0.43	0.33	0.35	0.54	0.32
64	Geo-Bon #2	0.97	0.97	0.35	0.34	0.35	0.24	0.24	0.26	0.59	0.61	0.61	0.59	1.00	0.97	0.54
65	Georgetown	0	0	0.24	0.30	0.32	0.31	0.28	0.27	0.25	0.28	0.28	0.34	0.22	0	0.23
66	Gillihan	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
67	Ground Water Pumping Station	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
68	Hailey	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
69	Hazelton A	7.04	7.04	5.43	2.49	0.91	0	0	0	0.08	2.56	2.56	6.01	6.73	7.45	3.23
70	Hazelton B	6.61	6.61	5.15	2.36	0.67	0	0	0	0.06	2.23	2.23	5.64	6.41	6.97	3.02
71	Hettinger	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
72	Horseshoe Bend	8.79	8.79	7.55	3.91	2.78	3.50	3.86	4.65	5.89	8.81	8.81	9.93	9.80	9.22	6.56
73	Hutchinson Creek	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
74	James Boyd	0	0	0	0	0	0.37	0.34	0.58	0.69	0.81	0.81	0.50	0	0	0.27
75	James White	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.20	0.20	0.30	0.20	0.20	0.14
76	Jim Knight	0.36	0.36	0.25	0.25	0.25	0.09	0.09	0.10	0.25	0.25	0.25	0.25	0.37	0.36	0.24
77	John Day Creek	0.20	0.20	0.20	0.20	0.20	0.20	0.30	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.21
78	Juniper Ridge Hydro	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37
79	Kasel-Withersppon	0.90	0.90	0.94	0.60	0.36	0.19	0.15	0.16	0.27	0.36	0.36	0.76	0.85	0.78	0.53
80	Kaster Riverview	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
81	Koma Kulshan	4.60	4.60	4.30	6.40	8.00	6.10	3.90	3.80	4.40	6.90	6.90	9.40	10.4	8.20	6.37
82	Koyle Ranch Power	1.05	1.05	1.14	0.99	1.04	0.16	0.15	0.06	0.32	0.82	0.82	1.25	0.78	0.94	0.73
83	L & M Angus Ranch	0.23	0.23	0.28	0.32	0.51	0.50	0.41	0.42	0.45	0.40	0.40	0.35	0.27	0.27	0.37
84	Lacomb	0	0	0	0	0.21	0.97	0.22	0.89	0.89	1.05	1.05	0.95	0.88	0.42	0.54
85	Lake Creek (OR)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
86	Lake Oswego	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
87	Lateral #10	1.21	1.21	1.25	1.60	1.65	1.21	1.21	1.34	1.41	1.45	1.45	1.41	1.25	1.21	1.35
88	Le Moyne	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
89	Lee Tavenner	0.06	0.06	0.08	0.08	0.07	0.10	0.13	0.10	0.08	0.09	0.08	0.08	0.07	0.05	0.08
90	Little Butte Ranch	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
91	Little Mac	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
92	Little Wood River Ranch	1.94	1.94	0.21	0.20	0.21	0	0	0	1.61	1.66	1.66	1.61	2.00	1.94	0.95
93	Little Wood River Reservoir	0.73	0.73	0.44	0.42	0.44	0.20	0.20	0.22	0.44	0.45	0.45	0.44	0.75	0.73	0.46
94	Low line Canal Drop	7.82	7.82	7.50	7.26	7.50	0.63	0.63	0.70	5.28	5.45	5.45	5.28	8.08	7.82	5.33
95	Low Line Midway	2.00	2.00	0	0	0	0	0	0	0	0	0	0	2.00	2.00	0.50
96	Lower Low line	2.69	2.69	2.48	1.80	1.45	0	0	0.68	1.88	2.48	2.48	2.69	2.69	2.69	1.80
97	Loyd F. Fery Farms	0.03	0.03	0.04	0.03	0.03	0.03	0.04	0.04	0.02	0.04	0.04	0.03	0.03	0.04	0.03
98	LQ-LS Drains (Pigeon Cove)	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88
99	Lucky Peak	28.6	26.8	19.9	4.50	0	0.70	0	1.50	1.60	11.4	11.4	67.7	75.2	73.0	23.7
100	Magic Dam	6.82	6.82	4.40	0.49	0.17	0.10	0.25	0.15	0.86	2.99	2.99	8.25	9.08	8.96	3.55
101	Main Canal Headworks	20.4	20.4	12.2	5.20	0	0	0	0	2.80	13.6	13.6	18.2	21.2	23.6	9.80
102	Marsh Valley	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44
103	Meyers Falls	0.77	0.77	0.69	0.46	0.69	0.69	0.46	0.61	0.84	0.84	0.84	0.77	0.92	0.84	0.72
104	Meyers Falls 1910	0.23	0.23	0.21	0.14	0.21	0.21	0.14	0.19	0.26	0.26	0.26	0.23	0.28	0.26	0.22
105	Middle Fork Irrigation District	1.84	1.84	0.77	1.24	1.31	1.66	2.72	3.09	3.08	2.93	2.93	2.84	2.42	1.98	2.16
106	Mile 28	1.32	1.32	1.23	0.69	0.18	0	0	0	0	0.62	0.62	1.20	1.29	1.36	0.66
107	Mill Creek (Cove Hydro)	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
108	Minikahda	0	0	0	0	0.04	0.05	0.05	0.08	0.05	0.07	0.07	0.07	0	0.01	0.03
109	Mink Creek	1.18	1.18	0.83	0.62	0.56	0.50	0.40	0.39	0.25	0.41	0.41	1.65	2.69	1.61	0.93
110	Mitchell Butte	1.05	1.05	1.07	0.42	0	0	0	0	0.28	0.83	0.83	1.24	1.25	1.09	0.60
111	Mora Drop	1.90	1.90	1.90	0	0	0	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.42
112	Morse Creek	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
113	Mt. Tabor	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
114	Mud Creek	0.50	0.50	0.65	0.66	0.74	0.60	0.47	0.53	0.50	0.50	0.50	0.49	0.44	0.50	0.55
115	N-32 Canal	1.12	1.12	1.15	1.12	1.15	0	0	0	1.12	1.15	1.15	1.12	1.15	1.12	0.85
116	Nichols Gap	0	0	0	0	0.42	0.62	0.19	0.55	0.58	0.40	0.40	0.02	0.01	0	0.23
117	Nicholson	0.22	0.22	0.16	0.21	0.19	0.20	0.14	0.21	0.19	0.16	0.16	0.19	0.23	0.22	0.19

Table A-9: Regional: Small Hydro

Operating Year 2020 Water Year: 1937

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
118	North Fork Sprague	0.03	0.03	0.07	0.01	0	0.05	0.15	0.26	0.16	0.27	0.27	0.92	0.45	0.15	0.21
119	North Willow Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
120	O. J. Power Company	0.01	0.01	0.07	0.03	0.05	0.05	0.06	0.07	0.08	0.07	0.07	0.08	0.11	0.10	0.06
121	Odell Creek	0.03	0.03	0.04	0.04	0.01	0.03	0.02	0.03	0.04	0.05	0.05	0.01	0	0.03	0.03
122	Opal Springs	2.63	2.63	2.95	3.62	3.16	2.94	2.94	3.51	2.60	2.71	2.71	4.47	1.62	2.23	2.95
123	Orchard Avenue	0.79	0.79	0.79	0.79	0	0	0	0	0	0	0.79	0.79	0.79	0.79	0.43
124	Owyhee Dam	2.78	2.78	1.99	0.59	0	0	0.24	0.64	1.76	3.35	3.35	3.88	3.33	3.16	1.81
125	Owyhee Tunnel No 1	4.27	4.27	2.56	0.54	0	0	0	0	2.35	5.10	5.10	5.83	5.85	5.93	2.71
126	Pancheri	0	0	0.01	0	0	0.01	0	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
127	PEC Headworks	4.50	4.50	3.10	2.20	0	0	0	0	0.40	5.10	5.10	6.50	6.20	5.80	2.82
128	Phillips Ranch	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
129	Phillipsburg	0.03	0.03	0.04	0.04	0.03	0.05	0.07	0.05	0.04	0.04	0.04	0.04	0.03	0.03	0.04
130	Pine Creek	0.08	0.09	0.08	0.08	0.08	0.09	0.09	0.08	0.08	0.08	0.08	0.09	0.08	0.08	0.08
131	Portland Hydro Project	2.34	2.34	2.92	6.66	16.2	19.9	18.4	17.2	16.4	17.4	17.4	15.1	8.42	3.16	12.0
132	Portneuf River	0.24	0.24	0.11	0.05	0.10	0.11	0	0	0	0	0	0.22	0.58	0.38	0.15
133	Potholes East Canal	1.80	1.80	1.80	1.60	0	0	0	0	0.60	1.80	1.80	1.80	1.80	1.80	1.09
134	Preston	0.31	0.31	0.38	0.37	0.38	0.37	0.36	0.35	0.35	0.37	0.37	0.38	0.37	0.38	0.36
135	Pristine Springs	0.28	0.28	0.41	0.43	0.31	0.33	0.28	0.25	0.27	0.35	0.35	0.37	0.32	0.28	0.32
136	Quincy Chute	7.70	7.70	4.00	2.30	0	0	0	0	0.80	5.50	5.50	7.10	8.40	8.50	3.70
137	Ravenscroft Ranch	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35
138	Reynolds Irrigation District	0.15	0.15	0.25	0.24	0.25	0.24	0.24	0.26	0.20	0.21	0.21	0.20	0.16	0.15	0.21
139	Rim View	0.17	0.17	0.25	0.26	0.19	0.20	0.17	0.15	0.16	0.22	0.22	0.23	0.20	0.17	0.20
140	Rock Creek #1	1.13	1.13	1.63	1.73	1.24	1.33	1.11	1.00	1.08	1.42	1.42	1.48	1.29	1.13	1.30
141	Rock Creek No 2	1.82	1.82	1.84	1.89	1.87	1.87	0.63	0.40	1.63	1.87	1.87	1.87	1.87	1.64	1.60
142	Rocky Brook	0	0	0	0.04	0.21	0.56	0.58	0.41	0.47	0.46	0.46	0.20	0.09	0	0.25
143	Russell D. Smith	4.00	4.00	2.60	1.40	0	0	0	0	0.20	2.40	2.40	3.80	4.20	3.40	1.84
144	Sagebrush	0.40	0.40	0.26	0.25	0.26	0.08	0.08	0.09	0.26	0.26	0.26	0.26	0.41	0.40	0.25
145	Sahko	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
146	Schaffner	0.36	0.36	0.26	0.25	0.26	0.14	0.14	0.16	0.29	0.30	0.30	0.29	0.37	0.36	0.26
147	Shingle Creek	0.11	0.11	0.16	0.17	0.12	0.13	0.11	0.10	0.10	0.14	0.14	0.14	0.12	0.11	0.12
148	Shoshone	0.90	0.90	0.92	0.29	0.31	0.05	0.04	0.02	0.10	0.54	0.54	0.84	0.82	0.86	0.47
149	Skookumchuck	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
150	Smith Creek (Washington)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
151	Snake River Pottery	0.03	0.03	0.04	0.04	0.04	0.06	0.06	0.07	0.04	0.04	0.04	0.04	0.03	0.03	0.04
152	Snedigar Ranch	0.15	0.15	0.22	0.21	0.22	0.15	0.15	0.17	0.11	0.12	0.12	0.11	0.16	0.15	0.16
153	South Dry Creek	0.52	0.53	0.49	0.50	0	0	0	0	0.50	0.50	0.49	0.58	0.49	0.47	0.34
154	Spencer Lake Hydro	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
155	Spring Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
156	Stayton Hydro	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
157	Stevenson #1	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
158	Stevenson #2	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
159	Strawberry Creek (MT)	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.06	0.06	0.06	0.06	0.07	0.06	0.06	0.06
160	Summer Falls	78.8	78.8	48.4	21.6	0	0	0	0	4.80	50.0	50.0	71.4	81.0	87.4	37.1
161	Sunshine	0.10	0.10	0.06	0.06	0.06	0.04	0.04	0.05	0.07	0.07	0.07	0.07	0.10	0.10	0.07
162	Sygitowicz Creek	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.43	0.45	0.45	0.45	0.45	0.45	0.45	0.45
163	Thompson's Mills	0.01	0.01	0.01	0.03	0.05	0.06	0.05	0.06	0.06	0.07	0.07	0.05	0.07	0.03	0.05
164	Tiber Dam	7.04	7.04	5.43	2.49	0.91	0	0	0	0.08	2.56	2.56	6.01	6.73	7.45	3.23
165	Tieton Dam (Yakima)	7.81	7.81	7.81	7.81	0	0	0	0	0	0	7.81	7.81	7.81	7.81	4.25
166	Trinity	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
167	Twin Falls (WA)	5.00	5.00	0	1.20	9.60	7.90	7.40	4.80	7.80	14.8	14.8	13.2	24.3	18.7	9.56
168	Upper Pine Creek	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
169	Upriver Dam	3.40	3.40	3.40	4.70	6.70	13.4	14.4	13.0	13.8	12.9	12.9	11.2	11.6	8.40	9.73
170	Walla Walla	1.54	1.54	1.44	1.28	1.17	1.29	1.17	1.53	1.75	1.77	1.77	1.48	1.54	1.76	1.48
171	Water Street	0.02	0.02	0.09	0.14	0.16	0.15	0.10	0.12	0.12	0.16	0.16	0.14	0.14	0.07	0.12
172	Weeks Falls	0.80	0.80	0	0.20	1.70	1.80	1.20	0.60	1.20	2.60	2.60	2.40	4.40	3.50	1.70
173	White Ranch	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
174	White Water Ranch	0.07	0.07	0.08	0.08	0.08	0.10	0.10	0.11	0.08	0.08	0.08	0.08	0.07	0.07	0.08
175	Whitefish	0.12	0.12	0.20	0.12	0.11	0.11	0.11	0.11	0.11	0.12	0.12	0.11	0.12	0.20	0.13
176	Wilson Lake	7.07	7.07	5.27	2.00	0.25	0	0	0	0.03	2.32	2.32	6.05	6.83	7.63	3.13

Table A-9: Regional: Small Hydro

Operating Year 2020 Water Year: 1937

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
177	Wisconsin Noble	0.04	0.04	0.05	0.05	0.04	0.06	0.08	0.06	0.05	0.05	0.05	0.05	0.04	0.03	0.05
178	Wolf Creek	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
179	Woods Creek	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
180	Yakama Drop 2	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
181	Yakama Drop 3	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
182	Youngs Creek	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
183	Zena Creek Ranch	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
	Total Small Hydro															
184	Cooperative	3.80	3.80	3.78	3.53	3.43	3.54	3.42	3.78	4.00	4.03	4.03	3.72	3.80	4.09	3.74
185	Federal Entities	2.83	2.83	2.83	2.87	3.04	3.39	3.41	3.24	3.30	3.29	3.29	3.03	2.92	2.83	3.08
186	Investor Owned Utilities	164	162	134	110	119	111	104	109	130	177	179	215	227	201	150
187	Marketer	7.81	7.81	7.81	7.81	0	0	0	0	0	0	7.81	7.81	7.81	7.81	4.25
188	Municipality	138	136	88.6	37.4	2.48	3.18	2.48	3.98	12.5	83.1	83.1	167	188	194	76.9
189	Public Utility District	17.9	17.9	12.7	10.1	5.38	5.38	5.38	5.38	6.58	16.1	16.1	19.1	20.2	20.0	12.0
190	**Total Small Hydro**	**334**	**331**	**249**	**172**	**133**	**127**	**119**	**125**	**157**	**284**	**293**	**416**	**449**	**430**	**250**

Table A-9: Regional: Small Hydro

Operating Year 2021 Water Year: 1937

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Small Hydro															
1	Albany-Millersburg Hydro Project	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
2	Amy Ranch	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33
3	Arena Drop	0.31	0.31	0.31	0	0	0	0	0	0	0.31	0.31	0.31	0.31	0.31	0.16
4	Barber Dam	2.38	2.38	1.93	0.84	0.31	0.97	2.16	2.64	3.28	3.22	3.22	3.14	3.24	3.28	2.28
5	Barney Creek	0.02	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.02	0.01	0.01	0.02
6	Beaverton	0	0	0	0.02	0.05	0.05	0.05	0.01	0	0.03	0.03	0.05	0	0	0.02
7	Bell Mountain	0.12	0.12	0.10	0.21	0.05	0.12	0.10	0.13	0.13	0.11	0.11	0.13	0.19	0.13	0.13
8	Big Elk Creek YMCA Camp	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	Big Sheep Creek	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60
10	Bigg's Creek (Pickering Micro)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	Billingsley Creek	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
12	Birch Creek Diversion Dam	0.04	0.04	0.05	0.05	0.06	0.06	0.04	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.05
13	Birch Creek (Gooding,ID)	1.25	1.25	1.11	1.00	1.14	1.10	0.31	1.19	1.73	1.63	1.63	1.60	1.34	1.19	1.21
14	Black Canyon #3	0.11	0.11	0.06	0.05	0.06	0	0	0	0.09	0.09	0.09	0.09	0.11	0.11	0.06
15	Black Creek	3.08	3.08	2.78	1.85	2.78	2.78	3.39	3.39	3.08	3.70	3.39	3.08	3.08	2.78	2.96
16	Blind Canyon	0.73	0.73	1.09	0.89	0.15	0	0	0	0	0.57	0.57	1.61	0.97	0.73	0.57
17	Boulder Creek	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
18	Box Canyon Springs	0.42	0.42	0.40	0.39	0.40	0.31	0.31	0.34	0.28	0.29	0.29	0.28	0.43	0.42	0.36
19	Briggs Creek	0.59	0.59	0.61	0.59	0.61	0.59	0.59	0.65	0.59	0.61	0.61	0.59	0.61	0.59	0.60
20	Briggs Project	0.20	0.20	0.12	0.21	0.21	0.22	0.13	0.20	0.22	0.13	0.13	0.20	0.19	0.12	0.18
21	Broadwater	1.11	1.13	1.55	1.91	2.06	1.64	1.58	1.74	1.80	2.76	2.70	3.22	2.74	1.99	2.01
22	Buffalo Hydro	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
23	Burr & Bouchard	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	Burton Creek	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
25	Bypass	8.26	8.26	6.54	2.82	0.99	0	0	0	0.06	2.94	2.94	7.01	8.16	8.68	3.81
26	Canyon Creek	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
27	Canyon Springs	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.10	0.09	0.09	0.09	0.09	0.09	0.09	0.09
28	Carlton	0	0	0	0	0.01	0.05	0.08	0.08	0.06	0.08	0.08	0.04	0.02	0	0.04
29	Cascade Creek	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
30	Cedar Draw Creek	0.30	0.30	0.92	0.89	0.92	1.16	1.16	1.28	0.42	0.43	0.43	0.42	0.31	0.30	0.71
31	Central Oregon Siphon	3.10	3.10	3.71	3.47	0.02	0.69	0	0.40	0.87	0.83	0.83	4.47	3.83	4.09	2.14
32	Cereghino	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55
33	Chester Hydroelectic Plant	1.91	1.91	1.91	1.91	1.91	1.91	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92
34	Clear Springs Trout	0.43	0.43	0.44	0.52	0.60	0.56	0.41	0.47	0.35	0.35	0.35	0.35	0.36	0.43	0.44
35	Company Creek	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
36	Cornelius	0	0	0	0	0	0.02	0.01	0.01	0.01	0	0	0	0	0	0
37	Cowiche	0.80	0.80	0.80	0.80	0	0	0	0	0	0	0.80	0.80	0.80	0.80	0.44
38	Crystal Springs	1.34	1.34	1.56	1.51	1.56	0.54	0.54	0.59	0.83	0.86	0.86	0.83	1.38	1.34	1.07
39	Curry Cattle Co.	0.21	0.21	0.22	0.14	0.08	0.05	0.04	0.04	0.07	0.09	0.09	0.18	0.20	0.18	0.12
40	Curtiss Livestock	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01
41	Cushman North Fork	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25
42	D. Wiggins	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43	Deep Creek	0.01	0.01	0.01	0	0	0	0	0	0	0.01	0.01	0.02	0.03	0.02	0.01
44	Denny Creek	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
45	Dietrich Drop	4.67	4.67	3.56	3.09	1.37	0	0	0	0	3.09	3.09	4.67	4.67	4.52	2.48
46	Donald Jenni	0.07	0.08	0.07	0.07	0.07	0.08	0.08	0.07	0.07	0.07	0.07	0.08	0.07	0.07	0.07
47	Dry Creek	0.94	0.94	1.00	0.80	0.43	0	0.33	0.27	0.37	0.41	0.41	0.90	2.66	2.09	0.85
48	Dworshak-Clearwater Hatchery	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63
49	Ebey Hill (Kevin Duncan)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50	Elk Creek	1.19	1.19	0.01	0.01	0.01	0.10	0.10	0.11	1.00	1.04	1.04	1.00	1.23	1.19	0.59
51	Eltopia Branch Canal 4.6	1.80	1.80	1.20	0.60	0	0	0	0	0	1.40	1.40	2.00	2.00	2.20	0.94
52	Esquatzel Small Hydro	0.90	0.90	0.80	0.80	0.60	0.60	0.60	0.60	0.60	0.70	0.70	0.70	0.80	0.90	0.72
53	Falls Creek (Or)	0	0	0	0	1.88	3.08	0.91	2.72	2.66	4.35	4.35	4.11	3.82	0	1.95
54	Falls Creek (Wa)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
55	Falls River Hydro	6.46	6.46	6.29	5.72	5.58	4.96	4.18	3.75	3.79	6.22	6.22	7.91	8.55	7.08	5.88
56	Farmers Irr Dist Proj No 2	0.35	0.35	0.45	0.77	2.02	2.00	1.34	2.88	2.04	2.19	2.19	2.96	0.52	0.45	1.49
57	Farmers Irr Dist Proj No 3	0.21	0.21	0.27	0.46	1.21	1.20	0.81	1.73	1.22	1.32	1.32	1.77	0.31	0.27	0.89
58	Faulkner Ranch	0.82	0.82	0.71	0.69	0.71	0.30	0.30	0.34	0.54	0.56	0.56	0.54	0.85	0.82	0.60

Table A-9: Regional: Small Hydro

Operating Year 2021 Water Year: 1937

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
59	Fisheries Development #1	0.24	0.24	0.26	0.22	0.27	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.24	0.23	0.25
60	Flying W	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61	Ford	0	0	0	0	0.30	0.50	0.90	0.90	1.10	1.10	1.10	0.70	0.30	0.10	0.49
62	Forgy	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
63	Galesville	0.63	0.63	0.38	0.18	0.17	0.26	0.01	0.25	0.35	0.43	0.43	0.33	0.35	0.54	0.32
64	Geo-Bon #2	0.97	0.97	0.35	0.34	0.35	0.24	0.24	0.26	0.59	0.61	0.61	0.59	1.00	0.97	0.54
65	Georgetown	0	0	0.24	0.30	0.32	0.31	0.28	0.27	0.25	0.28	0.28	0.34	0.22	0	0.23
66	Gillihan	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
67	Ground Water Pumping Station	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
68	Hailey	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
69	Hazelton A	7.04	7.04	5.43	2.49	0.91	0	0	0	0.08	2.56	2.56	6.01	6.73	7.45	3.24
70	Hazelton B	6.61	6.61	5.15	2.36	0.67	0	0	0	0.06	2.23	2.23	5.64	6.41	6.97	3.03
71	Hettinger	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
72	Horseshoe Bend	8.79	8.79	7.55	3.91	2.78	3.50	3.86	4.65	5.89	8.81	8.81	9.93	9.80	9.22	6.56
73	Hutchinson Creek	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
74	James Boyd	0	0	0	0	0	0.37	0.34	0.58	0.69	0.81	0.81	0.50	0	0	0.27
75	James White	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.20	0.20	0.30	0.20	0.20	0.14
76	Jim Knight	0.36	0.36	0.25	0.25	0.25	0.09	0.09	0.10	0.25	0.25	0.25	0.25	0.37	0.36	0.24
77	John Day Creek	0.20	0.20	0.20	0.20	0.20	0.20	0.30	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.21
78	Juniper Ridge Hydro	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37
79	Kasel-Withersppon	0.90	0.90	0.94	0.60	0.36	0.19	0.15	0.16	0.27	0.36	0.36	0.76	0.85	0.78	0.53
80	Kaster Riverview	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
81	Koma Kulshan	4.60	4.60	4.30	6.40	8.00	6.10	3.90	3.80	4.40	6.90	6.90	9.40	10.4	8.20	6.38
82	Koyle Ranch Power	1.05	1.05	1.14	0.99	1.04	0.16	0.15	0.06	0.32	0.82	0.82	1.25	0.78	0.94	0.73
83	L & M Angus Ranch	0.23	0.23	0.28	0.32	0.51	0.50	0.41	0.42	0.45	0.40	0.40	0.35	0.27	0.27	0.37
84	Lacomb	0	0	0	0	0.21	0.97	0.22	0.89	0.89	1.05	1.05	0.95	0.88	0.42	0.54
85	Lake Creek (OR)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
86	Lake Oswego	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
87	Lateral #10	1.21	1.21	1.25	1.60	1.65	1.21	1.21	1.34	1.41	1.45	1.45	1.41	1.25	1.21	1.35
88	Le Moyne	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
89	Lee Tavenner	0.06	0.06	0.08	0.08	0.07	0.10	0.13	0.10	0.08	0.09	0.08	0.08	0.07	0.05	0.08
90	Little Butte Ranch	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
91	Little Mac	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
92	Little Wood River Ranch	1.94	1.94	0.21	0.20	0.21	0	0	0	1.61	1.66	1.66	1.61	2.00	1.94	0.95
93	Little Wood River Reservoir	0.73	0.73	0.44	0.42	0.44	0.20	0.20	0.22	0.44	0.45	0.45	0.44	0.75	0.73	0.46
94	Low line Canal Drop	7.82	7.82	7.50	7.26	7.50	0.63	0.63	0.70	5.28	5.45	5.45	5.28	8.08	7.82	5.35
95	Low Line Midway	2.00	2.00	0	0	0	0	0	0	0	0	0	0	2.00	2.00	0.50
96	Lower Low line	2.69	2.69	2.48	1.80	1.45	0	0	0.68	1.88	2.48	2.48	2.69	2.69	2.69	1.80
97	Loyd F. Fery Farms	0.03	0.03	0.04	0.04	0.04	0.02	0.04	0.04	0.03	0.03	0.04	0.03	0.03	0.04	0.03
98	LQ-LS Drains (Pigeon Cove)	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88
99	Lucky Peak	28.6	26.8	19.9	4.50	0	0.70	0	1.50	1.60	11.4	11.4	67.7	75.2	73.0	23.7
100	Magic Dam	6.82	6.82	4.40	0.49	0.17	0.10	0.25	0.15	0.86	2.99	2.99	8.25	9.08	8.96	3.56
101	Main Canal Headworks	20.4	20.4	12.2	5.20	0	0	0	0	2.80	13.6	13.6	18.2	21.2	23.6	9.82
102	Marsh Valley	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44
103	Meyers Falls	0.77	0.77	0.69	0.46	0.69	0.69	0.46	0.61	0.84	0.84	0.84	0.77	0.92	0.84	0.72
104	Meyers Falls 1910	0.23	0.23	0.21	0.14	0.21	0.21	0.14	0.19	0.26	0.26	0.26	0.23	0.28	0.26	0.22
105	Middle Fork Irrigation District	1.84	1.84	0.77	1.24	1.31	1.66	2.72	3.09	3.08	2.93	2.93	2.84	2.42	1.98	2.15
106	Mile 28	1.32	1.32	1.23	0.69	0.18	0	0	0	0	0.62	0.62	1.20	1.29	1.36	0.66
107	Mill Creek (Cove Hydro)	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
108	Minikahda	0	0	0	0	0.04	0.05	0.05	0.08	0.05	0.07	0.07	0.07	0	0.01	0.03
109	Mink Creek	1.18	1.18	0.83	0.62	0.56	0.50	0.40	0.39	0.25	0.41	0.41	1.65	2.69	1.61	0.93
110	Mitchell Butte	1.05	1.05	1.07	0.42	0	0	0	0	0.28	0.83	0.83	1.24	1.25	1.09	0.60
111	Mora Drop	1.90	1.90	1.90	0	0	0	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.42
112	Morse Creek	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
113	Mt. Tabor	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
114	Mud Creek	0.50	0.50	0.65	0.66	0.74	0.60	0.47	0.53	0.50	0.50	0.50	0.49	0.44	0.50	0.55
115	N-32 Canal	1.12	1.12	1.15	1.12	1.15	0	0	0	1.12	1.15	1.15	1.12	1.15	1.12	0.85
116	Nichols Gap	0	0	0	0	0.42	0.62	0.19	0.55	0.58	0.40	0.40	0.02	0.01	0	0.23
117	Nicholson	0.22	0.22	0.16	0.21	0.19	0.20	0.14	0.21	0.19	0.16	0.16	0.19	0.23	0.22	0.19

Table A-9: Regional: Small Hydro

Operating Year 2021 Water Year: 1937

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
118	North Fork Sprague	0.03	0.03	0.07	0.01	0	0.05	0.15	0.26	0.16	0.27	0.27	0.92	0.45	0.15	0.21
119	North Willow Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
120	O. J. Power Company	0.01	0.01	0.07	0.03	0.05	0.05	0.06	0.07	0.08	0.07	0.07	0.08	0.11	0.10	0.06
121	Odell Creek	0.03	0.03	0.04	0.04	0.01	0.03	0.02	0.03	0.04	0.05	0.05	0.01	0	0.03	0.03
122	Opal Springs	2.63	2.63	2.95	3.62	3.16	2.94	2.94	3.51	2.60	2.71	2.71	4.47	1.62	2.23	2.95
123	Orchard Avenue	0.79	0.79	0.79	0.79	0	0	0	0	0	0	0.79	0.79	0.79	0.79	0.43
124	Owyhee Dam	2.78	2.78	1.99	0.59	0	0	0.24	0.64	1.76	3.35	3.35	3.88	3.33	3.16	1.82
125	Owyhee Tunnel No 1	4.27	4.27	2.56	0.54	0	0	0	0	2.35	5.10	5.10	5.83	5.85	5.93	2.72
126	Pancheri	0	0	0.01	0	0	0.01	0	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
127	PEC Headworks	4.50	4.50	3.10	2.20	0	0	0	0	0.40	5.10	5.10	6.50	6.20	5.80	2.83
128	Phillips Ranch	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
129	Phillipsburg	0.03	0.03	0.04	0.04	0.03	0.05	0.07	0.05	0.04	0.04	0.04	0.04	0.03	0.03	0.04
130	Pine Creek	0.08	0.09	0.08	0.08	0.08	0.09	0.09	0.08	0.08	0.08	0.08	0.09	0.08	0.08	0.08
131	Portland Hydro Project	2.34	2.34	2.92	6.66	16.2	19.9	18.4	17.2	16.4	17.4	17.4	15.1	8.42	3.16	12.0
132	Portneuf River	0.24	0.24	0.11	0.05	0.10	0.11	0	0	0	0	0	0.22	0.58	0.38	0.15
133	Potholes East Canal	1.80	1.80	1.80	1.60	0	0	0	0	0.60	1.80	1.80	1.80	1.80	1.80	1.09
134	Preston	0.31	0.31	0.38	0.36	0.35	0.35	0.37	0.37	0.38	0.37	0.38	0.31	0.31	0.38	0.35
135	Pristine Springs	0.28	0.28	0.41	0.43	0.31	0.33	0.28	0.25	0.27	0.35	0.35	0.37	0.32	0.28	0.32
136	Quincy Chute	7.70	7.70	4.00	2.30	0	0	0	0	0.80	5.50	5.50	7.10	8.40	8.50	3.71
137	Ravenscroft Ranch	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35
138	Reynolds Irrigation District	0.15	0.15	0.25	0.24	0.25	0.24	0.24	0.26	0.20	0.21	0.21	0.20	0.16	0.15	0.21
139	Rim View	0.17	0.17	0.25	0.26	0.19	0.20	0.17	0.15	0.16	0.22	0.22	0.23	0.20	0.17	0.20
140	Rock Creek #1	1.13	1.13	1.63	1.73	1.24	1.33	1.11	1.00	1.08	1.42	1.42	1.48	1.29	1.13	1.30
141	Rock Creek No 2	1.82	1.82	1.84	1.89	1.87	1.87	0.63	0.40	1.63	1.87	1.87	1.87	1.87	1.64	1.61
142	Rocky Brook	0	0	0	0.04	0.21	0.56	0.58	0.42	0.47	0.46	0.46	0.20	0.09	0	0.25
143	Russell D. Smith	4.00	4.00	2.60	1.40	0	0	0	0	0.20	2.40	2.40	3.80	4.20	3.40	1.84
144	Sagebrush	0.40	0.40	0.26	0.25	0.26	0.08	0.08	0.09	0.26	0.26	0.26	0.26	0.41	0.40	0.25
145	Sahko	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
146	Schaffner	0.36	0.36	0.26	0.25	0.26	0.14	0.14	0.16	0.29	0.30	0.30	0.29	0.37	0.36	0.26
147	Shingle Creek	0.11	0.11	0.16	0.17	0.12	0.13	0.11	0.10	0.10	0.14	0.14	0.14	0.12	0.11	0.12
148	Shoshone	0.90	0.90	0.92	0.29	0.31	0.05	0.04	0.02	0.10	0.54	0.54	0.84	0.82	0.86	0.47
149	Skookumchuck	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
150	Smith Creek (Washington)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
151	Snake River Pottery	0.03	0.03	0.04	0.04	0.04	0.06	0.06	0.07	0.04	0.04	0.04	0.04	0.03	0.03	0.04
152	Snedigar Ranch	0.15	0.15	0.22	0.21	0.22	0.15	0.15	0.17	0.11	0.12	0.12	0.11	0.16	0.15	0.16
153	South Dry Creek	0.52	0.53	0.49	0.50	0	0	0	0	0.50	0.50	0.49	0.58	0.49	0.47	0.34
154	Spencer Lake Hydro	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
155	Spring Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
156	Stayton Hydro	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
157	Stevenson #1	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
158	Stevenson #2	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
159	Strawberry Creek (MT)	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.06	0.06	0.06	0.06	0.07	0.06	0.06	0.06
160	Summer Falls	78.8	78.8	48.4	21.6	0	0	0	0	4.80	50.0	50.0	71.4	81.0	87.4	37.2
161	Sunshine	0.10	0.10	0.06	0.06	0.06	0.04	0.04	0.05	0.07	0.07	0.07	0.07	0.10	0.10	0.07
162	Sygitowicz Creek	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
163	Thompson's Mills	0.01	0.01	0.01	0.03	0.05	0.06	0.05	0.06	0.06	0.07	0.07	0.05	0.07	0.03	0.05
164	Tiber Dam	7.04	7.04	5.43	2.49	0.91	0	0	0	0.08	2.56	2.56	6.01	6.73	7.45	3.24
165	Tieton Dam (Yakima)	7.81	7.81	7.81	7.81	0	0	0	0	0	0	7.81	7.81	7.81	7.81	4.26
166	Trinity	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
167	Twin Falls (WA)	5.00	5.00	0	1.20	9.60	7.90	7.40	4.80	7.80	14.8	14.8	13.2	24.3	18.7	9.57
168	Upper Pine Creek	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
169	Upriver Dam	3.40	3.40	3.40	4.70	6.70	13.4	14.4	13.0	13.8	12.9	12.9	11.2	11.6	8.40	9.73
170	Walla Walla	1.54	1.54	1.44	1.28	1.17	1.29	1.17	1.53	1.75	1.77	1.77	1.48	1.54	1.76	1.48
171	Water Street	0.02	0.02	0.09	0.14	0.16	0.15	0.10	0.12	0.12	0.16	0.16	0.14	0.14	0.07	0.12
172	Weeks Falls	0.80	0.80	0	0.20	1.70	1.80	1.20	0.60	1.20	2.60	2.60	2.40	4.40	3.50	1.70
173	White Ranch	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
174	White Water Ranch	0.07	0.07	0.08	0.08	0.08	0.10	0.10	0.11	0.08	0.08	0.08	0.08	0.07	0.07	0.08
175	Whitefish	0.12	0.11	0.20	0.12	0.11	0.11	0.11	0.11	0.12	0.12	0.12	0.11	0.12	0.20	0.13
176	Wilson Lake	7.07	7.07	5.27	2.00	0.25	0	0	0	0.03	2.32	2.32	6.05	6.83	7.63	3.14

Table A-9: Regional: Small Hydro

Operating Year 2021 Water Year: 1937

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
177	Wisconsin Noble	0.04	0.04	0.05	0.05	0.04	0.06	0.08	0.06	0.05	0.05	0.05	0.05	0.04	0.03	0.05
178	Wolf Creek	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
179	Woods Creek	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
180	Yakama Drop 2	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
181	Yakama Drop 3	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
182	Youngs Creek	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
183	Zena Creek Ranch	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
	Total Small Hydro															
184	Cooperative	3.79	3.78	3.77	3.53	3.42	3.54	3.42	3.78	4.01	4.03	4.03	3.73	3.80	4.10	3.74
185	Federal Entities	2.83	2.83	2.83	2.87	3.04	3.39	3.41	3.25	3.30	3.29	3.29	3.03	2.92	2.83	3.08
186	Investor Owned Utilities	164	164	138	112	120	111	104	109	130	177	179	215	227	201	151
187	Marketer	7.81	7.81	7.81	7.81	0	0	0	0	0	0	7.81	7.81	7.81	7.81	4.26
188	Municipality	138	136	88.6	37.4	2.48	3.18	2.48	3.98	12.5	83.1	83.1	167	188	194	77.1
189	Public Utility District	17.9	17.9	12.7	10.1	5.38	5.38	5.38	5.38	6.58	16.1	16.1	19.1	20.2	20.0	12.0
190	**Total Small Hydro**	**334**	**332**	**253**	**174**	**134**	**126**	**119**	**125**	**157**	**284**	**293**	**416**	**449**	**430**	**251**

Table A-9: Regional: Small Hydro

Operating Year 2022 Water Year: 1937

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Small Hydro															
1	Albany-Millersburg Hydro Project	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
2	Amy Ranch	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33
3	Arena Drop	0.31	0.31	0.31	0	0	0	0	0	0	0.31	0.31	0.31	0.31	0.31	0.16
4	Barber Dam	2.38	2.38	1.93	0.84	0.31	0.97	2.16	2.64	3.28	3.22	3.22	3.14	3.24	3.28	2.28
5	Barney Creek	0.02	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.02	0.01	0.01	0.02
6	Beaverton	0	0	0	0.02	0.05	0.05	0.05	0.01	0	0.03	0.03	0.05	0	0	0.02
7	Bell Mountain	0.12	0.12	0.10	0.21	0.05	0.12	0.10	0.13	0.13	0.11	0.11	0.13	0.19	0.13	0.13
8	Big Elk Creek YMCA Camp	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	Big Sheep Creek	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60
10	Bigg's Creek (Pickering Micro)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	Billingsley Creek	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
12	Birch Creek Diversion Dam	0.04	0.04	0.05	0.05	0.06	0.06	0.04	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.05
13	Birch Creek (Gooding,ID)	1.25	1.25	1.11	1.00	1.14	1.10	0.31	1.19	1.73	1.63	1.63	1.60	1.34	1.19	1.21
14	Black Canyon #3	0.11	0.11	0.06	0.05	0.06	0	0	0	0.09	0.09	0.09	0.09	0.11	0.11	0.06
15	Black Creek	3.08	3.08	2.78	1.85	2.78	2.78	3.39	3.39	3.08	3.70	3.39	3.08	3.08	2.78	2.96
16	Blind Canyon	0.73	0.73	1.09	0.89	0.15	0	0	0	0	0.57	0.57	1.61	0.97	0.73	0.57
17	Boulder Creek	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
18	Box Canyon Springs	0.42	0.42	0.40	0.39	0.40	0.31	0.31	0.34	0.28	0.29	0.29	0.28	0.43	0.42	0.36
19	Briggs Creek	0.59	0.59	0.61	0.59	0.61	0.59	0.59	0.65	0.59	0.61	0.61	0.59	0.61	0.59	0.60
20	Briggs Project	0.20	0.20	0.12	0.21	0.21	0.22	0.13	0.20	0.22	0.13	0.13	0.20	0.19	0.12	0.18
21	Broadwater	1.11	1.13	1.55	1.91	2.06	1.64	1.58	1.74	1.80	2.76	2.70	3.22	2.74	1.99	2.01
22	Buffalo Hydro	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
23	Burr & Bouchard	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	Burton Creek	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
25	Bypass	8.26	8.26	6.54	2.82	0.99	0	0	0	0.06	2.94	2.94	7.01	8.16	8.68	3.81
26	Canyon Creek	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
27	Canyon Springs	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.10	0.09	0.09	0.09	0.09	0.09	0.09	0.09
28	Carlton	0	0	0	0	0.01	0.05	0.08	0.08	0.06	0.08	0.08	0.04	0.02	0	0.04
29	Cascade Creek	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
30	Cedar Draw Creek	0.30	0.30	0.92	0.89	0.92	1.16	1.16	1.28	0.42	0.43	0.43	0.42	0.31	0.30	0.71
31	Central Oregon Siphon	3.10	3.10	3.71	3.47	0.02	0.69	0	0.40	0.87	0.83	0.83	4.47	3.83	4.09	2.14
32	Cereghino	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55
33	Chester Hydroelectic Plant	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92
34	Clear Springs Trout	0.43	0.43	0.44	0.52	0.60	0.56	0.41	0.47	0.35	0.35	0.35	0.35	0.36	0.43	0.44
35	Company Creek	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
36	Cornelius	0	0	0	0	0	0.02	0.01	0.01	0.01	0	0	0	0	0	0
37	Cowiche	0.80	0.80	0.80	0.80	0	0	0	0	0	0	0.80	0.80	0.80	0.80	0.44
38	Crystal Springs	1.34	1.34	1.56	1.51	1.56	0.54	0.54	0.59	0.83	0.86	0.86	0.83	1.38	1.34	1.07
39	Curry Cattle Co.	0.21	0.21	0.22	0.14	0.08	0.05	0.04	0.04	0.07	0.09	0.09	0.18	0.20	0.18	0.12
40	Curtiss Livestock	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01
41	Cushman North Fork	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25
42	D. Wiggins	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43	Deep Creek	0.01	0.01	0.01	0	0	0	0	0	0	0.01	0.01	0.02	0.03	0.02	0.01
44	Denny Creek	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
45	Dietrich Drop	4.67	4.67	3.56	3.09	1.37	0	0	0	0	3.09	3.09	4.67	4.67	4.52	2.48
46	Donald Jenni	0.07	0.08	0.07	0.07	0.07	0.08	0.08	0.07	0.07	0.07	0.07	0.08	0.07	0.07	0.07
47	Dry Creek	0.94	0.94	1.00	0.80	0.43	0	0.33	0.27	0.37	0.41	0.41	0.90	2.66	2.09	0.85
48	Dworshak-Clearwater Hatchery	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63
49	Ebey Hill (Kevin Duncan)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50	Elk Creek	1.19	1.19	0.01	0.01	0.01	0.10	0.10	0.11	1.00	1.04	1.04	1.00	1.23	1.19	0.59
51	Eltopia Branch Canal 4.6	1.80	1.80	1.20	0.60	0	0	0	0	0	1.40	1.40	2.00	2.00	2.20	0.94
52	Esquatzel Small Hydro	0.90	0.90	0.80	0.80	0.60	0.60	0.60	0.60	0.60	0.70	0.70	0.70	0.80	0.90	0.72
53	Falls Creek (Or)	0	0	0	0	1.88	3.08	0.91	2.72	2.66	4.35	4.35	4.11	3.82	0	1.95
54	Falls Creek (Wa)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
55	Falls River Hydro	6.46	6.46	6.29	5.72	5.58	4.96	4.18	3.75	3.79	6.22	6.22	7.91	8.55	7.08	5.88
56	Farmers Irr Dist Proj No 2	0.35	0.35	0.45	0.77	2.02	2.00	1.34	2.88	2.04	2.19	2.19	2.96	0.52	0.45	1.49
57	Farmers Irr Dist Proj No 3	0.21	0.21	0.27	0.46	1.21	1.20	0.81	1.73	1.22	1.32	1.32	1.77	0.31	0.27	0.89
58	Faulkner Ranch	0.82	0.82	0.71	0.69	0.71	0.30	0.30	0.34	0.54	0.56	0.56	0.54	0.85	0.82	0.60

Table A-9: Regional: Small Hydro

Operating Year 2022 Water Year: 1937

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
59	Fisheries Development #1	0.24	0.24	0.26	0.22	0.27	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.24	0.23	0.25
60	Flying W	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61	Ford	0	0	0	0	0.30	0.50	0.90	0.90	1.10	1.10	1.10	0.70	0.30	0.10	0.49
62	Forgy	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
63	Galesville	0.63	0.63	0.38	0.18	0.17	0.26	0.01	0.25	0.35	0.43	0.43	0.33	0.35	0.54	0.32
64	Geo-Bon #2	0.97	0.97	0.35	0.34	0.35	0.24	0.24	0.26	0.59	0.61	0.61	0.59	1.00	0.97	0.54
65	Georgetown	0	0	0.24	0.30	0.32	0.31	0.28	0.27	0.25	0.28	0.28	0.34	0.22	0	0.23
66	Gillihan	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
67	Ground Water Pumping Station	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
68	Hailey	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
69	Hazelton A	7.04	7.04	5.43	2.49	0.91	0	0	0	0.08	2.56	2.56	6.01	6.73	7.45	3.24
70	Hazelton B	6.61	6.61	5.15	2.36	0.67	0	0	0	0.06	2.23	2.23	5.64	6.41	6.97	3.03
71	Hettinger	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
72	Horseshoe Bend	8.79	8.79	7.55	3.91	2.78	3.50	3.86	4.65	5.89	8.81	8.81	9.93	9.80	9.22	6.56
73	Hutchinson Creek	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
74	James Boyd	0	0	0	0	0	0.37	0.34	0.58	0.69	0.81	0.81	0.50	0	0	0.27
75	James White	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.20	0.20	0.30	0.20	0.20	0.14
76	Jim Knight	0.36	0.36	0.25	0.25	0.25	0.09	0.09	0.10	0.25	0.25	0.25	0.25	0.37	0.36	0.24
77	John Day Creek	0.20	0.20	0.20	0.20	0.20	0.20	0.30	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.21
78	Juniper Ridge Hydro	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37
79	Kasel-Withersppon	0.90	0.90	0.94	0.60	0.36	0.19	0.15	0.16	0.27	0.36	0.36	0.76	0.85	0.78	0.53
80	Kaster Riverview	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
81	Koma Kulshan	4.60	4.60	4.30	6.40	8.00	6.10	3.90	3.80	4.40	6.90	6.90	9.40	10.4	8.20	6.38
82	Koyle Ranch Power	1.05	1.05	1.14	0.99	1.04	0.16	0.15	0.06	0.32	0.82	0.82	1.25	0.78	0.94	0.73
83	L & M Angus Ranch	0.23	0.23	0.28	0.32	0.51	0.50	0.41	0.42	0.45	0.40	0.40	0.35	0.27	0.27	0.37
84	Lacomb	0	0	0	0	0.21	0.97	0.22	0.89	0.89	1.05	1.05	0.95	0.88	0.42	0.54
85	Lake Creek (OR)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
86	Lake Oswego	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
87	Lateral #10	1.21	1.21	1.25	1.60	1.65	1.21	1.21	1.34	1.41	1.45	1.45	1.41	1.25	1.21	1.35
88	Le Moyne	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
89	Lee Tavenner	0.06	0.06	0.08	0.08	0.07	0.10	0.13	0.10	0.08	0.09	0.08	0.08	0.07	0.05	0.08
90	Little Butte Ranch	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
91	Little Mac	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
92	Little Wood River Ranch	1.94	1.94	0.21	0.20	0.21	0	0	0	1.61	1.66	1.66	1.61	2.00	1.94	0.95
93	Little Wood River Reservoir	0.73	0.73	0.44	0.42	0.44	0.20	0.20	0.22	0.44	0.45	0.45	0.44	0.75	0.73	0.46
94	Low line Canal Drop	7.82	7.82	7.50	7.26	7.50	0.63	0.63	0.70	5.28	5.45	5.45	5.28	8.08	7.82	5.35
95	Low Line Midway	2.00	2.00	0	0	0	0	0	0	0	0	0	0	2.00	2.00	0.50
96	Lower Low line	2.69	2.69	2.48	1.80	1.45	0	0	0.68	1.88	2.48	2.48	2.69	2.69	2.69	1.80
97	Loyd F. Fery Farms	0.03	0.03	0.03	0.04	0.04	0.02	0.04	0.04	0.03	0.03	0.04	0.03	0.03	0.04	0.03
98	LQ-LS Drains (Pigeon Cove)	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88
99	Lucky Peak	28.6	26.8	19.9	4.50	0	0.70	0	1.50	1.60	11.4	11.4	67.7	75.2	73.0	23.7
100	Magic Dam	6.82	6.82	4.40	0.49	0.17	0.10	0.25	0.15	0.86	2.99	2.99	8.25	9.08	8.96	3.56
101	Main Canal Headworks	20.4	20.4	12.2	5.20	0	0	0	0	2.80	13.6	13.6	18.2	21.2	23.6	9.82
102	Marsh Valley	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44
103	Meyers Falls	0.77	0.77	0.69	0.46	0.69	0.69	0.46	0.61	0.84	0.84	0.84	0.77	0.92	0.84	0.72
104	Meyers Falls 1910	0.23	0.23	0.21	0.14	0.21	0.21	0.14	0.19	0.26	0.26	0.26	0.23	0.28	0.26	0.22
105	Middle Fork Irrigation District	1.84	1.84	0.77	1.24	1.31	1.66	2.72	3.09	3.08	2.93	2.93	2.84	2.42	1.98	2.15
106	Mile 28	1.32	1.32	1.23	0.69	0.18	0	0	0	0	0.62	0.62	1.20	1.29	1.36	0.66
107	Mill Creek (Cove Hydro)	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
108	Minikahda	0	0	0	0	0.04	0.05	0.05	0.08	0.05	0.07	0.07	0.07	0	0.01	0.03
109	Mink Creek	1.18	1.18	0.83	0.62	0.56	0.50	0.40	0.39	0.25	0.41	0.41	1.65	2.69	1.61	0.93
110	Mitchell Butte	1.05	1.05	1.07	0.42	0	0	0	0	0.28	0.83	0.83	1.24	1.25	1.09	0.60
111	Mora Drop	1.90	1.90	1.90	0	0	0	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.42
112	Morse Creek	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
113	Mt. Tabor	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
114	Mud Creek	0.50	0.50	0.65	0.66	0.74	0.60	0.47	0.53	0.50	0.50	0.50	0.49	0.44	0.50	0.55
115	N-32 Canal	1.12	1.12	1.15	1.12	1.15	0	0	0	1.12	1.15	1.15	1.12	1.15	1.12	0.85
116	Nichols Gap	0	0	0	0	0.42	0.62	0.19	0.55	0.58	0.40	0.40	0.02	0.01	0	0.23
117	Nicholson	0.22	0.22	0.16	0.21	0.19	0.20	0.14	0.21	0.19	0.16	0.16	0.19	0.23	0.22	0.19

Table A-9: Regional: Small Hydro

Operating Year 2022 Water Year: 1937

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
118	North Fork Sprague	0.03	0.03	0.07	0.01	0	0.05	0.15	0.26	0.16	0.27	0.27	0.92	0.45	0.15	0.21
119	North Willow Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
120	O. J. Power Company	0.01	0.01	0.07	0.03	0.05	0.05	0.06	0.07	0.08	0.07	0.07	0.08	0.11	0.10	0.06
121	Odell Creek	0.03	0.03	0.04	0.04	0.01	0.03	0.02	0.03	0.04	0.05	0.05	0.01	0	0.03	0.03
122	Opal Springs	2.63	2.63	2.95	3.62	3.16	2.94	2.94	3.51	2.60	2.71	2.71	4.47	1.62	2.23	2.95
123	Orchard Avenue	0.79	0.79	0.79	0.79	0	0	0	0	0	0	0.79	0.79	0.79	0.79	0.43
124	Owyhee Dam	2.78	2.78	1.99	0.59	0	0	0.24	0.64	1.76	3.35	3.35	3.88	3.33	3.16	1.82
125	Owyhee Tunnel No 1	4.27	4.27	2.56	0.54	0	0	0	0	2.35	5.10	5.10	5.83	5.85	5.93	2.72
126	Pancheri	0	0	0.01	0	0	0.01	0	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
127	PEC Headworks	4.50	4.50	3.10	2.20	0	0	0	0	0.40	5.10	5.10	6.50	6.20	5.80	2.83
128	Phillips Ranch	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
129	Phillipsburg	0.03	0.03	0.04	0.04	0.03	0.05	0.07	0.05	0.04	0.04	0.04	0.04	0.03	0.03	0.04
130	Pine Creek	0.08	0.09	0.08	0.08	0.08	0.09	0.09	0.08	0.08	0.08	0.08	0.09	0.08	0.08	0.08
131	Portland Hydro Project	2.34	2.34	2.92	6.66	16.2	19.9	18.4	17.2	16.4	17.4	17.4	15.1	8.42	3.16	12.0
132	Portneuf River	0.24	0.24	0.11	0.05	0.10	0.11	0	0	0	0	0	0.22	0.58	0.38	0.15
133	Potholes East Canal	1.80	1.80	1.80	1.60	0	0	0	0	0.60	1.80	1.80	1.80	1.80	1.80	1.09
134	Preston	0.37	0.38	0.37	0.36	0.35	0.35	0.37	0.37	0.38	0.37	0.38	0.31	0.31	0.38	0.36
135	Pristine Springs	0.28	0.28	0.41	0.43	0.31	0.33	0.28	0.25	0.27	0.35	0.35	0.37	0.32	0.28	0.32
136	Quincy Chute	7.70	7.70	4.00	2.30	0	0	0	0	0.80	5.50	5.50	7.10	8.40	8.50	3.71
137	Ravenscroft Ranch	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35
138	Reynolds Irrigation District	0.15	0.15	0.25	0.24	0.25	0.24	0.24	0.26	0.20	0.21	0.21	0.20	0.16	0.15	0.21
139	Rim View	0.17	0.17	0.25	0.26	0.19	0.20	0.17	0.15	0.16	0.22	0.22	0.23	0.20	0.17	0.20
140	Rock Creek #1	1.13	1.13	1.63	1.73	1.24	1.33	1.11	1.00	1.08	1.42	1.42	1.48	1.29	1.13	1.30
141	Rock Creek No 2	1.82	1.82	1.84	1.89	1.87	1.87	0.63	0.40	1.63	1.87	1.87	1.87	1.87	1.64	1.61
142	Rocky Brook	0	0	0	0.04	0.21	0.56	0.58	0.42	0.47	0.46	0.46	0.20	0.09	0	0.25
143	Russell D. Smith	4.00	4.00	2.60	1.40	0	0	0	0	0.20	2.40	2.40	3.80	4.20	3.40	1.84
144	Sagebrush	0.40	0.40	0.26	0.25	0.26	0.08	0.08	0.09	0.26	0.26	0.26	0.26	0.41	0.40	0.25
145	Sahko	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
146	Schaffner	0.36	0.36	0.26	0.25	0.26	0.14	0.14	0.16	0.29	0.30	0.30	0.29	0.37	0.36	0.26
147	Shingle Creek	0.11	0.11	0.16	0.17	0.12	0.13	0.11	0.10	0.10	0.14	0.14	0.14	0.12	0.11	0.12
148	Shoshone	0.90	0.90	0.92	0.29	0.31	0.05	0.04	0.02	0.10	0.54	0.54	0.84	0.82	0.86	0.47
149	Skookumchuck	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
150	Smith Creek (Washington)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
151	Snake River Pottery	0.03	0.03	0.04	0.04	0.04	0.06	0.06	0.07	0.04	0.04	0.04	0.04	0.03	0.03	0.04
152	Snedigar Ranch	0.15	0.15	0.22	0.21	0.22	0.15	0.15	0.17	0.11	0.12	0.12	0.11	0.16	0.15	0.16
153	South Dry Creek	0.52	0.53	0.49	0.50	0	0	0	0	0.50	0.50	0.49	0.58	0.49	0.47	0.34
154	Spencer Lake Hydro	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
155	Spring Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
156	Stayton Hydro	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
157	Stevenson #1	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
158	Stevenson #2	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
159	Strawberry Creek (MT)	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.06	0.06	0.06	0.06	0.07	0.06	0.06	0.06
160	Summer Falls	78.8	78.8	48.4	21.6	0	0	0	0	4.80	50.0	50.0	71.4	81.0	87.4	37.2
161	Sunshine	0.10	0.10	0.06	0.06	0.06	0.04	0.04	0.05	0.07	0.07	0.07	0.07	0.10	0.10	0.07
162	Sygitowicz Creek	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
163	Thompson's Mills	0.01	0.01	0.01	0.03	0.05	0.06	0.05	0.06	0.06	0.07	0.07	0.05	0.07	0.03	0.05
164	Tiber Dam	7.04	7.04	5.43	2.49	0.91	0	0	0	0.08	2.56	2.56	6.01	6.73	7.45	3.24
165	Tieton Dam (Yakima)	7.81	7.81	7.81	7.81	0	0	0	0	0	0	7.81	7.81	7.81	7.81	4.26
166	Trinity	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
167	Twin Falls (WA)	5.00	5.00	0	1.20	9.60	7.90	7.40	4.80	7.80	14.8	14.8	13.2	24.3	18.7	9.57
168	Upper Pine Creek	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
169	Upriver Dam	3.40	3.40	3.40	4.70	6.70	13.4	14.4	13.0	13.8	12.9	12.9	11.2	11.6	8.40	9.73
170	Walla Walla	1.54	1.54	1.44	1.28	1.17	1.29	1.17	1.53	1.75	1.77	1.77	1.48	1.54	1.76	1.48
171	Water Street	0.02	0.02	0.09	0.14	0.16	0.15	0.10	0.12	0.12	0.16	0.16	0.14	0.14	0.07	0.12
172	Weeks Falls	0.80	0.80	0	0.20	1.70	1.80	1.20	0.60	1.20	2.60	2.60	2.40	4.40	3.50	1.70
173	White Ranch	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
174	White Water Ranch	0.07	0.07	0.08	0.08	0.08	0.10	0.10	0.11	0.08	0.08	0.08	0.08	0.07	0.07	0.08
175	Whitefish	0.11	0.12	0.20	0.11	0.11	0.11	0.11	0.11	0.12	0.12	0.12	0.11	0.12	0.20	0.13
176	Wilson Lake	7.07	7.07	5.27	2.00	0.25	0	0	0	0.03	2.32	2.32	6.05	6.83	7.63	3.14

Table A-9: Regional: Small Hydro

Operating Year 2022 Water Year: 1937

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
177	Wisconsin Noble	0.04	0.04	0.05	0.05	0.04	0.06	0.08	0.06	0.05	0.05	0.05	0.05	0.04	0.03	0.05
178	Wolf Creek	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
179	Woods Creek	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
180	Yakama Drop 2	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
181	Yakama Drop 3	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
182	Youngs Creek	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
183	Zena Creek Ranch	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
	Total Small Hydro															
184	Cooperative	3.79	3.80	3.78	3.53	3.43	3.55	3.42	3.78	4.01	4.03	4.03	3.73	3.80	4.10	3.75
185	Federal Entities	2.83	2.83	2.83	2.87	3.04	3.39	3.41	3.25	3.30	3.29	3.29	3.03	2.92	2.83	3.08
186	Investor Owned Utilities	164	164	138	112	120	111	104	109	130	177	179	215	227	201	151
187	Marketer	7.81	7.81	7.81	7.81	0	0	0	0	0	0	7.81	7.81	7.81	7.81	4.26
188	Municipality	138	136	88.6	37.4	2.48	3.18	2.48	3.98	12.5	83.1	83.1	167	188	194	77.1
189	Public Utility District	17.9	17.9	12.7	10.1	5.38	5.38	5.38	5.38	6.58	16.1	16.1	19.1	20.2	20.0	12.0
190	**Total Small Hydro**	**334**	**332**	**253**	**174**	**134**	**126**	**119**	**125**	**157**	**284**	**293**	**416**	**449**	**430**	**251**

Table A-9: Regional: Small Hydro

Operating Year 2023 Water Year: 1937

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Small Hydro															
1	Albany-Millersburg Hydro Project	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
2	Amy Ranch	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33
3	Arena Drop	0.31	0.31	0.31	0	0	0	0	0	0	0.31	0.31	0.31	0.31	0.31	0.16
4	Barber Dam	2.38	2.38	1.93	0.84	0.31	0.97	2.16	2.64	3.28	3.22	3.22	3.14	3.24	3.28	2.28
5	Barney Creek	0.02	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.02	0.01	0.01	0.02
6	Beaverton	0	0	0	0.02	0.05	0.05	0.05	0.01	0	0.03	0.03	0.05	0	0	0.02
7	Bell Mountain	0.12	0.12	0.10	0.21	0.05	0.12	0.10	0.13	0.13	0.11	0.11	0.13	0.19	0.13	0.13
8	Big Elk Creek YMCA Camp	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	Big Sheep Creek	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60
10	Bigg's Creek (Pickering Micro)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	Billingsley Creek	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
12	Birch Creek Diversion Dam	0.04	0.04	0.05	0.05	0.06	0.06	0.04	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.05
13	Birch Creek (Gooding,ID)	1.25	1.25	1.11	1.00	1.14	1.10	0.31	1.19	1.73	1.63	1.63	1.60	1.34	1.19	1.21
14	Black Canyon #3	0.11	0.11	0.06	0.05	0.06	0	0	0	0.09	0.09	0.09	0.09	0.11	0.11	0.06
15	Black Creek	3.08	3.08	2.78	1.85	2.78	2.78	3.39	3.39	3.08	3.70	3.39	3.08	3.08	2.78	2.96
16	Blind Canyon	0.73	0.73	1.09	0.89	0.15	0	0	0	0	0.57	0.57	1.61	0.97	0.73	0.57
17	Boulder Creek	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
18	Box Canyon Springs	0.42	0.42	0.40	0.39	0.40	0.31	0.31	0.34	0.28	0.29	0.29	0.28	0.43	0.42	0.36
19	Briggs Creek	0.59	0.59	0.61	0.59	0.61	0.59	0.59	0.65	0.59	0.61	0.61	0.59	0.61	0.59	0.60
20	Briggs Project	0.20	0.20	0.12	0.21	0.21	0.22	0.13	0.20	0.22	0.13	0.13	0.20	0.19	0.12	0.18
21	Broadwater	1.11	1.13	1.55	1.91	2.06	1.64	1.58	1.74	1.80	2.76	2.70	3.22	2.74	1.99	2.01
22	Buffalo Hydro	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
23	Burr & Bouchard	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	Burton Creek	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
25	Bypass	8.26	8.26	6.54	2.82	0.99	0	0	0	0.06	2.94	2.94	7.01	8.16	8.68	3.81
26	Canyon Creek	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
27	Canyon Springs	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.10	0.09	0.09	0.09	0.09	0.09	0.09	0.09
28	Carlton	0	0	0	0	0.01	0.05	0.08	0.08	0.06	0.08	0.08	0.04	0.02	0	0.04
29	Cascade Creek	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
30	Cedar Draw Creek	0.30	0.30	0.92	0.89	0.92	1.16	1.16	1.28	0.42	0.43	0.43	0.42	0.31	0.30	0.71
31	Central Oregon Siphon	3.10	3.10	3.71	3.47	0.02	0.69	0	0.40	0.87	0.83	0.83	4.47	3.83	4.09	2.14
32	Cereghino	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55
33	Chester Hydroelectic Plant	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92
34	Clear Springs Trout	0.43	0.43	0.44	0.52	0.60	0.56	0.41	0.47	0.35	0.35	0.35	0.35	0.36	0.43	0.44
35	Company Creek	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
36	Cornelius	0	0	0	0	0	0.02	0.01	0.01	0.01	0	0	0	0	0	0
37	Cowiche	0.80	0.80	0.80	0.80	0	0	0	0	0	0	0.80	0.80	0.80	0.80	0.44
38	Crystal Springs	1.34	1.34	1.56	1.51	1.56	0.54	0.54	0.59	0.83	0.86	0.86	0.83	1.38	1.34	1.07
39	Curry Cattle Co.	0.21	0.21	0.22	0.14	0.08	0.05	0.04	0.04	0.07	0.09	0.09	0.18	0.20	0.18	0.12
40	Curtiss Livestock	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01
41	Cushman North Fork	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25
42	D. Wiggins	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43	Deep Creek	0.01	0.01	0.01	0	0	0	0	0	0	0.01	0.01	0.02	0.03	0.02	0.01
44	Denny Creek	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
45	Dietrich Drop	4.67	4.67	3.56	3.09	1.37	0	0	0	0	3.09	3.09	4.67	4.67	4.52	2.48
46	Donald Jenni	0.07	0.08	0.07	0.07	0.07	0.08	0.08	0.07	0.07	0.07	0.07	0.08	0.07	0.07	0.07
47	Dry Creek	0.94	0.94	1.00	0.80	0.43	0	0.33	0.27	0.37	0.41	0.41	0.90	2.66	2.09	0.85
48	Dworshak-Clearwater Hatchery	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63
49	Ebey Hill (Kevin Duncan)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50	Elk Creek	1.19	1.19	0.01	0.01	0.01	0.10	0.10	0.11	1.00	1.04	1.04	1.00	1.23	1.19	0.59
51	Eltopia Branch Canal 4.6	1.80	1.80	1.20	0.60	0	0	0	0	0	1.40	1.40	2.00	2.00	2.20	0.94
52	Esquatzel Small Hydro	0.90	0.90	0.80	0.80	0.60	0.60	0.60	0.60	0.60	0.70	0.70	0.70	0.80	0.90	0.72
53	Falls Creek (Or)	0	0	0	0	1.88	3.08	0.91	2.72	2.66	4.35	4.35	4.11	3.82	0	1.95
54	Falls Creek (Wa)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
55	Falls River Hydro	6.46	6.46	6.29	5.72	5.58	4.96	4.18	3.75	3.79	6.22	6.22	7.91	8.55	7.08	5.88
56	Farmers Irr Dist Proj No 2	0.35	0.35	0.45	0.77	2.02	2.00	1.34	2.88	2.04	2.19	2.19	2.96	0.52	0.45	1.49
57	Farmers Irr Dist Proj No 3	0.21	0.21	0.27	0.46	1.21	1.20	0.81	1.73	1.22	1.32	1.32	1.77	0.31	0.27	0.89
58	Faulkner Ranch	0.82	0.82	0.71	0.69	0.71	0.30	0.30	0.34	0.54	0.56	0.56	0.54	0.85	0.82	0.60

Table A-9: Regional: Small Hydro

Operating Year 2023 Water Year: 1937

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
59	Fisheries Development #1	0.24	0.24	0.26	0.22	0.27	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.24	0.23	0.25
60	Flying W	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61	Ford	0	0	0	0	0.30	0.50	0.90	0.90	1.10	1.10	1.10	0.70	0.30	0.10	0.49
62	Forgy	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
63	Galesville	0.63	0.63	0.38	0.18	0.17	0.26	0.01	0.25	0.35	0.43	0.43	0.33	0.35	0.54	0.32
64	Geo-Bon #2	0.97	0.97	0.35	0.34	0.35	0.24	0.24	0.26	0.59	0.61	0.61	0.59	1.00	0.97	0.54
65	Georgetown	0	0	0.24	0.30	0.32	0.31	0.28	0.27	0.25	0.28	0.28	0.34	0.22	0	0.23
66	Gillihan	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
67	Ground Water Pumping Station	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
68	Hailey	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
69	Hazelton A	7.04	7.04	5.43	2.49	0.91	0	0	0	0.08	2.56	2.56	6.01	6.73	7.45	3.24
70	Hazelton B	6.61	6.61	5.15	2.36	0.67	0	0	0	0.06	2.23	2.23	5.64	6.41	6.97	3.03
71	Hettinger	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
72	Horseshoe Bend	8.79	8.79	7.55	3.91	2.78	3.50	3.86	4.65	5.89	8.81	8.81	9.93	9.80	9.22	6.56
73	Hutchinson Creek	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
74	James Boyd	0	0	0	0	0	0.37	0.34	0.58	0.69	0.81	0.81	0.50	0	0	0.27
75	James White	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.20	0.20	0.30	0.20	0.20	0.14
76	Jim Knight	0.36	0.36	0.25	0.25	0.25	0.09	0.09	0.10	0.25	0.25	0.25	0.25	0.37	0.36	0.24
77	John Day Creek	0.20	0.20	0.20	0.20	0.20	0.20	0.30	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.21
78	Juniper Ridge Hydro	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37
79	Kasel-Withersppon	0.90	0.90	0.94	0.60	0.36	0.19	0.15	0.16	0.27	0.36	0.36	0.76	0.85	0.78	0.53
80	Kaster Riverview	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
81	Koma Kulshan	4.60	4.60	4.30	6.40	8.00	6.10	3.90	3.80	4.40	6.90	6.90	9.40	10.4	8.20	6.38
82	Koyle Ranch Power	1.05	1.05	1.14	0.99	1.04	0.16	0.15	0.06	0.32	0.82	0.82	1.25	0.78	0.94	0.73
83	L & M Angus Ranch	0.23	0.23	0.28	0.32	0.51	0.50	0.41	0.42	0.45	0.40	0.40	0.35	0.27	0.27	0.37
84	Lacomb	0	0	0	0	0.21	0.97	0.22	0.89	0.89	1.05	1.05	0.95	0.88	0.42	0.54
85	Lake Creek (OR)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
86	Lake Oswego	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
87	Lateral #10	1.21	1.21	1.25	1.60	1.65	1.21	1.21	1.34	1.41	1.45	1.45	1.41	1.25	1.21	1.35
88	Le Moyne	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
89	Lee Tavenner	0.06	0.06	0.08	0.08	0.07	0.10	0.13	0.10	0.08	0.09	0.08	0.08	0.07	0.05	0.08
90	Little Butte Ranch	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
91	Little Mac	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
92	Little Wood River Ranch	1.94	1.94	0.21	0.20	0.21	0	0	0	1.61	1.66	1.66	1.61	2.00	1.94	0.95
93	Little Wood River Reservoir	0.73	0.73	0.44	0.42	0.44	0.20	0.20	0.22	0.44	0.45	0.45	0.44	0.75	0.73	0.46
94	Low line Canal Drop	7.82	7.82	7.50	7.26	7.50	0.63	0.63	0.70	5.28	5.45	5.45	5.28	8.08	7.82	5.35
95	Low Line Midway	2.00	2.00	0	0	0	0	0	0	0	0	0	0	2.00	2.00	0.50
96	Lower Low line	2.69	2.69	2.48	1.80	1.45	0	0	0.68	1.88	2.48	2.48	2.69	2.69	2.69	1.80
97	Loyd F. Fery Farms	0.03	0.03	0.03	0.04	0.04	0.02	0.04	0.04	0.03	0.03	0.04	0.03	0.03	0.04	0.03
98	LQ-LS Drains (Pigeon Cove)	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88
99	Lucky Peak	28.6	26.8	19.9	4.50	0	0.70	0	1.50	1.60	11.4	11.4	67.7	75.2	73.0	23.7
100	Magic Dam	6.82	6.82	4.40	0.49	0.17	0.10	0.25	0.15	0.86	2.99	2.99	8.25	9.08	8.96	3.56
101	Main Canal Headworks	20.4	20.4	12.2	5.20	0	0	0	0	2.80	13.6	13.6	18.2	21.2	23.6	9.82
102	Marsh Valley	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44
103	Meyers Falls	0.77	0.77	0.69	0.46	0.69	0.69	0.46	0.61	0.84	0.84	0.84	0.77	0.92	0.84	0.72
104	Meyers Falls 1910	0.23	0.23	0.21	0.14	0.21	0.21	0.14	0.19	0.26	0.26	0.26	0.23	0.28	0.26	0.22
105	Middle Fork Irrigation District	1.84	1.84	0.77	1.24	1.31	1.66	2.72	3.09	3.08	2.93	2.93	2.84	2.42	1.98	2.15
106	Mile 28	1.32	1.32	1.23	0.69	0.18	0	0	0	0	0.62	0.62	1.20	1.29	1.36	0.66
107	Mill Creek (Cove Hydro)	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
108	Minikahda	0	0	0	0	0.04	0.05	0.05	0.08	0.05	0.07	0.07	0.07	0	0.01	0.03
109	Mink Creek	1.18	1.18	0.83	0.62	0.56	0.50	0.40	0.39	0.25	0.41	0.41	1.65	2.69	1.61	0.93
110	Mitchell Butte	1.05	1.05	1.07	0.42	0	0	0	0	0.28	0.83	0.83	1.24	1.25	1.09	0.60
111	Mora Drop	1.90	1.90	1.90	0	0	0	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.42
112	Morse Creek	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
113	Mt. Tabor	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
114	Mud Creek	0.50	0.50	0.65	0.66	0.74	0.60	0.47	0.53	0.50	0.50	0.50	0.49	0.44	0.50	0.55
115	N-32 Canal	1.12	1.12	1.15	1.12	1.15	0	0	0	1.12	1.15	1.15	1.12	1.15	1.12	0.85
116	Nichols Gap	0	0	0	0	0.42	0.62	0.19	0.55	0.58	0.40	0.40	0.02	0.01	0	0.23
117	Nicholson	0.22	0.22	0.16	0.21	0.19	0.20	0.14	0.21	0.19	0.16	0.16	0.19	0.23	0.22	0.19

Table A-9: Regional: Small Hydro

Operating Year 2023 Water Year: 1937

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
118	North Fork Sprague	0.03	0.03	0.07	0.01	0	0.05	0.15	0.26	0.16	0.27	0.27	0.92	0.45	0.15	0.21
119	North Willow Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
120	O. J. Power Company	0.01	0.01	0.07	0.03	0.05	0.05	0.06	0.07	0.08	0.07	0.07	0.08	0.11	0.10	0.06
121	Odell Creek	0.03	0.03	0.04	0.04	0.01	0.03	0.02	0.03	0.04	0.05	0.05	0.01	0	0.03	0.03
122	Opal Springs	2.63	2.63	2.95	3.62	3.16	2.94	2.94	3.51	2.60	2.71	2.71	4.47	1.62	2.23	2.95
123	Orchard Avenue	0.79	0.79	0.79	0.79	0	0	0	0	0	0	0.79	0.79	0.79	0.79	0.43
124	Owyhee Dam	2.78	2.78	1.99	0.59	0	0	0.24	0.64	1.76	3.35	3.35	3.88	3.33	3.16	1.82
125	Owyhee Tunnel No 1	4.27	4.27	2.56	0.54	0	0	0	0	2.35	5.10	5.10	5.83	5.85	5.93	2.72
126	Pancheri	0	0	0.01	0	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0	0	0.01	0.01
127	PEC Headworks	4.50	4.50	3.10	2.20	0	0	0	0	0.40	5.10	5.10	6.50	6.20	5.80	2.83
128	Phillips Ranch	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
129	Phillipsburg	0.03	0.03	0.04	0.04	0.03	0.05	0.07	0.05	0.04	0.04	0.04	0.04	0.03	0.03	0.04
130	Pine Creek	0.08	0.09	0.08	0.08	0.08	0.09	0.09	0.08	0.08	0.08	0.08	0.09	0.08	0.08	0.08
131	Portland Hydro Project	2.34	2.34	2.92	6.66	16.2	19.9	18.4	17.2	16.4	17.4	17.4	15.1	8.42	3.16	12.0
132	Portneuf River	0.24	0.24	0.11	0.05	0.10	0.11	0	0	0	0	0	0.22	0.58	0.38	0.15
133	Potholes East Canal	1.80	1.80	1.80	1.60	0	0	0	0	0.60	1.80	1.80	1.80	1.80	1.80	1.09
134	Preston	0.37	0.38	0.37	0.36	0.35	0.35	0.37	0.37	0.38	0.37	0.38	0.31	0.31	0.38	0.36
135	Pristine Springs	0.28	0.28	0.41	0.43	0.31	0.33	0.28	0.25	0.27	0.35	0.35	0.37	0.32	0.28	0.32
136	Quincy Chute	7.70	7.70	4.00	2.30	0	0	0	0	0.80	5.50	5.50	7.10	8.40	8.50	3.71
137	Ravenscroft Ranch	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35
138	Reynolds Irrigation District	0.15	0.15	0.25	0.24	0.25	0.24	0.24	0.26	0.20	0.21	0.21	0.20	0.16	0.15	0.21
139	Rim View	0.17	0.17	0.25	0.26	0.19	0.20	0.17	0.15	0.16	0.22	0.22	0.23	0.20	0.17	0.20
140	Rock Creek #1	1.13	1.13	1.63	1.73	1.24	1.33	1.11	1.00	1.08	1.42	1.42	1.48	1.29	1.13	1.30
141	Rock Creek No 2	1.82	1.82	1.84	1.89	1.87	1.87	0.63	0.40	1.63	1.87	1.87	1.87	1.87	1.64	1.61
142	Rocky Brook	0	0	0	0.04	0.21	0.56	0.58	0.42	0.47	0.46	0.46	0.20	0.09	0	0.25
143	Russell D. Smith	4.00	4.00	2.60	1.40	0	0	0	0	0.20	2.40	2.40	3.80	4.20	3.40	1.84
144	Sagebrush	0.40	0.40	0.26	0.25	0.26	0.08	0.08	0.09	0.26	0.26	0.26	0.26	0.41	0.40	0.25
145	Sahko	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
146	Schaffner	0.36	0.36	0.26	0.25	0.26	0.14	0.14	0.16	0.29	0.30	0.30	0.29	0.37	0.36	0.26
147	Shingle Creek	0.11	0.11	0.16	0.17	0.12	0.13	0.11	0.10	0.10	0.14	0.14	0.14	0.12	0.11	0.12
148	Shoshone	0.90	0.90	0.92	0.29	0.31	0.05	0.04	0.02	0.10	0.54	0.54	0.84	0.82	0.86	0.47
149	Skookumchuck	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
150	Smith Creek (Washington)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
151	Snake River Pottery	0.03	0.03	0.04	0.04	0.04	0.06	0.06	0.07	0.04	0.04	0.04	0.04	0.03	0.03	0.04
152	Snedigar Ranch	0.15	0.15	0.22	0.21	0.22	0.15	0.15	0.17	0.11	0.12	0.12	0.11	0.16	0.15	0.16
153	South Dry Creek	0.52	0.53	0.49	0.50	0	0	0	0	0.50	0.50	0.49	0.58	0.49	0.47	0.34
154	Spencer Lake Hydro	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
155	Spring Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
156	Stayton Hydro	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
157	Stevenson #1	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
158	Stevenson #2	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
159	Strawberry Creek (MT)	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.06	0.06	0.06	0.06	0.07	0.06	0.06	0.06
160	Summer Falls	78.8	78.8	48.4	21.6	0	0	0	0	4.80	50.0	50.0	71.4	81.0	87.4	37.2
161	Sunshine	0.10	0.10	0.06	0.06	0.06	0.04	0.04	0.05	0.07	0.07	0.07	0.07	0.10	0.10	0.07
162	Sygitowicz Creek	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
163	Thompson's Mills	0.01	0.01	0.01	0.03	0.05	0.06	0.05	0.06	0.06	0.07	0.07	0.05	0.07	0.03	0.05
164	Tiber Dam	7.04	7.04	5.43	2.49	0.91	0	0	0	0.08	2.56	2.56	6.01	6.73	7.45	3.24
165	Tieton Dam (Yakima)	7.81	7.81	7.81	7.81	0	0	0	0	0	0	7.81	7.81	7.81	7.81	4.26
166	Trinity	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
167	Twin Falls (WA)	5.00	5.00	0	1.20	9.60	7.90	7.40	4.80	7.80	14.8	14.8	13.2	24.3	18.7	9.57
168	Upper Pine Creek	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
169	Upriver Dam	3.40	3.40	3.40	4.70	6.70	13.4	14.4	13.0	13.8	12.9	12.9	11.2	11.6	8.40	9.73
170	Walla Walla	1.54	1.54	1.44	1.28	1.17	1.29	1.17	1.53	1.75	1.77	1.77	1.48	1.54	1.76	1.48
171	Water Street	0.02	0.02	0.09	0.14	0.16	0.15	0.10	0.12	0.12	0.16	0.16	0.14	0.14	0.07	0.12
172	Weeks Falls	0.80	0.80	0	0.20	1.70	1.80	1.20	0.60	1.20	2.60	2.60	2.40	4.40	3.50	1.70
173	White Ranch	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
174	White Water Ranch	0.07	0.07	0.08	0.08	0.08	0.10	0.10	0.11	0.08	0.08	0.08	0.08	0.07	0.07	0.08
175	Whitefish	0.12	0.12	0.20	0.11	0.11	0.11	0.11	0.11	0.12	0.12	0.11	0.11	0.12	0.20	0.13
176	Wilson Lake	7.07	7.07	5.27	2.00	0.25	0	0	0	0.03	2.32	2.32	6.05	6.83	7.63	3.14

Table A-9: Regional: Small Hydro

Operating Year 2023 Water Year: 1937

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
177	Wisconsin Noble	0.04	0.04	0.05	0.05	0.04	0.06	0.08	0.06	0.05	0.05	0.05	0.05	0.04	0.03	0.05
178	Wolf Creek	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
179	Woods Creek	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
180	Yakama Drop 2	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
181	Yakama Drop 3	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
182	Youngs Creek	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
183	Zena Creek Ranch	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
	Total Small Hydro															
184	Cooperative	3.80	3.80	3.78	3.53	3.43	3.55	3.42	3.78	4.01	4.03	4.02	3.73	3.80	4.10	3.75
185	Federal Entities	2.83	2.83	2.83	2.87	3.04	3.39	3.41	3.25	3.30	3.29	3.29	3.03	2.92	2.83	3.08
186	Investor Owned Utilities	164	164	138	112	120	111	104	109	130	177	179	215	227	201	151
187	Marketer	7.81	7.81	7.81	7.81	0	0	0	0	0	0	7.81	7.81	7.81	7.81	4.26
188	Municipality	138	136	88.6	37.4	2.48	3.18	2.48	3.98	12.5	83.1	83.1	167	188	194	77.1
189	Public Utility District	17.9	17.9	12.7	10.1	5.38	5.38	5.38	5.38	6.58	16.1	16.1	19.1	20.2	20.0	12.0
190	**Total Small Hydro**	**334**	**332**	**253**	**174**	**134**	**126**	**119**	**125**	**157**	**284**	**293**	**416**	**449**	**430**	**251**

THIS PAGE INTENTIONALLY LEFT BLANK

Exhibit 29
Table A-10: Regional Combustion Turbines

Monthly Energy
Operating Year 2014 to 2023
Using 1937-Water Conditions

Table A-10: Regional: Combustion Turbine Resources

Operating Year 2014

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Combustion Turbine Resources															
1	Basin Creek Project	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	32.5	32.5	47.5	45.0
2	Beaver	470	477	486	496	503	503	500	496	490	490	484	318	312	470	461
3	Beaver	451	458	467	477	484	484	481	477	471	471	465	305	299	451	443
4	Beaver 8	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	13.0	13.0	19.0	18.0
5	Bennett Mountain Peaking Plant	153	153	156	160	163	169	169	164	159	160	160	104	102	153	151
6	Big Hanaford	236	236	236	236	236	236	236	236	236	236	236	86.8	236	236	223
7	Boulder Park	23.4	23.4	23.4	21.0	21.0	21.0	23.4	23.4	23.4	23.4	23.4	16.0	16.0	23.4	21.6
8	Carty Generating Station	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	Chehalis Generation Facility	460	460	465	475	484	487	488	485	483	478	478	471	157	460	450
10	Dave Gates Generating Station	143	143	143	143	143	143	143	143	143	143	143	97.5	97.5	143	135
11	Encogen	152	152	154	157	160	161	162	160	159	158	158	105	103	152	148
12	Evander Andrews Complex	237	237	241	246	251	261	261	253	245	247	247	162	158	236	233
13	Danskin 1	77.9	77.9	79.8	81.7	83.6	87.4	87.4	83.6	81.7	81.7	81.7	54.1	52.2	77.9	77.4
14	Danskin 2	159	159	162	164	167	174	174	169	163	165	165	108	106	158	156
15	Frederickson CT	251	251	254	259	263	264	265	263	262	260	260	174	171	252	245
16	Frederickson Power Project	139	139	141	145	150	152	152	150	149	147	147	95.8	92.7	139	138
17	Fredonia	296	296	301	310	318	324	325	320	317	312	312	204	198	296	293
18	Fredonia 1 & 2	195	195	198	204	209	212	213	210	208	205	205	134	131	195	193
19	Fredonia 3 & 4	101	101	103	106	109	112	112	110	109	107	107	69.5	67.1	101	100
20	Goldendale Energy Center	244	244	249	253	258	261	260	258	256	254	254	167	165	244	239
21	Grimes Way	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	2.60	2.60	3.80	3.60
22	Kettle Falls Station (CT)	8.10	8.10	9.00	9.50	9.50	10.5	10.5	10.5	9.50	9.50	9.50	5.30	5.30	8.10	8.77
23	Klamath Generation Facility	460	460	460	460	460	460	460	460	460	460	460	315	315	460	436
24	Klamath Generation Peakings (C	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	65.0	65.0	95.0	90.0
25	Langley Gulch CT	285	285	285	285	285	285	285	285	285	285	285	195	195	285	270
26	Loki Peaking Project	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	3.90	10.5	10.5	9.94
27	Mint Farm Energy Center	271	271	274	280	284	286	286	284	283	281	281	188	185	272	264
28	Northeast 1 & 2	41.8	41.8	43.7	19.8	60.8	62.7	62.7	60.8	58.9	57.0	57.0	43.7	43.7	39.9	49.5
29	Olympic View	5.60	5.60	5.60	5.60	5.60	5.60	5.60	5.60	5.60	5.60	5.60	3.80	3.80	5.60	5.30
30	Pasco Peak Power Plant	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	15.4	41.8	41.8	39.6
31	Port Westward	379	379	380	389	397	402	402	400	396	390	390	259	254	378	369
32	Port Westward 1	379	379	380	389	397	402	402	400	396	390	390	259	254	378	369
33	Port Westward 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	Rathdrum	132	132	135	148	160	165	167	163	160	154	154	95.4	87.8	139	142
35	River Road	236	236	236	236	236	236	236	236	236	236	236	86.8	236	236	223
36	Satsop Combustion Turbine Proj	618	618	618	618	618	618	618	618	618	618	618	228	618	618	584
37	University of Washington Power	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	9.80	9.80	14.3	13.5
38	Whitehorn	140	140	142	146	150	152	153	151	149	147	147	96.3	93.8	140	138
	Total Combustion Turbine Resources															
39	Investor Owned Utilities	3746	3752	3803	3858	4066	4118	4123	4081	3941	3912	3905	2742	2381	3750	3709
40	Marketer	1408	1408	1408	1408	1313	1313	1313	1313	1408	1408	1408	694	1233	1408	1302
41	Municipality	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	12.4	12.4	18.1	17.1
42	Public Utility District	420	420	421	423	425	426	426	425	425	424	424	197	377	420	400
43	**Total**	**5591**	**5598**	**5650**	**5707**	**5822**	**5875**	**5880**	**5837**	**5792**	**5762**	**5755**	**3646**	**4004**	**5596**	**5428**

Table A-10: Regional: Combustion Turbine Resources

Operating Year 2015

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Combustion Turbine Resources															
1	Basin Creek Project	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	32.5	32.5	47.5	45.0
2	Beaver	470	477	486	496	503	503	500	496	490	490	484	318	312	470	461
3	Beaver	451	458	467	477	484	484	481	477	471	471	465	305	299	451	443
4	Beaver 8	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	13.0	13.0	19.0	18.0
5	Bennett Mountain Peaking Plant	153	153	156	160	163	169	169	164	159	160	160	104	102	153	151
6	Big Hanaford	236	236	236	236	236	236	236	236	236	236	236	86.8	236	236	223
7	Boulder Park	23.4	23.4	23.4	21.0	21.0	21.0	23.4	23.4	23.4	23.4	23.4	16.0	16.0	23.4	21.6
8	Carty Generating Station	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	Chehalis Generation Facility	379	460	465	475	484	487	488	485	483	478	478	471	157	460	446
10	Dave Gates Generating Station	143	143	143	143	143	143	143	143	143	143	143	97.5	97.5	143	135
11	Encogen	152	152	154	157	160	161	162	160	159	158	158	105	103	152	148
12	Evander Andrews Complex	237	237	241	246	251	261	261	253	245	247	247	162	158	236	233
13	Danskin 1	77.9	77.9	79.8	81.7	83.6	87.4	87.4	83.6	81.7	81.7	81.7	54.1	52.2	77.9	77.4
14	Danskin 2	159	159	162	164	167	174	174	169	163	165	165	108	106	158	156
15	Frederickson CT	251	251	254	259	263	264	265	263	262	260	260	174	171	252	245
16	Frederickson Power Project	139	139	141	145	150	152	152	150	149	147	147	95.8	92.7	139	138
17	Fredonia	296	296	301	310	318	324	325	320	317	312	312	204	198	296	293
18	Fredonia 1 & 2	195	195	198	204	209	212	213	210	208	205	205	134	131	195	193
19	Fredonia 3 & 4	101	101	103	106	109	112	112	110	109	107	107	69.5	67.1	101	100
20	Goldendale Energy Center	244	244	249	253	258	261	260	258	256	254	254	167	165	244	239
21	Grimes Way	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	2.60	2.60	3.80	3.60
22	Kettle Falls Station (CT)	8.10	8.10	9.00	9.50	9.50	10.5	10.5	10.5	9.50	9.50	9.50	5.30	5.30	8.10	8.77
23	Klamath Generation Facility	460	460	460	460	460	460	460	460	460	460	460	315	315	460	436
24	Klamath Generation Peakings (C	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	65.0	65.0	95.0	90.0
25	Langley Gulch CT	285	285	285	285	285	285	285	285	285	285	285	195	195	285	270
26	Loki Peaking Project	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	3.90	10.5	10.5	9.94
27	Mint Farm Energy Center	271	271	274	280	284	286	286	284	283	281	281	188	185	272	264
28	Northeast 1 & 2	41.8	41.8	43.7	19.8	60.8	62.7	62.7	60.8	58.9	57.0	57.0	43.7	43.7	39.9	49.5
29	Olympic View	5.60	5.60	5.60	5.60	5.60	5.60	5.60	5.60	5.60	5.60	5.60	3.80	3.80	5.60	5.30
30	Pasco Peak Power Plant	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	15.4	41.8	41.8	39.6
31	Port Westward	379	379	380	389	397	402	589	587	583	577	577	446	441	565	477
32	Port Westward 1	379	379	380	389	397	402	402	400	396	390	390	259	254	378	369
33	Port Westward 2	0	0	0	0	0	0	187	187	187	187	187	187	187	187	109
34	Rathdrum	132	132	135	148	160	165	167	163	160	154	154	95.4	87.8	139	142
35	River Road	236	236	236	236	236	236	236	236	236	236	236	86.8	236	236	223
36	Satsop Combustion Turbine Proj	618	618	618	618	618	618	618	618	618	618	618	228	618	618	584
37	University of Washington Power	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	9.80	9.80	14.3	13.5
38	Whitehorn	140	140	142	146	150	152	153	151	149	147	147	96.3	93.8	140	138
	Total Combustion Turbine Resources															
39	Investor Owned Utilities	3665	3752	3803	3858	4066	4118	4310	4268	4128	4099	4092	2929	2568	3937	3814
40	Marketer	1408	1408	1408	1408	1313	1313	1313	1313	1408	1408	1408	694	1233	1408	1302
41	Municipality	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	12.4	12.4	18.1	17.1
42	Public Utility District	420	420	421	423	425	426	426	425	425	424	424	197	377	420	400
43	**Total**	**5510**	**5598**	**5650**	**5707**	**5822**	**5875**	**6067**	**6024**	**5979**	**5949**	**5942**	**3833**	**4191**	**5783**	**5533**

Table A-10: Regional: Combustion Turbine Resources

Operating Year 2016

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Combustion Turbine Resources															
1	Basin Creek Project	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	32.5	32.5	47.5	45.0
2	Beaver	470	477	486	496	503	503	500	496	490	490	484	318	312	470	461
3	Beaver	451	458	467	477	484	484	481	477	471	471	465	305	299	451	443
4	Beaver 8	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	13.0	13.0	19.0	18.0
5	Bennett Mountain Peaking Plant	153	153	156	160	163	169	169	164	159	160	160	104	102	153	151
6	Big Hanaford	236	236	236	236	236	236	236	236	236	236	236	86.8	236	236	223
7	Boulder Park	23.4	23.4	23.4	21.0	21.0	21.0	23.4	23.4	23.4	23.4	23.4	16.0	16.0	23.4	21.6
8	Carty Generating Station	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	Chehalis Generation Facility	460	460	465	475	484	487	488	485	483	478	478	471	157	460	450
10	Dave Gates Generating Station	143	143	143	143	143	143	143	143	143	143	143	97.5	97.5	143	135
11	Encogen	152	152	154	157	160	161	162	160	159	158	158	105	103	152	148
12	Evander Andrews Complex	237	237	241	246	251	261	261	253	245	247	247	162	158	236	233
13	Danskin 1	77.9	77.9	79.8	81.7	83.6	87.4	87.4	83.6	81.7	81.7	81.7	54.1	52.2	77.9	77.4
14	Danskin 2	159	159	162	164	167	174	174	169	163	165	165	108	106	158	156
15	Frederickson CT	251	251	254	259	263	264	265	263	262	260	260	174	171	252	245
16	Frederickson Power Project	139	139	141	145	150	152	152	150	149	147	147	95.8	92.7	139	138
17	Fredonia	296	296	301	310	318	324	325	320	317	312	312	204	198	296	293
18	Fredonia 1 & 2	195	195	198	204	209	212	213	210	208	205	205	134	131	195	193
19	Fredonia 3 & 4	101	101	103	106	109	112	112	110	109	107	107	69.5	67.1	101	101
20	Goldendale Energy Center	244	244	249	253	258	261	260	258	256	254	254	167	165	244	239
21	Grimes Way	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	2.60	2.60	3.80	3.60
22	Kettle Falls Station (CT)	8.10	8.10	9.00	9.50	9.50	10.5	10.5	10.5	9.50	9.50	9.50	5.30	5.30	8.10	8.77
23	Klamath Generation Facility	460	460	460	460	460	460	460	460	460	460	460	315	315	460	436
24	Klamath Generation Peakings (C	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	65.0	65.0	95.0	90.0
25	Langley Gulch CT	285	285	285	285	285	285	285	285	285	285	285	195	195	285	270
26	Loki Peaking Project	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	3.90	10.5	10.5	9.94
27	Mint Farm Energy Center	271	271	274	280	284	286	286	284	283	281	281	188	185	272	264
28	Northeast 1 & 2	41.8	41.8	43.7	19.8	60.8	62.7	62.7	60.8	58.9	57.0	57.0	43.7	43.7	39.9	49.5
29	Olympic View	5.60	5.60	5.60	5.60	5.60	5.60	5.60	5.60	5.60	5.60	5.60	3.80	3.80	5.60	5.30
30	Pasco Peak Power Plant	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	15.4	41.8	41.8	39.6
31	Port Westward	566	566	567	576	584	589	589	587	583	577	577	446	441	565	556
32	Port Westward 1	379	379	380	389	397	402	402	400	396	390	390	259	254	378	369
33	Port Westward 2	187	187	187	187	187	187	187	187	187	187	187	187	187	187	187
34	Rathdrum	132	132	135	148	160	165	167	163	160	154	154	95.4	87.8	139	142
35	River Road	236	236	236	236	236	236	236	236	236	236	236	86.8	236	236	223
36	Satsop Combustion Turbine Proj	618	618	618	618	618	618	618	618	618	618	618	228	618	618	584
37	University of Washington Power	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	9.80	9.80	14.3	13.6
38	Whitehorn	140	140	142	146	150	152	153	151	149	147	147	96.3	93.8	140	138
	Total Combustion Turbine Resources															
39	Investor Owned Utilities	3933	3939	3990	4045	4253	4305	4310	4268	4128	4099	4092	2929	2568	3937	3897
40	Marketer	1408	1408	1408	1408	1313	1313	1313	1313	1408	1408	1408	694	1233	1408	1302
41	Municipality	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	12.4	12.4	18.1	17.2
42	Public Utility District	420	420	421	423	425	426	426	425	425	424	424	197	377	420	400
43	**Total**	**5778**	**5785**	**5837**	**5894**	**6009**	**6062**	**6067**	**6024**	**5979**	**5949**	**5942**	**3833**	**4191**	**5783**	**5616**

Table A-10: Regional: Combustion Turbine Resources

Operating Year 2017

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Combustion Turbine Resources															
1	Basin Creek Project	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	32.5	32.5	47.5	45.0
2	Beaver	470	477	486	496	503	503	500	496	490	490	484	318	312	470	461
3	Beaver	451	458	467	477	484	484	481	477	471	471	465	305	299	451	443
4	Beaver 8	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	13.0	13.0	19.0	18.0
5	Bennett Mountain Peaking Plant	153	153	156	160	163	169	169	164	159	160	160	104	102	153	151
6	Big Hanaford	236	236	236	236	236	236	236	236	236	236	236	86.8	236	236	223
7	Boulder Park	23.4	23.4	23.4	21.0	21.0	21.0	23.4	23.4	23.4	23.4	23.4	16.0	16.0	23.4	21.6
8	Carty Generating Station	0	0	374	374	374	374	374	374	374	374	374	374	374	374	342
9	Chehalis Generation Facility	460	460	465	475	484	487	488	485	483	478	478	471	157	460	450
10	Dave Gates Generating Station	143	143	143	143	143	143	143	143	143	143	143	97.5	97.5	143	135
11	Encogen	152	152	154	157	160	161	162	160	159	158	158	105	103	152	148
12	Evander Andrews Complex	237	237	241	246	251	261	261	253	245	247	247	162	158	236	233
13	Danskin 1	77.9	77.9	79.8	81.7	83.6	87.4	87.4	83.6	81.7	81.7	81.7	54.1	52.2	77.9	77.4
14	Danskin 2	159	159	162	164	167	174	174	169	163	165	165	108	106	158	156
15	Frederickson CT	251	251	254	259	263	264	265	263	262	260	260	174	171	252	245
16	Frederickson Power Project	139	139	141	145	150	152	152	150	149	147	147	95.8	92.7	139	138
17	Fredonia	296	296	301	310	318	324	325	320	317	312	312	204	198	296	293
18	Fredonia 1 & 2	195	195	198	204	209	212	213	210	208	205	205	134	131	195	193
19	Fredonia 3 & 4	101	101	103	106	109	112	112	110	109	107	107	69.5	67.1	101	100
20	Goldendale Energy Center	244	244	249	253	258	261	260	258	256	254	254	167	165	244	239
21	Grimes Way	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	2.60	2.60	3.80	3.60
22	Kettle Falls Station (CT)	8.10	8.10	9.00	9.50	9.50	10.5	10.5	10.5	9.50	9.50	9.50	5.30	5.30	8.10	8.77
23	Klamath Generation Facility	460	460	460	460	460	460	460	460	460	460	460	315	315	460	436
24	Klamath Generation Peakings (C	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	65.0	65.0	95.0	90.0
25	Langley Gulch CT	285	285	285	285	285	285	285	285	285	285	285	195	195	285	270
26	Loki Peaking Project	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	3.90	10.5	10.5	9.94
27	Mint Farm Energy Center	271	271	274	280	284	286	286	284	283	281	281	188	185	272	264
28	Northeast 1 & 2	41.8	41.8	43.7	19.8	60.8	62.7	62.7	60.8	58.9	57.0	57.0	43.7	43.7	39.9	49.5
29	Olympic View	5.60	5.60	5.60	5.60	5.60	5.60	5.60	5.60	5.60	5.60	5.60	3.80	3.80	5.60	5.30
30	Pasco Peak Power Plant	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	15.4	41.8	41.8	39.6
31	Port Westward	566	566	567	576	584	589	589	587	583	577	577	446	441	565	556
32	Port Westward 1	379	379	380	389	397	402	402	400	396	390	390	259	254	378	369
33	Port Westward 2	187	187	187	187	187	187	187	187	187	187	187	187	187	187	187
34	Rathdrum	132	132	135	148	160	165	167	163	160	154	154	95.4	87.8	139	142
35	River Road	236	236	236	236	236	236	236	236	236	236	236	86.8	236	236	223
36	Satsop Combustion Turbine Proj	618	618	618	618	618	618	618	618	618	618	618	228	618	618	584
37	University of Washington Power	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	9.80	9.80	14.3	13.5
38	Whitehorn	140	140	142	146	150	152	153	151	149	147	147	96.3	93.8	140	138
	Total Combustion Turbine Resources															
39	Investor Owned Utilities	3933	3939	4364	4419	4627	4679	4589	4547	4502	4473	4466	3303	2942	4311	4223
40	Marketer	1408	1408	1408	1408	1313	1313	1408	1408	1408	1408	1408	694	1233	1408	1317
41	Municipality	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	12.4	12.4	18.1	17.1
42	Public Utility District	420	420	421	423	425	426	426	425	425	424	424	197	377	420	400
43	**Total**	**5778**	**5785**	**6211**	**6268**	**6383**	**6436**	**6441**	**6398**	**6353**	**6323**	**6316**	**4207**	**4565**	**6157**	**5957**

Table A-10: Regional: Combustion Turbine Resources

Operating Year 2018

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Combustion Turbine Resources															
1	Basin Creek Project	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	32.5	32.5	47.5	45.0
2	Beaver	470	477	486	496	503	503	500	496	490	490	484	318	312	470	461
3	Beaver	451	458	467	477	484	484	481	477	471	471	465	305	299	451	443
4	Beaver 8	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	13.0	13.0	19.0	18.0
5	Bennett Mountain Peaking Plant	153	153	156	160	163	169	169	164	159	160	160	104	102	153	151
6	Big Hanaford	236	236	236	236	236	236	236	236	236	236	236	86.8	236	236	223
7	Boulder Park	23.4	23.4	23.4	21.0	21.0	21.0	23.4	23.4	23.4	23.4	23.4	16.0	16.0	23.4	21.6
8	Carty Generating Station	374	374	374	374	374	374	374	374	374	374	374	374	374	374	374
9	Chehalis Generation Facility	460	460	465	475	484	487	488	485	483	478	478	471	157	460	450
10	Dave Gates Generating Station	143	143	143	143	143	143	143	143	143	143	143	97.5	97.5	143	135
11	Encogen	152	152	154	157	160	161	162	160	159	158	158	105	103	152	148
12	Evander Andrews Complex	237	237	241	246	251	261	261	253	245	247	247	162	158	236	233
13	Danskin 1	77.9	77.9	79.8	81.7	83.6	87.4	87.4	83.6	81.7	81.7	81.7	54.1	52.2	77.9	77.4
14	Danskin 2	159	159	162	164	167	174	174	169	163	165	165	108	106	158	156
15	Frederickson CT	251	251	254	259	263	264	265	263	262	260	260	174	171	252	245
16	Frederickson Power Project	139	139	141	145	150	152	152	150	149	147	147	95.8	92.7	139	138
17	Fredonia	296	296	301	310	318	324	325	320	317	312	312	204	198	296	293
18	Fredonia 1 & 2	195	195	198	204	209	212	213	210	208	205	205	134	131	195	193
19	Fredonia 3 & 4	101	101	103	106	109	112	112	110	109	107	107	69.5	67.1	101	100
20	Goldendale Energy Center	244	244	249	253	258	261	260	258	256	254	254	167	165	244	239
21	Grimes Way	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	2.60	2.60	3.80	3.60
22	Kettle Falls Station (CT)	8.10	8.10	9.00	9.50	9.50	10.5	10.5	10.5	9.50	9.50	9.50	5.30	5.30	8.10	8.77
23	Klamath Generation Facility	460	460	460	460	460	460	460	460	460	460	460	315	315	460	436
24	Klamath Generation Peakings (C	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	65.0	65.0	95.0	90.0
25	Langley Gulch CT	285	285	285	285	285	285	285	285	285	285	285	195	195	285	270
26	Loki Peaking Project	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	3.90	10.5	10.5	9.94
27	Mint Farm Energy Center	271	271	274	280	284	286	286	284	283	281	281	188	185	272	264
28	Northeast 1 & 2	41.8	41.8	43.7	19.8	60.8	62.7	62.7	60.8	58.9	57.0	57.0	43.7	43.7	39.9	49.5
29	Olympic View	5.60	5.60	5.60	5.60	5.60	5.60	5.60	5.60	5.60	5.60	5.60	3.80	3.80	5.60	5.30
30	Pasco Peak Power Plant	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	15.4	41.8	41.8	39.6
31	Port Westward	566	566	567	576	584	589	589	587	583	577	577	446	441	565	556
32	Port Westward 1	379	379	380	389	397	402	402	400	396	390	390	259	254	378	369
33	Port Westward 2	187	187	187	187	187	187	187	187	187	187	187	187	187	187	187
34	Rathdrum	132	132	135	148	160	165	167	163	160	154	154	95.4	87.8	139	142
35	River Road	236	236	236	236	236	236	236	236	236	236	236	86.8	236	236	223
36	Satsop Combustion Turbine Proj	618	618	618	618	618	618	618	618	618	618	618	228	618	618	584
37	University of Washington Power	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	9.80	9.80	14.3	13.5
38	Whitehorn	140	140	142	146	150	152	153	151	149	147	147	96.3	93.8	140	138
	Total Combustion Turbine Resources															
39	Investor Owned Utilities	4307	4313	4364	4419	4532	4584	4589	4547	4502	4473	4466	3303	2942	4311	4239
40	Marketer	1408	1408	1408	1408	1408	1408	1408	1408	1408	1408	1408	694	1233	1408	1333
41	Municipality	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	12.4	12.4	18.1	17.1
42	Public Utility District	420	420	421	423	425	426	426	425	425	424	424	197	377	420	400
43	**Total**	**6152**	**6159**	**6211**	**6268**	**6383**	**6436**	**6441**	**6398**	**6353**	**6323**	**6316**	**4207**	**4565**	**6157**	**5989**

Table A-10: Regional: Combustion Turbine Resources

Operating Year 2019

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Combustion Turbine Resources															
1	Basin Creek Project	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	32.5	32.5	47.5	45.0
2	Beaver	470	477	486	496	503	503	500	496	490	490	484	318	312	470	461
3	Beaver	451	458	467	477	484	484	481	477	471	471	465	305	299	451	443
4	Beaver 8	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	13.0	13.0	19.0	18.0
5	Bennett Mountain Peaking Plant	153	153	156	160	163	169	169	164	159	160	160	104	102	153	151
6	Big Hanaford	236	236	236	236	236	236	236	236	236	236	236	86.8	236	236	223
7	Boulder Park	23.4	23.4	23.4	21.0	21.0	21.0	23.4	23.4	23.4	23.4	23.4	16.0	16.0	23.4	21.6
8	Carty Generating Station	374	374	374	374	374	374	374	374	374	374	374	374	374	374	374
9	Chehalis Generation Facility	379	460	465	475	484	487	488	485	483	478	478	471	157	460	446
10	Dave Gates Generating Station	143	143	143	143	143	143	143	143	143	143	143	97.5	97.5	143	135
11	Encogen	152	152	154	157	160	161	162	160	159	158	158	105	103	152	148
12	Evander Andrews Complex	237	237	241	246	251	261	261	253	245	247	247	162	158	236	233
13	Danskin 1	77.9	77.9	79.8	81.7	83.6	87.4	87.4	83.6	81.7	81.7	81.7	54.1	52.2	77.9	77.4
14	Danskin 2	159	159	162	164	167	174	174	169	163	165	165	108	106	158	156
15	Frederickson CT	251	251	254	259	263	264	265	263	262	260	260	174	171	252	245
16	Frederickson Power Project	139	139	141	145	150	152	152	150	149	147	147	95.8	92.7	139	138
17	Fredonia	296	296	301	310	318	324	325	320	317	312	312	204	198	296	293
18	Fredonia 1 & 2	195	195	198	204	209	212	213	210	208	205	205	134	131	195	193
19	Fredonia 3 & 4	101	101	103	106	109	112	112	110	109	107	107	69.5	67.1	101	100
20	Goldendale Energy Center	244	244	249	253	258	261	260	258	256	254	254	167	165	244	239
21	Grimes Way	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	2.60	2.60	3.80	3.60
22	Kettle Falls Station (CT)	8.10	8.10	9.00	9.50	9.50	10.5	10.5	10.5	9.50	9.50	9.50	5.30	5.30	8.10	8.77
23	Klamath Generation Facility	460	460	460	460	460	460	460	460	460	460	460	315	315	460	436
24	Klamath Generation Peakings (C	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	65.0	65.0	95.0	90.0
25	Langley Gulch CT	285	285	285	285	285	285	285	285	285	285	285	195	195	285	270
26	Loki Peaking Project	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	3.90	10.5	10.5	9.94
27	Mint Farm Energy Center	271	271	274	280	284	286	286	284	283	281	281	188	185	272	264
28	Northeast 1 & 2	41.8	41.8	43.7	19.8	60.8	62.7	62.7	60.8	58.9	57.0	57.0	43.7	43.7	39.9	49.5
29	Olympic View	5.60	5.60	5.60	5.60	5.60	5.60	5.60	5.60	5.60	5.60	5.60	3.80	3.80	5.60	5.30
30	Pasco Peak Power Plant	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	15.4	41.8	41.8	39.6
31	Port Westward	566	566	567	576	584	589	589	587	583	577	577	446	441	565	556
32	Port Westward 1	379	379	380	389	397	402	402	400	396	390	390	259	254	378	369
33	Port Westward 2	187	187	187	187	187	187	187	187	187	187	187	187	187	187	187
34	Rathdrum	132	132	135	148	160	165	167	163	160	154	154	95.4	87.8	139	142
35	River Road	236	236	236	236	236	236	236	236	236	236	236	86.8	236	236	223
36	Satsop Combustion Turbine Proj	618	618	618	618	618	618	618	618	618	618	618	228	618	618	584
37	University of Washington Power	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	9.80	9.80	14.3	13.5
38	Whitehorn	140	140	142	146	150	152	153	151	149	147	147	96.3	93.8	140	138
	Total Combustion Turbine Resources															
39	Investor Owned Utilities	4226	4313	4364	4419	4532	4584	4589	4547	4502	4473	4466	3303	2942	4311	4235
40	Marketer	1408	1408	1408	1408	1408	1408	1408	1408	1408	1408	1408	694	1233	1408	1333
41	Municipality	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	12.4	12.4	18.1	17.1
42	Public Utility District	420	420	421	423	425	426	426	425	425	424	424	197	377	420	400
43	**Total**	**6071**	**6159**	**6211**	**6268**	**6383**	**6436**	**6441**	**6398**	**6353**	**6323**	**6316**	**4207**	**4565**	**6157**	**5986**

Table A-10: Regional: Combustion Turbine Resources

Operating Year 2020

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Combustion Turbine Resources															
1	Basin Creek Project	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	32.5	32.5	47.5	45.0
2	Beaver	470	477	486	496	503	503	500	496	490	490	484	318	312	470	461
3	Beaver	451	458	467	477	484	484	481	477	471	471	465	305	299	451	443
4	Beaver 8	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	13.0	13.0	19.0	18.0
5	Bennett Mountain Peaking Plant	153	153	156	160	163	169	169	164	159	160	160	104	102	153	151
6	Big Hanaford	236	236	236	236	236	236	236	236	236	236	236	86.8	236	236	223
7	Boulder Park	23.4	23.4	23.4	21.0	21.0	21.0	23.4	23.4	23.4	23.4	23.4	16.0	16.0	23.4	21.6
8	Carty Generating Station	374	374	374	374	374	374	374	374	374	374	374	374	374	374	374
9	Chehalis Generation Facility	379	460	465	475	484	487	488	485	483	478	478	471	157	460	446
10	Dave Gates Generating Station	143	143	143	143	143	143	143	143	143	143	143	97.5	97.5	143	135
11	Encogen	152	152	154	157	160	161	162	160	159	158	158	105	103	152	148
12	Evander Andrews Complex	237	237	241	246	251	261	261	253	245	247	247	162	158	236	233
13	Danskin 1	77.9	77.9	79.8	81.7	83.6	87.4	87.4	83.6	81.7	81.7	81.7	54.1	52.2	77.9	77.4
14	Danskin 2	159	159	162	164	167	174	174	169	163	165	165	108	106	158	156
15	Frederickson CT	251	251	254	259	263	264	265	263	262	260	260	174	171	252	245
16	Frederickson Power Project	139	139	141	145	150	152	152	150	149	147	147	95.8	92.7	139	138
17	Fredonia	296	296	301	310	318	324	325	320	317	312	312	204	198	296	293
18	Fredonia 1 & 2	195	195	198	204	209	212	213	210	208	205	205	134	131	195	193
19	Fredonia 3 & 4	101	101	103	106	109	112	112	110	109	107	107	69.5	67.1	101	101
20	Goldendale Energy Center	244	244	249	253	258	261	260	258	256	254	254	167	165	244	239
21	Grimes Way	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	2.60	2.60	3.80	3.60
22	Kettle Falls Station (CT)	8.10	8.10	9.00	9.50	9.50	10.5	10.5	10.5	9.50	9.50	9.50	5.30	5.30	8.10	8.77
23	Klamath Generation Facility	460	460	460	460	460	460	460	460	460	460	460	315	315	460	436
24	Klamath Generation Peakings (C	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	65.0	65.0	95.0	90.0
25	Langley Gulch CT	285	285	285	285	285	285	285	285	285	285	285	195	195	285	270
26	Loki Peaking Project	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	3.90	10.5	10.5	9.94
27	Mint Farm Energy Center	271	271	274	280	284	286	286	284	283	281	281	188	185	272	264
28	Northeast 1 & 2	41.8	41.8	43.7	19.8	60.8	62.7	62.7	60.8	58.9	57.0	57.0	43.7	43.7	39.9	49.5
29	Olympic View	5.60	5.60	5.60	5.60	5.60	5.60	5.60	5.60	5.60	5.60	5.60	3.80	3.80	5.60	5.30
30	Pasco Peak Power Plant	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	15.4	41.8	41.8	39.6
31	Port Westward	566	566	567	576	584	589	589	587	583	577	577	446	441	565	556
32	Port Westward 1	379	379	380	389	397	402	402	400	396	390	390	259	254	378	369
33	Port Westward 2	187	187	187	187	187	187	187	187	187	187	187	187	187	187	187
34	Rathdrum	132	132	135	148	160	165	167	163	160	154	154	95.4	87.8	139	142
35	River Road	236	236	236	236	236	236	236	236	236	236	236	86.8	236	236	223
36	Satsop Combustion Turbine Proj	618	618	618	618	618	618	618	618	618	618	618	228	618	618	584
37	University of Washington Power	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	9.80	9.80	14.3	13.6
38	Whitehorn	140	140	142	146	150	152	153	151	149	147	147	96.3	93.8	140	138
	Total Combustion Turbine Resources															
39	Investor Owned Utilities	4226	4313	4364	4419	4532	4584	4589	4547	4502	4473	4466	3303	2942	4311	4236
40	Marketer	1408	1408	1408	1408	1408	1408	1408	1408	1408	1408	1408	694	1233	1408	1333
41	Municipality	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	12.4	12.4	18.1	17.2
42	Public Utility District	420	420	421	423	425	426	426	425	425	424	424	197	377	420	400
43	**Total**	**6071**	**6159**	**6211**	**6268**	**6383**	**6436**	**6441**	**6398**	**6353**	**6323**	**6316**	**4207**	**4565**	**6157**	**5987**

Table A-10: Regional: Combustion Turbine Resources

Operating Year 2021

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Combustion Turbine Resources															
1	Basin Creek Project	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	32.5	32.5	47.5	45.0
2	Beaver	470	477	486	496	503	503	500	496	490	490	484	318	312	470	461
3	Beaver	451	458	467	477	484	484	481	477	471	471	465	305	299	451	443
4	Beaver 8	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	13.0	13.0	19.0	18.0
5	Bennett Mountain Peaking Plant	153	153	156	160	163	169	169	164	159	160	160	104	102	153	151
6	Big Hanaford	236	236	236	236	236	236	236	236	236	236	236	86.8	236	236	223
7	Boulder Park	23.4	23.4	23.4	21.0	21.0	21.0	23.4	23.4	23.4	23.4	23.4	16.0	16.0	23.4	21.6
8	Carty Generating Station	374	374	374	374	374	374	374	374	374	374	374	374	374	374	374
9	Chehalis Generation Facility	460	460	465	475	484	487	488	485	483	478	478	471	157	460	450
10	Dave Gates Generating Station	143	143	143	143	143	143	143	143	143	143	143	97.5	97.5	143	135
11	Encogen	152	152	154	157	160	161	162	160	159	158	158	105	103	152	148
12	Evander Andrews Complex	237	237	241	246	251	261	261	253	245	247	247	162	158	236	233
13	Danskin 1	77.9	77.9	79.8	81.7	83.6	87.4	87.4	83.6	81.7	81.7	81.7	54.1	52.2	77.9	77.4
14	Danskin 2	159	159	162	164	167	174	174	169	163	165	165	108	106	158	156
15	Frederickson CT	251	251	254	259	263	264	265	263	262	260	260	174	171	252	245
16	Frederickson Power Project	139	139	141	145	150	152	152	150	149	147	147	95.8	92.7	139	138
17	Fredonia	296	296	301	310	318	324	325	320	317	312	312	204	198	296	293
18	Fredonia 1 & 2	195	195	198	204	209	212	213	210	208	205	205	134	131	195	193
19	Fredonia 3 & 4	101	101	103	106	109	112	112	110	109	107	107	69.5	67.1	101	100
20	Goldendale Energy Center	244	244	249	253	258	261	260	258	256	254	254	167	165	244	239
21	Grimes Way	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	2.60	2.60	3.80	3.60
22	Kettle Falls Station (CT)	8.10	8.10	9.00	9.50	9.50	10.5	10.5	10.5	9.50	9.50	9.50	5.30	5.30	8.10	8.77
23	Klamath Generation Facility	460	460	460	460	460	460	460	460	460	460	460	315	315	460	436
24	Klamath Generation Peakings (C	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	65.0	65.0	95.0	90.0
25	Langley Gulch CT	285	285	285	285	285	285	285	285	285	285	285	195	195	285	270
26	Loki Peaking Project	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	3.90	10.5	10.5	9.94
27	Mint Farm Energy Center	271	271	274	280	284	286	286	284	283	281	281	188	185	272	264
28	Northeast 1 & 2	41.8	41.8	43.7	19.8	60.8	62.7	62.7	60.8	58.9	57.0	57.0	43.7	43.7	39.9	49.5
29	Olympic View	5.60	5.60	5.60	5.60	5.60	5.60	5.60	5.60	5.60	5.60	5.60	3.80	3.80	5.60	5.30
30	Pasco Peak Power Plant	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	15.4	41.8	41.8	39.6
31	Port Westward	566	566	567	576	584	589	589	587	583	577	577	446	441	565	556
32	Port Westward 1	379	379	380	389	397	402	402	400	396	390	390	259	254	378	369
33	Port Westward 2	187	187	187	187	187	187	187	187	187	187	187	187	187	187	187
34	Rathdrum	132	132	135	148	160	165	167	163	160	154	154	95.4	87.8	139	142
35	River Road	236	236	236	236	236	236	236	236	236	236	236	86.8	236	236	223
36	Satsop Combustion Turbine Proj	618	618	618	618	618	618	618	618	618	618	618	228	618	618	584
37	University of Washington Power	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	9.80	9.80	14.3	13.5
38	Whitehorn	140	140	142	146	150	152	153	151	149	147	147	96.3	93.8	140	138
	Total Combustion Turbine Resources															
39	Investor Owned Utilities	4307	4313	4364	4419	4532	4584	4589	4547	4502	4473	4466	3303	2942	4311	4239
40	Marketer	1408	1408	1408	1408	1408	1408	1408	1408	1408	1408	1408	694	1233	1408	1333
41	Municipality	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	12.4	12.4	18.1	17.1
42	Public Utility District	420	420	421	423	425	426	426	425	425	424	424	197	377	420	400
43	**Total**	**6152**	**6159**	**6211**	**6268**	**6383**	**6436**	**6441**	**6398**	**6353**	**6323**	**6316**	**4207**	**4565**	**6157**	**5989**

Table A-10: Regional: Combustion Turbine Resources

Operating Year 2022

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Combustion Turbine Resources															
1	Basin Creek Project	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	32.5	32.5	47.5	45.0
2	Beaver	470	477	486	496	503	503	500	496	490	490	484	318	312	470	461
3	Beaver	451	458	467	477	484	484	481	477	471	471	465	305	299	451	443
4	Beaver 8	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	13.0	13.0	19.0	18.0
5	Bennett Mountain Peaking Plant	153	153	156	160	163	169	169	164	159	160	160	104	102	153	151
6	Big Hanaford	236	236	236	236	236	236	236	236	236	236	236	86.8	236	236	223
7	Boulder Park	23.4	23.4	23.4	21.0	21.0	21.0	23.4	23.4	23.4	23.4	23.4	16.0	16.0	23.4	21.6
8	Carty Generating Station	374	374	374	374	374	374	374	374	374	374	374	374	374	374	374
9	Chehalis Generation Facility	460	460	465	475	484	487	488	485	483	478	478	471	157	460	450
10	Dave Gates Generating Station	143	143	143	143	143	143	143	143	143	143	143	97.5	97.5	143	135
11	Encogen	152	152	154	157	160	161	162	160	159	158	158	105	103	152	148
12	Evander Andrews Complex	237	237	241	246	251	261	261	253	245	247	247	162	158	236	233
13	Danskin 1	77.9	77.9	79.8	81.7	83.6	87.4	87.4	83.6	81.7	81.7	81.7	54.1	52.2	77.9	77.4
14	Danskin 2	159	159	162	164	167	174	174	169	163	165	165	108	106	158	156
15	Frederickson CT	251	251	254	259	263	264	265	263	262	260	260	174	171	252	245
16	Frederickson Power Project	139	139	141	145	150	152	152	150	149	147	147	95.8	92.7	139	138
17	Fredonia	296	296	301	310	318	324	325	320	317	312	312	204	198	296	293
18	Fredonia 1 & 2	195	195	198	204	209	212	213	210	208	205	205	134	131	195	193
19	Fredonia 3 & 4	101	101	103	106	109	112	112	110	109	107	107	69.5	67.1	101	100
20	Goldendale Energy Center	244	244	249	253	258	261	260	258	256	254	254	167	165	244	239
21	Grimes Way	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	2.60	2.60	3.80	3.60
22	Kettle Falls Station (CT)	8.10	8.10	9.00	9.50	9.50	10.5	10.5	10.5	9.50	9.50	9.50	5.30	5.30	8.10	8.77
23	Klamath Generation Facility	460	460	460	460	460	460	460	460	460	460	460	315	315	460	436
24	Klamath Generation Peakings (C	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	65.0	65.0	95.0	90.0
25	Langley Gulch CT	285	285	285	285	285	285	285	285	285	285	285	195	195	285	270
26	Loki Peaking Project	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	3.90	10.5	10.5	9.94
27	Mint Farm Energy Center	271	271	274	280	284	286	286	284	283	281	281	188	185	272	264
28	Northeast 1 & 2	41.8	41.8	43.7	19.8	60.8	62.7	62.7	60.8	58.9	57.0	57.0	43.7	43.7	39.9	49.5
29	Olympic View	5.60	5.60	5.60	5.60	5.60	5.60	5.60	5.60	5.60	5.60	5.60	3.80	3.80	5.60	5.30
30	Pasco Peak Power Plant	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	15.4	41.8	41.8	39.6
31	Port Westward	566	566	567	576	584	589	589	587	583	577	577	446	441	565	556
32	Port Westward 1	379	379	380	389	397	402	402	400	396	390	390	259	254	378	369
33	Port Westward 2	187	187	187	187	187	187	187	187	187	187	187	187	187	187	187
34	Rathdrum	132	132	135	148	160	165	167	163	160	154	154	95.4	87.8	139	142
35	River Road	236	236	236	236	236	236	236	236	236	236	236	86.8	236	236	223
36	Satsop Combustion Turbine Proj	618	618	618	618	618	618	618	618	618	618	618	228	618	618	584
37	University of Washington Power	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	9.80	9.80	14.3	13.5
38	Whitehorn	140	140	142	146	150	152	153	151	149	147	147	96.3	93.8	140	138
	Total Combustion Turbine Resources															
39	Investor Owned Utilities	4307	4313	4364	4419	4532	4584	4589	4547	4502	4473	4466	3303	2942	4311	4239
40	Marketer	1408	1408	1408	1408	1408	1408	1408	1408	1408	1408	1408	694	1233	1408	1333
41	Municipality	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	12.4	12.4	18.1	17.1
42	Public Utility District	420	420	421	423	425	426	426	425	425	424	424	197	377	420	400
43	**Total**	**6152**	**6159**	**6211**	**6268**	**6383**	**6436**	**6441**	**6398**	**6353**	**6323**	**6316**	**4207**	**4565**	**6157**	**5989**

Table A-10: Regional: Combustion Turbine Resources

Operating Year 2023

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Combustion Turbine Resources															
1	Basin Creek Project	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	32.5	32.5	47.5	45.0
2	Beaver	470	477	486	496	503	503	500	496	490	490	484	318	312	470	461
3	Beaver	451	458	467	477	484	484	481	477	471	471	465	305	299	451	443
4	Beaver 8	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	13.0	13.0	19.0	18.0
5	Bennett Mountain Peaking Plant	153	153	156	160	163	169	169	164	159	160	160	104	102	153	151
6	Big Hanaford	236	236	236	236	236	236	236	236	236	236	236	86.8	236	236	223
7	Boulder Park	23.4	23.4	23.4	21.0	21.0	21.0	23.4	23.4	23.4	23.4	23.4	16.0	16.0	23.4	21.6
8	Carty Generating Station	374	374	374	374	374	374	374	374	374	374	374	374	374	374	374
9	Chehalis Generation Facility	460	460	465	475	484	487	488	485	483	478	478	471	157	460	450
10	Dave Gates Generating Station	143	143	143	143	143	143	143	143	143	143	143	97.5	97.5	143	135
11	Encogen	152	152	154	157	160	161	162	160	159	158	158	105	103	152	148
12	Evander Andrews Complex	237	237	241	246	251	261	261	253	245	247	247	162	158	236	233
13	Danskin 1	77.9	77.9	79.8	81.7	83.6	87.4	87.4	83.6	81.7	81.7	81.7	54.1	52.2	77.9	77.4
14	Danskin 2	159	159	162	164	167	174	174	169	163	165	165	108	106	158	156
15	Frederickson CT	251	251	254	259	263	264	265	263	262	260	260	174	171	252	245
16	Frederickson Power Project	139	139	141	145	150	152	152	150	149	147	147	95.8	92.7	139	138
17	Fredonia	296	296	301	310	318	324	325	320	317	312	312	204	198	296	293
18	Fredonia 1 & 2	195	195	198	204	209	212	213	210	208	205	205	134	131	195	193
19	Fredonia 3 & 4	101	101	103	106	109	112	112	110	109	107	107	69.5	67.1	101	100
20	Goldendale Energy Center	244	244	249	253	258	261	260	258	256	254	254	167	165	244	239
21	Grimes Way	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	2.60	2.60	3.80	3.60
22	Kettle Falls Station (CT)	8.10	8.10	9.00	9.50	9.50	10.5	10.5	10.5	9.50	9.50	9.50	5.30	5.30	8.10	8.77
23	Klamath Generation Facility	460	460	460	460	460	460	460	460	460	460	460	315	315	460	436
24	Klamath Generation Peakings (C	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	65.0	65.0	95.0	90.0
25	Langley Gulch CT	285	285	285	285	285	285	285	285	285	285	285	195	195	285	270
26	Loki Peaking Project	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	3.90	10.5	10.5	9.94
27	Mint Farm Energy Center	271	271	274	280	284	286	286	284	283	281	281	188	185	272	264
28	Northeast 1 & 2	41.8	41.8	43.7	19.8	60.8	62.7	62.7	60.8	58.9	57.0	57.0	43.7	43.7	39.9	49.5
29	Olympic View	5.60	5.60	5.60	5.60	5.60	5.60	5.60	5.60	5.60	5.60	5.60	3.80	3.80	5.60	5.30
30	Pasco Peak Power Plant	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	15.4	41.8	41.8	39.6
31	Port Westward	566	566	567	576	584	589	589	587	583	577	577	446	441	565	556
32	Port Westward 1	379	379	380	389	397	402	402	400	396	390	390	259	254	378	369
33	Port Westward 2	187	187	187	187	187	187	187	187	187	187	187	187	187	187	187
34	Rathdrum	132	132	135	148	160	165	167	163	160	154	154	95.4	87.8	139	142
35	River Road	236	236	236	236	236	236	236	236	236	236	236	86.8	236	236	223
36	Satsop Combustion Turbine Proj	618	618	618	618	618	618	618	618	618	618	618	228	618	618	584
37	University of Washington Power	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	9.80	9.80	14.3	13.5
38	Whitehorn	140	140	142	146	150	152	153	151	149	147	147	96.3	93.8	140	138
	Total Combustion Turbine Resources															
39	Investor Owned Utilities	4307	4313	4364	4419	4532	4584	4589	4547	4502	4473	4466	3303	2942	4311	4239
40	Marketer	1408	1408	1408	1408	1408	1408	1408	1408	1408	1408	1408	694	1233	1408	1333
41	Municipality	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	12.4	12.4	18.1	17.1
42	Public Utility District	420	420	421	423	425	426	426	425	425	424	424	197	377	420	400
43	**Total**	**6152**	**6159**	**6211**	**6268**	**6383**	**6436**	**6441**	**6398**	**6353**	**6323**	**6316**	**4207**	**4565**	**6157**	**5989**

THIS PAGE INTENTIONALLY LEFT BLANK

Exhibit 30
Table A-11: Regional Renewable Resources

Monthly Energy
Operating Year 2014 to 2023
Using 1937-Water Conditions

Table A-11: Regional: Renewable Resources

Operating Year 2014

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Renewable Resources															
1	3 Bar G Wind	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
2	Ashland Solar Project	0.01	0.01	0.01	0.01	0	0	0	0	0.01	0.01	0.01	0.01	0.01	0.01	0.01
3	City Council	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	N. Mountain Park	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	Police Station	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	Public Works	0.01	0.01	0.01	0	0	0	0	0	0	0.01	0.01	0.01	0.01	0.01	0
7	Bellevue Solar (Amity, OR)	0.20	0.20	0.20	0.10	0.10	0.10	0.10	0.10	0.10	0.20	0.20	0.20	0.20	0.20	0.15
8	Bennett Creek Wind	4.23	6.85	6.52	5.74	4.98	4.33	2.95	3.21	5.14	7.54	5.62	6.28	8.23	6.77	5.53
9	Bettencourt B6 anaerobic digest	0.46	0.97	0.97	0.97	0.97	1.21	1.25	1.21	0.02	0.18	0.16	0.23	0.23	0.41	0.69
10	Big Horn Wind	50.2	81.4	77.5	68.2	59.2	51.5	35.0	38.1	61.1	89.6	66.8	74.6	97.7	80.5	65.7
11	Big Horn 1	40.1	65.1	62.0	54.5	47.3	41.2	28.0	30.5	48.9	71.7	53.4	59.6	78.1	64.3	52.6
12	Big Horn 2	10.1	16.3	15.5	13.7	11.9	10.3	7.02	7.64	12.2	18.0	13.4	15.0	19.6	16.1	13.2
13	Big Sky Dairy	1.05	1.05	1.08	1.05	1.13	1.11	1.01	0.96	1.06	1.05	1.05	1.07	1.13	1.03	1.06
14	Biglow Canyon Wind	90.5	147	140	123	107	92.8	63.2	68.7	110	162	120	134	176	145	119
15	Biglow Canyon 1	25.2	40.9	39.0	34.3	29.8	25.9	17.6	19.2	30.7	45.0	33.6	37.5	49.1	40.4	33.0
16	Biglow Canyon 2	30.1	48.8	46.5	40.9	35.5	30.8	21.0	22.9	36.6	53.7	40.0	44.7	58.6	48.2	39.4
17	Biglow Canyon 3	35.2	57.0	54.3	47.8	41.5	36.1	24.6	26.7	42.8	62.8	46.8	52.3	68.5	56.4	46.1
18	Burley Butte Wind	3.92	6.36	6.06	5.33	4.63	4.02	2.74	2.98	4.77	7.00	5.22	5.83	7.64	6.29	5.14
19	Camp Reed	4.53	7.34	6.99	6.15	5.34	4.64	3.16	3.44	5.51	8.08	6.02	6.73	8.81	7.26	5.93
20	Cassia Farms Wind	2.11	3.43	3.26	2.87	2.49	2.17	1.47	1.60	2.57	3.77	2.81	3.14	4.11	3.39	2.77
21	Cassia Gulch Wind	3.80	6.17	5.87	5.17	4.48	3.90	2.65	2.89	4.63	6.79	5.06	5.65	7.40	6.10	4.98
22	Coffin Butte	5.27	5.27	5.32	5.38	5.46	5.11	5.51	5.44	5.55	5.42	5.42	5.37	5.33	5.17	5.36
23	Coffin Butte 1	2.37	2.37	2.43	2.40	2.43	2.42	2.39	2.39	2.40	2.27	2.27	2.35	2.34	2.33	2.38
24	Coffin Butte 2	2.90	2.90	2.89	2.98	3.03	2.69	3.12	3.05	3.15	3.15	3.15	3.02	2.99	2.84	2.98
25	Cold Springs	4.63	7.50	7.15	6.29	5.46	4.74	3.23	3.51	5.63	8.26	6.16	6.88	9.01	7.42	6.06
26	Columbia Ridge Landfill	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6
27	Combine Hills	20.9	33.9	32.3	28.4	24.7	21.5	14.6	15.9	25.5	37.4	27.8	31.1	40.7	33.5	27.4
28	Combine Hills 2	12.7	20.6	19.6	17.2	15.0	13.0	8.85	9.63	15.4	22.6	16.9	18.8	24.7	20.3	16.6
29	Combine Hills I	8.25	13.4	12.7	11.2	9.73	8.46	5.76	6.27	10.0	14.7	11.0	12.3	16.1	13.2	10.8
30	Condon	5.92	11.5	9.57	10.9	9.77	13.8	7.23	7.13	13.0	10.7	8.60	8.69	10.3	6.85	9.65
31	Cottonwood Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	Deep Creek Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	DeRuyter & Son's Dairy	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20
34	Desert Meadow Windfarm	4.63	7.50	7.15	6.29	5.46	4.74	3.23	3.51	5.63	8.26	6.16	6.88	9.01	7.42	6.06
35	Double A Digester	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
36	Double B Digester	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
37	Dry Creek Landfill	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25
38	Dry Dairy Creek	1.38	1.39	1.36	1.36	1.33	1.26	1.17	1.40	1.39	1.30	0.96	1.15	1.15	1.10	1.26
39	Echo Wind Farm	13.0	21.1	20.1	17.7	15.3	13.3	9.07	9.87	15.8	23.2	17.3	19.3	25.3	20.8	17.0
40	Echo Wind 1	8.96	14.5	13.8	12.2	10.6	9.19	6.26	6.81	10.9	16.0	11.9	13.3	17.5	14.4	11.7
41	Echo Wind 2	4.02	6.53	6.21	5.47	4.74	4.13	2.81	3.06	4.90	7.18	5.35	5.98	7.83	6.45	5.27
42	Edaleen Cow Power	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63
43	Elkhorn Valley Wind Project	20.3	32.8	31.3	27.5	23.9	20.8	14.1	15.4	24.7	36.2	26.9	30.1	39.4	32.5	26.5
44	Farm Power Lynden	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
45	Farm Power Misty Meadow	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46	Farm Power Rexville	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
47	Farm Power Tillamook	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
48	Fighting Creek Landfill	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60
49	Finley BioEnergy	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88
50	Flathead County Landfill	1.48	1.48	1.48	1.34	1.35	1.34	1.34	1.33	1.29	1.09	1.09	1.41	1.50	1.48	1.37
51	Foote Creek 1	8.33	13.5	12.9	11.3	9.82	8.54	5.82	6.33	10.1	14.9	11.1	12.4	16.2	13.4	10.9
52	Foote Creek 2	0.36	0.59	0.56	0.49	0.43	0.37	0.25	0.28	0.44	0.65	0.48	0.54	0.71	0.58	0.48
53	Foote Creek 4	3.38	5.48	5.22	4.59	3.99	3.47	2.36	2.57	4.11	6.03	4.50	5.02	6.58	5.42	4.43
54	Fossil Gulch Wind Project	2.11	3.43	3.26	2.87	2.49	2.17	1.47	1.60	2.57	3.77	2.81	3.14	4.11	3.39	2.77
55	Fourmile Hill Geothermal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
56	Golden Valley Wind	2.41	3.92	3.73	3.28	2.85	2.48	1.69	1.83	2.94	4.31	3.21	3.59	4.70	3.87	3.16
57	Goodnoe Hills	18.9	30.7	29.2	25.7	22.3	19.4	13.2	14.4	23.0	33.8	25.2	28.1	36.8	30.3	24.8

Table A-11: Regional: Renewable Resources

Operating Year 2014

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
58	Goshen North (Ridgeline)	25.1	40.6	38.7	34.0	29.5	25.7	17.5	19.0	30.5	44.7	33.3	37.2	48.8	40.2	32.8
59	Grandview Solar One	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00
60	Grayland	1.21	1.96	1.86	1.64	1.42	1.24	0.84	0.92	1.47	2.16	1.61	1.79	2.35	1.93	1.58
61	H.W. Hill Landfill Gas (Roosevelt	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00
62	HW Hill Landfill Gas 1	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30
63	HW Hill Landfill Gas 2	5.70	5.70	5.70	5.70	5.70	5.70	5.70	5.70	5.70	5.70	5.70	5.70	5.70	5.70	5.70
64	Hammett Hill	4.63	7.50	7.15	6.29	5.46	4.74	3.23	3.51	5.63	8.26	6.16	6.88	9.01	7.42	6.06
65	Harvest	19.9	32.3	30.7	27.0	23.5	20.4	13.9	15.1	24.2	35.5	26.5	29.6	38.7	31.9	26.1
66	Hay Canyon Wind	20.3	32.9	31.3	27.6	23.9	20.8	14.2	15.4	24.7	36.2	27.0	30.1	39.5	32.5	26.6
67	Healow 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68	Hidden Hollow Landfill	2.17	2.17	2.33	2.40	2.60	2.53	2.22	2.39	2.34	2.47	2.47	2.22	2.35	2.04	2.34
69	High Mesa Wind	8.03	13.0	12.4	10.9	9.47	8.23	5.60	6.10	9.77	14.3	10.7	11.9	15.6	12.9	10.5
70	Hopkins Ridge	31.5	51.1	48.7	42.8	37.2	32.3	22.0	23.9	38.3	56.3	41.9	46.8	61.3	50.5	41.3
71	Hopkins Ridge 2	1.45	2.35	2.24	1.97	1.71	1.49	1.01	1.10	1.76	2.59	1.93	2.15	2.82	2.32	1.90
72	Hopkins Ridge I	30.1	48.7	46.4	40.8	35.4	30.8	21.0	22.8	36.6	53.7	40.0	44.7	58.5	48.2	39.4
73	Horse Butte Wind	22.6	18.6	11.6	18.8	11.6	15.8	13.7	11.9	8.09	8.80	14.1	20.7	15.4	17.2	14.8
74	Horseshoe Bend Wind Project	1.81	2.94	2.80	2.46	2.14	1.86	1.26	1.38	2.20	3.23	2.41	2.69	3.53	2.90	2.37
75	Hot Springs Wind	3.98	6.46	6.15	5.41	4.70	4.08	2.78	3.03	4.85	7.11	5.30	5.92	7.76	6.39	5.22
76	Industrial Finishes	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
77	Josef Staufer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78	Juniper Canyon	30.4	49.3	47.0	41.3	35.9	31.2	21.2	23.1	37.0	54.3	40.5	45.2	59.2	48.8	39.8
79	Kettle Falls (biomass)	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	34.7	34.7	46.3	44.3
80	King Estate Solar	0.20	0.20	0.17	0.12	0.06	0.04	0.06	0.08	0.12	0.15	0.15	0.19	0.19	0.21	0.13
81	Kittitas Valley Wind	20.3	32.9	31.3	27.6	23.9	20.8	14.2	15.4	24.7	36.2	27.0	30.1	39.5	32.5	26.6
82	Klondike 1	7.55	10.5	9.35	6.35	4.54	4.14	3.30	3.26	6.06	7.95	6.74	8.19	10.4	9.47	6.81
83	Klondike 2	23.6	32.7	29.2	19.8	14.2	13.0	10.3	10.2	19.0	24.9	21.1	25.6	32.6	29.6	21.3
84	Klondike 3	70.4	97.7	87.2	59.2	42.4	38.6	30.8	30.5	56.5	74.2	62.9	76.3	97.1	88.3	63.5
85	Klondike 3a	24.1	33.4	29.8	20.2	14.5	13.2	10.5	10.4	19.3	25.4	21.5	26.1	33.2	30.2	21.7
86	Knudson Wind	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
87	Lava Beds Wind	3.62	5.87	5.59	4.92	4.27	3.71	2.53	2.75	4.41	6.47	4.82	5.38	7.05	5.80	4.74
88	Leaning Juniper	38.4	62.3	93.8	82.5	71.6	62.3	42.4	46.1	73.9	108	80.8	90.2	118	97.3	77.0
89	Leaning Juniper 1	20.2	32.8	31.2	27.5	23.8	20.7	14.1	15.4	24.6	36.1	26.9	30.1	39.4	32.4	26.5
90	Leaning Juniper 2a	18.2	29.5	28.1	24.7	21.4	18.6	12.7	13.8	22.1	32.4	24.2	27.0	35.4	29.1	23.8
91	Leaning Juniper 2b			34.5	30.3	26.3	22.9	15.6	17.0	27.2	39.9	29.7	33.2	43.5	35.8	26.7
92	Lewandowski Farms	0.11	0.10	0.08	0.08	0.08	0.07	0.08	0.06	0.11	0.12	0.12	0.11	0.13	0.10	0.09
93	Lime Wind	0.60	0.98	0.93	0.82	0.71	0.62	0.42	0.46	0.73	1.08	0.80	0.90	1.18	0.97	0.79
94	Linden Ranch	10.1	16.3	15.5	13.7	11.9	10.3	7.02	7.64	12.2	18.0	13.4	15.0	19.6	16.1	13.2
95	Livingston	0.01	0	0.01	0.01	0.01	0.01	0.01	0	0.01	0.01	0.01	0.01	0.01	0	0.01
96	Lower Snake Wind	69.0	112	106	93.7	81.3	70.7	48.1	52.4	83.9	123	91.7	102	134	111	90.3
97	Lower Snake Wind 1	69.0	112	106	93.7	81.3	70.7	48.1	52.4	83.9	123	91.7	102	134	111	90.3
98	Lower Snake Wind 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
99	Mainline Wind	4.63	7.50	7.15	6.29	5.46	4.74	3.23	3.51	5.63	8.26	6.16	6.88	9.01	7.42	6.06
100	Marengo Wind	42.4	68.7	65.4	57.6	50.0	43.4	29.6	32.2	51.6	75.7	56.4	63.0	82.5	67.9	55.5
101	Marengo Wind 1	28.3	45.8	43.6	38.4	33.3	29.0	19.7	21.5	34.4	50.4	37.6	42.0	55.0	45.3	37.0
102	Marengo Wind 2	14.1	22.9	21.8	19.2	16.7	14.5	9.86	10.7	17.2	25.2	18.8	21.0	27.5	22.6	18.5
103	Meadow Creek Wind	16.1	26.0	24.8	21.8	18.9	16.5	11.2	12.2	19.5	28.7	21.4	23.9	31.3	25.7	21.0
104	Milner Dam Wind Farm	3.92	6.36	6.06	5.33	4.63	4.02	2.74	2.98	4.77	7.00	5.22	5.83	7.64	6.29	5.14
105	Neal Hot Springs	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0
106	Nine Canyon Wind	18.6	34.7	26.0	30.7	22.3	24.4	24.6	19.5	33.9	30.3	21.9	26.8	36.0	15.0	26.1
107	Nine Canyon Wind 1	9.32	17.4	13.1	15.4	11.2	12.2	12.3	9.81	17.0	15.2	11.0	13.4	18.1	7.52	13.1
108	Nine Canyon Wind 2	3.01	5.62	4.21	4.98	3.61	3.95	3.98	3.17	5.50	4.91	3.54	4.34	5.83	2.43	4.22
109	Nine Canyon Wind 3	6.24	11.7	8.74	10.3	7.48	8.19	8.26	6.57	11.4	10.2	7.35	9.00	12.1	5.04	8.75
110	Notch Butte Wind	3.62	5.87	5.59	4.92	4.27	3.71	2.53	2.75	4.41	6.47	4.82	5.38	7.05	5.80	4.74
111	Oregon Trail Wind	2.72	4.40	4.19	3.69	3.20	2.78	1.90	2.06	3.31	4.85	3.61	4.04	5.29	4.35	3.56
112	Palouse Wind	21.0	34.1	32.4	28.5	24.8	21.5	14.7	16.0	25.6	37.5	27.9	31.2	40.9	33.7	27.5
113	PaTu Wind	1.81	2.94	2.80	2.46	2.14	1.86	1.26	1.38	2.20	3.23	2.41	2.69	3.53	2.90	2.37
114	Paynes Ferry Wind Park	4.23	6.85	6.52	5.74	4.98	4.33	2.95	3.21	5.14	7.54	5.62	6.28	8.23	6.77	5.53
115	Pebble Springs Wind	19.9	32.2	30.7	27.0	23.4	20.4	13.9	15.1	24.2	35.5	26.4	29.5	38.7	31.8	26.0
116	Pepsi-Cola Eugene Solar	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table A-11: Regional: Renewable Resources

Operating Year 2014

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
117	Pilgrim Stage Station Wind Park	2.11	3.43	3.26	2.87	2.49	2.17	1.47	1.60	2.57	3.77	2.81	3.14	4.11	3.39	2.77
118	Pine Products Biomass	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
119	Portland Waste Water	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40
120	Power County Wind	9.05	14.7	14.0	12.3	10.7	9.28	6.32	6.88	11.0	16.2	12.0	13.5	17.6	14.5	11.9
121	Puyallup Energy Recovery	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
122	Qualco Dairy Digester	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
123	Raft River Geothermal	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
124	Raft River Geothermal 1	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
125	Raft River Geothermal 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
126	Raft River Geothermal 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
127	Rattlesnake Road Wind Farm	20.7	33.6	32.0	28.1	24.4	21.2	14.5	15.7	25.2	37.0	27.5	30.8	40.3	33.2	27.1
128	River Bend Landfill	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30
129	Rock Creek Digester	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
130	Rock River Wind	10.1	16.3	15.5	13.7	11.9	10.3	7.02	7.64	12.2	18.0	13.4	15.0	19.6	16.1	13.2
131	Rockland wind	15.9	25.8	24.6	21.7	18.8	16.3	11.1	12.1	19.4	28.5	21.2	23.7	31.0	25.5	20.9
132	Rogerson Flats	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
133	Ryegrass Wind	4.63	7.50	7.15	6.29	5.46	4.74	3.23	3.51	5.63	8.26	6.16	6.88	9.01	7.42	6.06
134	Salmon Creek Wind	4.02	6.53	6.21	5.47	4.74	4.13	2.81	3.06	4.90	7.18	5.35	5.98	7.83	6.45	5.27
135	Salmon Falls	4.23	6.85	6.52	5.74	4.98	4.33	2.95	3.21	5.14	7.54	5.62	6.28	8.23	6.77	5.53
136	Sawtooth	4.51	7.31	6.96	6.12	5.31	4.62	3.15	3.42	5.49	8.05	5.99	6.70	8.77	7.22	5.90
137	Shepherds Flat	170	276	263	231	200	174	119	129	207	304	226	253	331	273	223
138	Shepherds Flat - Central	58.4	94.6	90.1	79.3	68.8	59.8	40.7	44.3	71.0	104	77.6	86.7	114	93.5	76.4
139	Shepherds Flat - North	53.3	86.5	82.3	72.5	62.9	54.7	37.2	40.5	64.9	95.2	70.9	79.2	104	85.5	69.8
140	Shepherds Flat - South	58.4	94.6	90.1	79.3	68.8	59.8	40.7	44.3	71.0	104	77.6	86.7	114	93.5	76.4
141	Short Mountain	2.05	2.05	1.88	1.87	1.84	1.95	1.91	1.96	1.99	2.03	2.03	2.06	2.03	1.97	1.96
142	Star Point Wind	19.9	32.2	30.7	27.0	23.4	20.4	13.9	15.1	24.2	35.5	26.4	29.5	38.7	31.8	26.0
143	Stateline	52.7	114	74.2	75.5	48.3	58.4	39.9	25.4	96.9	89.2	61.8	80.1	118	48.4	69.0
144	Stateline-OR	29.1	62.9	41.0	41.7	26.7	32.3	22.0	14.0	53.5	49.3	34.2	44.2	65.1	26.8	38.1
145	Stateline-WA	23.6	51.0	33.2	33.8	21.6	26.1	17.9	11.4	43.3	39.9	27.7	35.8	52.7	21.7	30.9
146	Stoltze Biomass	2.80	2.80	2.80	2.70	2.20	2.20	2.20	2.20	2.20	2.30	2.30	2.80	2.80	2.80	2.50
147	Swager Digester	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
148	Swauk Wind	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39
149	Thousand Springs Wind Park	2.41	3.92	3.73	3.28	2.85	2.48	1.69	1.83	2.94	4.31	3.21	3.59	4.70	3.87	3.16
150	Threemile Canyon Wind	1.99	3.23	3.08	2.71	2.35	2.04	1.39	1.51	2.42	3.56	2.65	2.96	3.88	3.19	2.61
151	Treasure Valley Digester	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
152	Tuana Gulch Wind	2.11	3.43	3.26	2.87	2.49	2.17	1.47	1.60	2.57	3.77	2.81	3.14	4.11	3.39	2.77
153	Tuana Springs Wind	3.38	5.48	5.22	4.59	3.99	3.47	2.36	2.57	4.11	6.03	4.50	5.02	6.58	5.42	4.43
154	Two Ponds Wind	4.63	7.50	7.15	6.29	5.46	4.74	3.23	3.51	5.63	8.26	6.16	6.88	9.01	7.42	6.06
155	Van Dyk's Holsteins	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38
156	Vander Haak Dairy	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
157	Vansycle	25.4	44.5	39.8	36.8	30.8	29.9	20.7	20.0	34.9	44.6	32.7	36.8	49.1	38.6	34.3
158	Vansycle 1	5.54	12.2	9.09	9.73	7.36	9.51	6.78	4.92	10.7	9.04	6.27	7.22	10.4	6.72	8.27
159	Vansycle 2	19.9	32.3	30.7	27.0	23.5	20.4	13.9	15.1	24.2	35.5	26.5	29.6	38.7	31.9	26.1
160	Vantage Wind	18.1	29.4	28.0	24.6	21.4	18.6	12.6	13.8	22.0	32.3	24.1	26.9	35.3	29.0	23.7
161	Wheat Field	19.4	31.5	30.0	26.4	22.9	19.9	13.6	14.8	23.7	34.7	25.9	28.9	37.8	31.2	25.5
162	White Bluffs Solar	0.02	0.02	0.01	0	0	0	0	0	0.01	0.01	0.01	0.01	0.01	0.01	0.01
163	White Creek	40.6	65.8	62.6	55.1	47.8	41.6	28.3	30.8	49.4	72.4	54.0	60.3	79.0	65.0	53.1
164	Wild Horse	54.9	89.0	84.8	74.6	64.8	56.3	38.4	41.8	66.9	98.0	73.1	81.6	107	88.0	71.9
165	Wild Horse Solar 1	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
166	Wild Horse Wind 1	46.0	74.6	71.0	62.5	54.2	47.2	32.1	34.9	56.0	82.1	61.2	68.3	89.5	73.7	60.2
167	Wild Horse Wind 2	8.85	14.4	13.7	12.0	10.4	9.08	6.18	6.72	10.8	15.8	11.8	13.2	17.2	14.2	11.6
168	Willow Creek	14.5	23.5	22.4	19.7	17.1	14.9	10.1	11.0	17.6	25.9	19.3	21.5	28.2	23.2	19.0
169	Windy Point Wind	80.2	130	124	109	94.6	82.3	56.0	61.0	97.7	143	107	119	156	129	105
170	Windy Point 1	27.5	44.6	42.4	37.3	32.4	28.2	19.2	20.9	33.5	49.1	36.6	40.8	53.5	44.1	36.0
171	Windy Point 2	40.7	66.0	62.9	55.3	48.0	41.8	28.4	30.9	49.6	72.7	54.2	60.5	79.3	65.3	53.3
172	Windy Point 2 - Phase 2	12.0	19.5	18.6	16.4	14.2	12.3	8.40	9.14	14.6	21.5	16.0	17.9	23.4	19.3	15.8
173	Wolverine Creek	13.0	21.0	20.0	17.6	15.3	13.3	9.06	9.86	15.8	23.2	17.3	19.3	25.3	20.8	17.0
174	Yahoo Creek Wind	4.23	6.85	6.52	5.74	4.98	4.33	2.95	3.21	5.14	7.54	5.62	6.28	8.23	6.77	5.53
175	Yamhill Solar	0.30	0.30	0.30	0.20	0.10	0.10	0.10	0.10	0.20	0.30	0.30	0.30	0.30	0.40	0.23

Table A-11: Regional: Renewable Resources

Operating Year 2014

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Total Renewable Resources															
176	Cooperative	20.9	27.9	27.0	24.7	22.3	20.2	16.9	17.5	22.8	28.9	23.8	26.4	31.6	27.6	24.0
177	Federal Entities	51.9	89.1	71.2	62.4	46.3	51.1	34.2	30.0	69.0	74.2	57.0	68.1	91.1	61.6	60.3
178	Investor Owned Utilities	1031	1590	1505	1317	1142	1015	732	778	1200	1675	1285	1420	1827	1542	1275
179	Marketer	68.9	112	141	124	108	93.5	63.7	69.3	111	173	129	145	191	152	120
180	Municipality	277	436	389	357	296	274	195	197	330	442	339	389	500	391	339
181	Other	9.05	14.7	14.0	12.3	10.7	9.28	6.32	6.88	11.0	16.2	12.0	13.5	17.6	14.5	11.9
182	Public Utility District	129	206	190	176	150	137	105	106	165	218	164	185	240	184	167
183	**Total**	**1587**	**2475**	**2337**	**2073**	**1774**	**1600**	**1153**	**1205**	**1909**	**2627**	**2010**	**2246**	**2898**	**2374**	**1997**

Table A-11: Regional: Renewable Resources

Operating Year 2015

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Renewable Resources															
1	3 Bar G Wind	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
2	Ashland Solar Project	0.01	0.01	0.01	0.01	0	0	0	0	0.01	0.01	0.01	0.01	0.01	0.01	0.01
3	City Council	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	N. Mountain Park	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	Police Station	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	Public Works	0.01	0.01	0.01	0	0	0	0	0	0	0.01	0.01	0.01	0.01	0.01	0
7	Bellevue Solar (Amity, OR)	0.20	0.20	0.20	0.10	0.10	0.10	0.10	0.10	0.10	0.20	0.20	0.20	0.20	0.20	0.15
8	Bennett Creek Wind	4.23	6.85	6.52	5.74	4.98	4.33	2.95	3.21	5.14	7.54	5.62	6.28	8.23	6.77	5.53
9	Bettencourt B6 anaerobic digest	0.46	0.97	0.97	0.97	0.97	1.21	1.25	1.21	0.02	0.18	0.16	0.23	0.23	0.41	0.69
10	Big Horn Wind	50.2	81.4	77.5	68.2	59.2	51.5	35.0	38.1	61.1	89.6	66.8	74.6	97.7	80.5	65.7
11	Big Horn 1	40.1	65.1	62.0	54.5	47.3	41.2	28.0	30.5	48.9	71.7	53.4	59.6	78.1	64.3	52.6
12	Big Horn 2	10.1	16.3	15.5	13.7	11.9	10.3	7.02	7.64	12.2	18.0	13.4	15.0	19.6	16.1	13.2
13	Big Sky Dairy	1.05	1.05	1.08	1.05	1.13	1.11	1.01	0.96	1.06	1.05	1.05	1.07	1.13	1.03	1.06
14	Biglow Canyon Wind	90.5	147	140	123	107	92.8	63.2	68.7	110	162	120	134	176	145	119
15	Biglow Canyon 1	25.2	40.9	39.0	34.3	29.8	25.9	17.6	19.2	30.7	45.0	33.6	37.5	49.1	40.4	33.0
16	Biglow Canyon 2	30.1	48.8	46.5	40.9	35.5	30.8	21.0	22.9	36.6	53.7	40.0	44.7	58.6	48.2	39.4
17	Biglow Canyon 3	35.2	57.0	54.3	47.8	41.5	36.1	24.6	26.7	42.8	62.8	46.8	52.3	68.5	56.4	46.1
18	Burley Butte Wind	3.92	6.36	6.06	5.33	4.63	4.02	2.74	2.98	4.77	7.00	5.22	5.83	7.64	6.29	5.14
19	Camp Reed	4.53	7.34	6.99	6.15	5.34	4.64	3.16	3.44	5.51	8.08	6.02	6.73	8.81	7.26	5.93
20	Cassia Farms Wind	2.11	3.43	3.26	2.87	2.49	2.17	1.47	1.60	2.57	3.77	2.81	3.14	4.11	3.39	2.77
21	Cassia Gulch Wind	3.80	6.17	5.87	5.17	4.48	3.90	2.65	2.89	4.63	6.79	5.06	5.65	7.40	6.10	4.98
22	Coffin Butte	5.27	5.27	5.32	5.38	5.46	5.11	5.51	5.44	5.55	5.42	5.42	5.37	5.33	5.17	5.36
23	Coffin Butte 1	2.37	2.37	2.43	2.40	2.43	2.42	2.39	2.39	2.40	2.27	2.27	2.35	2.34	2.33	2.38
24	Coffin Butte 2	2.90	2.90	2.89	2.98	3.03	2.69	3.12	3.05	3.15	3.15	3.15	3.02	2.99	2.84	2.98
25	Cold Springs	4.63	7.50	7.15	6.29	5.46	4.74	3.23	3.51	5.63	8.26	6.16	6.88	9.01	7.42	6.06
26	Columbia Ridge Landfill	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6
27	Combine Hills	20.9	33.9	32.3	28.4	24.7	21.5	14.6	15.9	25.5	37.4	27.8	31.1	40.7	33.5	27.4
28	Combine Hills 2	12.7	20.6	19.6	17.2	15.0	13.0	8.85	9.63	15.4	22.6	16.9	18.8	24.7	20.3	16.6
29	Combine Hills I	8.25	13.4	12.7	11.2	9.73	8.46	5.76	6.27	10.0	14.7	11.0	12.3	16.1	13.2	10.8
30	Condon	5.92	11.5	9.57	10.9	9.77	13.8	7.23	7.13	13.0	10.7	8.60	8.69	10.3	6.85	9.65
31	Cottonwood Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	Deep Creek Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	DeRuyter & Son's Dairy	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20
34	Desert Meadow Windfarm	4.63	7.50	7.15	6.29	5.46	4.74	3.23	3.51	5.63	8.26	6.16	6.88	9.01	7.42	6.06
35	Double A Digester	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
36	Double B Digester	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
37	Dry Creek Landfill	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25
38	Dry Dairy Creek	1.38	1.39	1.36	1.36	1.33	1.26	1.17	1.40	1.39	1.30	0.96	1.15	1.15	1.10	1.26
39	Echo Wind Farm	13.0	21.1	20.1	17.7	15.3	13.3	9.07	9.87	15.8	23.2	17.3	19.3	25.3	20.8	17.0
40	Echo Wind 1	8.96	14.5	13.8	12.2	10.6	9.19	6.26	6.81	10.9	16.0	11.9	13.3	17.5	14.4	11.7
41	Echo Wind 2	4.02	6.53	6.21	5.47	4.74	4.13	2.81	3.06	4.90	7.18	5.35	5.98	7.83	6.45	5.27
42	Edaleen Cow Power	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63
43	Elkhorn Valley Wind Project	20.3	32.8	31.3	27.5	23.9	20.8	14.1	15.4	24.7	36.2	26.9	30.1	39.4	32.5	26.5
44	Farm Power Lynden	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
45	Farm Power Misty Meadow	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
46	Farm Power Rexville	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
47	Farm Power Tillamook	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
48	Fighting Creek Landfill	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60
49	Finley BioEnergy	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88
50	Flathead County Landfill	1.48	1.48	1.48	1.35	1.34	1.34	1.35	1.33	1.34	1.41	1.41	1.43	1.48	1.48	1.40
51	Foote Creek 1	8.33	13.5	12.9	11.3	9.82	8.54	5.82	6.33	10.1	14.9	11.1	12.4	16.2	13.4	10.9
52	Foote Creek 2	0.36	0.59	0.56	0.49	0.43	0.37	0.25	0.28	0.44	0.65	0.48	0.54	0.71	0.58	0.48
53	Foote Creek 4	3.38	5.48	5.22	4.59	3.99	3.47	2.36	2.57	4.11	6.03	4.50	5.02	6.58	5.42	4.43
54	Fossil Gulch Wind Project	2.11	3.43	3.26	2.87	2.49	2.17	1.47	1.60	2.57	3.77	2.81	3.14	4.11	3.39	2.77
55	Fourmile Hill Geothermal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
56	Golden Valley Wind	2.41	3.92	3.73	3.28	2.85	2.48	1.69	1.83	2.94	4.31	3.21	3.59	4.70	3.87	3.16
57	Goodnoe Hills	18.9	30.7	29.2	25.7	22.3	19.4	13.2	14.4	23.0	33.8	25.2	28.1	36.8	30.3	24.8
58	Goshen North (Ridgeline)	25.1	40.6	38.7	34.0	29.5	25.7	17.5	19.0	30.5	44.7	33.3	37.2	48.8	40.2	32.8

Table A-11: Regional: Renewable Resources

Operating Year 2015

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
59	Grandview Solar One	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00
60	Grayland	1.21	1.96	1.86	1.64	1.42	1.24	0.84	0.92	1.47	2.16	1.61	1.79	2.35	1.93	1.58
61	H.W. Hill Landfill Gas (Roosevelt	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00
62	HW Hill Landfill Gas 1	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30
63	HW Hill Landfill Gas 2	5.70	5.70	5.70	5.70	5.70	5.70	5.70	5.70	5.70	5.70	5.70	5.70	5.70	5.70	5.70
64	Hammett Hill	4.63	7.50	7.15	6.29	5.46	4.74	3.23	3.51	5.63	8.26	6.16	6.88	9.01	7.42	6.06
65	Harvest	19.9	32.3	30.7	27.0	23.5	20.4	13.9	15.1	24.2	35.5	26.5	29.6	38.7	31.9	26.1
66	Hay Canyon Wind	20.3	32.9	31.3	27.6	23.9	20.8	14.2	15.4	24.7	36.2	27.0	30.1	39.5	32.5	26.6
67	Healow 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68	Hidden Hollow Landfill	2.17	2.17	2.33	2.40	2.60	2.53	2.22	2.39	2.34	2.47	2.47	2.22	2.35	2.04	2.34
69	High Mesa Wind	8.03	13.0	12.4	10.9	9.47	8.23	5.60	6.10	9.77	14.3	10.7	11.9	15.6	12.9	10.5
70	Hopkins Ridge	31.5	51.1	48.7	42.8	37.2	32.3	22.0	23.9	38.3	56.3	41.9	46.8	61.3	50.5	41.3
71	Hopkins Ridge 2	1.45	2.35	2.24	1.97	1.71	1.49	1.01	1.10	1.76	2.59	1.93	2.15	2.82	2.32	1.90
72	Hopkins Ridge I	30.1	48.7	46.4	40.8	35.4	30.8	21.0	22.8	36.6	53.7	40.0	44.7	58.5	48.2	39.4
73	Horse Butte Wind	22.6	18.6	11.6	18.8	11.6	15.8	13.7	11.9	8.09	8.80	14.1	20.7	15.4	17.2	14.8
74	Horseshoe Bend Wind Project	1.81	2.94	2.80	2.46	2.14	1.86	1.26	1.38	2.20	3.23	2.41	2.69	3.53	2.90	2.37
75	Hot Springs Wind	3.98	6.46	6.15	5.41	4.70	4.08	2.78	3.03	4.85	7.11	5.30	5.92	7.76	6.39	5.22
76	Industrial Finishes	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
77	Josef Staufer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78	Juniper Canyon	30.4	49.3	47.0	41.3	35.9	31.2	21.2	23.1	37.0	54.3	40.5	45.2	59.2	48.8	39.8
79	Kettle Falls (biomass)	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	34.7	11.6	46.3	42.4
80	King Estate Solar	0.20	0.20	0.17	0.12	0.06	0.04	0.06	0.08	0.12	0.15	0.15	0.19	0.19	0.21	0.13
81	Kittitas Valley Wind	20.3	32.9	31.3	27.6	23.9	20.8	14.2	15.4	24.7	36.2	27.0	30.1	39.5	32.5	26.6
82	Klondike 1	7.55	10.5	9.35	6.35	4.54	4.14	3.30	3.26	6.06	7.95	6.74	8.19	10.4	9.47	6.81
83	Klondike 2	23.6	32.7	29.2	19.8	14.2	13.0	10.3	10.2	19.0	24.9	21.1	25.6	32.6	29.6	21.3
84	Klondike 3	70.4	97.7	87.2	59.2	42.4	38.6	30.8	30.5	56.5	74.2	62.9	76.3	97.1	88.3	63.5
85	Klondike 3a	24.1	33.4	29.8	20.2	14.5	13.2	10.5	10.4	19.3	25.4	21.5	26.1	33.2	30.2	21.7
86	Knudson Wind	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
87	Lava Beds Wind	3.62	5.87	5.59	4.92	4.27	3.71	2.53	2.75	4.41	6.47	4.82	5.38	7.05	5.80	4.74
88	Leaning Juniper	60.7	98.5	93.8	82.5	71.6	62.3	42.4	46.1	73.9	108	80.8	90.2	118	97.3	79.5
89	Leaning Juniper 1	20.2	32.8	31.2	27.5	23.8	20.7	14.1	15.4	24.6	36.1	26.9	30.1	39.4	32.4	26.5
90	Leaning Juniper 2a	18.2	29.5	28.1	24.7	21.4	18.6	12.7	13.8	22.1	32.4	24.2	27.0	35.4	29.1	23.8
91	Leaning Juniper 2b	22.3	36.2	34.5	30.3	26.3	22.9	15.6	17.0	27.2	39.9	29.7	33.2	43.5	35.8	29.3
92	Lewandowski Farms	0.11	0.10	0.08	0.08	0.08	0.06	0.08	0.06	0.11	0.12	0.12	0.11	0.13	0.10	0.09
93	Lime Wind	0.60	0.98	0.93	0.82	0.71	0.62	0.42	0.46	0.73	1.08	0.80	0.90	1.18	0.97	0.79
94	Linden Ranch	10.1	16.3	15.5	13.7	11.9	10.3	7.02	7.64	12.2	18.0	13.4	15.0	19.6	16.1	13.2
95	Livingston	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0	0.01	0.01	0.01	0.01	0.01	0	0.01
96	Lower Snake Wind	69.0	112	106	93.7	81.3	70.7	48.1	52.4	83.9	123	91.7	102	134	111	90.3
97	Lower Snake Wind 1	69.0	112	106	93.7	81.3	70.7	48.1	52.4	83.9	123	91.7	102	134	111	90.3
98	Lower Snake Wind 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
99	Mainline Wind	4.63	7.50	7.15	6.29	5.46	4.74	3.23	3.51	5.63	8.26	6.16	6.88	9.01	7.42	6.06
100	Marengo Wind	42.4	68.7	65.4	57.6	50.0	43.4	29.6	32.2	51.6	75.7	56.4	63.0	82.5	67.9	55.5
101	Marengo Wind 1	28.3	45.8	43.6	38.4	33.3	29.0	19.7	21.5	34.4	50.4	37.6	42.0	55.0	45.3	37.0
102	Marengo Wind 2	14.1	22.9	21.8	19.2	16.7	14.5	9.86	10.7	17.2	25.2	18.8	21.0	27.5	22.6	18.5
103	Meadow Creek Wind	16.1	26.0	24.8	21.8	18.9	16.5	11.2	12.2	19.5	28.7	21.4	23.9	31.3	25.7	21.0
104	Milner Dam Wind Farm	3.92	6.36	6.06	5.33	4.63	4.02	2.74	2.98	4.77	7.00	5.22	5.83	7.64	6.29	5.14
105	Neal Hot Springs	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0
106	Nine Canyon Wind	18.6	34.7	26.0	30.7	22.3	24.4	24.6	19.5	33.9	30.3	21.9	26.8	36.0	15.0	26.1
107	Nine Canyon Wind 1	9.32	17.4	13.1	15.4	11.2	12.2	12.3	9.81	17.0	15.2	11.0	13.4	18.1	7.52	13.1
108	Nine Canyon Wind 2	3.01	5.62	4.21	4.98	3.61	3.95	3.98	3.17	5.50	4.91	3.54	4.34	5.83	2.43	4.22
109	Nine Canyon Wind 3	6.24	11.7	8.74	10.3	7.48	8.19	8.26	6.57	11.4	10.2	7.35	9.00	12.1	5.04	8.75
110	Notch Butte Wind	3.62	5.87	5.59	4.92	4.27	3.71	2.53	2.75	4.41	6.47	4.82	5.38	7.05	5.80	4.74
111	Oregon Trail Wind	2.72	4.40	4.19	3.69	3.20	2.78	1.90	2.06	3.31	4.85	3.61	4.04	5.29	4.35	3.56
112	Palouse Wind	21.0	34.1	32.4	28.5	24.8	21.5	14.7	16.0	25.6	37.5	27.9	31.2	40.9	33.7	27.5
113	PaTu Wind	1.81	2.94	2.80	2.46	2.14	1.86	1.26	1.38	2.20	3.23	2.41	2.69	3.53	2.90	2.37
114	Paynes Ferry Wind Park	4.23	6.85	6.52	5.74	4.98	4.33	2.95	3.21	5.14	7.54	5.62	6.28	8.23	6.77	5.53
115	Pebble Springs Wind	19.9	32.2	30.7	27.0	23.4	20.4	13.9	15.1	24.2	35.5	26.4	29.5	38.7	31.8	26.0
116	Pepsi-Cola Eugene Solar	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
117	Pilgrim Stage Station Wind Park	2.11	3.43	3.26	2.87	2.49	2.17	1.47	1.60	2.57	3.77	2.81	3.14	4.11	3.39	2.77

Table A-11: Regional: Renewable Resources

Operating Year 2015

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
118	Pine Products Biomass	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
119	Portland Waste Water	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40
120	Power County Wind	9.05	14.7	14.0	12.3	10.7	9.28	6.32	6.88	11.0	16.2	12.0	13.5	17.6	14.5	11.9
121	Puyallup Energy Recovery	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
122	Qualco Dairy Digester	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
123	Raft River Geothermal	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
124	Raft River Geothermal 1	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
125	Raft River Geothermal 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
126	Raft River Geothermal 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
127	Rattlesnake Road Wind Farm	20.7	33.6	32.0	28.1	24.4	21.2	14.5	15.7	25.2	37.0	27.5	30.8	40.3	33.2	27.1
128	River Bend Landfill	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30
129	Rock Creek Digester	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
130	Rock River Wind	10.1	16.3	15.5	13.7	11.9	10.3	7.02	7.64	12.2	18.0	13.4	15.0	19.6	16.1	13.2
131	Rockland wind	15.9	25.8	24.6	21.7	18.8	16.3	11.1	12.1	19.4	28.5	21.2	23.7	31.0	25.5	20.9
132	Rogerson Flats	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
133	Ryegrass Wind	4.63	7.50	7.15	6.29	5.46	4.74	3.23	3.51	5.63	8.26	6.16	6.88	9.01	7.42	6.06
134	Salmon Creek Wind	4.02	6.53	6.21	5.47	4.74	4.13	2.81	3.06	4.90	7.18	5.35	5.98	7.83	6.45	5.27
135	Salmon Falls	4.23	6.85	6.52	5.74	4.98	4.33	2.95	3.21	5.14	7.54	5.62	6.28	8.23	6.77	5.53
136	Sawtooth	4.51	7.31	6.96	6.12	5.31	4.62	3.15	3.42	5.49	8.05	5.99	6.70	8.77	7.22	5.90
137	Shepherds Flat	170	276	263	231	200	174	119	129	207	304	226	253	331	273	223
138	Shepherds Flat - Central	58.4	94.6	90.1	79.3	68.8	59.8	40.7	44.3	71.0	104	77.6	86.7	114	93.5	76.4
139	Shepherds Flat - North	53.3	86.5	82.3	72.5	62.9	54.7	37.2	40.5	64.9	95.2	70.9	79.2	104	85.5	69.8
140	Shepherds Flat - South	58.4	94.6	90.1	79.3	68.8	59.8	40.7	44.3	71.0	104	77.6	86.7	114	93.5	76.4
141	Short Mountain	2.05	2.05	1.88	1.87	1.84	1.95	1.91	1.96	1.99	2.03	2.03	2.06	2.03	1.97	1.96
142	Star Point Wind	19.9	32.2	30.7	27.0	23.4	20.4	13.9	15.1	24.2	35.5	26.4	29.5	38.7	31.8	26.0
143	Stateline	52.7	114	74.2	75.5	48.3	58.4	39.9	25.4	96.9	89.2	61.8	80.1	118	48.4	69.0
144	Stateline-OR	29.1	62.9	41.0	41.7	26.7	32.3	22.0	14.0	53.5	49.3	34.2	44.2	65.1	26.8	38.1
145	Stateline-WA	23.6	51.0	33.2	33.8	21.6	26.1	17.9	11.4	43.3	39.9	27.7	35.8	52.7	21.7	30.9
146	Stoltze Biomass	2.80	2.80	2.80	2.70	2.20	2.20	2.20	2.20	2.20	2.30	2.30	2.80	2.80	2.80	2.50
147	Swager Digester	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
148	Swauk Wind	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39
149	Thousand Springs Wind Park	2.41	3.92	3.73	3.28	2.85	2.48	1.69	1.83	2.94	4.31	3.21	3.59	4.70	3.87	3.16
150	Threemile Canyon Wind	1.99	3.23	3.08	2.71	2.35	2.04	1.39	1.51	2.42	3.56	2.65	2.96	3.88	3.19	2.61
151	Treasure Valley Digester	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
152	Tuana Gulch Wind	2.11	3.43	3.26	2.87	2.49	2.17	1.47	1.60	2.57	3.77	2.81	3.14	4.11	3.39	2.77
153	Tuana Springs Wind	3.38	5.48	5.22	4.59	3.99	3.47	2.36	2.57	4.11	6.03	4.50	5.02	6.58	5.42	4.43
154	Two Ponds Wind	4.63	7.50	7.15	6.29	5.46	4.74	3.23	3.51	5.63	8.26	6.16	6.88	9.01	7.42	6.06
155	Van Dyk's Holsteins	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38
156	Vander Haak Dairy	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
157	Vansycle	25.4	44.5	39.8	36.8	30.8	29.9	20.7	20.0	34.9	44.6	32.7	36.8	49.1	38.6	34.3
158	Vansycle 1	5.54	12.2	9.09	9.73	7.36	9.51	6.78	4.92	10.7	9.04	6.27	7.22	10.4	6.72	8.27
159	Vansycle 2	19.9	32.3	30.7	27.0	23.5	20.4	13.9	15.1	24.2	35.5	26.5	29.6	38.7	31.9	26.1
160	Vantage Wind	18.1	29.4	28.0	24.6	21.4	18.6	12.6	13.8	22.0	32.3	24.1	26.9	35.3	29.0	23.7
161	Wheat Field	19.4	31.5	30.0	26.4	22.9	19.9	13.6	14.8	23.7	34.7	25.9	28.9	37.8	31.2	25.5
162	White Bluffs Solar	0.02	0.02	0.01	0	0	0	0	0	0.01	0.01	0.01	0.01	0.01	0.01	0.01
163	White Creek	40.6	65.8	62.6	55.1	47.8	41.6	28.3	30.8	49.4	72.4	54.0	60.3	79.0	65.0	53.1
164	Wild Horse	54.9	89.0	84.8	74.6	64.8	56.3	38.4	41.8	66.9	98.0	73.1	81.6	107	88.0	71.9
165	Wild Horse Solar 1	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
166	Wild Horse Wind 1	46.0	74.6	71.0	62.5	54.2	47.2	32.1	34.9	56.0	82.1	61.2	68.3	89.5	73.7	60.2
167	Wild Horse Wind 2	8.85	14.4	13.7	12.0	10.4	9.08	6.18	6.72	10.8	15.8	11.8	13.2	17.2	14.2	11.6
168	Willow Creek	14.5	23.5	22.4	19.7	17.1	14.9	10.1	11.0	17.6	25.9	19.3	21.5	28.2	23.2	19.0
169	Windy Point Wind	80.2	130	124	109	94.6	82.3	56.0	61.0	97.7	143	107	119	156	129	105
170	Windy Point 1	27.5	44.6	42.4	37.3	32.4	28.2	19.2	20.9	33.5	49.1	36.6	40.8	53.5	44.1	36.0
171	Windy Point 2	40.7	66.0	62.9	55.3	48.0	41.8	28.4	30.9	49.6	72.7	54.2	60.5	79.3	65.3	53.3
172	Windy Point 2 - Phase 2	12.0	19.5	18.6	16.4	14.2	12.3	8.40	9.14	14.6	21.5	16.0	17.9	23.4	19.3	15.8
173	Wolverine Creek	13.0	21.0	20.0	17.6	15.3	13.3	9.06	9.86	15.8	23.2	17.3	19.3	25.3	20.8	17.0
174	Yahoo Creek Wind	4.23	6.85	6.52	5.74	4.98	4.33	2.95	3.21	5.14	7.54	5.62	6.28	8.23	6.77	5.53
175	Yamhill Solar	0.30	0.30	0.30	0.20	0.10	0.10	0.10	0.10	0.20	0.30	0.30	0.30	0.30	0.40	0.23

Table A-11: Regional: Renewable Resources

Operating Year 2015

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Total Renewable Resources															
176	Cooperative	20.9	27.9	27.0	24.7	22.2	20.2	16.9	17.5	22.8	29.3	24.2	26.4	31.6	27.6	24.0
177	Federal Entities	51.9	89.1	71.2	62.4	46.3	51.1	34.2	30.0	69.0	74.2	57.0	68.1	91.1	61.6	60.3
178	Investor Owned Utilities	1026	1577	1497	1309	1137	1009	728	776	1189	1676	1286	1420	1805	1543	1269
179	Marketer	97.4	161	150	133	113	100	68.3	72.2	122	173	129	145	191	152	128
180	Municipality	277	436	389	357	296	274	195	197	330	442	339	389	500	391	339
181	Other	9.05	14.7	14.0	12.3	10.7	9.28	6.32	6.88	11.0	16.2	12.0	13.5	17.6	14.5	11.9
182	Public Utility District	129	206	190	176	150	137	105	106	165	218	164	185	240	184	167
183	**Total**	**1610**	**2512**	**2337**	**2073**	**1775**	**1601**	**1153**	**1206**	**1909**	**2628**	**2011**	**2247**	**2876**	**2374**	**1998**

Table A-11: Regional: Renewable Resources

Operating Year 2016

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Renewable Resources															
1	3 Bar G Wind	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
2	Ashland Solar Project	0.01	0.01	0.01	0.01	0	0	0	0	0.01	0.01	0.01	0.01	0.01	0.01	0.01
3	City Council	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	N. Mountain Park	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	Police Station	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	Public Works	0.01	0.01	0.01	0	0	0	0	0	0	0.01	0.01	0.01	0.01	0.01	0
7	Bellevue Solar (Amity, OR)	0.20	0.20	0.20	0.10	0.10	0.10	0.10	0.10	0.10	0.20	0.20	0.20	0.20	0.20	0.15
8	Bennett Creek Wind	4.23	6.85	6.52	5.74	4.98	4.33	2.95	3.21	5.14	7.54	5.62	6.28	8.23	6.77	5.53
9	Bettencourt B6 anaerobic digest	0.46	0.97	0.97	0.97	0.97	1.21	1.25	1.21	0.02	0.18	0.16	0.23	0.23	0.41	0.69
10	Big Horn Wind	50.2	81.4	77.5	68.2	59.2	51.5	35.0	38.1	61.1	89.6	66.8	74.6	97.7	80.5	65.7
11	Big Horn 1	40.1	65.1	62.0	54.5	47.3	41.2	28.0	30.5	48.9	71.7	53.4	59.6	78.1	64.3	52.5
12	Big Horn 2	10.1	16.3	15.5	13.7	11.9	10.3	7.02	7.64	12.2	18.0	13.4	15.0	19.6	16.1	13.2
13	Big Sky Dairy	1.05	1.05	1.08	1.05	1.13	1.11	1.01	0.96	1.06	1.05	1.05	1.07	1.13	1.03	1.06
14	Biglow Canyon Wind	90.5	147	140	123	107	92.8	63.2	68.7	110	162	120	134	176	145	118
15	Biglow Canyon 1	25.2	40.9	39.0	34.3	29.8	25.9	17.6	19.2	30.7	45.0	33.6	37.5	49.1	40.4	33.0
16	Biglow Canyon 2	30.1	48.8	46.5	40.9	35.5	30.8	21.0	22.9	36.6	53.7	40.0	44.7	58.6	48.2	39.4
17	Biglow Canyon 3	35.2	57.0	54.3	47.8	41.5	36.1	24.6	26.7	42.8	62.8	46.8	52.3	68.5	56.4	46.0
18	Burley Butte Wind	3.92	6.36	6.06	5.33	4.63	4.02	2.74	2.98	4.77	7.00	5.22	5.83	7.64	6.29	5.13
19	Camp Reed	4.53	7.34	6.99	6.15	5.34	4.64	3.16	3.44	5.51	8.08	6.02	6.73	8.81	7.26	5.92
20	Cassia Farms Wind	2.11	3.43	3.26	2.87	2.49	2.17	1.47	1.60	2.57	3.77	2.81	3.14	4.11	3.39	2.76
21	Cassia Gulch Wind	3.80	6.17	5.87	5.17	4.48	3.90	2.65	2.89	4.63	6.79	5.06	5.65	7.40	6.10	4.98
22	Coffin Butte	5.27	5.27	5.32	5.38	5.46	5.11	5.51	5.44	5.55	5.42	5.42	5.37	5.33	5.17	5.36
23	Coffin Butte 1	2.37	2.37	2.43	2.40	2.43	2.42	2.39	2.39	2.40	2.27	2.27	2.35	2.34	2.33	2.38
24	Coffin Butte 2	2.90	2.90	2.89	2.98	3.03	2.69	3.12	3.05	3.15	3.15	3.15	3.02	2.99	2.84	2.98
25	Cold Springs	4.63	7.50	7.15	6.29	5.46	4.74	3.23	3.51	5.63	8.26	6.16	6.88	9.01	7.42	6.05
26	Columbia Ridge Landfill	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6
27	Combine Hills	20.9	33.9	32.3	28.4	24.7	21.5	14.6	15.9	25.5	37.4	27.8	31.1	40.7	33.5	27.4
28	Combine Hills 2	12.7	20.6	19.6	17.2	15.0	13.0	8.85	9.63	15.4	22.6	16.9	18.8	24.7	20.3	16.6
29	Combine Hills I	8.25	13.4	12.7	11.2	9.73	8.46	5.76	6.27	10.0	14.7	11.0	12.3	16.1	13.2	10.8
30	Condon	5.92	11.5	9.57	10.9	9.77	13.8	7.23	7.13	13.0	10.7	8.60	8.69	10.3	6.85	9.64
31	Cottonwood Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	Deep Creek Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	DeRuyter & Son's Dairy	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20
34	Desert Meadow Windfarm	4.63	7.50	7.15	6.29	5.46	4.74	3.23	3.51	5.63	8.26	6.16	6.88	9.01	7.42	6.05
35	Double A Digester	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
36	Double B Digester	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
37	Dry Creek Landfill	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25
38	Dry Dairy Creek	1.38	1.39	1.36	1.36	1.33	1.26	1.17	1.40	1.39	1.30	0.96	1.15	1.15	1.10	1.26
39	Echo Wind Farm	13.0	21.1	20.1	17.7	15.3	13.3	9.07	9.87	15.8	23.2	17.3	19.3	25.3	20.8	17.0
40	Echo Wind 1	8.96	14.5	13.8	12.2	10.6	9.19	6.26	6.81	10.9	16.0	11.9	13.3	17.5	14.4	11.7
41	Echo Wind 2	4.02	6.53	6.21	5.47	4.74	4.13	2.81	3.06	4.90	7.18	5.35	5.98	7.83	6.45	5.26
42	Edaleen Cow Power	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63
43	Elkhorn Valley Wind Project	20.3	32.8	31.3	27.5	23.9	20.8	14.1	15.4	24.7	36.2	26.9	30.1	39.4	32.5	26.5
44	Farm Power Lynden	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
45	Farm Power Misty Meadow	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
46	Farm Power Rexville	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
47	Farm Power Tillamook	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
48	Fighting Creek Landfill	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60
49	Finley BioEnergy	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88
50	Flathead County Landfill	1.50	1.50	1.43	1.18	1.34	1.34	1.35	1.33	1.34	1.43	1.43	1.41	1.48	1.48	1.38
51	Foote Creek 1	8.33	13.5	12.9	11.3	9.82	8.54	5.82	6.33	10.1	14.9	11.1	12.4	16.2	13.4	10.9
52	Foote Creek 2	0.36	0.59	0.56	0.49	0.43	0.37	0.25	0.28	0.44	0.65	0.48	0.54	0.71	0.58	0.47
53	Foote Creek 4	3.38	5.48	5.22	4.59	3.99	3.47	2.36	2.57	4.11	6.03	4.50	5.02	6.58	5.42	4.42
54	Fossil Gulch Wind Project	2.11	3.43	3.26	2.87	2.49	2.17	1.47	1.60	2.57	3.77	2.81	3.14	4.11	3.39	2.76
55	Fourmile Hill Geothermal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
56	Golden Valley Wind	2.41	3.92	3.73	3.28	2.85	2.48	1.69	1.83	2.94	4.31	3.21	3.59	4.70	3.87	3.16
57	Goodnoe Hills	18.9	30.7	29.2	25.7	22.3	19.4	13.2	14.4	23.0	33.8	25.2	28.1	36.8	30.3	24.7
58	Goshen North (Ridgeline)	25.1	40.6	38.7	34.0	29.5	25.7	17.5	19.0	30.5	44.7	33.3	37.2	48.8	40.2	32.8

Table A-11: Regional: Renewable Resources

Operating Year 2016

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
59	Grandview Solar One	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00
60	Grayland	1.21	1.96	1.86	1.64	1.42	1.24	0.84	0.92	1.47	2.16	1.61	1.79	2.35	1.93	1.58
61	H.W. Hill Landfill Gas (Roosevelt	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00
62	HW Hill Landfill Gas 1	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30
63	HW Hill Landfill Gas 2	5.70	5.70	5.70	5.70	5.70	5.70	5.70	5.70	5.70	5.70	5.70	5.70	5.70	5.70	5.70
64	Hammett Hill	4.63	7.50	7.15	6.29	5.46	4.74	3.23	3.51	5.63	8.26	6.16	6.88	9.01	7.42	6.05
65	Harvest	19.9	32.3	30.7	27.0	23.5	20.4	13.9	15.1	24.2	35.5	26.5	29.6	38.7	31.9	26.0
66	Hay Canyon Wind	20.3	32.9	31.3	27.6	23.9	20.8	14.2	15.4	24.7	36.2	27.0	30.1	39.5	32.5	26.5
67	Healow 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68	Hidden Hollow Landfill	2.17	2.17	2.33	2.40	2.60	2.53	2.22	2.39	2.34	2.47	2.47	2.22	2.35	2.04	2.34
69	High Mesa Wind	8.03	13.0	12.4	10.9	9.47	8.23	5.60	6.10	9.77	14.3	10.7	11.9	15.6	12.9	10.5
70	Hopkins Ridge	31.5	51.1	48.7	42.8	37.2	32.3	22.0	23.9	38.3	56.3	41.9	46.8	61.3	50.5	41.2
71	Hopkins Ridge 2	1.45	2.35	2.24	1.97	1.71	1.49	1.01	1.10	1.76	2.59	1.93	2.15	2.82	2.32	1.90
72	Hopkins Ridge I	30.1	48.7	46.4	40.8	35.4	30.8	21.0	22.8	36.6	53.7	40.0	44.7	58.5	48.2	39.3
73	Horse Butte Wind	22.6	18.6	11.6	18.8	11.6	15.8	13.7	11.9	8.09	8.80	14.1	20.7	15.4	17.2	14.8
74	Horseshoe Bend Wind Project	1.81	2.94	2.80	2.46	2.14	1.86	1.26	1.38	2.20	3.23	2.41	2.69	3.53	2.90	2.37
75	Hot Springs Wind	3.98	6.46	6.15	5.41	4.70	4.08	2.78	3.03	4.85	7.11	5.30	5.92	7.76	6.39	5.21
76	Industrial Finishes	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
77	Josef Staufer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78	Juniper Canyon	30.4	49.3	47.0	41.3	35.9	31.2	21.2	23.1	37.0	54.3	40.5	45.2	59.2	48.8	39.8
79	Kettle Falls (biomass)	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	23.1	11.6	46.3	41.5
80	King Estate Solar	0.20	0.20	0.17	0.12	0.06	0.04	0.06	0.08	0.12	0.15	0.15	0.19	0.19	0.21	0.13
81	Kittitas Valley Wind	20.3	32.9	31.3	27.6	23.9	20.8	14.2	15.4	24.7	36.2	27.0	30.1	39.5	32.5	26.5
82	Klondike 1	7.55	10.5	9.35	6.35	4.54	4.14	3.30	3.26	6.06	7.95	6.74	8.19	10.4	9.47	6.80
83	Klondike 2	23.6	32.7	29.2	19.8	14.2	13.0	10.3	10.2	19.0	24.9	21.1	25.6	32.6	29.6	21.2
84	Klondike 3	70.4	97.7	87.2	59.2	42.4	38.6	30.8	30.5	56.5	74.2	62.9	76.3	97.1	88.3	63.4
85	Klondike 3a	24.1	33.4	29.8	20.2	14.5	13.2	10.5	10.4	19.3	25.4	21.5	26.1	33.2	30.2	21.7
86	Knudson Wind	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
87	Lava Beds Wind	3.62	5.87	5.59	4.92	4.27	3.71	2.53	2.75	4.41	6.47	4.82	5.38	7.05	5.80	4.74
88	Leaning Juniper	60.7	98.5	93.8	82.5	71.6	62.3	42.4	46.1	73.9	108	80.8	90.2	118	97.3	79.4
89	Leaning Juniper 1	20.2	32.8	31.2	27.5	23.8	20.7	14.1	15.4	24.6	36.1	26.9	30.1	39.4	32.4	26.5
90	Leaning Juniper 2a	18.2	29.5	28.1	24.7	21.4	18.6	12.7	13.8	22.1	32.4	24.2	27.0	35.4	29.1	23.8
91	Leaning Juniper 2b	22.3	36.2	34.5	30.3	26.3	22.9	15.6	17.0	27.2	39.9	29.7	33.2	43.5	35.8	29.2
92	Lewandowski Farms	0.11	0.10	0.08	0.08	0.08	0.06	0.08	0.06	0.11	0.12	0.12	0.11	0.13	0.10	0.09
93	Lime Wind	0.60	0.98	0.93	0.82	0.71	0.62	0.42	0.46	0.73	1.08	0.80	0.90	1.18	0.97	0.79
94	Linden Ranch	10.1	16.3	15.5	13.7	11.9	10.3	7.02	7.64	12.2	18.0	13.4	15.0	19.6	16.1	13.2
95	Livingston	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0	0.01	0.01	0.01	0.01	0.01	0	0.01
96	Lower Snake Wind	69.0	112	189	167	145	126	85.6	93.2	149	219	163	182	239	197	154
97	Lower Snake Wind 1	69.0	112	106	93.7	81.3	70.7	48.1	52.4	83.9	123	91.7	102	134	111	90.2
98	Lower Snake Wind 2	0	0	83.0	73.0	63.3	55.1	37.5	40.8	65.4	95.9	71.5	79.8	105	86.1	64.3
99	Mainline Wind	4.63	7.50	7.15	6.29	5.46	4.74	3.23	3.51	5.63	8.26	6.16	6.88	9.01	7.42	6.05
100	Marengo Wind	42.4	68.7	65.4	57.6	50.0	43.4	29.6	32.2	51.6	75.7	56.4	63.0	82.5	67.9	55.4
101	Marengo Wind 1	28.3	45.8	43.6	38.4	33.3	29.0	19.7	21.5	34.4	50.4	37.6	42.0	55.0	45.3	37.0
102	Marengo Wind 2	14.1	22.9	21.8	19.2	16.7	14.5	9.86	10.7	17.2	25.2	18.8	21.0	27.5	22.6	18.5
103	Meadow Creek Wind	16.1	26.0	24.8	21.8	18.9	16.5	11.2	12.2	19.5	28.7	21.4	23.9	31.3	25.7	21.0
104	Milner Dam Wind Farm	3.92	6.36	6.06	5.33	4.63	4.02	2.74	2.98	4.77	7.00	5.22	5.83	7.64	6.29	5.13
105	Neal Hot Springs	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0
106	Nine Canyon Wind	18.6	34.7	26.0	30.7	22.3	24.4	24.6	19.5	33.9	30.3	21.9	26.8	36.0	15.0	26.0
107	Nine Canyon Wind 1	9.32	17.4	13.1	15.4	11.2	12.2	12.3	9.81	17.0	15.2	11.0	13.4	18.1	7.52	13.1
108	Nine Canyon Wind 2	3.01	5.62	4.21	4.98	3.61	3.95	3.98	3.17	5.50	4.91	3.54	4.34	5.83	2.43	4.22
109	Nine Canyon Wind 3	6.24	11.7	8.74	10.3	7.48	8.19	8.26	6.57	11.4	10.2	7.35	9.00	12.1	5.04	8.75
110	Notch Butte Wind	3.62	5.87	5.59	4.92	4.27	3.71	2.53	2.75	4.41	6.47	4.82	5.38	7.05	5.80	4.74
111	Oregon Trail Wind	2.72	4.40	4.19	3.69	3.20	2.78	1.90	2.06	3.31	4.85	3.61	4.04	5.29	4.35	3.55
112	Palouse Wind	21.0	34.1	32.4	28.5	24.8	21.5	14.7	16.0	25.6	37.5	27.9	31.2	40.9	33.7	27.5
113	PaTu Wind	1.81	2.94	2.80	2.46	2.14	1.86	1.26	1.38	2.20	3.23	2.41	2.69	3.53	2.90	2.37
114	Paynes Ferry Wind Park	4.23	6.85	6.52	5.74	4.98	4.33	2.95	3.21	5.14	7.54	5.62	6.28	8.23	6.77	5.53
115	Pebble Springs Wind	19.9	32.2	30.7	27.0	23.4	20.4	13.9	15.1	24.2	35.5	26.4	29.5	38.7	31.8	26.0
116	Pepsi-Cola Eugene Solar	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
117	Pilgrim Stage Station Wind Park	2.11	3.43	3.26	2.87	2.49	2.17	1.47	1.60	2.57	3.77	2.81	3.14	4.11	3.39	2.76

Table A-11: Regional: Renewable Resources

Operating Year 2016

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
118	Pine Products Biomass	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
119	Portland Waste Water	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40
120	Power County Wind	9.05	14.7	14.0	12.3	10.7	9.28	6.32	6.88	11.0	16.2	12.0	13.5	17.6	14.5	11.8
121	Puyallup Energy Recovery	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
122	Qualco Dairy Digester	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
123	Raft River Geothermal	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
124	Raft River Geothermal 1	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
125	Raft River Geothermal 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
126	Raft River Geothermal 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
127	Rattlesnake Road Wind Farm	20.7	33.6	32.0	28.1	24.4	21.2	14.5	15.7	25.2	37.0	27.5	30.8	40.3	33.2	27.1
128	River Bend Landfill	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30
129	Rock Creek Digester	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
130	Rock River Wind	10.1	16.3	15.5	13.7	11.9	10.3	7.02	7.64	12.2	18.0	13.4	15.0	19.6	16.1	13.2
131	Rockland wind	15.9	25.8	24.6	21.7	18.8	16.3	11.1	12.1	19.4	28.5	21.2	23.7	31.0	25.5	20.8
132	Rogerson Flats	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
133	Ryegrass Wind	4.63	7.50	7.15	6.29	5.46	4.74	3.23	3.51	5.63	8.26	6.16	6.88	9.01	7.42	6.05
134	Salmon Creek Wind	4.02	6.53	6.21	5.47	4.74	4.13	2.81	3.06	4.90	7.18	5.35	5.98	7.83	6.45	5.26
135	Salmon Falls	4.23	6.85	6.52	5.74	4.98	4.33	2.95	3.21	5.14	7.54	5.62	6.28	8.23	6.77	5.53
136	Sawtooth	4.51	7.31	6.96	6.12	5.31	4.62	3.15	3.42	5.49	8.05	5.99	6.70	8.77	7.22	5.90
137	Shepherds Flat	170	276	263	231	200	174	119	129	207	304	226	253	331	273	222
138	Shepherds Flat - Central	58.4	94.6	90.1	79.3	68.8	59.8	40.7	44.3	71.0	104	77.6	86.7	114	93.5	76.3
139	Shepherds Flat - North	53.3	86.5	82.3	72.5	62.9	54.7	37.2	40.5	64.9	95.2	70.9	79.2	104	85.5	69.8
140	Shepherds Flat - South	58.4	94.6	90.1	79.3	68.8	59.8	40.7	44.3	71.0	104	77.6	86.7	114	93.5	76.3
141	Short Mountain	2.05	2.05	1.88	1.87	1.84	1.95	1.91	1.96	1.99	2.03	2.03	2.06	2.03	1.97	1.96
142	Star Point Wind	19.9	32.2	30.7	27.0	23.4	20.4	13.9	15.1	24.2	35.5	26.4	29.5	38.7	31.8	26.0
143	Stateline	52.7	114	74.2	75.5	48.3	58.4	39.9	25.4	96.9	89.2	61.8	80.1	118	48.4	68.8
144	Stateline-OR	29.1	62.9	41.0	41.7	26.7	32.3	22.0	14.0	53.5	49.3	34.2	44.2	65.1	26.8	38.0
145	Stateline-WA	23.6	51.0	33.2	33.8	21.6	26.1	17.9	11.4	43.3	39.9	27.7	35.8	52.7	21.7	30.8
146	Stoltze Biomass	2.80	2.80	2.80	2.70	2.20	2.20	2.20	2.20	2.20	2.30	2.30	2.80	2.80	2.80	2.50
147	Swager Digester	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
148	Swauk Wind	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39
149	Thousand Springs Wind Park	2.41	3.92	3.73	3.28	2.85	2.48	1.69	1.83	2.94	4.31	3.21	3.59	4.70	3.87	3.16
150	Threemile Canyon Wind	1.99	3.23	3.08	2.71	2.35	2.04	1.39	1.51	2.42	3.56	2.65	2.96	3.88	3.19	2.61
151	Treasure Valley Digester	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
152	Tuana Gulch Wind	2.11	3.43	3.26	2.87	2.49	2.17	1.47	1.60	2.57	3.77	2.81	3.14	4.11	3.39	2.76
153	Tuana Springs Wind	3.38	5.48	5.22	4.59	3.99	3.47	2.36	2.57	4.11	6.03	4.50	5.02	6.58	5.42	4.42
154	Two Ponds Wind	4.63	7.50	7.15	6.29	5.46	4.74	3.23	3.51	5.63	8.26	6.16	6.88	9.01	7.42	6.05
155	Van Dyk's Holsteins	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38
156	Vander Haak Dairy	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
157	Vansycle	25.4	44.5	39.8	36.8	30.8	29.9	20.7	20.0	34.9	44.6	32.7	36.8	49.1	38.6	34.3
158	Vansycle 1	5.54	12.2	9.09	9.73	7.36	9.51	6.78	4.92	10.7	9.04	6.27	7.22	10.4	6.72	8.26
159	Vansycle 2	19.9	32.3	30.7	27.0	23.5	20.4	13.9	15.1	24.2	35.5	26.5	29.6	38.7	31.9	26.0
160	Vantage Wind	18.1	29.4	28.0	24.6	21.4	18.6	12.6	13.8	22.0	32.3	24.1	26.9	35.3	29.0	23.7
161	Wheat Field	19.4	31.5	30.0	26.4	22.9	19.9	13.6	14.8	23.7	34.7	25.9	28.9	37.8	31.2	25.4
162	White Bluffs Solar	0.02	0.02	0.01	0	0	0	0	0	0.01	0.01	0.01	0.01	0.01	0.01	0.01
163	White Creek	40.6	65.8	62.6	55.1	47.8	41.6	28.3	30.8	49.4	72.4	54.0	60.3	79.0	65.0	53.1
164	Wild Horse	54.9	89.0	84.8	74.6	64.8	56.3	38.4	41.8	66.9	98.0	73.1	81.6	107	88.0	71.9
165	Wild Horse Solar 1	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
166	Wild Horse Wind 1	46.0	74.6	71.0	62.5	54.2	47.2	32.1	34.9	56.0	82.1	61.2	68.3	89.5	73.7	60.2
167	Wild Horse Wind 2	8.85	14.4	13.7	12.0	10.4	9.08	6.18	6.72	10.8	15.8	11.8	13.2	17.2	14.2	11.6
168	Willow Creek	14.5	23.5	22.4	19.7	17.1	14.9	10.1	11.0	17.6	25.9	19.3	21.5	28.2	23.2	19.0
169	Windy Point Wind	80.2	130	124	109	94.6	82.3	56.0	61.0	97.7	143	107	119	156	129	105
170	Windy Point 1	27.5	44.6	42.4	37.3	32.4	28.2	19.2	20.9	33.5	49.1	36.6	40.8	53.5	44.1	36.0
171	Windy Point 2	40.7	66.0	62.9	55.3	48.0	41.8	28.4	30.9	49.6	72.7	54.2	60.5	79.3	65.3	53.3
172	Windy Point 2 - Phase 2	12.0	19.5	18.6	16.4	14.2	12.3	8.40	9.14	14.6	21.5	16.0	17.9	23.4	19.3	15.7
173	Wolverine Creek	13.0	21.0	20.0	17.6	15.3	13.3	9.06	9.86	15.8	23.2	17.3	19.3	25.3	20.8	17.0
174	Yahoo Creek Wind	4.23	6.85	6.52	5.74	4.98	4.33	2.95	3.21	5.14	7.54	5.62	6.28	8.23	6.77	5.53
175	Yamhill Solar	0.30	0.30	0.30	0.20	0.10	0.10	0.10	0.10	0.20	0.30	0.30	0.30	0.30	0.40	0.23

Table A-11: Regional: Renewable Resources

Operating Year 2016

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Total Renewable Resources															
176	Cooperative	21.0	27.9	27.0	24.6	22.2	20.2	16.9	17.5	22.8	29.3	24.2	26.4	31.6	27.6	24.0
177	Federal Entities	51.9	89.1	71.2	62.4	46.3	51.1	34.2	30.0	69.0	74.2	57.0	68.1	91.1	61.6	60.2
178	Investor Owned Utilities	1026	1577	1580	1381	1200	1064	765	817	1255	1771	1357	1489	1909	1629	1331
179	Marketer	97.4	161	150	133	113	100	68.3	72.2	122	173	129	145	191	152	127
180	Municipality	277	436	389	357	296	274	195	197	330	442	339	389	500	391	339
181	Other	9.05	14.7	14.0	12.3	10.7	9.28	6.32	6.88	11.0	16.2	12.0	13.5	17.6	14.5	11.8
182	Public Utility District	129	206	190	176	150	137	105	106	165	218	164	185	240	184	166
183	**Total**	**1610**	**2512**	**2420**	**2146**	**1838**	**1656**	**1191**	**1246**	**1975**	**2724**	**2082**	**2315**	**2980**	**2460**	**2060**

Table A-11: Regional: Renewable Resources

Operating Year 2017

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Renewable Resources															
1	3 Bar G Wind	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
2	Ashland Solar Project	0.01	0.01	0.01	0.01	0	0	0	0	0.01	0.01	0.01	0.01	0.01	0.01	0.01
3	City Council	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	N. Mountain Park	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	Police Station	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	Public Works	0.01	0.01	0.01	0	0	0	0	0	0	0.01	0.01	0.01	0.01	0.01	0
7	Bellevue Solar (Amity, OR)	0.20	0.20	0.20	0.10	0.10	0.10	0.10	0.10	0.10	0.20	0.20	0.20	0.20	0.20	0.15
8	Bennett Creek Wind	4.23	6.85	6.52	5.74	4.98	4.33	2.95	3.21	5.14	7.54	5.62	6.28	8.23	6.77	5.53
9	Bettencourt B6 anaerobic digest	0.46	0.97	0.97	0.97	0.97	1.21	1.25	1.21	0.02	0.18	0.16	0.23	0.23	0.41	0.69
10	Big Horn Wind	50.2	81.4	77.5	68.2	59.2	51.5	35.0	38.1	61.1	89.6	66.8	74.6	97.7	80.5	65.7
11	Big Horn 1	40.1	65.1	62.0	54.5	47.3	41.2	28.0	30.5	48.9	71.7	53.4	59.6	78.1	64.3	52.6
12	Big Horn 2	10.1	16.3	15.5	13.7	11.9	10.3	7.02	7.64	12.2	18.0	13.4	15.0	19.6	16.1	13.2
13	Big Sky Dairy	1.05	1.05	1.08	1.05	1.13	1.11	1.01	0.96	1.06	1.05	1.05	1.07	1.13	1.03	1.06
14	Biglow Canyon Wind	90.5	147	140	123	107	92.8	63.2	68.7	110	162	120	134	176	145	119
15	Biglow Canyon 1	25.2	40.9	39.0	34.3	29.8	25.9	17.6	19.2	30.7	45.0	33.6	37.5	49.1	40.4	33.0
16	Biglow Canyon 2	30.1	48.8	46.5	40.9	35.5	30.8	21.0	22.9	36.6	53.7	40.0	44.7	58.6	48.2	39.4
17	Biglow Canyon 3	35.2	57.0	54.3	47.8	41.5	36.1	24.6	26.7	42.8	62.8	46.8	52.3	68.5	56.4	46.1
18	Burley Butte Wind	3.92	6.36	6.06	5.33	4.63	4.02	2.74	2.98	4.77	7.00	5.22	5.83	7.64	6.29	5.14
19	Camp Reed	4.53	7.34	6.99	6.15	5.34	4.64	3.16	3.44	5.51	8.08	6.02	6.73	8.81	7.26	5.93
20	Cassia Farms Wind	2.11	3.43	3.26	2.87	2.49	2.17	1.47	1.60	2.57	3.77	2.81	3.14	4.11	3.39	2.77
21	Cassia Gulch Wind	3.80	6.17	5.87	5.17	4.48	3.90	2.65	2.89	4.63	6.79	5.06	5.65	7.40	6.10	4.98
22	Coffin Butte	5.27	5.27	5.32	5.38	5.46	5.11	5.51	5.44	5.55	5.42	5.42	5.37	5.33	5.17	5.36
23	Coffin Butte 1	2.37	2.37	2.43	2.40	2.43	2.42	2.39	2.39	2.40	2.27	2.27	2.35	2.34	2.33	2.38
24	Coffin Butte 2	2.90	2.90	2.89	2.98	3.03	2.69	3.12	3.05	3.15	3.15	3.15	3.02	2.99	2.84	2.98
25	Cold Springs	4.63	7.50	7.15	6.29	5.46	4.74	3.23	3.51	5.63	8.26	6.16	6.88	9.01	7.42	6.06
26	Columbia Ridge Landfill	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6
27	Combine Hills	20.9	33.9	32.3	28.4	24.7	21.5	14.6	15.9	25.5	37.4	27.8	31.1	40.7	33.5	27.4
28	Combine Hills 2	12.7	20.6	19.6	17.2	15.0	13.0	8.85	9.63	15.4	22.6	16.9	18.8	24.7	20.3	16.6
29	Combine Hills I	8.25	13.4	12.7	11.2	9.73	8.46	5.76	6.27	10.0	14.7	11.0	12.3	16.1	13.2	10.8
30	Condon	5.92	11.5	9.57	10.9	9.77	13.8	7.23	7.13	13.0	10.7	8.60	8.69	10.3	6.85	9.65
31	Cottonwood Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	Deep Creek Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	DeRuyter & Son's Dairy	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20
34	Desert Meadow Windfarm	4.63	7.50	7.15	6.29	5.46	4.74	3.23	3.51	5.63	8.26	6.16	6.88	9.01	7.42	6.06
35	Double A Digester	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
36	Double B Digester	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
37	Dry Creek Landfill	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25
38	Dry Dairy Creek	1.38	1.39	1.36	1.36	1.33	1.26	1.17	1.40	1.39	1.30	0.96	1.15	1.15	1.10	1.26
39	Echo Wind Farm	13.0	21.1	20.1	17.7	15.3	13.3	9.07	9.87	15.8	23.2	17.3	19.3	25.3	20.8	17.0
40	Echo Wind 1	8.96	14.5	13.8	12.2	10.6	9.19	6.26	6.81	10.9	16.0	11.9	13.3	17.5	14.4	11.7
41	Echo Wind 2	4.02	6.53	6.21	5.47	4.74	4.13	2.81	3.06	4.90	7.18	5.35	5.98	7.83	6.45	5.27
42	Edaleen Cow Power	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63
43	Elkhorn Valley Wind Project	20.3	32.8	31.3	27.5	23.9	20.8	14.1	15.4	24.7	36.2	26.9	30.1	39.4	32.5	26.5
44	Farm Power Lynden	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
45	Farm Power Misty Meadow	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
46	Farm Power Rexville	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
47	Farm Power Tillamook	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
48	Fighting Creek Landfill	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60
49	Finley BioEnergy	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88
50	Flathead County Landfill	1.50	1.50	1.50	1.31	1.35	1.34	1.34	1.35	1.29	1.24	1.24	1.41	1.48	1.50	1.38
51	Foote Creek 1	8.33	13.5	12.9	11.3	9.82	8.54	5.82	6.33	10.1	14.9	11.1	12.4	16.2	13.4	10.9
52	Foote Creek 2	0.36	0.59	0.56	0.49	0.43	0.37	0.25	0.28	0.44	0.65	0.48	0.54	0.71	0.58	0.48
53	Foote Creek 4	3.38	5.48	5.22	4.59	3.99	3.47	2.36	2.57	4.11	6.03	4.50	5.02	6.58	5.42	4.43
54	Fossil Gulch Wind Project	2.11	3.43	3.26	2.87	2.49	2.17	1.47	1.60	2.57	3.77	2.81	3.14	4.11	3.39	2.77
55	Fourmile Hill Geothermal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
56	Golden Valley Wind	2.41	3.92	3.73	3.28	2.85	2.48	1.69	1.83	2.94	4.31	3.21	3.59	4.70	3.87	3.16
57	Goodnoe Hills	18.9	30.7	29.2	25.7	22.3	19.4	13.2	14.4	23.0	33.8	25.2	28.1	36.8	30.3	24.8
58	Goshen North (Ridgeline)	25.1	40.6	38.7	34.0	29.5	25.7	17.5	19.0	30.5	44.7	33.3	37.2	48.8	40.2	32.8

Table A-11: Regional: Renewable Resources

Operating Year 2017

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
59	Grandview Solar One	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00
60	Grayland	1.21	1.96	1.86	1.64	1.42	1.24	0.84	0.92	1.47	2.16	1.61	1.79	2.35	1.93	1.58
61	H.W. Hill Landfill Gas (Roosevelt	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00
62	HW Hill Landfill Gas 1	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30
63	HW Hill Landfill Gas 2	5.70	5.70	5.70	5.70	5.70	5.70	5.70	5.70	5.70	5.70	5.70	5.70	5.70	5.70	5.70
64	Hammett Hill	4.63	7.50	7.15	6.29	5.46	4.74	3.23	3.51	5.63	8.26	6.16	6.88	9.01	7.42	6.06
65	Harvest	19.9	32.3	30.7	27.0	23.5	20.4	13.9	15.1	24.2	35.5	26.5	29.6	38.7	31.9	26.1
66	Hay Canyon Wind	20.3	32.9	31.3	27.6	23.9	20.8	14.2	15.4	24.7	36.2	27.0	30.1	39.5	32.5	26.6
67	Healow 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68	Hidden Hollow Landfill	2.17	2.17	2.33	2.40	2.60	2.53	2.22	2.39	2.34	2.47	2.47	2.22	2.35	2.04	2.34
69	High Mesa Wind	8.03	13.0	12.4	10.9	9.47	8.23	5.60	6.10	9.77	14.3	10.7	11.9	15.6	12.9	10.5
70	Hopkins Ridge	31.5	51.1	48.7	42.8	37.2	32.3	22.0	23.9	38.3	56.3	41.9	46.8	61.3	50.5	41.3
71	Hopkins Ridge 2	1.45	2.35	2.24	1.97	1.71	1.49	1.01	1.10	1.76	2.59	1.93	2.15	2.82	2.32	1.90
72	Hopkins Ridge I	30.1	48.7	46.4	40.8	35.4	30.8	21.0	22.8	36.6	53.7	40.0	44.7	58.5	48.2	39.4
73	Horse Butte Wind	22.6	18.6	11.6	18.8	11.6	15.8	13.7	11.9	8.09	8.80	14.1	20.7	15.4	17.2	14.8
74	Horseshoe Bend Wind Project	1.81	2.94	2.80	2.46	2.14	1.86	1.26	1.38	2.20	3.23	2.41	2.69	3.53	2.90	2.37
75	Hot Springs Wind	3.98	6.46	6.15	5.41	4.70	4.08	2.78	3.03	4.85	7.11	5.30	5.92	7.76	6.39	5.22
76	Industrial Finishes	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
77	Josef Staufer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78	Juniper Canyon	30.4	49.3	47.0	41.3	35.9	31.2	21.2	23.1	37.0	54.3	40.5	45.2	59.2	48.8	39.8
79	Kettle Falls (biomass)	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	27.8	46.3	46.3	44.7
80	King Estate Solar	0.20	0.20	0.17	0.12	0.06	0.04	0.06	0.08	0.12	0.15	0.15	0.19	0.19	0.21	0.13
81	Kittitas Valley Wind	20.3	32.9	31.3	27.6	23.9	20.8	14.2	15.4	24.7	36.2	27.0	30.1	39.5	32.5	26.6
82	Klondike 1	7.55	10.5	9.35	6.35	4.54	4.14	3.30	3.26	6.06	7.95	6.74	8.19	10.4	9.47	6.81
83	Klondike 2	23.6	32.7	29.2	19.8	14.2	13.0	10.3	10.2	19.0	24.9	21.1	25.6	32.6	29.6	21.3
84	Klondike 3	70.4	97.7	87.2	59.2	42.4	38.6	30.8	30.5	56.5	74.2	62.9	76.3	97.1	88.3	63.5
85	Klondike 3a	24.1	33.4	29.8	20.2	14.5	13.2	10.5	10.4	19.3	25.4	21.5	26.1	33.2	30.2	21.7
86	Knudson Wind	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
87	Lava Beds Wind	3.62	5.87	5.59	4.92	4.27	3.71	2.53	2.75	4.41	6.47	4.82	5.38	7.05	5.80	4.74
88	Leaning Juniper	60.7	98.5	93.8	82.5	71.6	62.3	42.4	46.1	73.9	108	80.8	90.2	118	97.3	79.5
89	Leaning Juniper 1	20.2	32.8	31.2	27.5	23.8	20.7	14.1	15.4	24.6	36.1	26.9	30.1	39.4	32.4	26.5
90	Leaning Juniper 2a	18.2	29.5	28.1	24.7	21.4	18.6	12.7	13.8	22.1	32.4	24.2	27.0	35.4	29.1	23.8
91	Leaning Juniper 2b	22.3	36.2	34.5	30.3	26.3	22.9	15.6	17.0	27.2	39.9	29.7	33.2	43.5	35.8	29.3
92	Lewandowski Farms	0.11	0.10	0.08	0.08	0.08	0.06	0.08	0.06	0.11	0.12	0.12	0.11	0.13	0.10	0.09
93	Lime Wind	0.60	0.98	0.93	0.82	0.71	0.62	0.42	0.46	0.73	1.08	0.80	0.90	1.18	0.97	0.79
94	Linden Ranch	10.1	16.3	15.5	13.7	11.9	10.3	7.02	7.64	12.2	18.0	13.4	15.0	19.6	16.1	13.2
95	Livingston	0.01	0	0.01	0.01	0.01	0.01	0.01	0	0.01	0.01	0.01	0.01	0.01	0	0.01
96	Lower Snake Wind	123	199	189	167	145	126	85.6	93.2	149	219	163	182	239	197	161
97	Lower Snake Wind 1	69.0	112	106	93.7	81.3	70.7	48.1	52.4	83.9	123	91.7	102	134	111	90.3
98	Lower Snake Wind 2	53.7	87.1	83.0	73.0	63.3	55.1	37.5	40.8	65.4	95.9	71.5	79.8	105	86.1	70.4
99	Mainline Wind	4.63	7.50	7.15	6.29	5.46	4.74	3.23	3.51	5.63	8.26	6.16	6.88	9.01	7.42	6.06
100	Marengo Wind	42.4	68.7	65.4	57.6	50.0	43.4	29.6	32.2	51.6	75.7	56.4	63.0	82.5	67.9	55.5
101	Marengo Wind 1	28.3	45.8	43.6	38.4	33.3	29.0	19.7	21.5	34.4	50.4	37.6	42.0	55.0	45.3	37.0
102	Marengo Wind 2	14.1	22.9	21.8	19.2	16.7	14.5	9.86	10.7	17.2	25.2	18.8	21.0	27.5	22.6	18.5
103	Meadow Creek Wind	16.1	26.0	24.8	21.8	18.9	16.5	11.2	12.2	19.5	28.7	21.4	23.9	31.3	25.7	21.0
104	Milner Dam Wind Farm	3.92	6.36	6.06	5.33	4.63	4.02	2.74	2.98	4.77	7.00	5.22	5.83	7.64	6.29	5.14
105	Neal Hot Springs	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0
106	Nine Canyon Wind	18.6	34.7	26.0	30.7	22.3	24.4	24.6	19.5	33.9	30.3	21.9	26.8	36.0	15.0	26.1
107	Nine Canyon Wind 1	9.32	17.4	13.1	15.4	11.2	12.2	12.3	9.81	17.0	15.2	11.0	13.4	18.1	7.52	13.1
108	Nine Canyon Wind 2	3.01	5.62	4.21	4.98	3.61	3.95	3.98	3.17	5.50	4.91	3.54	4.34	5.83	2.43	4.22
109	Nine Canyon Wind 3	6.24	11.7	8.74	10.3	7.48	8.19	8.26	6.57	11.4	10.2	7.35	9.00	12.1	5.04	8.75
110	Notch Butte Wind	3.62	5.87	5.59	4.92	4.27	3.71	2.53	2.75	4.41	6.47	4.82	5.38	7.05	5.80	4.74
111	Oregon Trail Wind	2.72	4.40	4.19	3.69	3.20	2.78	1.90	2.06	3.31	4.85	3.61	4.04	5.29	4.35	3.56
112	Palouse Wind	21.0	34.1	32.4	28.5	24.8	21.5	14.7	16.0	25.6	37.5	27.9	31.2	40.9	33.7	27.5
113	PaTu Wind	1.81	2.94	2.80	2.46	2.14	1.86	1.26	1.38	2.20	3.23	2.41	2.69	3.53	2.90	2.37
114	Paynes Ferry Wind Park	4.23	6.85	6.52	5.74	4.98	4.33	2.95	3.21	5.14	7.54	5.62	6.28	8.23	6.77	5.53
115	Pebble Springs Wind	19.9	32.2	30.7	27.0	23.4	20.4	13.9	15.1	24.2	35.5	26.4	29.5	38.7	31.8	26.0
116	Pepsi-Cola Eugene Solar	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
117	Pilgrim Stage Station Wind Park	2.11	3.43	3.26	2.87	2.49	2.17	1.47	1.60	2.57	3.77	2.81	3.14	4.11	3.39	2.77

Table A-11: Regional: Renewable Resources

Operating Year 2017

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
118	Pine Products Biomass	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
119	Portland Waste Water	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40
120	Power County Wind	9.05	14.7	14.0	12.3	10.7	9.28	6.32	6.88	11.0	16.2	12.0	13.5	17.6	14.5	11.9
121	Puyallup Energy Recovery	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
122	Qualco Dairy Digester	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
123	Raft River Geothermal	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
124	Raft River Geothermal 1	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
125	Raft River Geothermal 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
126	Raft River Geothermal 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
127	Rattlesnake Road Wind Farm	20.7	33.6	32.0	28.1	24.4	21.2	14.5	15.7	25.2	37.0	27.5	30.8	40.3	33.2	27.1
128	River Bend Landfill	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30
129	Rock Creek Digester	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
130	Rock River Wind	10.1	16.3	15.5	13.7	11.9	10.3	7.02	7.64	12.2	18.0	13.4	15.0	19.6	16.1	13.2
131	Rockland wind	15.9	25.8	24.6	21.7	18.8	16.3	11.1	12.1	19.4	28.5	21.2	23.7	31.0	25.5	20.9
132	Rogerson Flats	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
133	Ryegrass Wind	4.63	7.50	7.15	6.29	5.46	4.74	3.23	3.51	5.63	8.26	6.16	6.88	9.01	7.42	6.06
134	Salmon Creek Wind	4.02	6.53	6.21	5.47	4.74	4.13	2.81	3.06	4.90	7.18	5.35	5.98	7.83	6.45	5.27
135	Salmon Falls	4.23	6.85	6.52	5.74	4.98	4.33	2.95	3.21	5.14	7.54	5.62	6.28	8.23	6.77	5.53
136	Sawtooth	4.51	7.31	6.96	6.12	5.31	4.62	3.15	3.42	5.49	8.05	5.99	6.70	8.77	7.22	5.90
137	Shepherds Flat	170	276	263	231	200	174	119	129	207	304	226	253	331	273	223
138	Shepherds Flat - Central	58.4	94.6	90.1	79.3	68.8	59.8	40.7	44.3	71.0	104	77.6	86.7	114	93.5	76.4
139	Shepherds Flat - North	53.3	86.5	82.3	72.5	62.9	54.7	37.2	40.5	64.9	95.2	70.9	79.2	104	85.5	69.8
140	Shepherds Flat - South	58.4	94.6	90.1	79.3	68.8	59.8	40.7	44.3	71.0	104	77.6	86.7	114	93.5	76.4
141	Short Mountain	2.05	2.05	1.88	1.87	1.84	1.95	1.91	1.96	1.99	2.03	2.03	2.06	2.03	1.97	1.96
142	Star Point Wind	19.9	32.2	30.7	27.0	23.4	20.4	13.9	15.1	24.2	35.5	26.4	29.5	38.7	31.8	26.0
143	Stateline	52.7	114	74.2	75.5	48.3	58.4	39.9	25.4	96.9	89.2	61.8	80.1	118	48.4	69.0
144	Stateline-OR	29.1	62.9	41.0	41.7	26.7	32.3	22.0	14.0	53.5	49.3	34.2	44.2	65.1	26.8	38.1
145	Stateline-WA	23.6	51.0	33.2	33.8	21.6	26.1	17.9	11.4	43.3	39.9	27.7	35.8	52.7	21.7	30.9
146	Stoltze Biomass	2.80	2.80	2.80	2.70	2.20	2.20	2.20	2.20	2.20	2.30	2.30	2.80	2.80	2.80	2.50
147	Swager Digester	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
148	Swauk Wind	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39
149	Thousand Springs Wind Park	2.41	3.92	3.73	3.28	2.85	2.48	1.69	1.83	2.94	4.31	3.21	3.59	4.70	3.87	3.16
150	Threemile Canyon Wind	1.99	3.23	3.08	2.71	2.35	2.04	1.39	1.51	2.42	3.56	2.65	2.96	3.88	3.19	2.61
151	Treasure Valley Digester	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
152	Tuana Gulch Wind	2.11	3.43	3.26	2.87	2.49	2.17	1.47	1.60	2.57	3.77	2.81	3.14	4.11	3.39	2.77
153	Tuana Springs Wind	3.38	5.48	5.22	4.59	3.99	3.47	2.36	2.57	4.11	6.03	4.50	5.02	6.58	5.42	4.43
154	Two Ponds Wind	4.63	7.50	7.15	6.29	5.46	4.74	3.23	3.51	5.63	8.26	6.16	6.88	9.01	7.42	6.06
155	Van Dyk's Holsteins	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38
156	Vander Haak Dairy	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
157	Vansycle	25.4	44.5	39.8	36.8	30.8	29.9	20.7	20.0	34.9	44.6	32.7	36.8	49.1	38.6	34.3
158	Vansycle 1	5.54	12.2	9.09	9.73	7.36	9.51	6.78	4.92	10.7	9.04	6.27	7.22	10.4	6.72	8.27
159	Vansycle 2	19.9	32.3	30.7	27.0	23.5	20.4	13.9	15.1	24.2	35.5	26.5	29.6	38.7	31.9	26.1
160	Vantage Wind	18.1	29.4	28.0	24.6	21.4	18.6	12.6	13.8	22.0	32.3	24.1	26.9	35.3	29.0	23.7
161	Wheat Field	19.4	31.5	30.0	26.4	22.9	19.9	13.6	14.8	23.7	34.7	25.9	28.9	37.8	31.2	25.5
162	White Bluffs Solar	0.02	0.02	0.01	0	0	0	0	0	0.01	0.01	0.01	0.01	0.01	0.01	0.01
163	White Creek	40.6	65.8	62.6	55.1	47.8	41.6	28.3	30.8	49.4	72.4	54.0	60.3	79.0	65.0	53.1
164	Wild Horse	54.9	89.0	84.8	74.6	64.8	56.3	38.4	41.8	66.9	98.0	73.1	81.6	107	88.0	71.9
165	Wild Horse Solar 1	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
166	Wild Horse Wind 1	46.0	74.6	71.0	62.5	54.2	47.2	32.1	34.9	56.0	82.1	61.2	68.3	89.5	73.7	60.2
167	Wild Horse Wind 2	8.85	14.4	13.7	12.0	10.4	9.08	6.18	6.72	10.8	15.8	11.8	13.2	17.2	14.2	11.6
168	Willow Creek	14.5	23.5	22.4	19.7	17.1	14.9	10.1	11.0	17.6	25.9	19.3	21.5	28.2	23.2	19.0
169	Windy Point Wind	80.2	130	124	109	94.6	82.3	56.0	61.0	97.7	143	107	119	156	129	105
170	Windy Point 1	27.5	44.6	42.4	37.3	32.4	28.2	19.2	20.9	33.5	49.1	36.6	40.8	53.5	44.1	36.0
171	Windy Point 2	40.7	66.0	62.9	55.3	48.0	41.8	28.4	30.9	49.6	72.7	54.2	60.5	79.3	65.3	53.3
172	Windy Point 2 - Phase 2	12.0	19.5	18.6	16.4	14.2	12.3	8.40	9.14	14.6	21.5	16.0	17.9	23.4	19.3	15.8
173	Wolverine Creek	13.0	21.0	20.0	17.6	15.3	13.3	9.06	9.86	15.8	23.2	17.3	19.3	25.3	20.8	17.0
174	Yahoo Creek Wind	4.23	6.85	6.52	5.74	4.98	4.33	2.95	3.21	5.14	7.54	5.62	6.28	8.23	6.77	5.53
175	Yamhill Solar	0.30	0.30	0.30	0.20	0.10	0.10	0.10	0.10	0.20	0.30	0.30	0.30	0.30	0.40	0.23

Table A-11: Regional: Renewable Resources

Operating Year 2017

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Total Renewable Resources															
176	Cooperative	21.0	27.9	27.1	24.7	22.3	20.2	16.9	17.6	22.8	29.1	24.0	26.4	31.6	27.6	24.0
177	Federal Entities	51.9	89.1	71.2	62.4	46.3	51.1	34.2	30.0	69.0	74.2	57.0	68.1	91.1	61.6	60.3
178	Investor Owned Utilities	1080	1664	1580	1381	1200	1064	765	817	1255	1771	1357	1493	1944	1629	1341
179	Marketer	97.4	161	150	133	113	100	68.3	72.2	122	173	129	145	191	152	128
180	Municipality	277	436	389	357	296	274	195	197	330	442	339	389	500	391	339
181	Other	9.05	14.7	14.0	12.3	10.7	9.28	6.32	6.88	11.0	16.2	12.0	13.5	17.6	14.5	11.9
182	Public Utility District	129	206	190	176	150	137	105	106	165	218	164	185	240	184	167
183	**Total**	**1664**	**2599**	**2420**	**2146**	**1838**	**1656**	**1191**	**1246**	**1975**	**2724**	**2082**	**2320**	**3015**	**2460**	**2071**

Table A-11: Regional: Renewable Resources

Operating Year 2018

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Renewable Resources															
1	3 Bar G Wind	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
2	Ashland Solar Project	0.01	0.01	0.01	0.01	0	0	0	0	0.01	0.01	0.01	0.01	0.01	0.01	0.01
3	City Council	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	N. Mountain Park	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	Police Station	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	Public Works	0.01	0.01	0.01	0	0	0	0	0	0	0.01	0.01	0.01	0.01	0.01	0
7	Bellevue Solar (Amity, OR)	0.20	0.20	0.20	0.10	0.10	0.10	0.10	0.10	0.10	0.20	0.20	0.20	0.20	0.20	0.15
8	Bennett Creek Wind	4.23	6.85	6.52	5.74	4.98	4.33	2.95	3.21	5.14	7.54	5.62	6.28	8.23	6.77	5.53
9	Bettencourt B6 anaerobic digest	0.46	0.97	0.97	0.97	0.97	1.21	1.25	1.21	0.02	0.18	0.16	0.23	0.23	0.41	0.69
10	Big Horn Wind	50.2	81.4	77.5	68.2	59.2	51.5	35.0	38.1	61.1	89.6	66.8	74.6	97.7	80.5	65.7
11	Big Horn 1	40.1	65.1	62.0	54.5	47.3	41.2	28.0	30.5	48.9	71.7	53.4	59.6	78.1	64.3	52.6
12	Big Horn 2	10.1	16.3	15.5	13.7	11.9	10.3	7.02	7.64	12.2	18.0	13.4	15.0	19.6	16.1	13.2
13	Big Sky Dairy	1.05	1.05	1.08	1.05	1.13	1.11	1.01	0.96	1.06	1.05	1.05	1.07	1.13	1.03	1.06
14	Biglow Canyon Wind	90.5	147	140	123	107	92.8	63.2	68.7	110	162	120	134	176	145	119
15	Biglow Canyon 1	25.2	40.9	39.0	34.3	29.8	25.9	17.6	19.2	30.7	45.0	33.6	37.5	49.1	40.4	33.0
16	Biglow Canyon 2	30.1	48.8	46.5	40.9	35.5	30.8	21.0	22.9	36.6	53.7	40.0	44.7	58.6	48.2	39.4
17	Biglow Canyon 3	35.2	57.0	54.3	47.8	41.5	36.1	24.6	26.7	42.8	62.8	46.8	52.3	68.5	56.4	46.1
18	Burley Butte Wind	3.92	6.36	6.06	5.33	4.63	4.02	2.74	2.98	4.77	7.00	5.22	5.83	7.64	6.29	5.14
19	Camp Reed	4.53	7.34	6.99	6.15	5.34	4.64	3.16	3.44	5.51	8.08	6.02	6.73	8.81	7.26	5.93
20	Cassia Farms Wind	2.11	3.43	3.26	2.87	2.49	2.17	1.47	1.60	2.57	3.77	2.81	3.14	4.11	3.39	2.77
21	Cassia Gulch Wind	3.80	6.17	5.87	5.17	4.48	3.90	2.65	2.89	4.63	6.79	5.06	5.65	7.40	6.10	4.98
22	Coffin Butte	5.27	5.27	5.32	5.38	5.46	5.11	5.51	5.44	5.55	5.42	5.42	5.37	5.33	5.17	5.36
23	Coffin Butte 1	2.37	2.37	2.43	2.40	2.43	2.42	2.39	2.39	2.40	2.27	2.27	2.35	2.34	2.33	2.38
24	Coffin Butte 2	2.90	2.90	2.89	2.98	3.03	2.69	3.12	3.05	3.15	3.15	3.15	3.02	2.99	2.84	2.98
25	Cold Springs	4.63	7.50	7.15	6.29	5.46	4.74	3.23	3.51	5.63	8.26	6.16	6.88	9.01	7.42	6.06
26	Columbia Ridge Landfill	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6
27	Combine Hills	20.9	33.9	32.3	28.4	24.7	21.5	14.6	15.9	25.5	37.4	27.8	31.1	40.7	33.5	27.4
28	Combine Hills 2	12.7	20.6	19.6	17.2	15.0	13.0	8.85	9.63	15.4	22.6	16.9	18.8	24.7	20.3	16.6
29	Combine Hills I	8.25	13.4	12.7	11.2	9.73	8.46	5.76	6.27	10.0	14.7	11.0	12.3	16.1	13.2	10.8
30	Condon	5.92	11.5	9.57	10.9	9.77	13.8	7.23	7.13	13.0	10.7	8.60	8.69	10.3	6.85	9.65
31	Cottonwood Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	Deep Creek Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	DeRuyter & Son's Dairy	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20
34	Desert Meadow Windfarm	4.63	7.50	7.15	6.29	5.46	4.74	3.23	3.51	5.63	8.26	6.16	6.88	9.01	7.42	6.06
35	Double A Digester	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
36	Double B Digester	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
37	Dry Creek Landfill	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25
38	Dry Dairy Creek	1.38	1.39	1.36	1.36	1.33	1.26	1.17	1.40	1.39	1.30	0.96	1.15	1.15	1.10	1.26
39	Echo Wind Farm	13.0	21.1	20.1	17.7	15.3	13.3	9.07	9.87	15.8	23.2	17.3	19.3	25.3	20.8	17.0
40	Echo Wind 1	8.96	14.5	13.8	12.2	10.6	9.19	6.26	6.81	10.9	16.0	11.9	13.3	17.5	14.4	11.7
41	Echo Wind 2	4.02	6.53	6.21	5.47	4.74	4.13	2.81	3.06	4.90	7.18	5.35	5.98	7.83	6.45	5.27
42	Edaleen Cow Power	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63
43	Elkhorn Valley Wind Project	20.3	32.8	31.3	27.5	23.9	20.8	14.1	15.4	24.7	36.2	26.9	30.1	39.4	32.5	26.5
44	Farm Power Lynden	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
45	Farm Power Misty Meadow	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
46	Farm Power Rexville	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
47	Farm Power Tillamook	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
48	Fighting Creek Landfill	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60
49	Finley BioEnergy	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88
50	Flathead County Landfill	1.48	1.48	1.48	1.35	1.34	1.34	1.34	1.35	1.34	1.41	1.41	1.43	1.48	1.50	1.40
51	Foote Creek 1	8.33	13.5	12.9	11.3	9.82	8.54	5.82	6.33	10.1	14.9	11.1	12.4	16.2	13.4	10.9
52	Foote Creek 2	0.36	0.59	0.56	0.49	0.43	0.37	0.25	0.28	0.44	0.65	0.48	0.54	0.71	0.58	0.48
53	Foote Creek 4	3.38	5.48	5.22	4.59	3.99	3.47	2.36	2.57	4.11	6.03	4.50	5.02	6.58	5.42	4.43
54	Fossil Gulch Wind Project	2.11	3.43	3.26	2.87	2.49	2.17	1.47	1.60	2.57	3.77	2.81	3.14	4.11	3.39	2.77
55	Fourmile Hill Geothermal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
56	Golden Valley Wind	2.41	3.92	3.73	3.28	2.85	2.48	1.69	1.83	2.94	4.31	3.21	3.59	4.70	3.87	3.16
57	Goodnoe Hills	18.9	30.7	29.2	25.7	22.3	19.4	13.2	14.4	23.0	33.8	25.2	28.1	36.8	30.3	24.8
58	Goshen North (Ridgeline)	25.1	40.6	38.7	34.0	29.5	25.7	17.5	19.0	30.5	44.7	33.3	37.2	48.8	40.2	32.8

Table A-11: Regional: Renewable Resources

Operating Year 2018

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
59	Grandview Solar One	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00
60	Grayland	1.21	1.96	1.86	1.64	1.42	1.24	0.84	0.92	1.47	2.16	1.61	1.79	2.35	1.93	1.58
61	H.W. Hill Landfill Gas (Roosevelt	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00
62	HW Hill Landfill Gas 1	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30
63	HW Hill Landfill Gas 2	5.70	5.70	5.70	5.70	5.70	5.70	5.70	5.70	5.70	5.70	5.70	5.70	5.70	5.70	5.70
64	Hammett Hill	4.63	7.50	7.15	6.29	5.46	4.74	3.23	3.51	5.63	8.26	6.16	6.88	9.01	7.42	6.06
65	Harvest	19.9	32.3	30.7	27.0	23.5	20.4	13.9	15.1	24.2	35.5	26.5	29.6	38.7	31.9	26.1
66	Hay Canyon Wind	20.3	32.9	31.3	27.6	23.9	20.8	14.2	15.4	24.7	36.2	27.0	30.1	39.5	32.5	26.6
67	Healow 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68	Hidden Hollow Landfill	2.17	2.17	2.33	2.40	2.60	2.53	2.22	2.39	2.34	2.47	2.47	2.22	2.35	2.04	2.34
69	High Mesa Wind	8.03	13.0	12.4	10.9	9.47	8.23	5.60	6.10	9.77	14.3	10.7	11.9	15.6	12.9	10.5
70	Hopkins Ridge	31.5	51.1	48.7	42.8	37.2	32.3	22.0	23.9	38.3	56.3	41.9	46.8	61.3	50.5	41.3
71	Hopkins Ridge 2	1.45	2.35	2.24	1.97	1.71	1.49	1.01	1.10	1.76	2.59	1.93	2.15	2.82	2.32	1.90
72	Hopkins Ridge I	30.1	48.7	46.4	40.8	35.4	30.8	21.0	22.8	36.6	53.7	40.0	44.7	58.5	48.2	39.4
73	Horse Butte Wind	22.6	18.6	11.6	18.8	11.6	15.8	13.7	11.9	8.09	8.80	14.1	20.7	15.4	17.2	14.8
74	Horseshoe Bend Wind Project	1.81	2.94	2.80	2.46	2.14	1.86	1.26	1.38	2.20	3.23	2.41	2.69	3.53	2.90	2.37
75	Hot Springs Wind	3.98	6.46	6.15	5.41	4.70	4.08	2.78	3.03	4.85	7.11	5.30	5.92	7.76	6.39	5.22
76	Industrial Finishes	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
77	Josef Staufer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78	Juniper Canyon	30.4	49.3	47.0	41.3	35.9	31.2	21.2	23.1	37.0	54.3	40.5	45.2	59.2	48.8	39.8
79	Kettle Falls (biomass)	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	37.0	11.6	46.3	42.6
80	King Estate Solar	0.20	0.20	0.17	0.12	0.06	0.04	0.06	0.08	0.12	0.15	0.15	0.19	0.19	0.21	0.13
81	Kittitas Valley Wind	20.3	32.9	31.3	27.6	23.9	20.8	14.2	15.4	24.7	36.2	27.0	30.1	39.5	32.5	26.6
82	Klondike 1	7.55	10.5	9.35	6.35	4.54	4.14	3.30	3.26	6.06	7.95	6.74	8.19	10.4	9.47	6.81
83	Klondike 2	23.6	32.7	29.2	19.8	14.2	13.0	10.3	10.2	19.0	24.9	21.1	25.6	32.6	29.6	21.3
84	Klondike 3	70.4	97.7	87.2	59.2	42.4	38.6	30.8	30.5	56.5	74.2	62.9	76.3	97.1	88.3	63.5
85	Klondike 3a	24.1	33.4	29.8	20.2	14.5	13.2	10.5	10.4	19.3	25.4	21.5	26.1	33.2	30.2	21.7
86	Knudson Wind	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
87	Lava Beds Wind	3.62	5.87	5.59	4.92	4.27	3.71	2.53	2.75	4.41	6.47	4.82	5.38	7.05	5.80	4.74
88	Leaning Juniper	60.7	98.5	93.8	82.5	71.6	62.3	42.4	46.1	73.9	108	80.8	90.2	118	97.3	79.5
89	Leaning Juniper 1	20.2	32.8	31.2	27.5	23.8	20.7	14.1	15.4	24.6	36.1	26.9	30.1	39.4	32.4	26.5
90	Leaning Juniper 2a	18.2	29.5	28.1	24.7	21.4	18.6	12.7	13.8	22.1	32.4	24.2	27.0	35.4	29.1	23.8
91	Leaning Juniper 2b	22.3	36.2	34.5	30.3	26.3	22.9	15.6	17.0	27.2	39.9	29.7	33.2	43.5	35.8	29.3
92	Lewandowski Farms	0.11	0.10	0.08	0.08	0.08	0.07	0.08	0.06	0.11	0.12	0.12	0.11	0.13	0.10	0.09
93	Lime Wind	0.60	0.98	0.93	0.82	0.71	0.62	0.42	0.46	0.73	1.08	0.80	0.90	1.18	0.97	0.79
94	Linden Ranch	10.1	16.3	15.5	13.7	11.9	10.3	7.02	7.64	12.2	18.0	13.4	15.0	19.6	16.1	13.2
95	Livingston	0.01	0	0.01	0.01	0.01	0.01	0.01	0	0.01	0.01	0.01	0.01	0.01	0	0.01
96	Lower Snake Wind	123	199	189	167	145	126	85.6	93.2	149	219	163	182	239	197	161
97	Lower Snake Wind 1	69.0	112	106	93.7	81.3	70.7	48.1	52.4	83.9	123	91.7	102	134	111	90.3
98	Lower Snake Wind 2	53.7	87.1	83.0	73.0	63.3	55.1	37.5	40.8	65.4	95.9	71.5	79.8	105	86.1	70.4
99	Mainline Wind	4.63	7.50	7.15	6.29	5.46	4.74	3.23	3.51	5.63	8.26	6.16	6.88	9.01	7.42	6.06
100	Marengo Wind	42.4	68.7	65.4	57.6	50.0	43.4	29.6	32.2	51.6	75.7	56.4	63.0	82.5	67.9	55.5
101	Marengo Wind 1	28.3	45.8	43.6	38.4	33.3	29.0	19.7	21.5	34.4	50.4	37.6	42.0	55.0	45.3	37.0
102	Marengo Wind 2	14.1	22.9	21.8	19.2	16.7	14.5	9.86	10.7	17.2	25.2	18.8	21.0	27.5	22.6	18.5
103	Meadow Creek Wind	16.1	26.0	24.8	21.8	18.9	16.5	11.2	12.2	19.5	28.7	21.4	23.9	31.3	25.7	21.0
104	Milner Dam Wind Farm	3.92	6.36	6.06	5.33	4.63	4.02	2.74	2.98	4.77	7.00	5.22	5.83	7.64	6.29	5.14
105	Neal Hot Springs	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0
106	Nine Canyon Wind	18.6	34.7	26.0	30.7	22.3	24.4	24.6	19.5	33.9	30.3	21.9	26.8	36.0	15.0	26.1
107	Nine Canyon Wind 1	9.32	17.4	13.1	15.4	11.2	12.2	12.3	9.81	17.0	15.2	11.0	13.4	18.1	7.52	13.1
108	Nine Canyon Wind 2	3.01	5.62	4.21	4.98	3.61	3.95	3.98	3.17	5.50	4.91	3.54	4.34	5.83	2.43	4.22
109	Nine Canyon Wind 3	6.24	11.7	8.74	10.3	7.48	8.19	8.26	6.57	11.4	10.2	7.35	9.00	12.1	5.04	8.75
110	Notch Butte Wind	3.62	5.87	5.59	4.92	4.27	3.71	2.53	2.75	4.41	6.47	4.82	5.38	7.05	5.80	4.74
111	Oregon Trail Wind	2.72	4.40	4.19	3.69	3.20	2.78	1.90	2.06	3.31	4.85	3.61	4.04	5.29	4.35	3.56
112	Palouse Wind	21.0	34.1	32.4	28.5	24.8	21.5	14.7	16.0	25.6	37.5	27.9	31.2	40.9	33.7	27.5
113	PaTu Wind	1.81	2.94	2.80	2.46	2.14	1.86	1.26	1.38	2.20	3.23	2.41	2.69	3.53	2.90	2.37
114	Paynes Ferry Wind Park	4.23	6.85	6.52	5.74	4.98	4.33	2.95	3.21	5.14	7.54	5.62	6.28	8.23	6.77	5.53
115	Pebble Springs Wind	19.9	32.2	30.7	27.0	23.4	20.4	13.9	15.1	24.2	35.5	26.4	29.5	38.7	31.8	26.0
116	Pepsi-Cola Eugene Solar	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
117	Pilgrim Stage Station Wind Park	2.11	3.43	3.26	2.87	2.49	2.17	1.47	1.60	2.57	3.77	2.81	3.14	4.11	3.39	2.77

Table A-11: Regional: Renewable Resources

Operating Year 2018

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
118	Pine Products Biomass	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
119	Portland Waste Water	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40
120	Power County Wind	9.05	14.7	14.0	12.3	10.7	9.28	6.32	6.88	11.0	16.2	12.0	13.5	17.6	14.5	11.9
121	Puyallup Energy Recovery	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
122	Qualco Dairy Digester	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
123	Raft River Geothermal	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
124	Raft River Geothermal 1	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
125	Raft River Geothermal 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
126	Raft River Geothermal 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
127	Rattlesnake Road Wind Farm	20.7	33.6	32.0	28.1	24.4	21.2	14.5	15.7	25.2	37.0	27.5	30.8	40.3	33.2	27.1
128	River Bend Landfill	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30
129	Rock Creek Digester	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
130	Rock River Wind	10.1	16.3	15.5	13.7	11.9	10.3	7.02	7.64	12.2	18.0	13.4	15.0	19.6	16.1	13.2
131	Rockland wind	15.9	25.8	24.6	21.7	18.8	16.3	11.1	12.1	19.4	28.5	21.2	23.7	31.0	25.5	20.9
132	Rogerson Flats	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
133	Ryegrass Wind	4.63	7.50	7.15	6.29	5.46	4.74	3.23	3.51	5.63	8.26	6.16	6.88	9.01	7.42	6.06
134	Salmon Creek Wind	4.02	6.53	6.21	5.47	4.74	4.13	2.81	3.06	4.90	7.18	5.35	5.98	7.83	6.45	5.27
135	Salmon Falls	4.23	6.85	6.52	5.74	4.98	4.33	2.95	3.21	5.14	7.54	5.62	6.28	8.23	6.77	5.53
136	Sawtooth	4.51	7.31	6.96	6.12	5.31	4.62	3.15	3.42	5.49	8.05	5.99	6.70	8.77	7.22	5.90
137	Shepherds Flat	170	276	263	231	200	174	119	129	207	304	226	253	331	273	223
138	Shepherds Flat - Central	58.4	94.6	90.1	79.3	68.8	59.8	40.7	44.3	71.0	104	77.6	86.7	114	93.5	76.4
139	Shepherds Flat - North	53.3	86.5	82.3	72.5	62.9	54.7	37.2	40.5	64.9	95.2	70.9	79.2	104	85.5	69.8
140	Shepherds Flat - South	58.4	94.6	90.1	79.3	68.8	59.8	40.7	44.3	71.0	104	77.6	86.7	114	93.5	76.4
141	Short Mountain	2.05	2.05	1.88	1.87	1.84	1.95	1.91	1.96	1.99	2.03	2.03	2.06	2.03	1.97	1.96
142	Star Point Wind	19.9	32.2	30.7	27.0	23.4	20.4	13.9	15.1	24.2	35.5	26.4	29.5	38.7	31.8	26.0
143	Stateline	52.7	114	74.2	75.5	48.3	58.4	39.9	25.4	96.9	89.2	61.8	80.1	118	48.4	69.0
144	Stateline-OR	29.1	62.9	41.0	41.7	26.7	32.3	22.0	14.0	53.5	49.3	34.2	44.2	65.1	26.8	38.1
145	Stateline-WA	23.6	51.0	33.2	33.8	21.6	26.1	17.9	11.4	43.3	39.9	27.7	35.8	52.7	21.7	30.9
146	Stoltze Biomass	2.80	2.80	2.80	2.70	2.20	2.20	2.20	2.20	2.20	2.00	2.00	2.40	2.80	2.80	2.44
147	Swager Digester	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
148	Swauk Wind	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39
149	Thousand Springs Wind Park	2.41	3.92	3.73	3.28	2.85	2.48	1.69	1.83	2.94	4.31	3.21	3.59	4.70	3.87	3.16
150	Threemile Canyon Wind	1.99	3.23	3.08	2.71	2.35	2.04	1.39	1.51	2.42	3.56	2.65	2.96	3.88	3.19	2.61
151	Treasure Valley Digester	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
152	Tuana Gulch Wind	2.11	3.43	3.26	2.87	2.49	2.17	1.47	1.60	2.57	3.77	2.81	3.14	4.11	3.39	2.77
153	Tuana Springs Wind	3.38	5.48	5.22	4.59	3.99	3.47	2.36	2.57	4.11	6.03	4.50	5.02	6.58	5.42	4.43
154	Two Ponds Wind	4.63	7.50	7.15	6.29	5.46	4.74	3.23	3.51	5.63	8.26	6.16	6.88	9.01	7.42	6.06
155	Van Dyk's Holsteins	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38
156	Vander Haak Dairy	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
157	Vansycle	25.4	44.5	39.8	36.8	30.8	29.9	20.7	20.0	34.9	44.6	32.7	36.8	49.1	38.6	34.3
158	Vansycle 1	5.54	12.2	9.09	9.73	7.36	9.51	6.78	4.92	10.7	9.04	6.27	7.22	10.4	6.72	8.27
159	Vansycle 2	19.9	32.3	30.7	27.0	23.5	20.4	13.9	15.1	24.2	35.5	26.5	29.6	38.7	31.9	26.1
160	Vantage Wind	18.1	29.4	28.0	24.6	21.4	18.6	12.6	13.8	22.0	32.3	24.1	26.9	35.3	29.0	23.7
161	Wheat Field	19.4	31.5	30.0	26.4	22.9	19.9	13.6	14.8	23.7	34.7	25.9	28.9	37.8	31.2	25.5
162	White Bluffs Solar	0.02	0.02	0.01	0	0	0	0	0	0.01	0.01	0.01	0.01	0.01	0.01	0.01
163	White Creek	40.6	65.8	62.6	55.1	47.8	41.6	28.3	30.8	49.4	72.4	54.0	60.3	79.0	65.0	53.1
164	Wild Horse	54.9	89.0	84.8	74.6	64.8	56.3	38.4	41.8	66.9	98.0	73.1	81.6	107	88.0	71.9
165	Wild Horse Solar 1	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
166	Wild Horse Wind 1	46.0	74.6	71.0	62.5	54.2	47.2	32.1	34.9	56.0	82.1	61.2	68.3	89.5	73.7	60.2
167	Wild Horse Wind 2	8.85	14.4	13.7	12.0	10.4	9.08	6.18	6.72	10.8	15.8	11.8	13.2	17.2	14.2	11.6
168	Willow Creek	14.5	23.5	22.4	19.7	17.1	14.9	10.1	11.0	17.6	25.9	19.3	21.5	28.2	23.2	19.0
169	Windy Point Wind	80.2	130	124	109	94.6	82.3	56.0	61.0	97.7	143	107	119	156	129	105
170	Windy Point 1	27.5	44.6	42.4	37.3	32.4	28.2	19.2	20.9	33.5	49.1	36.6	40.8	53.5	44.1	36.0
171	Windy Point 2	40.7	66.0	62.9	55.3	48.0	41.8	28.4	30.9	49.6	72.7	54.2	60.5	79.3	65.3	53.3
172	Windy Point 2 - Phase 2	12.0	19.5	18.6	16.4	14.2	12.3	8.40	9.14	14.6	21.5	16.0	17.9	23.4	19.3	15.8
173	Wolverine Creek	13.0	21.0	20.0	17.6	15.3	13.3	9.06	9.86	15.8	23.2	17.3	19.3	25.3	20.8	17.0
174	Yahoo Creek Wind	4.23	6.85	6.52	5.74	4.98	4.33	2.95	3.21	5.14	7.54	5.62	6.28	8.23	6.77	5.53
175	Yamhill Solar	0.30	0.30	0.30	0.20	0.10	0.10	0.10	0.10	0.20	0.30	0.30	0.30	0.30	0.40	0.23

Table A-11: Regional: Renewable Resources

Operating Year 2018

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Total Renewable Resources															
176	Cooperative	20.9	27.9	27.0	24.7	22.2	20.2	16.9	17.6	22.8	29.0	23.9	26.0	31.6	27.6	24.0
177	Federal Entities	51.9	89.1	71.2	62.4	46.3	51.1	34.2	30.0	69.0	74.2	57.0	68.1	91.1	61.6	60.3
178	Investor Owned Utilities	1080	1664	1580	1381	1200	1064	765	817	1255	1771	1357	1503	1909	1629	1339
179	Marketer	97.4	161	150	133	113	100	68.3	72.2	122	173	129	145	191	152	128
180	Municipality	277	436	389	357	296	274	195	197	330	442	339	389	500	391	339
181	Other	9.05	14.7	14.0	12.3	10.7	9.28	6.32	6.88	11.0	16.2	12.0	13.5	17.6	14.5	11.9
182	Public Utility District	129	206	190	176	150	137	105	106	165	218	164	185	240	184	167
183	**Total**	**1664**	**2599**	**2420**	**2146**	**1838**	**1656**	**1191**	**1246**	**1975**	**2724**	**2082**	**2328**	**2980**	**2460**	**2069**

Table A-11: Regional: Renewable Resources

Operating Year 2019

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Renewable Resources															
1	3 Bar G Wind	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
2	Ashland Solar Project	0.01	0.01	0.01	0.01	0	0	0	0	0.01	0.01	0.01	0.01	0.01	0.01	0.01
3	City Council	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	N. Mountain Park	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	Police Station	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	Public Works	0.01	0.01	0.01	0	0	0	0	0	0	0.01	0.01	0.01	0.01	0.01	0
7	Bellevue Solar (Amity, OR)	0.20	0.20	0.20	0.10	0.10	0.10	0.10	0.10	0.10	0.20	0.20	0.20	0.20	0.20	0.15
8	Bennett Creek Wind	4.23	6.85	6.52	5.74	4.98	4.33	2.95	3.21	5.14	7.54	5.62	6.28	8.23	6.77	5.53
9	Bettencourt B6 anaerobic digest	0.46	0.97	0.97	0.97	0.97	1.21	1.25	1.21	0.02	0.18	0.16	0.23	0.23	0.41	0.69
10	Big Horn Wind	50.2	81.4	77.5	68.2	59.2	51.5	35.0	38.1	61.1	89.6	66.8	74.6	97.7	80.5	65.7
11	Big Horn 1	40.1	65.1	62.0	54.5	47.3	41.2	28.0	30.5	48.9	71.7	53.4	59.6	78.1	64.3	52.6
12	Big Horn 2	10.1	16.3	15.5	13.7	11.9	10.3	7.02	7.64	12.2	18.0	13.4	15.0	19.6	16.1	13.2
13	Big Sky Dairy	1.05	1.05	1.08	1.05	1.13	1.11	1.01	0.96	1.06	1.05	1.05	1.07	1.13	1.03	1.06
14	Biglow Canyon Wind	90.5	147	140	123	107	92.8	63.2	68.7	110	162	120	134	176	145	119
15	Biglow Canyon 1	25.2	40.9	39.0	34.3	29.8	25.9	17.6	19.2	30.7	45.0	33.6	37.5	49.1	40.4	33.0
16	Biglow Canyon 2	30.1	48.8	46.5	40.9	35.5	30.8	21.0	22.9	36.6	53.7	40.0	44.7	58.6	48.2	39.4
17	Biglow Canyon 3	35.2	57.0	54.3	47.8	41.5	36.1	24.6	26.7	42.8	62.8	46.8	52.3	68.5	56.4	46.1
18	Burley Butte Wind	3.92	6.36	6.06	5.33	4.63	4.02	2.74	2.98	4.77	7.00	5.22	5.83	7.64	6.29	5.14
19	Camp Reed	4.53	7.34	6.99	6.15	5.34	4.64	3.16	3.44	5.51	8.08	6.02	6.73	8.81	7.26	5.93
20	Cassia Farms Wind	2.11	3.43	3.26	2.87	2.49	2.17	1.47	1.60	2.57	3.77	2.81	3.14	4.11	3.39	2.77
21	Cassia Gulch Wind	3.80	6.17	5.87	5.17	4.48	3.90	2.65	2.89	4.63	6.79	5.06	5.65	7.40	6.10	4.98
22	Coffin Butte	5.27	5.27	5.32	5.38	5.46	5.11	5.51	5.44	5.55	5.42	5.42	5.37	5.33	5.17	5.36
23	Coffin Butte 1	2.37	2.37	2.43	2.40	2.43	2.42	2.39	2.39	2.40	2.27	2.27	2.35	2.34	2.33	2.38
24	Coffin Butte 2	2.90	2.90	2.89	2.98	3.03	2.69	3.12	3.05	3.15	3.15	3.15	3.02	2.99	2.84	2.98
25	Cold Springs	4.63	7.50	7.15	6.29	5.46	4.74	3.23	3.51	5.63	8.26	6.16	6.88	9.01	7.42	6.06
26	Columbia Ridge Landfill	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6
27	Combine Hills	20.9	33.9	32.3	28.4	24.7	21.5	14.6	15.9	25.5	37.4	27.8	31.1	40.7	33.5	27.4
28	Combine Hills 2	12.7	20.6	19.6	17.2	15.0	13.0	8.85	9.63	15.4	22.6	16.9	18.8	24.7	20.3	16.6
29	Combine Hills I	8.25	13.4	12.7	11.2	9.73	8.46	5.76	6.27	10.0	14.7	11.0	12.3	16.1	13.2	10.8
30	Condon	5.92	11.5	9.57	10.9	9.77	13.8	7.23	7.13	13.0	10.7	8.60	8.69	10.3	6.85	9.65
31	Cottonwood Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	Deep Creek Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	DeRuyter & Son's Dairy	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20
34	Desert Meadow Windfarm	4.63	7.50	7.15	6.29	5.46	4.74	3.23	3.51	5.63	8.26	6.16	6.88	9.01	7.42	6.06
35	Double A Digester	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
36	Double B Digester	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
37	Dry Creek Landfill	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25
38	Dry Dairy Creek	1.38	1.39	1.36	1.36	1.33	1.26	1.17	1.40	1.39	1.30	0.96	1.15	1.15	1.10	1.26
39	Echo Wind Farm	13.0	21.1	20.1	17.7	15.3	13.3	9.07	9.87	15.8	23.2	17.3	19.3	25.3	20.8	17.0
40	Echo Wind 1	8.96	14.5	13.8	12.2	10.6	9.19	6.26	6.81	10.9	16.0	11.9	13.3	17.5	14.4	11.7
41	Echo Wind 2	4.02	6.53	6.21	5.47	4.74	4.13	2.81	3.06	4.90	7.18	5.35	5.98	7.83	6.45	5.27
42	Edaleen Cow Power	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63
43	Elkhorn Valley Wind Project	20.3	32.8	31.3	27.5	23.9	20.8	14.1	15.4	24.7	36.2	26.9	30.1	39.4	32.5	26.5
44	Farm Power Lynden	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
45	Farm Power Misty Meadow	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
46	Farm Power Rexville	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
47	Farm Power Tillamook	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
48	Fighting Creek Landfill	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60
49	Finley BioEnergy	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88
50	Flathead County Landfill	1.48	1.48	1.43	0.87	1.34	1.35	1.34	1.33	1.35	1.41	1.41	1.41	1.50	1.48	1.36
51	Foote Creek 1	8.33	13.5	12.9	11.3	9.82	8.54	5.82	6.33	10.1	14.9	11.1	12.4	16.2	13.4	10.9
52	Foote Creek 2	0.36	0.59	0.56	0.49	0.43	0.37	0.25	0.28	0.44	0.65	0.48	0.54	0.71	0.58	0.48
53	Foote Creek 4	3.38	5.48	5.22	4.59	3.99	3.47	2.36	2.57	4.11	6.03	4.50	5.02	6.58	5.42	4.43
54	Fossil Gulch Wind Project	2.11	3.43	3.26	2.87	2.49	2.17	1.47	1.60	2.57	3.77	2.81	3.14	4.11	3.39	2.77
55	Fourmile Hill Geothermal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
56	Golden Valley Wind	2.41	3.92	3.73	3.28	2.85	2.48	1.69	1.83	2.94	4.31	3.21	3.59	4.70	3.87	3.16
57	Goodnoe Hills	18.9	30.7	29.2	25.7	22.3	19.4	13.2	14.4	23.0	33.8	25.2	28.1	36.8	30.3	24.8
58	Goshen North (Ridgeline)	25.1	40.6	38.7	34.0	29.5	25.7	17.5	19.0	30.5	44.7	33.3	37.2	48.8	40.2	32.8

Table A-11: Regional: Renewable Resources

Operating Year 2019

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
59	Grandview Solar One	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00
60	Grayland	1.21	1.96	1.86	1.64	1.42	1.24	0.84	0.92	1.47	2.16	1.61	1.79	2.35	1.93	1.58
61	H.W. Hill Landfill Gas (Roosevelt	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00
62	HW Hill Landfill Gas 1	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30
63	HW Hill Landfill Gas 2	5.70	5.70	5.70	5.70	5.70	5.70	5.70	5.70	5.70	5.70	5.70	5.70	5.70	5.70	5.70
64	Hammett Hill	4.63	7.50	7.15	6.29	5.46	4.74	3.23	3.51	5.63	8.26	6.16	6.88	9.01	7.42	6.06
65	Harvest	19.9	32.3	30.7	27.0	23.5	20.4	13.9	15.1	24.2	35.5	26.5	29.6	38.7	31.9	26.1
66	Hay Canyon Wind	20.3	32.9	31.3	27.6	23.9	20.8	14.2	15.4	24.7	36.2	27.0	30.1	39.5	32.5	26.6
67	Healow 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68	Hidden Hollow Landfill	2.17	2.17	2.33	2.40	2.60	2.53	2.22	2.39	2.34	2.47	2.47	2.22	2.35	2.04	2.34
69	High Mesa Wind	8.03	13.0	12.4	10.9	9.47	8.23	5.60	6.10	9.77	14.3	10.7	11.9	15.6	12.9	10.5
70	Hopkins Ridge	31.5	51.1	48.7	42.8	37.2	32.3	22.0	23.9	38.3	56.3	41.9	46.8	61.3	50.5	41.3
71	Hopkins Ridge 2	1.45	2.35	2.24	1.97	1.71	1.49	1.01	1.10	1.76	2.59	1.93	2.15	2.82	2.32	1.90
72	Hopkins Ridge I	30.1	48.7	46.4	40.8	35.4	30.8	21.0	22.8	36.6	53.7	40.0	44.7	58.5	48.2	39.4
73	Horse Butte Wind	22.6	18.6	11.6	18.8	11.6	15.8	13.7	11.9	8.09	8.80	14.1	20.7	15.4	17.2	14.8
74	Horseshoe Bend Wind Project	1.81	2.94	2.80	2.46	2.14	1.86	1.26	1.38	2.20	3.23	2.41	2.69	3.53	2.90	2.37
75	Hot Springs Wind	3.98	6.46	6.15	5.41	4.70	4.08	2.78	3.03	4.85	7.11	5.30	5.92	7.76	6.39	5.22
76	Industrial Finishes	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
77	Josef Staufer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78	Juniper Canyon	30.4	49.3	47.0	41.3	35.9	31.2	21.2	23.1	37.0	54.3	40.5	45.2	59.2	48.8	39.8
79	Kettle Falls (biomass)	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	34.7	23.1	46.3	43.4
80	King Estate Solar	0.20	0.20	0.17	0.12	0.06	0.04	0.06	0.08	0.12	0.15	0.15	0.19	0.19	0.21	0.13
81	Kittitas Valley Wind	20.3	32.9	31.3	27.6	23.9	20.8	14.2	15.4	24.7	36.2	27.0	30.1	39.5	32.5	26.6
82	Klondike 1	7.55	10.5	9.35	6.35	4.54	4.14	3.30	3.26	6.06	7.95	6.74	8.19	10.4	9.47	6.81
83	Klondike 2	23.6	32.7	29.2	19.8	14.2	13.0	10.3	10.2	19.0	24.9	21.1	25.6	32.6	29.6	21.3
84	Klondike 3	70.4	97.7	87.2	59.2	42.4	38.6	30.8	30.5	56.5	74.2	62.9	76.3	97.1	88.3	63.5
85	Klondike 3a	24.1	33.4	29.8	20.2	14.5	13.2	10.5	10.4	19.3	25.4	21.5	26.1	33.2	30.2	21.7
86	Knudson Wind	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
87	Lava Beds Wind	3.62	5.87	5.59	4.92	4.27	3.71	2.53	2.75	4.41	6.47	4.82	5.38	7.05	5.80	4.74
88	Leaning Juniper	60.7	98.5	93.8	82.5	71.6	62.3	42.4	46.1	73.9	108	80.8	90.2	118	97.3	79.5
89	Leaning Juniper 1	20.2	32.8	31.2	27.5	23.8	20.7	14.1	15.4	24.6	36.1	26.9	30.1	39.4	32.4	26.5
90	Leaning Juniper 2a	18.2	29.5	28.1	24.7	21.4	18.6	12.7	13.8	22.1	32.4	24.2	27.0	35.4	29.1	23.8
91	Leaning Juniper 2b	22.3	36.2	34.5	30.3	26.3	22.9	15.6	17.0	27.2	39.9	29.7	33.2	43.5	35.8	29.3
92	Lewandowski Farms	0.11	0.10	0.08	0.08	0.08	0.07	0.08	0.06	0.11	0.12	0.12	0.11	0.13	0.10	0.09
93	Lime Wind	0.60	0.98	0.93	0.82	0.71	0.62	0.42	0.46	0.73	1.08	0.80	0.90	1.18	0.97	0.79
94	Linden Ranch	10.1	16.3	15.5	13.7	11.9	10.3	7.02	7.64	12.2	18.0	13.4	15.0	19.6	16.1	13.2
95	Livingston	0.01	0	0.01	0.01	0.01	0.01	0.01	0	0.01	0.01	0.01	0.01	0.01	0	0.01
96	Lower Snake Wind	123	199	189	167	145	126	85.6	93.2	149	219	163	182	239	197	161
97	Lower Snake Wind 1	69.0	112	106	93.7	81.3	70.7	48.1	52.4	83.9	123	91.7	102	134	111	90.3
98	Lower Snake Wind 2	53.7	87.1	83.0	73.0	63.3	55.1	37.5	40.8	65.4	95.9	71.5	79.8	105	86.1	70.4
99	Mainline Wind	4.63	7.50	7.15	6.29	5.46	4.74	3.23	3.51	5.63	8.26	6.16	6.88	9.01	7.42	6.06
100	Marengo Wind	42.4	68.7	65.4	57.6	50.0	43.4	29.6	32.2	51.6	75.7	56.4	63.0	82.5	67.9	55.5
101	Marengo Wind 1	28.3	45.8	43.6	38.4	33.3	29.0	19.7	21.5	34.4	50.4	37.6	42.0	55.0	45.3	37.0
102	Marengo Wind 2	14.1	22.9	21.8	19.2	16.7	14.5	9.86	10.7	17.2	25.2	18.8	21.0	27.5	22.6	18.5
103	Meadow Creek Wind	16.1	26.0	24.8	21.8	18.9	16.5	11.2	12.2	19.5	28.7	21.4	23.9	31.3	25.7	21.0
104	Milner Dam Wind Farm	3.92	6.36	6.06	5.33	4.63	4.02	2.74	2.98	4.77	7.00	5.22	5.83	7.64	6.29	5.14
105	Neal Hot Springs	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0
106	Nine Canyon Wind	18.6	34.7	26.0	30.7	22.3	24.4	24.6	19.5	33.9	30.3	21.9	26.8	36.0	15.0	26.1
107	Nine Canyon Wind 1	9.32	17.4	13.1	15.4	11.2	12.2	12.3	9.81	17.0	15.2	11.0	13.4	18.1	7.52	13.1
108	Nine Canyon Wind 2	3.01	5.62	4.21	4.98	3.61	3.95	3.98	3.17	5.50	4.91	3.54	4.34	5.83	2.43	4.22
109	Nine Canyon Wind 3	6.24	11.7	8.74	10.3	7.48	8.19	8.26	6.57	11.4	10.2	7.35	9.00	12.1	5.04	8.75
110	Notch Butte Wind	3.62	5.87	5.59	4.92	4.27	3.71	2.53	2.75	4.41	6.47	4.82	5.38	7.05	5.80	4.74
111	Oregon Trail Wind	2.72	4.40	4.19	3.69	3.20	2.78	1.90	2.06	3.31	4.85	3.61	4.04	5.29	4.35	3.56
112	Palouse Wind	21.0	34.1	32.4	28.5	24.8	21.5	14.7	16.0	25.6	37.5	27.9	31.2	40.9	33.7	27.5
113	PaTu Wind	1.81	2.94	2.80	2.46	2.14	1.86	1.26	1.38	2.20	3.23	2.41	2.69	3.53	2.90	2.37
114	Paynes Ferry Wind Park	4.23	6.85	6.52	5.74	4.98	4.33	2.95	3.21	5.14	7.54	5.62	6.28	8.23	6.77	5.53
115	Pebble Springs Wind	19.9	32.2	30.7	27.0	23.4	20.4	13.9	15.1	24.2	35.5	26.4	29.5	38.7	31.8	26.0
116	Pepsi-Cola Eugene Solar	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
117	Pilgrim Stage Station Wind Park	2.11	3.43	3.26	2.87	2.49	2.17	1.47	1.60	2.57	3.77	2.81	3.14	4.11	3.39	2.77

Table A-11: Regional: Renewable Resources

Operating Year 2019

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
118	Pine Products Biomass	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
119	Portland Waste Water	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40
120	Power County Wind	9.05	14.7	14.0	12.3	10.7	9.28	6.32	6.88	11.0	16.2	12.0	13.5	17.6	14.5	11.9
121	Puyallup Energy Recovery	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
122	Qualco Dairy Digester	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
123	Raft River Geothermal	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
124	Raft River Geothermal 1	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
125	Raft River Geothermal 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
126	Raft River Geothermal 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
127	Rattlesnake Road Wind Farm	20.7	33.6	32.0	28.1	24.4	21.2	14.5	15.7	25.2	37.0	27.5	30.8	40.3	33.2	27.1
128	River Bend Landfill	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30
129	Rock Creek Digester	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
130	Rock River Wind	10.1	16.3	15.5	13.7	11.9	10.3	7.02	7.64	12.2	18.0	13.4	15.0	19.6	16.1	13.2
131	Rockland wind	15.9	25.8	24.6	21.7	18.8	16.3	11.1	12.1	19.4	28.5	21.2	23.7	31.0	25.5	20.9
132	Rogerson Flats	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
133	Ryegrass Wind	4.63	7.50	7.15	6.29	5.46	4.74	3.23	3.51	5.63	8.26	6.16	6.88	9.01	7.42	6.06
134	Salmon Creek Wind	4.02	6.53	6.21	5.47	4.74	4.13	2.81	3.06	4.90	7.18	5.35	5.98	7.83	6.45	5.27
135	Salmon Falls	4.23	6.85	6.52	5.74	4.98	4.33	2.95	3.21	5.14	7.54	5.62	6.28	8.23	6.77	5.53
136	Sawtooth	4.51	7.31	6.96	6.12	5.31	4.62	3.15	3.42	5.49	8.05	5.99	6.70	8.77	7.22	5.90
137	Shepherds Flat	170	276	263	231	200	174	119	129	207	304	226	253	331	273	223
138	Shepherds Flat - Central	58.4	94.6	90.1	79.3	68.8	59.8	40.7	44.3	71.0	104	77.6	86.7	114	93.5	76.4
139	Shepherds Flat - North	53.3	86.5	82.3	72.5	62.9	54.7	37.2	40.5	64.9	95.2	70.9	79.2	104	85.5	69.8
140	Shepherds Flat - South	58.4	94.6	90.1	79.3	68.8	59.8	40.7	44.3	71.0	104	77.6	86.7	114	93.5	76.4
141	Short Mountain	2.05	2.05	1.88	1.87	1.84	1.95	1.91	1.96	1.99	2.03	2.03	2.06	2.03	1.97	1.96
142	Star Point Wind	19.9	32.2	30.7	27.0	23.4	20.4	13.9	15.1	24.2	35.5	26.4	29.5	38.7	31.8	26.0
143	Stateline	52.7	114	74.2	75.5	48.3	58.4	39.9	25.4	96.9	89.2	61.8	80.1	118	48.4	69.0
144	Stateline-OR	29.1	62.9	41.0	41.7	26.7	32.3	22.0	14.0	53.5	49.3	34.2	44.2	65.1	26.8	38.1
145	Stateline-WA	23.6	51.0	33.2	33.8	21.6	26.1	17.9	11.4	43.3	39.9	27.7	35.8	52.7	21.7	30.9
146	Stoltze Biomass	2.80	2.80	2.80	2.70	2.20	2.20	2.20	2.20	2.20	2.30	2.30	2.80	2.80	2.80	2.50
147	Swager Digester	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
148	Swauk Wind	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39
149	Thousand Springs Wind Park	2.41	3.92	3.73	3.28	2.85	2.48	1.69	1.83	2.94	4.31	3.21	3.59	4.70	3.87	3.16
150	Threemile Canyon Wind	1.99	3.23	3.08	2.71	2.35	2.04	1.39	1.51	2.42	3.56	2.65	2.96	3.88	3.19	2.61
151	Treasure Valley Digester	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
152	Tuana Gulch Wind	2.11	3.43	3.26	2.87	2.49	2.17	1.47	1.60	2.57	3.77	2.81	3.14	4.11	3.39	2.77
153	Tuana Springs Wind	3.38	5.48	5.22	4.59	3.99	3.47	2.36	2.57	4.11	6.03	4.50	5.02	6.58	5.42	4.43
154	Two Ponds Wind	4.63	7.50	7.15	6.29	5.46	4.74	3.23	3.51	5.63	8.26	6.16	6.88	9.01	7.42	6.06
155	Van Dyk's Holsteins	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38
156	Vander Haak Dairy	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
157	Vansycle	25.4	44.5	39.8	36.8	30.8	29.9	20.7	20.0	34.9	44.6	32.7	36.8	49.1	38.6	34.3
158	Vansycle 1	5.54	12.2	9.09	9.73	7.36	9.51	6.78	4.92	10.7	9.04	6.27	7.22	10.4	6.72	8.27
159	Vansycle 2	19.9	32.3	30.7	27.0	23.5	20.4	13.9	15.1	24.2	35.5	26.5	29.6	38.7	31.9	26.1
160	Vantage Wind	18.1	29.4	28.0	24.6	21.4	18.6	12.6	13.8	22.0	32.3	24.1	26.9	35.3	29.0	23.7
161	Wheat Field	19.4	31.5	30.0	26.4	22.9	19.9	13.6	14.8	23.7	34.7	25.9	28.9	37.8	31.2	25.5
162	White Bluffs Solar	0.02	0.02	0.01	0	0	0	0	0	0.01	0.01	0.01	0.01	0.01	0.01	0.01
163	White Creek	40.6	65.8	62.6	55.1	47.8	41.6	28.3	30.8	49.4	72.4	54.0	60.3	79.0	65.0	53.1
164	Wild Horse	54.9	89.0	84.8	74.6	64.8	56.3	38.4	41.8	66.9	98.0	73.1	81.6	107	88.0	71.9
165	Wild Horse Solar 1	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
166	Wild Horse Wind 1	46.0	74.6	71.0	62.5	54.2	47.2	32.1	34.9	56.0	82.1	61.2	68.3	89.5	73.7	60.2
167	Wild Horse Wind 2	8.85	14.4	13.7	12.0	10.4	9.08	6.18	6.72	10.8	15.8	11.8	13.2	17.2	14.2	11.6
168	Willow Creek	14.5	23.5	22.4	19.7	17.1	14.9	10.1	11.0	17.6	25.9	19.3	21.5	28.2	23.2	19.0
169	Windy Point Wind	80.2	130	124	109	94.6	82.3	56.0	61.0	97.7	143	107	119	156	129	105
170	Windy Point 1	27.5	44.6	42.4	37.3	32.4	28.2	19.2	20.9	33.5	49.1	36.6	40.8	53.5	44.1	36.0
171	Windy Point 2	40.7	66.0	62.9	55.3	48.0	41.8	28.4	30.9	49.6	72.7	54.2	60.5	79.3	65.3	53.3
172	Windy Point 2 - Phase 2	12.0	19.5	18.6	16.4	14.2	12.3	8.40	9.14	14.6	21.5	16.0	17.9	23.4	19.3	15.8
173	Wolverine Creek	13.0	21.0	20.0	17.6	15.3	13.3	9.06	9.86	15.8	23.2	17.3	19.3	25.3	20.8	17.0
174	Yahoo Creek Wind	4.23	6.85	6.52	5.74	4.98	4.33	2.95	3.21	5.14	7.54	5.62	6.28	8.23	6.77	5.53
175	Yamhill Solar	0.30	0.30	0.30	0.20	0.10	0.10	0.10	0.10	0.20	0.30	0.30	0.30	0.30	0.40	0.23

Table A-11: Regional: Renewable Resources

Operating Year 2019

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Total Renewable Resources															
176	Cooperative	20.9	27.9	27.0	24.3	22.2	20.2	16.9	17.5	22.8	29.3	24.2	26.4	31.6	27.6	24.0
177	Federal Entities	51.9	89.1	71.2	62.4	46.3	51.1	34.2	30.0	69.0	74.2	57.0	68.1	91.1	61.6	60.3
178	Investor Owned Utilities	1080	1664	1580	1381	1200	1064	765	817	1255	1771	1357	1500	1921	1629	1340
179	Marketer	97.4	161	150	133	113	100	68.3	72.2	122	173	129	145	191	152	128
180	Municipality	277	436	389	357	296	274	195	197	330	442	339	389	500	391	339
181	Other	9.05	14.7	14.0	12.3	10.7	9.28	6.32	6.88	11.0	16.2	12.0	13.5	17.6	14.5	11.9
182	Public Utility District	129	206	190	176	150	137	105	106	165	218	164	185	240	184	167
183	**Total**	**1664**	**2599**	**2420**	**2146**	**1838**	**1656**	**1191**	**1246**	**1975**	**2724**	**2082**	**2327**	**2992**	**2460**	**2070**

Table A-11: Regional: Renewable Resources

Operating Year 2020

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Renewable Resources															
1	3 Bar G Wind	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
2	Ashland Solar Project	0.01	0.01	0.01	0.01	0	0	0	0	0.01	0.01	0.01	0.01	0.01	0.01	0.01
3	City Council	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	N. Mountain Park	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	Police Station	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	Public Works	0.01	0.01	0.01	0	0	0	0	0	0	0.01	0.01	0.01	0.01	0.01	0
7	Bellevue Solar (Amity, OR)	0.20	0.20	0.20	0.10	0.10	0.10	0.10	0.10	0.10	0.20	0.20	0.20	0.20	0.20	0.15
8	Bennett Creek Wind	4.23	6.85	6.52	5.74	4.98	4.33	2.95	3.21	5.14	7.54	5.62	6.28	8.23	6.77	5.53
9	Bettencourt B6 anaerobic digest	0.46	0.97	0.97	0.97	0.97	1.21	1.25	1.21	0.02	0.18	0.16	0.23	0.23	0.41	0.69
10	Big Horn Wind	50.2	81.4	77.5	68.2	59.2	51.5	35.0	38.1	61.1	89.6	66.8	74.6	97.7	80.5	65.7
11	Big Horn 1	40.1	65.1	62.0	54.5	47.3	41.2	28.0	30.5	48.9	71.7	53.4	59.6	78.1	64.3	52.5
12	Big Horn 2	10.1	16.3	15.5	13.7	11.9	10.3	7.02	7.64	12.2	18.0	13.4	15.0	19.6	16.1	13.2
13	Big Sky Dairy	1.05	1.05	1.08	1.05	1.13	1.11	1.01	0.96	1.06	1.05	1.05	1.07	1.13	1.03	1.06
14	Biglow Canyon Wind	90.5	147	140	123	107	92.8	63.2	68.7	110	162	120	134	176	145	118
15	Biglow Canyon 1	25.2	40.9	39.0	34.3	29.8	25.9	17.6	19.2	30.7	45.0	33.6	37.5	49.1	40.4	33.0
16	Biglow Canyon 2	30.1	48.8	46.5	40.9	35.5	30.8	21.0	22.9	36.6	53.7	40.0	44.7	58.6	48.2	39.4
17	Biglow Canyon 3	35.2	57.0	54.3	47.8	41.5	36.1	24.6	26.7	42.8	62.8	46.8	52.3	68.5	56.4	46.0
18	Burley Butte Wind	3.92	6.36	6.06	5.33	4.63	4.02	2.74	2.98	4.77	7.00	5.22	5.83	7.64	6.29	5.13
19	Camp Reed	4.53	7.34	6.99	6.15	5.34	4.64	3.16	3.44	5.51	8.08	6.02	6.73	8.81	7.26	5.92
20	Cassia Farms Wind	2.11	3.43	3.26	2.87	2.49	2.17	1.47	1.60	2.57	3.77	2.81	3.14	4.11	3.39	2.76
21	Cassia Gulch Wind	3.80	6.17	5.87	5.17	4.48	3.90	2.65	2.89	4.63	6.79	5.06	5.65	7.40	6.10	4.98
22	Coffin Butte	5.27	5.27	5.32	5.38	5.46	5.11	5.51	5.44	5.55	5.42	5.42	5.37	5.33	5.17	5.36
23	Coffin Butte 1	2.37	2.37	2.43	2.40	2.43	2.42	2.39	2.39	2.40	2.27	2.27	2.35	2.34	2.33	2.38
24	Coffin Butte 2	2.90	2.90	2.89	2.98	3.03	2.69	3.12	3.05	3.15	3.15	3.15	3.02	2.99	2.84	2.98
25	Cold Springs	4.63	7.50	7.15	6.29	5.46	4.74	3.23	3.51	5.63	8.26	6.16	6.88	9.01	7.42	6.05
26	Columbia Ridge Landfill	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6
27	Combine Hills	20.9	33.9	32.3	28.4	24.7	21.5	14.6	15.9	25.5	37.4	27.8	31.1	40.7	33.5	27.4
28	Combine Hills 2	12.7	20.6	19.6	17.2	15.0	13.0	8.85	9.63	15.4	22.6	16.9	18.8	24.7	20.3	16.6
29	Combine Hills I	8.25	13.4	12.7	11.2	9.73	8.46	5.76	6.27	10.0	14.7	11.0	12.3	16.1	13.2	10.8
30	Condon	5.92	11.5	9.57	10.9	9.77	13.8	7.23	7.13	13.0	10.7	8.60	8.69	10.3	6.85	9.64
31	Cottonwood Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	Deep Creek Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	DeRuyter & Son's Dairy	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20
34	Desert Meadow Windfarm	4.63	7.50	7.15	6.29	5.46	4.74	3.23	3.51	5.63	8.26	6.16	6.88	9.01	7.42	6.05
35	Double A Digester	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
36	Double B Digester	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
37	Dry Creek Landfill	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25
38	Dry Dairy Creek	1.38	1.39	1.36	1.36	1.33	1.26	1.17	1.40	1.39	1.30	0.96	1.15	1.15	1.10	1.26
39	Echo Wind Farm	13.0	21.1	20.1	17.7	15.3	13.3	9.07	9.87	15.8	23.2	17.3	19.3	25.3	20.8	17.0
40	Echo Wind 1	8.96	14.5	13.8	12.2	10.6	9.19	6.26	6.81	10.9	16.0	11.9	13.3	17.5	14.4	11.7
41	Echo Wind 2	4.02	6.53	6.21	5.47	4.74	4.13	2.81	3.06	4.90	7.18	5.35	5.98	7.83	6.45	5.26
42	Edaleen Cow Power	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63
43	Elkhorn Valley Wind Project	20.3	32.8	31.3	27.5	23.9	20.8	14.1	15.4	24.7	36.2	26.9	30.1	39.4	32.5	26.5
44	Farm Power Lynden	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
45	Farm Power Misty Meadow	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
46	Farm Power Rexville	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
47	Farm Power Tillamook	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
48	Fighting Creek Landfill	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60
49	Finley BioEnergy	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88
50	Flathead County Landfill	1.48	1.48	1.48	1.35	1.34	1.34	1.34	1.35	1.34	1.41	1.41	1.43	1.48	1.48	1.40
51	Foote Creek 1	8.33	13.5	12.9	11.3	9.82	8.54	5.82	6.33	10.1	14.9	11.1	12.4	16.2	13.4	10.9
52	Foote Creek 2	0.36	0.59	0.56	0.49	0.43	0.37	0.25	0.28	0.44	0.65	0.48	0.54	0.71	0.58	0.47
53	Foote Creek 4	3.38	5.48	5.22	4.59	3.99	3.47	2.36	2.57	4.11	6.03	4.50	5.02	6.58	5.42	4.42
54	Fossil Gulch Wind Project	2.11	3.43	3.26	2.87	2.49	2.17	1.47	1.60	2.57	3.77	2.81	3.14	4.11	3.39	2.76
55	Fourmile Hill Geothermal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
56	Golden Valley Wind	2.41	3.92	3.73	3.28	2.85	2.48	1.69	1.83	2.94	4.31	3.21	3.59	4.70	3.87	3.16
57	Goodnoe Hills	18.9	30.7	29.2	25.7	22.3	19.4	13.2	14.4	23.0	33.8	25.2	28.1	36.8	30.3	24.7
58	Goshen North (Ridgeline)	25.1	40.6	38.7	34.0	29.5	25.7	17.5	19.0	30.5	44.7	33.3	37.2	48.8	40.2	32.8

Table A-11: Regional: Renewable Resources

Operating Year 2020

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
59	Grandview Solar One	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00
60	Grayland	1.21	1.96	1.86	1.64	1.42	1.24	0.84	0.92	1.47	2.16	1.61	1.79	2.35	1.93	1.58
61	H.W. Hill Landfill Gas (Roosevelt	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00
62	HW Hill Landfill Gas 1	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30
63	HW Hill Landfill Gas 2	5.70	5.70	5.70	5.70	5.70	5.70	5.70	5.70	5.70	5.70	5.70	5.70	5.70	5.70	5.70
64	Hammett Hill	4.63	7.50	7.15	6.29	5.46	4.74	3.23	3.51	5.63	8.26	6.16	6.88	9.01	7.42	6.05
65	Harvest	19.9	32.3	30.7	27.0	23.5	20.4	13.9	15.1	24.2	35.5	26.5	29.6	38.7	31.9	26.0
66	Hay Canyon Wind	20.3	32.9	31.3	27.6	23.9	20.8	14.2	15.4	24.7	36.2	27.0	30.1	39.5	32.5	26.5
67	Healow 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68	Hidden Hollow Landfill	2.17	2.17	2.33	2.40	2.60	2.53	2.22	2.39	2.34	2.47	2.47	2.22	2.35	2.04	2.34
69	High Mesa Wind	8.03	13.0	12.4	10.9	9.47	8.23	5.60	6.10	9.77	14.3	10.7	11.9	15.6	12.9	10.5
70	Hopkins Ridge	31.5	51.1	48.7	42.8	37.2	32.3	22.0	23.9	38.3	56.3	41.9	46.8	61.3	50.5	41.2
71	Hopkins Ridge 2	1.45	2.35	2.24	1.97	1.71	1.49	1.01	1.10	1.76	2.59	1.93	2.15	2.82	2.32	1.90
72	Hopkins Ridge I	30.1	48.7	46.4	40.8	35.4	30.8	21.0	22.8	36.6	53.7	40.0	44.7	58.5	48.2	39.3
73	Horse Butte Wind	22.6	18.6	11.6	18.8	11.6	15.8	13.7	11.9	8.09	8.80	14.1	20.7	15.4	17.2	14.8
74	Horseshoe Bend Wind Project	1.81	2.94	2.80	2.46	2.14	1.86	1.26	1.38	2.20	3.23	2.41	2.69	3.53	2.90	2.37
75	Hot Springs Wind	3.98	6.46	6.15	5.41	4.70	4.08	2.78	3.03	4.85	7.11	5.30	5.92	7.76	6.39	5.21
76	Industrial Finishes	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
77	Josef Staufer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78	Juniper Canyon	30.4	49.3	47.0	41.3	35.9	31.2	21.2	23.1	37.0	54.3	40.5	45.2	59.2	48.8	39.8
79	Kettle Falls (biomass)	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	27.8	46.3	44.7
80	King Estate Solar	0.20	0.20	0.17	0.12	0.06	0.04	0.06	0.08	0.12	0.15	0.15	0.19	0.19	0.21	0.13
81	Kittitas Valley Wind	20.3	32.9	31.3	27.6	23.9	20.8	14.2	15.4	24.7	36.2	27.0	30.1	39.5	32.5	26.5
82	Klondike 1	7.55	10.5	9.35	6.35	4.54	4.14	3.30	3.26	6.06	7.95	6.74	8.19	10.4	9.47	6.80
83	Klondike 2	23.6	32.7	29.2	19.8	14.2	13.0	10.3	10.2	19.0	24.9	21.1	25.6	32.6	29.6	21.2
84	Klondike 3	70.4	97.7	87.2	59.2	42.4	38.6	30.8	30.5	56.5	74.2	62.9	76.3	97.1	88.3	63.4
85	Klondike 3a	24.1	33.4	29.8	20.2	14.5	13.2	10.5	10.4	19.3	25.4	21.5	26.1	33.2	30.2	21.7
86	Knudson Wind	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
87	Lava Beds Wind	3.62	5.87	5.59	4.92	4.27	3.71	2.53	2.75	4.41	6.47	4.82	5.38	7.05	5.80	4.74
88	Leaning Juniper	60.7	98.5	93.8	82.5	71.6	62.3	42.4	46.1	73.9	108	80.8	90.2	118	97.3	79.4
89	Leaning Juniper 1	20.2	32.8	31.2	27.5	23.8	20.7	14.1	15.4	24.6	36.1	26.9	30.1	39.4	32.4	26.5
90	Leaning Juniper 2a	18.2	29.5	28.1	24.7	21.4	18.6	12.7	13.8	22.1	32.4	24.2	27.0	35.4	29.1	23.8
91	Leaning Juniper 2b	22.3	36.2	34.5	30.3	26.3	22.9	15.6	17.0	27.2	39.9	29.7	33.2	43.5	35.8	29.2
92	Lewandowski Farms	0.11	0.10	0.08	0.08	0.08	0.07	0.08	0.06	0.11	0.12	0.12	0.11	0.13	0.10	0.09
93	Lime Wind	0.60	0.98	0.93	0.82	0.71	0.62	0.42	0.46	0.73	1.08	0.80	0.90	1.18	0.97	0.79
94	Linden Ranch	10.1	16.3	15.5	13.7	11.9	10.3	7.02	7.64	12.2	18.0	13.4	15.0	19.6	16.1	13.2
95	Livingston	0.01	0	0.01	0.01	0.01	0.01	0.01	0	0.01	0.01	0.01	0.01	0.01	0	0.01
96	Lower Snake Wind	123	199	189	167	145	126	85.6	93.2	149	219	163	182	239	197	160
97	Lower Snake Wind 1	69.0	112	106	93.7	81.3	70.7	48.1	52.4	83.9	123	91.7	102	134	111	90.2
98	Lower Snake Wind 2	53.7	87.1	83.0	73.0	63.3	55.1	37.5	40.8	65.4	95.9	71.5	79.8	105	86.1	70.3
99	Mainline Wind	4.63	7.50	7.15	6.29	5.46	4.74	3.23	3.51	5.63	8.26	6.16	6.88	9.01	7.42	6.05
100	Marengo Wind	42.4	68.7	65.4	57.6	50.0	43.4	29.6	32.2	51.6	75.7	56.4	63.0	82.5	67.9	55.4
101	Marengo Wind 1	28.3	45.8	43.6	38.4	33.3	29.0	19.7	21.5	34.4	50.4	37.6	42.0	55.0	45.3	37.0
102	Marengo Wind 2	14.1	22.9	21.8	19.2	16.7	14.5	9.86	10.7	17.2	25.2	18.8	21.0	27.5	22.6	18.5
103	Meadow Creek Wind	16.1	26.0	24.8	21.8	18.9	16.5	11.2	12.2	19.5	28.7	21.4	23.9	31.3	25.7	21.0
104	Milner Dam Wind Farm	3.92	6.36	6.06	5.33	4.63	4.02	2.74	2.98	4.77	7.00	5.22	5.83	7.64	6.29	5.13
105	Neal Hot Springs	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0
106	Nine Canyon Wind	18.6	34.7	26.0	30.7	22.3	24.4	24.6	19.5	33.9	30.3	21.9	26.8	36.0	15.0	26.0
107	Nine Canyon Wind 1	9.32	17.4	13.1	15.4	11.2	12.2	12.3	9.81	17.0	15.2	11.0	13.4	18.1	7.52	13.1
108	Nine Canyon Wind 2	3.01	5.62	4.21	4.98	3.61	3.95	3.98	3.17	5.50	4.91	3.54	4.34	5.83	2.43	4.22
109	Nine Canyon Wind 3	6.24	11.7	8.74	10.3	7.48	8.19	8.26	6.57	11.4	10.2	7.35	9.00	12.1	5.04	8.75
110	Notch Butte Wind	3.62	5.87	5.59	4.92	4.27	3.71	2.53	2.75	4.41	6.47	4.82	5.38	7.05	5.80	4.74
111	Oregon Trail Wind	2.72	4.40	4.19	3.69	3.20	2.78	1.90	2.06	3.31	4.85	3.61	4.04	5.29	4.35	3.55
112	Palouse Wind	21.0	34.1	32.4	28.5	24.8	21.5	14.7	16.0	25.6	37.5	27.9	31.2	40.9	33.7	27.5
113	PaTu Wind	1.81	2.94	2.80	2.46	2.14	1.86	1.26	1.38	2.20	3.23	2.41	2.69	3.53	2.90	2.37
114	Paynes Ferry Wind Park	4.23	6.85	6.52	5.74	4.98	4.33	2.95	3.21	5.14	7.54	5.62	6.28	8.23	6.77	5.53
115	Pebble Springs Wind	19.9	32.2	30.7	27.0	23.4	20.4	13.9	15.1	24.2	35.5	26.4	29.5	38.7	31.8	26.0
116	Pepsi-Cola Eugene Solar	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
117	Pilgrim Stage Station Wind Park	2.11	3.43	3.26	2.87	2.49	2.17	1.47	1.60	2.57	3.77	2.81	3.14	4.11	3.39	2.76

Table A-11: Regional: Renewable Resources

Operating Year 2020

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
118	Pine Products Biomass	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
119	Portland Waste Water	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40
120	Power County Wind	9.05	14.7	14.0	12.3	10.7	9.28	6.32	6.88	11.0	16.2	12.0	13.5	17.6	14.5	11.8
121	Puyallup Energy Recovery	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
122	Qualco Dairy Digester	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
123	Raft River Geothermal	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
124	Raft River Geothermal 1	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
125	Raft River Geothermal 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
126	Raft River Geothermal 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
127	Rattlesnake Road Wind Farm	20.7	33.6	32.0	28.1	24.4	21.2	14.5	15.7	25.2	37.0	27.5	30.8	40.3	33.2	27.1
128	River Bend Landfill	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30
129	Rock Creek Digester	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
130	Rock River Wind	10.1	16.3	15.5	13.7	11.9	10.3	7.02	7.64	12.2	18.0	13.4	15.0	19.6	16.1	13.2
131	Rockland wind	15.9	25.8	24.6	21.7	18.8	16.3	11.1	12.1	19.4	28.5	21.2	23.7	31.0	25.5	20.8
132	Rogerson Flats	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
133	Ryegrass Wind	4.63	7.50	7.15	6.29	5.46	4.74	3.23	3.51	5.63	8.26	6.16	6.88	9.01	7.42	6.05
134	Salmon Creek Wind	4.02	6.53	6.21	5.47	4.74	4.13	2.81	3.06	4.90	7.18	5.35	5.98	7.83	6.45	5.26
135	Salmon Falls	4.23	6.85	6.52	5.74	4.98	4.33	2.95	3.21	5.14	7.54	5.62	6.28	8.23	6.77	5.53
136	Sawtooth	4.51	7.31	6.96	6.12	5.31	4.62	3.15	3.42	5.49	8.05	5.99	6.70	8.77	7.22	5.90
137	Shepherds Flat	170	276	263	231	200	174	119	129	207	304	226	253	331	273	222
138	Shepherds Flat - Central	58.4	94.6	90.1	79.3	68.8	59.8	40.7	44.3	71.0	104	77.6	86.7	114	93.5	76.3
139	Shepherds Flat - North	53.3	86.5	82.3	72.5	62.9	54.7	37.2	40.5	64.9	95.2	70.9	79.2	104	85.5	69.8
140	Shepherds Flat - South	58.4	94.6	90.1	79.3	68.8	59.8	40.7	44.3	71.0	104	77.6	86.7	114	93.5	76.3
141	Short Mountain	2.05	2.05	1.88	1.87	1.84	1.95	1.91	1.96	1.99	2.03	2.03	2.06	2.03	1.97	1.96
142	Star Point Wind	19.9	32.2	30.7	27.0	23.4	20.4	13.9	15.1	24.2	35.5	26.4	29.5	38.7	31.8	26.0
143	Stateline	52.7	114	74.2	75.5	48.3	58.4	39.9	25.4	96.9	89.2	61.8	80.1	118	48.4	68.8
144	Stateline-OR	29.1	62.9	41.0	41.7	26.7	32.3	22.0	14.0	53.5	49.3	34.2	44.2	65.1	26.8	38.0
145	Stateline-WA	23.6	51.0	33.2	33.8	21.6	26.1	17.9	11.4	43.3	39.9	27.7	35.8	52.7	21.7	30.8
146	Stoltze Biomass	2.80	2.80	2.80	2.70	2.20	2.20	2.20	2.20	2.20	2.30	2.30	2.80	2.80	2.80	2.50
147	Swager Digester	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
148	Swauk Wind	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39
149	Thousand Springs Wind Park	2.41	3.92	3.73	3.28	2.85	2.48	1.69	1.83	2.94	4.31	3.21	3.59	4.70	3.87	3.16
150	Threemile Canyon Wind	1.99	3.23	3.08	2.71	2.35	2.04	1.39	1.51	2.42	3.56	2.65	2.96	3.88	3.19	2.61
151	Treasure Valley Digester	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
152	Tuana Gulch Wind	2.11	3.43	3.26	2.87	2.49	2.17	1.47	1.60	2.57	3.77	2.81	3.14	4.11	3.39	2.76
153	Tuana Springs Wind	3.38	5.48	5.22	4.59	3.99	3.47	2.36	2.57	4.11	6.03	4.50	5.02	6.58	5.42	4.42
154	Two Ponds Wind	4.63	7.50	7.15	6.29	5.46	4.74	3.23	3.51	5.63	8.26	6.16	6.88	9.01	7.42	6.05
155	Van Dyk's Holsteins	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38
156	Vander Haak Dairy	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
157	Vansycle	25.4	44.5	39.8	36.8	30.8	29.9	20.7	20.0	34.9	44.6	32.7	36.8	49.1	38.6	34.3
158	Vansycle 1	5.54	12.2	9.09	9.73	7.36	9.51	6.78	4.92	10.7	9.04	6.27	7.22	10.4	6.72	8.26
159	Vansycle 2	19.9	32.3	30.7	27.0	23.5	20.4	13.9	15.1	24.2	35.5	26.5	29.6	38.7	31.9	26.0
160	Vantage Wind	18.1	29.4	28.0	24.6	21.4	18.6	12.6	13.8	22.0	32.3	24.1	26.9	35.3	29.0	23.7
161	Wheat Field	19.4	31.5	30.0	26.4	22.9	19.9	13.6	14.8	23.7	34.7	25.9	28.9	37.8	31.2	25.4
162	White Bluffs Solar	0.02	0.02	0.01	0	0	0	0	0	0.01	0.01	0.01	0.01	0.01	0.01	0.01
163	White Creek	40.6	65.8	62.6	55.1	47.8	41.6	28.3	30.8	49.4	72.4	54.0	60.3	79.0	65.0	53.1
164	Wild Horse	54.9	89.0	84.8	74.6	64.8	56.3	38.4	41.8	66.9	98.0	73.1	81.6	107	88.0	71.9
165	Wild Horse Solar 1	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
166	Wild Horse Wind 1	46.0	74.6	71.0	62.5	54.2	47.2	32.1	34.9	56.0	82.1	61.2	68.3	89.5	73.7	60.2
167	Wild Horse Wind 2	8.85	14.4	13.7	12.0	10.4	9.08	6.18	6.72	10.8	15.8	11.8	13.2	17.2	14.2	11.6
168	Willow Creek	14.5	23.5	22.4	19.7	17.1	14.9	10.1	11.0	17.6	25.9	19.3	21.5	28.2	23.2	19.0
169	Windy Point Wind	80.2	130	124	109	94.6	82.3	56.0	61.0	97.7	143	107	119	156	129	105
170	Windy Point 1	27.5	44.6	42.4	37.3	32.4	28.2	19.2	20.9	33.5	49.1	36.6	40.8	53.5	44.1	36.0
171	Windy Point 2	40.7	66.0	62.9	55.3	48.0	41.8	28.4	30.9	49.6	72.7	54.2	60.5	79.3	65.3	53.3
172	Windy Point 2 - Phase 2	12.0	19.5	18.6	16.4	14.2	12.3	8.40	9.14	14.6	21.5	16.0	17.9	23.4	19.3	15.7
173	Wolverine Creek	13.0	21.0	20.0	17.6	15.3	13.3	9.06	9.86	15.8	23.2	17.3	19.3	25.3	20.8	17.0
174	Yahoo Creek Wind	4.23	6.85	6.52	5.74	4.98	4.33	2.95	3.21	5.14	7.54	5.62	6.28	8.23	6.77	5.53
175	Yamhill Solar	0.30	0.30	0.30	0.20	0.10	0.10	0.10	0.10	0.20	0.30	0.30	0.30	0.30	0.40	0.23

Table A-11: Regional: Renewable Resources

Operating Year 2020

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Total Renewable Resources															
176	Cooperative	20.9	27.9	27.0	24.7	22.2	20.2	16.9	17.6	22.8	29.3	24.2	26.4	31.6	27.6	24.0
177	Federal Entities	51.9	89.1	71.2	62.4	46.3	51.1	34.2	30.0	69.0	74.2	57.0	68.1	91.1	61.5	60.2
178	Investor Owned Utilities	1080	1664	1580	1381	1200	1064	765	817	1255	1771	1357	1512	1925	1629	1340
179	Marketer	97.4	161	150	133	113	100	68.3	72.2	122	173	129	145	191	152	127
180	Municipality	277	436	389	357	296	274	195	197	330	442	339	389	500	391	339
181	Other	9.05	14.7	14.0	12.3	10.7	9.28	6.32	6.88	11.0	16.2	12.0	13.5	17.6	14.5	11.8
182	Public Utility District	129	206	190	176	150	137	105	106	165	218	164	185	240	184	166
183	**Total**	**1664**	**2599**	**2420**	**2146**	**1838**	**1656**	**1191**	**1246**	**1975**	**2724**	**2082**	**2338**	**2997**	**2460**	**2069**

Table A-11: Regional: Renewable Resources

Operating Year 2021

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Renewable Resources															
1	3 Bar G Wind	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
2	Ashland Solar Project	0.01	0.01	0.01	0.01	0	0	0	0	0.01	0.01	0.01	0.01	0.01	0.01	0.01
3	City Council	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	N. Mountain Park	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	Police Station	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	Public Works	0.01	0.01	0.01	0	0	0	0	0	0	0.01	0.01	0.01	0.01	0.01	0
7	Bellevue Solar (Amity, OR)	0.20	0.20	0.20	0.10	0.10	0.10	0.10	0.10	0.10	0.20	0.20	0.20	0.20	0.20	0.15
8	Bennett Creek Wind	4.23	6.85	6.52	5.74	4.98	4.33	2.95	3.21	5.14	7.54	5.62	6.28	8.23	6.77	5.53
9	Bettencourt B6 anaerobic digest	0.46	0.97	0.97	0.97	0.97	1.21	1.25	1.21	0.02	0.18	0.16	0.23	0.23	0.41	0.69
10	Big Horn Wind	50.2	81.4	77.5	68.2	59.2	51.5	35.0	38.1	61.1	89.6	66.8	74.6	97.7	80.5	65.7
11	Big Horn 1	40.1	65.1	62.0	54.5	47.3	41.2	28.0	30.5	48.9	71.7	53.4	59.6	78.1	64.3	52.6
12	Big Horn 2	10.1	16.3	15.5	13.7	11.9	10.3	7.02	7.64	12.2	18.0	13.4	15.0	19.6	16.1	13.2
13	Big Sky Dairy	1.05	1.05	1.08	1.05	1.13	1.11	1.01	0.96	1.06	1.05	1.05	1.07	1.13	1.03	1.06
14	Biglow Canyon Wind	90.5	147	140	123	107	92.8	63.2	68.7	110	162	120	134	176	145	119
15	Biglow Canyon 1	25.2	40.9	39.0	34.3	29.8	25.9	17.6	19.2	30.7	45.0	33.6	37.5	49.1	40.4	33.0
16	Biglow Canyon 2	30.1	48.8	46.5	40.9	35.5	30.8	21.0	22.9	36.6	53.7	40.0	44.7	58.6	48.2	39.4
17	Biglow Canyon 3	35.2	57.0	54.3	47.8	41.5	36.1	24.6	26.7	42.8	62.8	46.8	52.3	68.5	56.4	46.1
18	Burley Butte Wind	3.92	6.36	6.06	5.33	4.63	4.02	2.74	2.98	4.77	7.00	5.22	5.83	7.64	6.29	5.14
19	Camp Reed	4.53	7.34	6.99	6.15	5.34	4.64	3.16	3.44	5.51	8.08	6.02	6.73	8.81	7.26	5.93
20	Cassia Farms Wind	2.11	3.43	3.26	2.87	2.49	2.17	1.47	1.60	2.57	3.77	2.81	3.14	4.11	3.39	2.77
21	Cassia Gulch Wind	3.80	6.17	5.87	5.17	4.48	3.90	2.65	2.89	4.63	6.79	5.06	5.65	7.40	6.10	4.98
22	Coffin Butte	5.27	5.27	5.32	5.38	5.46	5.11	5.51	5.44	5.55	5.42	5.42	5.37	5.33	5.17	5.36
23	Coffin Butte 1	2.37	2.37	2.43	2.40	2.43	2.42	2.39	2.39	2.40	2.27	2.27	2.35	2.34	2.33	2.38
24	Coffin Butte 2	2.90	2.90	2.89	2.98	3.03	2.69	3.12	3.05	3.15	3.15	3.15	3.02	2.99	2.84	2.98
25	Cold Springs	4.63	7.50	7.15	6.29	5.46	4.74	3.23	3.51	5.63	8.26	6.16	6.88	9.01	7.42	6.06
26	Columbia Ridge Landfill	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6
27	Combine Hills	20.9	33.9	32.3	28.4	24.7	21.5	14.6	15.9	25.5	37.4	27.8	31.1	40.7	33.5	27.4
28	Combine Hills 2	12.7	20.6	19.6	17.2	15.0	13.0	8.85	9.63	15.4	22.6	16.9	18.8	24.7	20.3	16.6
29	Combine Hills I	8.25	13.4	12.7	11.2	9.73	8.46	5.76	6.27	10.0	14.7	11.0	12.3	16.1	13.2	10.8
30	Condon	5.92	11.5	9.57	10.9	9.77	13.8	7.23	7.13	13.0	10.7	8.60	8.69	10.3	6.85	9.65
31	Cottonwood Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	Deep Creek Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	DeRuyter & Son's Dairy	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20
34	Desert Meadow Windfarm	4.63	7.50	7.15	6.29	5.46	4.74	3.23	3.51	5.63	8.26	6.16	6.88	9.01	7.42	6.06
35	Double A Digester	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
36	Double B Digester	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
37	Dry Creek Landfill	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25
38	Dry Dairy Creek	1.38	1.39	1.36	1.36	1.33	1.26	1.17	1.40	1.39	1.30	0.96	1.15	1.15	1.10	1.26
39	Echo Wind Farm	13.0	21.1	20.1	17.7	15.3	13.3	9.07	9.87	15.8	23.2	17.3	19.3	25.3	20.8	17.0
40	Echo Wind 1	8.96	14.5	13.8	12.2	10.6	9.19	6.26	6.81	10.9	16.0	11.9	13.3	17.5	14.4	11.7
41	Echo Wind 2	4.02	6.53	6.21	5.47	4.74	4.13	2.81	3.06	4.90	7.18	5.35	5.98	7.83	6.45	5.27
42	Edaleen Cow Power	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63
43	Elkhorn Valley Wind Project	20.3	32.8	31.3	27.5	23.9	20.8	14.1	15.4	24.7	36.2	26.9	30.1	39.4	32.5	26.5
44	Farm Power Lynden	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
45	Farm Power Misty Meadow	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
46	Farm Power Rexville	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
47	Farm Power Tillamook	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
48	Fighting Creek Landfill	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60
49	Finley BioEnergy	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88
50	Flathead County Landfill	1.48	1.48	1.43	1.18	1.34	1.34	1.35	1.33	1.34	1.43	1.43	1.41	1.48	1.48	1.38
51	Foote Creek 1	8.33	13.5	12.9	11.3	9.82	8.54	5.82	6.33	10.1	14.9	11.1	12.4	16.2	13.4	10.9
52	Foote Creek 2	0.36	0.59	0.56	0.49	0.43	0.37	0.25	0.28	0.44	0.65	0.48	0.54	0.71	0.58	0.48
53	Foote Creek 4	3.38	5.48	5.22	4.59	3.99	3.47	2.36	2.57	4.11	6.03	4.50	5.02	6.58	5.42	4.43
54	Fossil Gulch Wind Project	2.11	3.43	3.26	2.87	2.49	2.17	1.47	1.60	2.57	3.77	2.81	3.14	4.11	3.39	2.77
55	Fourmile Hill Geothermal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
56	Golden Valley Wind	2.41	3.92	3.73	3.28	2.85	2.48	1.69	1.83	2.94	4.31	3.21	3.59	4.70	3.87	3.16
57	Goodnoe Hills	18.9	30.7	29.2	25.7	22.3	19.4	13.2	14.4	23.0	33.8	25.2	28.1	36.8	30.3	24.8
58	Goshen North (Ridgeline)	25.1	40.6	38.7	34.0	29.5	25.7	17.5	19.0	30.5	44.7	33.3	37.2	48.8	40.2	32.8

Table A-11: Regional: Renewable Resources

Operating Year 2021

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
59	Grandview Solar One	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00
60	Grayland	1.21	1.96	1.86	1.64	1.42	1.24	0.84	0.92	1.47	2.16	1.61	1.79	2.35	1.93	1.58
61	H.W. Hill Landfill Gas (Roosevelt	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00
62	HW Hill Landfill Gas 1	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30
63	HW Hill Landfill Gas 2	5.70	5.70	5.70	5.70	5.70	5.70	5.70	5.70	5.70	5.70	5.70	5.70	5.70	5.70	5.70
64	Hammett Hill	4.63	7.50	7.15	6.29	5.46	4.74	3.23	3.51	5.63	8.26	6.16	6.88	9.01	7.42	6.06
65	Harvest	19.9	32.3	30.7	27.0	23.5	20.4	13.9	15.1	24.2	35.5	26.5	29.6	38.7	31.9	26.1
66	Hay Canyon Wind	20.3	32.9	31.3	27.6	23.9	20.8	14.2	15.4	24.7	36.2	27.0	30.1	39.5	32.5	26.6
67	Healow 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68	Hidden Hollow Landfill	2.17	2.17	2.33	2.40	2.60	2.53	2.22	2.39	2.34	2.47	2.47	2.22	2.35	2.04	2.34
69	High Mesa Wind	8.03	13.0	12.4	10.9	9.47	8.23	5.60	6.10	9.77	14.3	10.7	11.9	15.6	12.9	10.5
70	Hopkins Ridge	31.5	51.1	48.7	42.8	37.2	32.3	22.0	23.9	38.3	56.3	41.9	46.8	61.3	50.5	41.3
71	Hopkins Ridge 2	1.45	2.35	2.24	1.97	1.71	1.49	1.01	1.10	1.76	2.59	1.93	2.15	2.82	2.32	1.90
72	Hopkins Ridge I	30.1	48.7	46.4	40.8	35.4	30.8	21.0	22.8	36.6	53.7	40.0	44.7	58.5	48.2	39.4
73	Horse Butte Wind	22.6	18.6	11.6	18.8	11.6	15.8	13.7	11.9	8.09	8.80	14.1	20.7	15.4	17.2	14.8
74	Horseshoe Bend Wind Project	1.81	2.94	2.80	2.46	2.14	1.86	1.26	1.38	2.20	3.23	2.41	2.69	3.53	2.90	2.37
75	Hot Springs Wind	3.98	6.46	6.15	5.41	4.70	4.08	2.78	3.03	4.85	7.11	5.30	5.92	7.76	6.39	5.22
76	Industrial Finishes	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
77	Josef Staufer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78	Juniper Canyon	30.4	49.3	47.0	41.3	35.9	31.2	21.2	23.1	37.0	54.3	40.5	45.2	59.2	48.8	39.8
79	Kettle Falls (biomass)	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	23.1	46.3	44.4
80	King Estate Solar	0.20	0.20	0.17	0.12	0.06	0.04	0.06	0.08	0.12	0.15	0.15	0.19	0.19	0.21	0.13
81	Kittitas Valley Wind	20.3	32.9	31.3	27.6	23.9	20.8	14.2	15.4	24.7	36.2	27.0	30.1	39.5	32.5	26.6
82	Klondike 1	7.55	10.5	9.35	6.35	4.54	4.14	3.30	3.26	6.06	7.95	6.74	8.19	10.4	9.47	6.81
83	Klondike 2	23.6	32.7	29.2	19.8	14.2	13.0	10.3	10.2	19.0	24.9	21.1	25.6	32.6	29.6	21.3
84	Klondike 3	70.4	97.7	87.2	59.2	42.4	38.6	30.8	30.5	56.5	74.2	62.9	76.3	97.1	88.3	63.5
85	Klondike 3a	24.1	33.4	29.8	20.2	14.5	13.2	10.5	10.4	19.3	25.4	21.5	26.1	33.2	30.2	21.7
86	Knudson Wind	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
87	Lava Beds Wind	3.62	5.87	5.59	4.92	4.27	3.71	2.53	2.75	4.41	6.47	4.82	5.38	7.05	5.80	4.74
88	Leaning Juniper	60.7	98.5	93.8	82.5	71.6	62.3	42.4	46.1	73.9	108	80.8	90.2	118	97.3	79.5
89	Leaning Juniper 1	20.2	32.8	31.2	27.5	23.8	20.7	14.1	15.4	24.6	36.1	26.9	30.1	39.4	32.4	26.5
90	Leaning Juniper 2a	18.2	29.5	28.1	24.7	21.4	18.6	12.7	13.8	22.1	32.4	24.2	27.0	35.4	29.1	23.8
91	Leaning Juniper 2b	22.3	36.2	34.5	30.3	26.3	22.9	15.6	17.0	27.2	39.9	29.7	33.2	43.5	35.8	29.3
92	Lewandowski Farms	0.11	0.10	0.08	0.08	0.08	0.06	0.08	0.06	0.11	0.12	0.12	0.11	0.13	0.10	0.09
93	Lime Wind	0.60	0.98	0.93	0.82	0.71	0.62	0.42	0.46	0.73	1.08	0.80	0.90	1.18	0.97	0.79
94	Linden Ranch	10.1	16.3	15.5	13.7	11.9	10.3	7.02	7.64	12.2	18.0	13.4	15.0	19.6	16.1	13.2
95	Livingston	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0	0.01	0.01	0.01	0.01	0.01	0	0.01
96	Lower Snake Wind	123	199	189	167	145	126	85.6	93.2	149	219	163	182	239	197	161
97	Lower Snake Wind 1	69.0	112	106	93.7	81.3	70.7	48.1	52.4	83.9	123	91.7	102	134	111	90.3
98	Lower Snake Wind 2	53.7	87.1	83.0	73.0	63.3	55.1	37.5	40.8	65.4	95.9	71.5	79.8	105	86.1	70.4
99	Mainline Wind	4.63	7.50	7.15	6.29	5.46	4.74	3.23	3.51	5.63	8.26	6.16	6.88	9.01	7.42	6.06
100	Marengo Wind	42.4	68.7	65.4	57.6	50.0	43.4	29.6	32.2	51.6	75.7	56.4	63.0	82.5	67.9	55.5
101	Marengo Wind 1	28.3	45.8	43.6	38.4	33.3	29.0	19.7	21.5	34.4	50.4	37.6	42.0	55.0	45.3	37.0
102	Marengo Wind 2	14.1	22.9	21.8	19.2	16.7	14.5	9.86	10.7	17.2	25.2	18.8	21.0	27.5	22.6	18.5
103	Meadow Creek Wind	16.1	26.0	24.8	21.8	18.9	16.5	11.2	12.2	19.5	28.7	21.4	23.9	31.3	25.7	21.0
104	Milner Dam Wind Farm	3.92	6.36	6.06	5.33	4.63	4.02	2.74	2.98	4.77	7.00	5.22	5.83	7.64	6.29	5.14
105	Neal Hot Springs	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0
106	Nine Canyon Wind	18.6	34.7	26.0	30.7	22.3	24.4	24.6	19.5	33.9	30.3	21.9	26.8	36.0	15.0	26.1
107	Nine Canyon Wind 1	9.32	17.4	13.1	15.4	11.2	12.2	12.3	9.81	17.0	15.2	11.0	13.4	18.1	7.52	13.1
108	Nine Canyon Wind 2	3.01	5.62	4.21	4.98	3.61	3.95	3.98	3.17	5.50	4.91	3.54	4.34	5.83	2.43	4.22
109	Nine Canyon Wind 3	6.24	11.7	8.74	10.3	7.48	8.19	8.26	6.57	11.4	10.2	7.35	9.00	12.1	5.04	8.75
110	Notch Butte Wind	3.62	5.87	5.59	4.92	4.27	3.71	2.53	2.75	4.41	6.47	4.82	5.38	7.05	5.80	4.74
111	Oregon Trail Wind	2.72	4.40	4.19	3.69	3.20	2.78	1.90	2.06	3.31	4.85	3.61	4.04	5.29	4.35	3.56
112	Palouse Wind	21.0	34.1	32.4	28.5	24.8	21.5	14.7	16.0	25.6	37.5	27.9	31.2	40.9	33.7	27.5
113	PaTu Wind	1.81	2.94	2.80	2.46	2.14	1.86	1.26	1.38	2.20	3.23	2.41	2.69	3.53	2.90	2.37
114	Paynes Ferry Wind Park	4.23	6.85	6.52	5.74	4.98	4.33	2.95	3.21	5.14	7.54	5.62	6.28	8.23	6.77	5.53
115	Pebble Springs Wind	19.9	32.2	30.7	27.0	23.4	20.4	13.9	15.1	24.2	35.5	26.4	29.5	38.7	31.8	26.0
116	Pepsi-Cola Eugene Solar	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
117	Pilgrim Stage Station Wind Park	2.11	3.43	3.26	2.87	2.49	2.17	1.47	1.60	2.57	3.77	2.81	3.14	4.11	3.39	2.77

Table A-11: Regional: Renewable Resources

Operating Year 2021

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
118	Pine Products Biomass	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
119	Portland Waste Water	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40
120	Power County Wind	9.05	14.7	14.0	12.3	10.7	9.28	6.32	6.88	11.0	16.2	12.0	13.5	17.6	14.5	11.9
121	Puyallup Energy Recovery	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
122	Qualco Dairy Digester	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
123	Raft River Geothermal	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
124	Raft River Geothermal 1	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
125	Raft River Geothermal 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
126	Raft River Geothermal 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
127	Rattlesnake Road Wind Farm	20.7	33.6	32.0	28.1	24.4	21.2	14.5	15.7	25.2	37.0	27.5	30.8	40.3	33.2	27.1
128	River Bend Landfill	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30
129	Rock Creek Digester	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
130	Rock River Wind	10.1	16.3	15.5	13.7	11.9	10.3	7.02	7.64	12.2	18.0	13.4	15.0	19.6	16.1	13.2
131	Rockland wind	15.9	25.8	24.6	21.7	18.8	16.3	11.1	12.1	19.4	28.5	21.2	23.7	31.0	25.5	20.9
132	Rogerson Flats	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
133	Ryegrass Wind	4.63	7.50	7.15	6.29	5.46	4.74	3.23	3.51	5.63	8.26	6.16	6.88	9.01	7.42	6.06
134	Salmon Creek Wind	4.02	6.53	6.21	5.47	4.74	4.13	2.81	3.06	4.90	7.18	5.35	5.98	7.83	6.45	5.27
135	Salmon Falls	4.23	6.85	6.52	5.74	4.98	4.33	2.95	3.21	5.14	7.54	5.62	6.28	8.23	6.77	5.53
136	Sawtooth	4.51	7.31	6.96	6.12	5.31	4.62	3.15	3.42	5.49	8.05	5.99	6.70	8.77	7.22	5.90
137	Shepherds Flat	170	276	263	231	200	174	119	129	207	304	226	253	331	273	223
138	Shepherds Flat - Central	58.4	94.6	90.1	79.3	68.8	59.8	40.7	44.3	71.0	104	77.6	86.7	114	93.5	76.4
139	Shepherds Flat - North	53.3	86.5	82.3	72.5	62.9	54.7	37.2	40.5	64.9	95.2	70.9	79.2	104	85.5	69.8
140	Shepherds Flat - South	58.4	94.6	90.1	79.3	68.8	59.8	40.7	44.3	71.0	104	77.6	86.7	114	93.5	76.4
141	Short Mountain	2.05	2.05	1.88	1.87	1.84	1.95	1.91	1.96	1.99	2.03	2.03	2.06	2.03	1.97	1.96
142	Star Point Wind	19.9	32.2	30.7	27.0	23.4	20.4	13.9	15.1	24.2	35.5	26.4	29.5	38.7	31.8	26.0
143	Stateline	52.7	114	74.2	75.5	48.3	58.4	39.9	25.4	96.9	89.2	61.8	80.1	118	48.4	69.0
144	Stateline-OR	29.1	62.9	41.0	41.7	26.7	32.3	22.0	14.0	53.5	49.3	34.2	44.2	65.1	26.8	38.1
145	Stateline-WA	23.6	51.0	33.2	33.8	21.6	26.1	17.9	11.4	43.3	39.9	27.7	35.8	52.7	21.7	30.9
146	Stoltze Biomass	2.80	2.80	2.80	2.70	2.20	2.20	2.20	2.20	2.20	2.30	2.30	2.80	2.80	2.80	2.50
147	Swager Digester	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
148	Swauk Wind	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39
149	Thousand Springs Wind Park	2.41	3.92	3.73	3.28	2.85	2.48	1.69	1.83	2.94	4.31	3.21	3.59	4.70	3.87	3.16
150	Threemile Canyon Wind	1.99	3.23	3.08	2.71	2.35	2.04	1.39	1.51	2.42	3.56	2.65	2.96	3.88	3.19	2.61
151	Treasure Valley Digester	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
152	Tuana Gulch Wind	2.11	3.43	3.26	2.87	2.49	2.17	1.47	1.60	2.57	3.77	2.81	3.14	4.11	3.39	2.77
153	Tuana Springs Wind	3.38	5.48	5.22	4.59	3.99	3.47	2.36	2.57	4.11	6.03	4.50	5.02	6.58	5.42	4.43
154	Two Ponds Wind	4.63	7.50	7.15	6.29	5.46	4.74	3.23	3.51	5.63	8.26	6.16	6.88	9.01	7.42	6.06
155	Van Dyk's Holsteins	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38
156	Vander Haak Dairy	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
157	Vansycle	25.4	44.5	39.8	36.8	30.8	29.9	20.7	20.0	34.9	44.6	32.7	36.8	49.1	38.6	34.3
158	Vansycle 1	5.54	12.2	9.09	9.73	7.36	9.51	6.78	4.92	10.7	9.04	6.27	7.22	10.4	6.72	8.27
159	Vansycle 2	19.9	32.3	30.7	27.0	23.5	20.4	13.9	15.1	24.2	35.5	26.5	29.6	38.7	31.9	26.1
160	Vantage Wind	18.1	29.4	28.0	24.6	21.4	18.6	12.6	13.8	22.0	32.3	24.1	26.9	35.3	29.0	23.7
161	Wheat Field	19.4	31.5	30.0	26.4	22.9	19.9	13.6	14.8	23.7	34.7	25.9	28.9	37.8	31.2	25.5
162	White Bluffs Solar	0.02	0.02	0.01	0	0	0	0	0	0.01	0.01	0.01	0.01	0.01	0.01	0.01
163	White Creek	40.6	65.8	62.6	55.1	47.8	41.6	28.3	30.8	49.4	72.4	54.0	60.3	79.0	65.0	53.1
164	Wild Horse	54.9	89.0	84.8	74.6	64.8	56.3	38.4	41.8	66.9	98.0	73.1	81.6	107	88.0	71.9
165	Wild Horse Solar 1	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
166	Wild Horse Wind 1	46.0	74.6	71.0	62.5	54.2	47.2	32.1	34.9	56.0	82.1	61.2	68.3	89.5	73.7	60.2
167	Wild Horse Wind 2	8.85	14.4	13.7	12.0	10.4	9.08	6.18	6.72	10.8	15.8	11.8	13.2	17.2	14.2	11.6
168	Willow Creek	14.5	23.5	22.4	19.7	17.1	14.9	10.1	11.0	17.6	25.9	19.3	21.5	28.2	23.2	19.0
169	Windy Point Wind	80.2	130	124	109	94.6	82.3	56.0	61.0	97.7	143	107	119	156	129	105
170	Windy Point 1	27.5	44.6	42.4	37.3	32.4	28.2	19.2	20.9	33.5	49.1	36.6	40.8	53.5	44.1	36.0
171	Windy Point 2	40.7	66.0	62.9	55.3	48.0	41.8	28.4	30.9	49.6	72.7	54.2	60.5	79.3	65.3	53.3
172	Windy Point 2 - Phase 2	12.0	19.5	18.6	16.4	14.2	12.3	8.40	9.14	14.6	21.5	16.0	17.9	23.4	19.3	15.8
173	Wolverine Creek	13.0	21.0	20.0	17.6	15.3	13.3	9.06	9.86	15.8	23.2	17.3	19.3	25.3	20.8	17.0
174	Yahoo Creek Wind	4.23	6.85	6.52	5.74	4.98	4.33	2.95	3.21	5.14	7.54	5.62	6.28	8.23	6.77	5.53
175	Yamhill Solar	0.30	0.30	0.30	0.20	0.10	0.10	0.10	0.10	0.20	0.30	0.30	0.30	0.30	0.40	0.23

Table A-11: Regional: Renewable Resources

Operating Year 2021

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Total Renewable Resources															
176	Cooperative	20.9	27.9	27.0	24.6	22.2	20.2	16.9	17.5	22.8	29.3	24.2	26.4	31.6	27.6	24.0
177	Federal Entities	51.9	89.1	71.2	62.4	46.3	51.1	34.2	30.0	69.0	74.2	57.0	68.1	91.1	61.5	60.3
178	Investor Owned Utilities	1080	1664	1580	1381	1200	1064	765	817	1255	1771	1357	1512	1921	1629	1341
179	Marketer	97.4	161	150	133	113	100	68.3	72.2	122	173	129	145	191	152	128
180	Municipality	277	436	389	357	296	274	195	197	330	442	339	389	500	391	339
181	Other	9.05	14.7	14.0	12.3	10.7	9.28	6.32	6.88	11.0	16.2	12.0	13.5	17.6	14.5	11.9
182	Public Utility District	129	206	190	176	150	137	105	106	165	218	164	185	240	184	167
183	**Total**	**1664**	**2599**	**2420**	**2146**	**1838**	**1656**	**1191**	**1246**	**1975**	**2724**	**2082**	**2338**	**2992**	**2460**	**2071**

Table A-11: Regional: Renewable Resources

Operating Year 2022

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Renewable Resources															
1	3 Bar G Wind	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
2	Ashland Solar Project	0.01	0.01	0.01	0.01	0	0	0	0	0.01	0.01	0.01	0.01	0.01	0.01	0.01
3	City Council	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	N. Mountain Park	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	Police Station	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	Public Works	0.01	0.01	0.01	0	0	0	0	0	0	0.01	0.01	0.01	0.01	0.01	0
7	Bellevue Solar (Amity, OR)	0.20	0.20	0.20	0.10	0.10	0.10	0.10	0.10	0.10	0.20	0.20	0.20	0.20	0.20	0.15
8	Bennett Creek Wind	4.23	6.85	6.52	5.74	4.98	4.33	2.95	3.21	5.14	7.54	5.62	6.28	8.23	6.77	5.53
9	Bettencourt B6 anaerobic digest	0.46	0.97	0.97	0.97	0.97	1.21	1.25	1.21	0.02	0.18	0.16	0.23	0.23	0.41	0.69
10	Big Horn Wind	50.2	81.4	77.5	68.2	59.2	51.5	35.0	38.1	61.1	89.6	66.8	74.6	97.7	80.5	65.7
11	Big Horn 1	40.1	65.1	62.0	54.5	47.3	41.2	28.0	30.5	48.9	71.7	53.4	59.6	78.1	64.3	52.6
12	Big Horn 2	10.1	16.3	15.5	13.7	11.9	10.3	7.02	7.64	12.2	18.0	13.4	15.0	19.6	16.1	13.2
13	Big Sky Dairy	1.05	1.05	1.08	1.05	1.13	1.11	1.01	0.96	1.06	1.05	1.05	1.07	1.13	1.03	1.06
14	Biglow Canyon Wind	90.5	147	140	123	107	92.8	63.2	68.7	110	162	120	134	176	145	119
15	Biglow Canyon 1	25.2	40.9	39.0	34.3	29.8	25.9	17.6	19.2	30.7	45.0	33.6	37.5	49.1	40.4	33.0
16	Biglow Canyon 2	30.1	48.8	46.5	40.9	35.5	30.8	21.0	22.9	36.6	53.7	40.0	44.7	58.6	48.2	39.4
17	Biglow Canyon 3	35.2	57.0	54.3	47.8	41.5	36.1	24.6	26.7	42.8	62.8	46.8	52.3	68.5	56.4	46.1
18	Burley Butte Wind	3.92	6.36	6.06	5.33	4.63	4.02	2.74	2.98	4.77	7.00	5.22	5.83	7.64	6.29	5.14
19	Camp Reed	4.53	7.34	6.99	6.15	5.34	4.64	3.16	3.44	5.51	8.08	6.02	6.73	8.81	7.26	5.93
20	Cassia Farms Wind	2.11	3.43	3.26	2.87	2.49	2.17	1.47	1.60	2.57	3.77	2.81	3.14	4.11	3.39	2.77
21	Cassia Gulch Wind	3.80	6.17	5.87	5.17	4.48	3.90	2.65	2.89	4.63	6.79	5.06	5.65	7.40	6.10	4.98
22	Coffin Butte	5.27	5.27	5.32	5.38	5.46	5.11	5.51	5.44	5.55	5.42	5.42	5.37	5.33	5.17	5.36
23	Coffin Butte 1	2.37	2.37	2.43	2.40	2.43	2.42	2.39	2.39	2.40	2.27	2.27	2.35	2.34	2.33	2.38
24	Coffin Butte 2	2.90	2.90	2.89	2.98	3.03	2.69	3.12	3.05	3.15	3.15	3.15	3.02	2.99	2.84	2.98
25	Cold Springs	4.63	7.50	7.15	6.29	5.46	4.74	3.23	3.51	5.63	8.26	6.16	6.88	9.01	7.42	6.06
26	Columbia Ridge Landfill	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6
27	Combine Hills	20.9	33.9	32.3	28.4	24.7	21.5	14.6	15.9	25.5	37.4	27.8	31.1	40.7	33.5	27.4
28	Combine Hills 2	12.7	20.6	19.6	17.2	15.0	13.0	8.85	9.63	15.4	22.6	16.9	18.8	24.7	20.3	16.6
29	Combine Hills I	8.25	13.4	12.7	11.2	9.73	8.46	5.76	6.27	10.0	14.7	11.0	12.3	16.1	13.2	10.8
30	Condon	5.92	11.5	9.57	10.9	9.77	13.8	7.23	7.13	13.0	10.7	8.60	8.69	10.3	6.85	9.65
31	Cottonwood Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	Deep Creek Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	DeRuyter & Son's Dairy	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20
34	Desert Meadow Windfarm	4.63	7.50	7.15	6.29	5.46	4.74	3.23	3.51	5.63	8.26	6.16	6.88	9.01	7.42	6.06
35	Double A Digester	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
36	Double B Digester	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
37	Dry Creek Landfill	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25
38	Dry Dairy Creek	1.38	1.39	1.36	1.36	1.33	1.26	1.17	1.40	1.39	1.30	0.96	1.15	1.15	1.10	1.26
39	Echo Wind Farm	13.0	21.1	20.1	17.7	15.3	13.3	9.07	9.87	15.8	23.2	17.3	19.3	25.3	20.8	17.0
40	Echo Wind 1	8.96	14.5	13.8	12.2	10.6	9.19	6.26	6.81	10.9	16.0	11.9	13.3	17.5	14.4	11.7
41	Echo Wind 2	4.02	6.53	6.21	5.47	4.74	4.13	2.81	3.06	4.90	7.18	5.35	5.98	7.83	6.45	5.27
42	Edaleen Cow Power	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63
43	Elkhorn Valley Wind Project	20.3	32.8	31.3	27.5	23.9	20.8	14.1	15.4	24.7	36.2	26.9	30.1	39.4	32.5	26.5
44	Farm Power Lynden	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
45	Farm Power Misty Meadow	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
46	Farm Power Rexville	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
47	Farm Power Tillamook	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
48	Fighting Creek Landfill	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60
49	Finley BioEnergy	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88
50	Flathead County Landfill	1.48	1.48	1.43	1.18	1.34	1.34	1.35	1.33	1.34	1.43	1.43	1.41	1.48	1.48	1.38
51	Foote Creek 1	8.33	13.5	12.9	11.3	9.82	8.54	5.82	6.33	10.1	14.9	11.1	12.4	16.2	13.4	10.9
52	Foote Creek 2	0.36	0.59	0.56	0.49	0.43	0.37	0.25	0.28	0.44	0.65	0.48	0.54	0.71	0.58	0.48
53	Foote Creek 4	3.38	5.48	5.22	4.59	3.99	3.47	2.36	2.57	4.11	6.03	4.50	5.02	6.58	5.42	4.43
54	Fossil Gulch Wind Project	2.11	3.43	3.26	2.87	2.49	2.17	1.47	1.60	2.57	3.77	2.81	3.14	4.11	3.39	2.77
55	Fourmile Hill Geothermal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
56	Golden Valley Wind	2.41	3.92	3.73	3.28	2.85	2.48	1.69	1.83	2.94	4.31	3.21	3.59	4.70	3.87	3.16
57	Goodnoe Hills	18.9	30.7	29.2	25.7	22.3	19.4	13.2	14.4	23.0	33.8	25.2	28.1	36.8	30.3	24.8
58	Goshen North (Ridgeline)	25.1	40.6	38.7	34.0	29.5	25.7	17.5	19.0	30.5	44.7	33.3	37.2	48.8	40.2	32.8

Table A-11: Regional: Renewable Resources

Operating Year 2022

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
59	Grandview Solar One	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00
60	Grayland	1.21	1.96	1.86	1.64	1.42	1.24	0.84	0.92	1.47	2.16	1.61	1.79	2.35	1.93	1.58
61	H.W. Hill Landfill Gas (Roosevelt	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00
62	HW Hill Landfill Gas 1	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30
63	HW Hill Landfill Gas 2	5.70	5.70	5.70	5.70	5.70	5.70	5.70	5.70	5.70	5.70	5.70	5.70	5.70	5.70	5.70
64	Hammett Hill	4.63	7.50	7.15	6.29	5.46	4.74	3.23	3.51	5.63	8.26	6.16	6.88	9.01	7.42	6.06
65	Harvest	19.9	32.3	30.7	27.0	23.5	20.4	13.9	15.1	24.2	35.5	26.5	29.6	38.7	31.9	26.1
66	Hay Canyon Wind	20.3	32.9	31.3	27.6	23.9	20.8	14.2	15.4	24.7	36.2	27.0	30.1	39.5	32.5	26.6
67	Healow 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68	Hidden Hollow Landfill	2.17	2.17	2.33	2.40	2.60	2.53	2.22	2.39	2.34	2.47	2.47	2.22	2.35	2.04	2.34
69	High Mesa Wind	8.03	13.0	12.4	10.9	9.47	8.23	5.60	6.10	9.77	14.3	10.7	11.9	15.6	12.9	10.5
70	Hopkins Ridge	31.5	51.1	48.7	42.8	37.2	32.3	22.0	23.9	38.3	56.3	41.9	46.8	61.3	50.5	41.3
71	Hopkins Ridge 2	1.45	2.35	2.24	1.97	1.71	1.49	1.01	1.10	1.76	2.59	1.93	2.15	2.82	2.32	1.90
72	Hopkins Ridge I	30.1	48.7	46.4	40.8	35.4	30.8	21.0	22.8	36.6	53.7	40.0	44.7	58.5	48.2	39.4
73	Horse Butte Wind	22.6	18.6	11.6	18.8	11.6	15.8	13.7	11.9	8.09	8.80	14.1	20.7	15.4	17.2	14.8
74	Horseshoe Bend Wind Project	1.81	2.94	2.80	2.46	2.14	1.86	1.26	1.38	2.20	3.23	2.41	2.69	3.53	2.90	2.37
75	Hot Springs Wind	3.98	6.46	6.15	5.41	4.70	4.08	2.78	3.03	4.85	7.11	5.30	5.92	7.76	6.39	5.22
76	Industrial Finishes	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
77	Josef Staufer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78	Juniper Canyon	30.4	49.3	47.0	41.3	35.9	31.2	21.2	23.1	37.0	54.3	40.5	45.2	59.2	48.8	39.8
79	Kettle Falls (biomass)	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	34.7	23.1	46.3	43.4
80	King Estate Solar	0.20	0.20	0.17	0.12	0.06	0.04	0.06	0.08	0.12	0.15	0.15	0.19	0.19	0.21	0.13
81	Kittitas Valley Wind	20.3	32.9	31.3	27.6	23.9	20.8	14.2	15.4	24.7	36.2	27.0	30.1	39.5	32.5	26.6
82	Klondike 1	7.55	10.5	9.35	6.35	4.54	4.14	3.30	3.26	6.06	7.95	6.74	8.19	10.4	9.47	6.81
83	Klondike 2	23.6	32.7	29.2	19.8	14.2	13.0	10.3	10.2	19.0	24.9	21.1	25.6	32.6	29.6	21.3
84	Klondike 3	70.4	97.7	87.2	59.2	42.4	38.6	30.8	30.5	56.5	74.2	62.9	76.3	97.1	88.3	63.5
85	Klondike 3a	24.1	33.4	29.8	20.2	14.5	13.2	10.5	10.4	19.3	25.4	21.5	26.1	33.2	30.2	21.7
86	Knudson Wind	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
87	Lava Beds Wind	3.62	5.87	5.59	4.92	4.27	3.71	2.53	2.75	4.41	6.47	4.82	5.38	7.05	5.80	4.74
88	Leaning Juniper	60.7	98.5	93.8	82.5	71.6	62.3	42.4	46.1	73.9	108	80.8	90.2	118	97.3	79.5
89	Leaning Juniper 1	20.2	32.8	31.2	27.5	23.8	20.7	14.1	15.4	24.6	36.1	26.9	30.1	39.4	32.4	26.5
90	Leaning Juniper 2a	18.2	29.5	28.1	24.7	21.4	18.6	12.7	13.8	22.1	32.4	24.2	27.0	35.4	29.1	23.8
91	Leaning Juniper 2b	22.3	36.2	34.5	30.3	26.3	22.9	15.6	17.0	27.2	39.9	29.7	33.2	43.5	35.8	29.3
92	Lewandowski Farms	0.11	0.10	0.08	0.08	0.08	0.06	0.08	0.06	0.11	0.12	0.12	0.11	0.13	0.10	0.09
93	Lime Wind	0.60	0.98	0.93	0.82	0.71	0.62	0.42	0.46	0.73	1.08	0.80	0.90	1.18	0.97	0.79
94	Linden Ranch	10.1	16.3	15.5	13.7	11.9	10.3	7.02	7.64	12.2	18.0	13.4	15.0	19.6	16.1	13.2
95	Livingston	0.01	0	0.01	0.01	0.01	0.01	0.01	0	0.01	0.01	0.01	0.01	0.01	0	0.01
96	Lower Snake Wind	123	199	189	167	145	126	85.6	93.2	149	219	163	182	239	197	161
97	Lower Snake Wind 1	69.0	112	106	93.7	81.3	70.7	48.1	52.4	83.9	123	91.7	102	134	111	90.3
98	Lower Snake Wind 2	53.7	87.1	83.0	73.0	63.3	55.1	37.5	40.8	65.4	95.9	71.5	79.8	105	86.1	70.4
99	Mainline Wind	4.63	7.50	7.15	6.29	5.46	4.74	3.23	3.51	5.63	8.26	6.16	6.88	9.01	7.42	6.06
100	Marengo Wind	42.4	68.7	65.4	57.6	50.0	43.4	29.6	32.2	51.6	75.7	56.4	63.0	82.5	67.9	55.5
101	Marengo Wind 1	28.3	45.8	43.6	38.4	33.3	29.0	19.7	21.5	34.4	50.4	37.6	42.0	55.0	45.3	37.0
102	Marengo Wind 2	14.1	22.9	21.8	19.2	16.7	14.5	9.86	10.7	17.2	25.2	18.8	21.0	27.5	22.6	18.5
103	Meadow Creek Wind	16.1	26.0	24.8	21.8	18.9	16.5	11.2	12.2	19.5	28.7	21.4	23.9	31.3	25.7	21.0
104	Milner Dam Wind Farm	3.92	6.36	6.06	5.33	4.63	4.02	2.74	2.98	4.77	7.00	5.22	5.83	7.64	6.29	5.14
105	Neal Hot Springs	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0
106	Nine Canyon Wind	18.6	34.7	26.0	30.7	22.3	24.4	24.6	19.5	33.9	30.3	21.9	26.8	36.0	15.0	26.1
107	Nine Canyon Wind 1	9.32	17.4	13.1	15.4	11.2	12.2	12.3	9.81	17.0	15.2	11.0	13.4	18.1	7.52	13.1
108	Nine Canyon Wind 2	3.01	5.62	4.21	4.98	3.61	3.95	3.98	3.17	5.50	4.91	3.54	4.34	5.83	2.43	4.22
109	Nine Canyon Wind 3	6.24	11.7	8.74	10.3	7.48	8.19	8.26	6.57	11.4	10.2	7.35	9.00	12.1	5.04	8.75
110	Notch Butte Wind	3.62	5.87	5.59	4.92	4.27	3.71	2.53	2.75	4.41	6.47	4.82	5.38	7.05	5.80	4.74
111	Oregon Trail Wind	2.72	4.40	4.19	3.69	3.20	2.78	1.90	2.06	3.31	4.85	3.61	4.04	5.29	4.35	3.56
112	Palouse Wind	21.0	34.1	32.4	28.5	24.8	21.5	14.7	16.0	25.6	37.5	27.9	31.2	40.9	33.7	27.5
113	PaTu Wind	1.81	2.94	2.80	2.46	2.14	1.86	1.26	1.38	2.20	3.23	2.41	2.69	3.53	2.90	2.37
114	Paynes Ferry Wind Park	4.23	6.85	6.52	5.74	4.98	4.33	2.95	3.21	5.14	7.54	5.62	6.28	8.23	6.77	5.53
115	Pebble Springs Wind	19.9	32.2	30.7	27.0	23.4	20.4	13.9	15.1	24.2	35.5	26.4	29.5	38.7	31.8	26.0
116	Pepsi-Cola Eugene Solar	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
117	Pilgrim Stage Station Wind Park	2.11	3.43	3.26	2.87	2.49	2.17	1.47	1.60	2.57	3.77	2.81	3.14	4.11	3.39	2.77

Table A-11: Regional: Renewable Resources

Operating Year 2022

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
118	Pine Products Biomass	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
119	Portland Waste Water	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40
120	Power County Wind	9.05	14.7	14.0	12.3	10.7	9.28	6.32	6.88	11.0	16.2	12.0	13.5	17.6	14.5	11.9
121	Puyallup Energy Recovery	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
122	Qualco Dairy Digester	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
123	Raft River Geothermal	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
124	Raft River Geothermal 1	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
125	Raft River Geothermal 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
126	Raft River Geothermal 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
127	Rattlesnake Road Wind Farm	20.7	33.6	32.0	28.1	24.4	21.2	14.5	15.7	25.2	37.0	27.5	30.8	40.3	33.2	27.1
128	River Bend Landfill	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30
129	Rock Creek Digester	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
130	Rock River Wind	10.1	16.3	15.5	13.7	11.9	10.3	7.02	7.64	12.2	18.0	13.4	15.0	19.6	16.1	13.2
131	Rockland wind	15.9	25.8	24.6	21.7	18.8	16.3	11.1	12.1	19.4	28.5	21.2	23.7	31.0	25.5	20.9
132	Rogerson Flats	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
133	Ryegrass Wind	4.63	7.50	7.15	6.29	5.46	4.74	3.23	3.51	5.63	8.26	6.16	6.88	9.01	7.42	6.06
134	Salmon Creek Wind	4.02	6.53	6.21	5.47	4.74	4.13	2.81	3.06	4.90	7.18	5.35	5.98	7.83	6.45	5.27
135	Salmon Falls	4.23	6.85	6.52	5.74	4.98	4.33	2.95	3.21	5.14	7.54	5.62	6.28	8.23	6.77	5.53
136	Sawtooth	4.51	7.31	6.96	6.12	5.31	4.62	3.15	3.42	5.49	8.05	5.99	6.70	8.77	7.22	5.90
137	Shepherds Flat	170	276	263	231	200	174	119	129	207	304	226	253	331	273	223
138	Shepherds Flat - Central	58.4	94.6	90.1	79.3	68.8	59.8	40.7	44.3	71.0	104	77.6	86.7	114	93.5	76.4
139	Shepherds Flat - North	53.3	86.5	82.3	72.5	62.9	54.7	37.2	40.5	64.9	95.2	70.9	79.2	104	85.5	69.8
140	Shepherds Flat - South	58.4	94.6	90.1	79.3	68.8	59.8	40.7	44.3	71.0	104	77.6	86.7	114	93.5	76.4
141	Short Mountain	2.05	2.05	1.88	1.87	1.84	1.95	1.91	1.96	1.99	2.03	2.03	2.06	2.03	1.97	1.96
142	Star Point Wind	19.9	32.2	30.7	27.0	23.4	20.4	13.9	15.1	24.2	35.5	26.4	29.5	38.7	31.8	26.0
143	Stateline	52.7	114	74.2	75.5	48.3	58.4	39.9	25.4	96.9	89.2	61.8	80.1	118	48.4	69.0
144	Stateline-OR	29.1	62.9	41.0	41.7	26.7	32.3	22.0	14.0	53.5	49.3	34.2	44.2	65.1	26.8	38.1
145	Stateline-WA	23.6	51.0	33.2	33.8	21.6	26.1	17.9	11.4	43.3	39.9	27.7	35.8	52.7	21.7	30.9
146	Stoltze Biomass	2.80	2.80	2.80	2.70	2.20	2.20	2.20	2.20	2.20	2.30	2.30	2.80	2.80	2.80	2.50
147	Swager Digester	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
148	Swauk Wind	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39
149	Thousand Springs Wind Park	2.41	3.92	3.73	3.28	2.85	2.48	1.69	1.83	2.94	4.31	3.21	3.59	4.70	3.87	3.16
150	Threemile Canyon Wind	1.99	3.23	3.08	2.71	2.35	2.04	1.39	1.51	2.42	3.56	2.65	2.96	3.88	3.19	2.61
151	Treasure Valley Digester	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
152	Tuana Gulch Wind	2.11	3.43	3.26	2.87	2.49	2.17	1.47	1.60	2.57	3.77	2.81	3.14	4.11	3.39	2.77
153	Tuana Springs Wind	3.38	5.48	5.22	4.59	3.99	3.47	2.36	2.57	4.11	6.03	4.50	5.02	6.58	5.42	4.43
154	Two Ponds Wind	4.63	7.50	7.15	6.29	5.46	4.74	3.23	3.51	5.63	8.26	6.16	6.88	9.01	7.42	6.06
155	Van Dyk's Holsteins	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38
156	Vander Haak Dairy	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
157	Vansycle	25.4	44.5	39.8	36.8	30.8	29.9	20.7	20.0	34.9	44.6	32.7	36.8	49.1	38.6	34.3
158	Vansycle 1	5.54	12.2	9.09	9.73	7.36	9.51	6.78	4.92	10.7	9.04	6.27	7.22	10.4	6.72	8.27
159	Vansycle 2	19.9	32.3	30.7	27.0	23.5	20.4	13.9	15.1	24.2	35.5	26.5	29.6	38.7	31.9	26.1
160	Vantage Wind	18.1	29.4	28.0	24.6	21.4	18.6	12.6	13.8	22.0	32.3	24.1	26.9	35.3	29.0	23.7
161	Wheat Field	19.4	31.5	30.0	26.4	22.9	19.9	13.6	14.8	23.7	34.7	25.9	28.9	37.8	31.2	25.5
162	White Bluffs Solar	0.02	0.02	0.01	0	0	0	0	0	0.01	0.01	0.01	0.01	0.01	0.01	0.01
163	White Creek	40.6	65.8	62.6	55.1	47.8	41.6	28.3	30.8	49.4	72.4	54.0	60.3	79.0	65.0	53.1
164	Wild Horse	54.9	89.0	84.8	74.6	64.8	56.3	38.4	41.8	66.9	98.0	73.1	81.6	107	88.0	71.9
165	Wild Horse Solar 1	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
166	Wild Horse Wind 1	46.0	74.6	71.0	62.5	54.2	47.2	32.1	34.9	56.0	82.1	61.2	68.3	89.5	73.7	60.2
167	Wild Horse Wind 2	8.85	14.4	13.7	12.0	10.4	9.08	6.18	6.72	10.8	15.8	11.8	13.2	17.2	14.2	11.6
168	Willow Creek	14.5	23.5	22.4	19.7	17.1	14.9	10.1	11.0	17.6	25.9	19.3	21.5	28.2	23.2	19.0
169	Windy Point Wind	80.2	130	124	109	94.6	82.3	56.0	61.0	97.7	143	107	119	156	129	105
170	Windy Point 1	27.5	44.6	42.4	37.3	32.4	28.2	19.2	20.9	33.5	49.1	36.6	40.8	53.5	44.1	36.0
171	Windy Point 2	40.7	66.0	62.9	55.3	48.0	41.8	28.4	30.9	49.6	72.7	54.2	60.5	79.3	65.3	53.3
172	Windy Point 2 - Phase 2	12.0	19.5	18.6	16.4	14.2	12.3	8.40	9.14	14.6	21.5	16.0	17.9	23.4	19.3	15.8
173	Wolverine Creek	13.0	21.0	20.0	17.6	15.3	13.3	9.06	9.86	15.8	23.2	17.3	19.3	25.3	20.8	17.0
174	Yahoo Creek Wind	4.23	6.85	6.52	5.74	4.98	4.33	2.95	3.21	5.14	7.54	5.62	6.28	8.23	6.77	5.53
175	Yamhill Solar	0.30	0.30	0.30	0.20	0.10	0.10	0.10	0.10	0.20	0.30	0.30	0.30	0.30	0.40	0.23

Table A-11: Regional: Renewable Resources

Operating Year 2022

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Total Renewable Resources															
176	Cooperative	20.9	27.9	27.0	24.6	22.2	20.2	16.9	17.5	22.8	29.3	24.2	26.4	31.6	27.6	24.0
177	Federal Entities	51.9	89.1	71.2	62.4	46.3	51.1	34.2	30.0	69.0	74.2	57.0	68.1	91.1	61.5	60.3
178	Investor Owned Utilities	1080	1664	1580	1381	1200	1064	765	817	1255	1771	1357	1500	1921	1629	1340
179	Marketer	97.4	161	150	133	113	100	68.3	72.2	122	173	129	145	191	152	128
180	Municipality	277	436	389	357	296	274	195	197	330	442	339	389	500	391	339
181	Other	9.05	14.7	14.0	12.3	10.7	9.28	6.32	6.88	11.0	16.2	12.0	13.5	17.6	14.5	11.9
182	Public Utility District	129	206	190	176	150	137	105	106	165	218	164	185	240	184	167
183	**Total**	**1664**	**2599**	**2420**	**2146**	**1838**	**1656**	**1191**	**1246**	**1975**	**2724**	**2082**	**2327**	**2992**	**2460**	**2070**

Table A-11: Regional: Renewable Resources

Operating Year 2023

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Renewable Resources															
1	3 Bar G Wind	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
2	Ashland Solar Project	0.01	0.01	0.01	0.01	0	0	0	0	0.01	0.01	0.01	0.01	0.01	0.01	0.01
3	City Council	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	N. Mountain Park	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	Police Station	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	Public Works	0.01	0.01	0.01	0	0	0	0	0	0	0.01	0.01	0.01	0.01	0.01	0
7	Bellevue Solar (Amity, OR)	0.20	0.20	0.20	0.10	0.10	0.10	0.10	0.10	0.10	0.20	0.20	0.20	0.20	0.20	0.15
8	Bennett Creek Wind	4.23	6.85	6.52	5.74	4.98	4.33	2.95	3.21	5.14	7.54	5.62	6.28	8.23	6.77	5.53
9	Bettencourt B6 anaerobic digest	0.46	0.97	0.97	0.97	0.97	1.21	1.25	1.21	0.02	0.18	0.16	0.23	0.23	0.41	0.69
10	Big Horn Wind	50.2	81.4	77.5	68.2	59.2	51.5	35.0	38.1	61.1	89.6	66.8	74.6	97.7	80.5	65.7
11	Big Horn 1	40.1	65.1	62.0	54.5	47.3	41.2	28.0	30.5	48.9	71.7	53.4	59.6	78.1	64.3	52.6
12	Big Horn 2	10.1	16.3	15.5	13.7	11.9	10.3	7.02	7.64	12.2	18.0	13.4	15.0	19.6	16.1	13.2
13	Big Sky Dairy	1.05	1.05	1.08	1.05	1.13	1.11	1.01	0.96	1.06	1.05	1.05	1.07	1.13	1.03	1.06
14	Biglow Canyon Wind	90.5	147	140	123	107	92.8	63.2	68.7	110	162	120	134	176	145	119
15	Biglow Canyon 1	25.2	40.9	39.0	34.3	29.8	25.9	17.6	19.2	30.7	45.0	33.6	37.5	49.1	40.4	33.0
16	Biglow Canyon 2	30.1	48.8	46.5	40.9	35.5	30.8	21.0	22.9	36.6	53.7	40.0	44.7	58.6	48.2	39.4
17	Biglow Canyon 3	35.2	57.0	54.3	47.8	41.5	36.1	24.6	26.7	42.8	62.8	46.8	52.3	68.5	56.4	46.1
18	Burley Butte Wind	3.92	6.36	6.06	5.33	4.63	4.02	2.74	2.98	4.77	7.00	5.22	5.83	7.64	6.29	5.14
19	Camp Reed	4.53	7.34	6.99	6.15	5.34	4.64	3.16	3.44	5.51	8.08	6.02	6.73	8.81	7.26	5.93
20	Cassia Farms Wind	2.11	3.43	3.26	2.87	2.49	2.17	1.47	1.60	2.57	3.77	2.81	3.14	4.11	3.39	2.77
21	Cassia Gulch Wind	3.80	6.17	5.87	5.17	4.48	3.90	2.65	2.89	4.63	6.79	5.06	5.65	7.40	6.10	4.98
22	Coffin Butte	5.27	5.27	5.32	5.38	5.46	5.11	5.51	5.44	5.55	5.42	5.42	5.37	5.33	5.17	5.36
23	Coffin Butte 1	2.37	2.37	2.43	2.40	2.43	2.42	2.39	2.39	2.40	2.27	2.27	2.35	2.34	2.33	2.38
24	Coffin Butte 2	2.90	2.90	2.89	2.98	3.03	2.69	3.12	3.05	3.15	3.15	3.15	3.02	2.99	2.84	2.98
25	Cold Springs	4.63	7.50	7.15	6.29	5.46	4.74	3.23	3.51	5.63	8.26	6.16	6.88	9.01	7.42	6.06
26	Columbia Ridge Landfill	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6
27	Combine Hills	20.9	33.9	32.3	28.4	24.7	21.5	14.6	15.9	25.5	37.4	27.8	31.1	40.7	33.5	27.4
28	Combine Hills 2	12.7	20.6	19.6	17.2	15.0	13.0	8.85	9.63	15.4	22.6	16.9	18.8	24.7	20.3	16.6
29	Combine Hills I	8.25	13.4	12.7	11.2	9.73	8.46	5.76	6.27	10.0	14.7	11.0	12.3	16.1	13.2	10.8
30	Condon	5.92	11.5	9.57	10.9	9.77	13.8	7.23	7.13	13.0	10.7	8.60	8.69	10.3	6.85	9.65
31	Cottonwood Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	Deep Creek Wind	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	DeRuyter & Son's Dairy	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20
34	Desert Meadow Windfarm	4.63	7.50	7.15	6.29	5.46	4.74	3.23	3.51	5.63	8.26	6.16	6.88	9.01	7.42	6.06
35	Double A Digester	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
36	Double B Digester	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
37	Dry Creek Landfill	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25
38	Dry Dairy Creek	1.38	1.39	1.36	1.36	1.33	1.26	1.17	1.40	1.39	1.30	0.96	1.15	1.15	1.10	1.26
39	Echo Wind Farm	13.0	21.1	20.1	17.7	15.3	13.3	9.07	9.87	15.8	23.2	17.3	19.3	25.3	20.8	17.0
40	Echo Wind 1	8.96	14.5	13.8	12.2	10.6	9.19	6.26	6.81	10.9	16.0	11.9	13.3	17.5	14.4	11.7
41	Echo Wind 2	4.02	6.53	6.21	5.47	4.74	4.13	2.81	3.06	4.90	7.18	5.35	5.98	7.83	6.45	5.27
42	Edaleen Cow Power	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63
43	Elkhorn Valley Wind Project	20.3	32.8	31.3	27.5	23.9	20.8	14.1	15.4	24.7	36.2	26.9	30.1	39.4	32.5	26.5
44	Farm Power Lynden	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
45	Farm Power Misty Meadow	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
46	Farm Power Rexville	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
47	Farm Power Tillamook	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
48	Fighting Creek Landfill	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60
49	Finley BioEnergy	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88
50	Flathead County Landfill	1.48	1.48	1.43	0.87	1.34	1.35	1.34	1.33	1.35	1.41	1.41	1.41	1.50	1.48	1.36
51	Foote Creek 1	8.33	13.5	12.9	11.3	9.82	8.54	5.82	6.33	10.1	14.9	11.1	12.4	16.2	13.4	10.9
52	Foote Creek 2	0.36	0.59	0.56	0.49	0.43	0.37	0.25	0.28	0.44	0.65	0.48	0.54	0.71	0.58	0.48
53	Foote Creek 4	3.38	5.48	5.22	4.59	3.99	3.47	2.36	2.57	4.11	6.03	4.50	5.02	6.58	5.42	4.43
54	Fossil Gulch Wind Project	2.11	3.43	3.26	2.87	2.49	2.17	1.47	1.60	2.57	3.77	2.81	3.14	4.11	3.39	2.77
55	Fourmile Hill Geothermal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
56	Golden Valley Wind	2.41	3.92	3.73	3.28	2.85	2.48	1.69	1.83	2.94	4.31	3.21	3.59	4.70	3.87	3.16
57	Goodnoe Hills	18.9	30.7	29.2	25.7	22.3	19.4	13.2	14.4	23.0	33.8	25.2	28.1	36.8	30.3	24.8
58	Goshen North (Ridgeline)	25.1	40.6	38.7	34.0	29.5	25.7	17.5	19.0	30.5	44.7	33.3	37.2	48.8	40.2	32.8

Table A-11: Regional: Renewable Resources

Operating Year 2023

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
59	Grandview Solar One	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00
60	Grayland	1.21	1.96	1.86	1.64	1.42	1.24	0.84	0.92	1.47	2.16	1.61	1.79	2.35	1.93	1.58
61	H.W. Hill Landfill Gas (Roosevelt	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00
62	HW Hill Landfill Gas 1	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30
63	HW Hill Landfill Gas 2	5.70	5.70	5.70	5.70	5.70	5.70	5.70	5.70	5.70	5.70	5.70	5.70	5.70	5.70	5.70
64	Hammett Hill	4.63	7.50	7.15	6.29	5.46	4.74	3.23	3.51	5.63	8.26	6.16	6.88	9.01	7.42	6.06
65	Harvest	19.9	32.3	30.7	27.0	23.5	20.4	13.9	15.1	24.2	35.5	26.5	29.6	38.7	31.9	26.1
66	Hay Canyon Wind	20.3	32.9	31.3	27.6	23.9	20.8	14.2	15.4	24.7	36.2	27.0	30.1	39.5	32.5	26.6
67	Healow 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68	Hidden Hollow Landfill	2.17	2.17	2.33	2.40	2.60	2.53	2.22	2.39	2.34	2.47	2.47	2.22	2.35	2.04	2.34
69	High Mesa Wind	8.03	13.0	12.4	10.9	9.47	8.23	5.60	6.10	9.77	14.3	10.7	11.9	15.6	12.9	10.5
70	Hopkins Ridge	31.5	51.1	48.7	42.8	37.2	32.3	22.0	23.9	38.3	56.3	41.9	46.8	61.3	50.5	41.3
71	Hopkins Ridge 2	1.45	2.35	2.24	1.97	1.71	1.49	1.01	1.10	1.76	2.59	1.93	2.15	2.82	2.32	1.90
72	Hopkins Ridge I	30.1	48.7	46.4	40.8	35.4	30.8	21.0	22.8	36.6	53.7	40.0	44.7	58.5	48.2	39.4
73	Horse Butte Wind	22.6	18.6	11.6	18.8	11.6	15.8	13.7	11.9	8.09	8.80	14.1	20.7	15.4	17.2	14.8
74	Horseshoe Bend Wind Project	1.81	2.94	2.80	2.46	2.14	1.86	1.26	1.38	2.20	3.23	2.41	2.69	3.53	2.90	2.37
75	Hot Springs Wind	3.98	6.46	6.15	5.41	4.70	4.08	2.78	3.03	4.85	7.11	5.30	5.92	7.76	6.39	5.22
76	Industrial Finishes	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
77	Josef Staufer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78	Juniper Canyon	30.4	49.3	47.0	41.3	35.9	31.2	21.2	23.1	37.0	54.3	40.5	45.2	59.2	48.8	39.8
79	Kettle Falls (biomass)	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	34.7	23.1	46.3	43.4
80	King Estate Solar	0.20	0.20	0.17	0.12	0.06	0.04	0.06	0.08	0.12	0.15	0.15	0.19	0.19	0.21	0.13
81	Kittitas Valley Wind	20.3	32.9	31.3	27.6	23.9	20.8	14.2	15.4	24.7	36.2	27.0	30.1	39.5	32.5	26.6
82	Klondike 1	7.55	10.5	9.35	6.35	4.54	4.14	3.30	3.26	6.06	7.95	6.74	8.19	10.4	9.47	6.81
83	Klondike 2	23.6	32.7	29.2	19.8	14.2	13.0	10.3	10.2	19.0	24.9	21.1	25.6	32.6	29.6	21.3
84	Klondike 3	70.4	97.7	87.2	59.2	42.4	38.6	30.8	30.5	56.5	74.2	62.9	76.3	97.1	88.3	63.5
85	Klondike 3a	24.1	33.4	29.8	20.2	14.5	13.2	10.5	10.4	19.3	25.4	21.5	26.1	33.2	30.2	21.7
86	Knudson Wind	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
87	Lava Beds Wind	3.62	5.87	5.59	4.92	4.27	3.71	2.53	2.75	4.41	6.47	4.82	5.38	7.05	5.80	4.74
88	Leaning Juniper	60.7	98.5	93.8	82.5	71.6	62.3	42.4	46.1	73.9	108	80.8	90.2	118	97.3	79.5
89	Leaning Juniper 1	20.2	32.8	31.2	27.5	23.8	20.7	14.1	15.4	24.6	36.1	26.9	30.1	39.4	32.4	26.5
90	Leaning Juniper 2a	18.2	29.5	28.1	24.7	21.4	18.6	12.7	13.8	22.1	32.4	24.2	27.0	35.4	29.1	23.8
91	Leaning Juniper 2b	22.3	36.2	34.5	30.3	26.3	22.9	15.6	17.0	27.2	39.9	29.7	33.2	43.5	35.8	29.3
92	Lewandowski Farms	0.11	0.10	0.08	0.08	0.08	0.06	0.08	0.06	0.11	0.12	0.12	0.11	0.13	0.10	0.09
93	Lime Wind	0.60	0.98	0.93	0.82	0.71	0.62	0.42	0.46	0.73	1.08	0.80	0.90	1.18	0.97	0.79
94	Linden Ranch	10.1	16.3	15.5	13.7	11.9	10.3	7.02	7.64	12.2	18.0	13.4	15.0	19.6	16.1	13.2
95	Livingston	0.01	0	0.01	0.01	0.01	0.01	0.01	0	0.01	0.01	0.01	0.01	0.01	0	0.01
96	Lower Snake Wind	123	199	189	167	145	126	85.6	93.2	149	219	163	182	239	197	161
97	Lower Snake Wind 1	69.0	112	106	93.7	81.3	70.7	48.1	52.4	83.9	123	91.7	102	134	111	90.3
98	Lower Snake Wind 2	53.7	87.1	83.0	73.0	63.3	55.1	37.5	40.8	65.4	95.9	71.5	79.8	105	86.1	70.4
99	Mainline Wind	4.63	7.50	7.15	6.29	5.46	4.74	3.23	3.51	5.63	8.26	6.16	6.88	9.01	7.42	6.06
100	Marengo Wind	42.4	68.7	65.4	57.6	50.0	43.4	29.6	32.2	51.6	75.7	56.4	63.0	82.5	67.9	55.5
101	Marengo Wind 1	28.3	45.8	43.6	38.4	33.3	29.0	19.7	21.5	34.4	50.4	37.6	42.0	55.0	45.3	37.0
102	Marengo Wind 2	14.1	22.9	21.8	19.2	16.7	14.5	9.86	10.7	17.2	25.2	18.8	21.0	27.5	22.6	18.5
103	Meadow Creek Wind	16.1	26.0	24.8	21.8	18.9	16.5	11.2	12.2	19.5	28.7	21.4	23.9	31.3	25.7	21.0
104	Milner Dam Wind Farm	3.92	6.36	6.06	5.33	4.63	4.02	2.74	2.98	4.77	7.00	5.22	5.83	7.64	6.29	5.14
105	Neal Hot Springs	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0
106	Nine Canyon Wind	18.6	34.7	26.0	30.7	22.3	24.4	24.6	19.5	33.9	30.3	21.9	26.8	36.0	15.0	26.1
107	Nine Canyon Wind 1	9.32	17.4	13.1	15.4	11.2	12.2	12.3	9.81	17.0	15.2	11.0	13.4	18.1	7.52	13.1
108	Nine Canyon Wind 2	3.01	5.62	4.21	4.98	3.61	3.95	3.98	3.17	5.50	4.91	3.54	4.34	5.83	2.43	4.22
109	Nine Canyon Wind 3	6.24	11.7	8.74	10.3	7.48	8.19	8.26	6.57	11.4	10.2	7.35	9.00	12.1	5.04	8.75
110	Notch Butte Wind	3.62	5.87	5.59	4.92	4.27	3.71	2.53	2.75	4.41	6.47	4.82	5.38	7.05	5.80	4.74
111	Oregon Trail Wind	2.72	4.40	4.19	3.69	3.20	2.78	1.90	2.06	3.31	4.85	3.61	4.04	5.29	4.35	3.56
112	Palouse Wind	21.0	34.1	32.4	28.5	24.8	21.5	14.7	16.0	25.6	37.5	27.9	31.2	40.9	33.7	27.5
113	PaTu Wind	1.81	2.94	2.80	2.46	2.14	1.86	1.26	1.38	2.20	3.23	2.41	2.69	3.53	2.90	2.37
114	Paynes Ferry Wind Park	4.23	6.85	6.52	5.74	4.98	4.33	2.95	3.21	5.14	7.54	5.62	6.28	8.23	6.77	5.53
115	Pebble Springs Wind	19.9	32.2	30.7	27.0	23.4	20.4	13.9	15.1	24.2	35.5	26.4	29.5	38.7	31.8	26.0
116	Pepsi-Cola Eugene Solar	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
117	Pilgrim Stage Station Wind Park	2.11	3.43	3.26	2.87	2.49	2.17	1.47	1.60	2.57	3.77	2.81	3.14	4.11	3.39	2.77

Table A-11: Regional: Renewable Resources

Operating Year 2023

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
118	Pine Products Biomass	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
119	Portland Waste Water	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40
120	Power County Wind	9.05	14.7	14.0	12.3	10.7	9.28	6.32	6.88	11.0	16.2	12.0	13.5	17.6	14.5	11.9
121	Puyallup Energy Recovery	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
122	Qualco Dairy Digester	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
123	Raft River Geothermal	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
124	Raft River Geothermal 1	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
125	Raft River Geothermal 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
126	Raft River Geothermal 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
127	Rattlesnake Road Wind Farm	20.7	33.6	32.0	28.1	24.4	21.2	14.5	15.7	25.2	37.0	27.5	30.8	40.3	33.2	27.1
128	River Bend Landfill	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30
129	Rock Creek Digester	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
130	Rock River Wind	10.1	16.3	15.5	13.7	11.9	10.3	7.02	7.64	12.2	18.0	13.4	15.0	19.6	16.1	13.2
131	Rockland wind	15.9	25.8	24.6	21.7	18.8	16.3	11.1	12.1	19.4	28.5	21.2	23.7	31.0	25.5	20.9
132	Rogerson Flats	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
133	Ryegrass Wind	4.63	7.50	7.15	6.29	5.46	4.74	3.23	3.51	5.63	8.26	6.16	6.88	9.01	7.42	6.06
134	Salmon Creek Wind	4.02	6.53	6.21	5.47	4.74	4.13	2.81	3.06	4.90	7.18	5.35	5.98	7.83	6.45	5.27
135	Salmon Falls	4.23	6.85	6.52	5.74	4.98	4.33	2.95	3.21	5.14	7.54	5.62	6.28	8.23	6.77	5.53
136	Sawtooth	4.51	7.31	6.96	6.12	5.31	4.62	3.15	3.42	5.49	8.05	5.99	6.70	8.77	7.22	5.90
137	Shepherds Flat	170	276	263	231	200	174	119	129	207	304	226	253	331	273	223
138	Shepherds Flat - Central	58.4	94.6	90.1	79.3	68.8	59.8	40.7	44.3	71.0	104	77.6	86.7	114	93.5	76.4
139	Shepherds Flat - North	53.3	86.5	82.3	72.5	62.9	54.7	37.2	40.5	64.9	95.2	70.9	79.2	104	85.5	69.8
140	Shepherds Flat - South	58.4	94.6	90.1	79.3	68.8	59.8	40.7	44.3	71.0	104	77.6	86.7	114	93.5	76.4
141	Short Mountain	2.05	2.05	1.88	1.87	1.84	1.95	1.91	1.96	1.99	2.03	2.03	2.06	2.03	1.97	1.96
142	Star Point Wind	19.9	32.2	30.7	27.0	23.4	20.4	13.9	15.1	24.2	35.5	26.4	29.5	38.7	31.8	26.0
143	Stateline	52.7	114	74.2	75.5	48.3	58.4	39.9	25.4	96.9	89.2	61.8	80.1	118	48.4	69.0
144	Stateline-OR	29.1	62.9	41.0	41.7	26.7	32.3	22.0	14.0	53.5	49.3	34.2	44.2	65.1	26.8	38.1
145	Stateline-WA	23.6	51.0	33.2	33.8	21.6	26.1	17.9	11.4	43.3	39.9	27.7	35.8	52.7	21.7	30.9
146	Stoltze Biomass	2.80	2.80	2.80	2.70	2.20	2.20	2.20	2.20	2.20	2.30	2.30	2.80	2.80	2.80	2.50
147	Swager Digester	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
148	Swauk Wind	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39
149	Thousand Springs Wind Park	2.41	3.92	3.73	3.28	2.85	2.48	1.69	1.83	2.94	4.31	3.21	3.59	4.70	3.87	3.16
150	Threemile Canyon Wind	1.99	3.23	3.08	2.71	2.35	2.04	1.39	1.51	2.42	3.56	2.65	2.96	3.88	3.19	2.61
151	Treasure Valley Digester	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
152	Tuana Gulch Wind	2.11	3.43	3.26	2.87	2.49	2.17	1.47	1.60	2.57	3.77	2.81	3.14	4.11	3.39	2.77
153	Tuana Springs Wind	3.38	5.48	5.22	4.59	3.99	3.47	2.36	2.57	4.11	6.03	4.50	5.02	6.58	5.42	4.43
154	Two Ponds Wind	4.63	7.50	7.15	6.29	5.46	4.74	3.23	3.51	5.63	8.26	6.16	6.88	9.01	7.42	6.06
155	Van Dyk's Holsteins	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38
156	Vander Haak Dairy	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
157	Vansycle	25.4	44.5	39.8	36.8	30.8	29.9	20.7	20.0	34.9	44.6	32.7	36.8	49.1	38.6	34.3
158	Vansycle 1	5.54	12.2	9.09	9.73	7.36	9.51	6.78	4.92	10.7	9.04	6.27	7.22	10.4	6.72	8.27
159	Vansycle 2	19.9	32.3	30.7	27.0	23.5	20.4	13.9	15.1	24.2	35.5	26.5	29.6	38.7	31.9	26.1
160	Vantage Wind	18.1	29.4	28.0	24.6	21.4	18.6	12.6	13.8	22.0	32.3	24.1	26.9	35.3	29.0	23.7
161	Wheat Field	19.4	31.5	30.0	26.4	22.9	19.9	13.6	14.8	23.7	34.7	25.9	28.9	37.8	31.2	25.5
162	White Bluffs Solar	0.02	0.02	0.01	0	0	0	0	0	0.01	0.01	0.01	0.01	0.01	0.01	0.01
163	White Creek	40.6	65.8	62.6	55.1	47.8	41.6	28.3	30.8	49.4	72.4	54.0	60.3	79.0	65.0	53.1
164	Wild Horse	54.9	89.0	84.8	74.6	64.8	56.3	38.4	41.8	66.9	98.0	73.1	81.6	107	88.0	71.9
165	Wild Horse Solar 1	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
166	Wild Horse Wind 1	46.0	74.6	71.0	62.5	54.2	47.2	32.1	34.9	56.0	82.1	61.2	68.3	89.5	73.7	60.2
167	Wild Horse Wind 2	8.85	14.4	13.7	12.0	10.4	9.08	6.18	6.72	10.8	15.8	11.8	13.2	17.2	14.2	11.6
168	Willow Creek	14.5	23.5	22.4	19.7	17.1	14.9	10.1	11.0	17.6	25.9	19.3	21.5	28.2	23.2	19.0
169	Windy Point Wind	80.2	130	124	109	94.6	82.3	56.0	61.0	97.7	143	107	119	156	129	105
170	Windy Point 1	27.5	44.6	42.4	37.3	32.4	28.2	19.2	20.9	33.5	49.1	36.6	40.8	53.5	44.1	36.0
171	Windy Point 2	40.7	66.0	62.9	55.3	48.0	41.8	28.4	30.9	49.6	72.7	54.2	60.5	79.3	65.3	53.3
172	Windy Point 2 - Phase 2	12.0	19.5	18.6	16.4	14.2	12.3	8.40	9.14	14.6	21.5	16.0	17.9	23.4	19.3	15.8
173	Wolverine Creek	13.0	21.0	20.0	17.6	15.3	13.3	9.06	9.86	15.8	23.2	17.3	19.3	25.3	20.8	17.0
174	Yahoo Creek Wind	4.23	6.85	6.52	5.74	4.98	4.33	2.95	3.21	5.14	7.54	5.62	6.28	8.23	6.77	5.53
175	Yamhill Solar	0.30	0.30	0.30	0.20	0.10	0.10	0.10	0.10	0.20	0.30	0.30	0.30	0.30	0.40	0.23

Table A-11: Regional: Renewable Resources

Operating Year 2023

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Total Renewable Resources															
176	Cooperative	20.9	27.9	27.0	24.3	22.2	20.2	16.9	17.5	22.8	29.3	24.2	26.4	31.6	27.6	24.0
177	Federal Entities	51.9	89.1	71.2	62.4	46.3	51.1	34.2	30.0	69.0	74.2	57.0	68.1	91.1	61.5	60.3
178	Investor Owned Utilities	1080	1664	1580	1381	1200	1034	741	793	1210	1713	1308	1441	1845	1560	1308
179	Marketer	97.4	161	150	133	113	131	92.4	96.1	167	231	178	205	267	221	159
180	Municipality	277	436	389	357	296	274	195	197	330	442	339	389	500	391	339
181	Other	9.05	14.7	14.0	12.3	10.7	9.28	6.32	6.88	11.0	16.2	12.0	13.5	17.6	14.5	11.9
182	Public Utility District	129	206	190	176	150	137	105	106	165	218	164	185	240	184	167
183	**Total**	**1664**	**2599**	**2420**	**2146**	**1838**	**1656**	**1191**	**1246**	**1975**	**2724**	**2082**	**2327**	**2992**	**2460**	**2070**

THIS PAGE INTENTIONALLY LEFT BLANK

Exhibit 31
Table A-12: Regional Cogeneration Resources

Monthly Energy
Operating Year 2014 to 2023
Using 1937-Water Conditions

Table A-12: Regional: Cogeneration Resources

Operating Year 2014

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Cogeneration Resources															
1	Biomass One	14.9	14.9	14.4	14.9	14.4	14.9	14.9	13.4	14.9	14.4	14.4	14.9	14.4	14.9	14.6
2	Boise Cascade Medford	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	Cogen Co	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63
4	Cogen Co 2	5.95	5.95	5.76	5.95	5.76	5.95	5.95	5.38	5.95	7.20	0	5.95	5.76	5.95	5.67
5	Cosmopolis Specialty Fibres	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
6	Coyote Springs	209	209	209	209	209	209	209	209	209	209	209	209	209	209	209
7	Coyote Springs 2	249	249	257	245	259	272	271	262	248	245	245	240	118	246	243
8	Evergreen Biopower Cogen	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50
9	Ferndale Cogeneration Station	235	235	236	238	241	243	243	242	240	239	239	0	236	235	218
10	Georgia-Pacific (Toledo)	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
11	Georgia-Pacific Paper (Camas)	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	6.80	10.00	10.00	9.73
12	Georgia-Pacific Paper (Wauna)	12.4	12.4	14.4	18.4	19.6	22.6	24.0	23.0	23.0	22.0	22.0	19.1	14.2	18.1	19.2
13	Grays Harbor Paper	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
14	Haleywest L.L.C	4.54	4.54	4.15	4.58	4.39	4.41	3.96	4.02	4.19	3.73	3.73	4.24	4.29	3.86	4.20
15	Hampton Lumber Mill (Darringto	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20
16	Hermiston Generation Project	436	436	442	413	421	467	429	461	337	418	0	395	406	399	401
17	Hermiston Power Project	620	620	620	620	620	620	620	620	0	620	620	620	620	620	567
18	Intenational Paper Energy Cente	22.0	22.0	16.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	21.5
19	Intenational Paper Energy Center 2	8.46	8.46	6.15	8.46	8.46	8.46	8.46	8.46	8.46	8.46	8.46	8.46	8.46	8.46	8.27
20	Intenational Paper Energy Center 1	13.5	13.5	9.85	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.2
21	InterFor Pacific - Gilchrist	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
22	Lakeview Biomass	19.6	19.6	19.6	18.6	18.6	17.5	16.0	17.5	13.4	18.6	18.6	19.6	17.0	19.6	18.0
23	Lancaster	230	230	238	234	238	254	253	239	237	154	154	63.5	148	228	210
24	Longview Fibre Paper & Packagi	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0
25	Longview Fibre Paper & Packaging 1	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0
26	Longview Fibre Paper & Packaging 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	Macks Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	March Point Cogeneration	124	124	124	124	124	124	124	124	124	124	124	124	124	124	124
29	Metro West Point	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
30	Port Townsend Mill	6.70	6.70	6.70	6.70	6.70	6.70	6.70	6.70	6.70	6.70	6.70	6.70	6.70	6.70	6.70
31	Port Townsend Mill 1	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
32	Port Townsend Mill 2	6.51	6.51	6.51	6.51	6.51	6.51	6.51	6.51	6.51	6.51	6.51	6.51	6.51	6.51	6.51
33	Potlatch	64.4	64.4	57.8	58.2	64.4	64.0	62.7	62.0	54.7	57.4	57.4	62.7	56.7	62.8	60.6
34	Potlach NG 1	9.63	9.63	8.64	8.70	9.63	9.55	9.36	9.25	8.17	8.57	8.57	9.36	8.47	9.38	9.06
35	Potlach Wood Waste 1	54.8	54.8	49.2	49.5	54.8	54.4	53.3	52.7	46.5	48.8	48.8	53.3	48.2	53.4	51.6
36	Rough & Ready Lumber	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
37	Rupert Cogeneration Facility	7.55	7.55	8.01	9.42	9.40	8.65	8.25	9.05	9.12	7.70	7.70	7.53	7.97	8.05	8.39
38	SDS Lumber	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
39	Seneca Sawmill Cogen	12.3	12.3	11.8	12.3	12.0	11.8	12.1	12.2	12.1	5.50	5.50	3.60	5.50	12.1	10.3
40	Sierra Pacific - Abberdeen	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
41	Sierra Pacific - Burlington	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0
42	Simplot Pocatello	9.75	9.75	9.32	8.88	8.12	8.12	7.81	9.22	8.57	8.30	8.30	7.47	4.06	8.57	8.18
43	Simpson Tacoma CoGen	44.9	44.9	44.1	40.9	47.2	48.7	49.6	48.9	40.4	41.1	41.1	35.5	42.5	47.6	44.3
44	SP Newsprint cogen	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104
45	SP Newsprint cogen 1	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2
46	SP Newsprint Wood Waste	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8
47	Sumas	120	120	121	124	126	127	127	126	126	125	125	77.8	121	120	120
48	Sumas Compressor Station	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95
49	Tamarack	4.53	4.53	4.45	3.60	4.09	4.00	3.86	3.93	3.49	3.42	3.42	3.11	3.99	4.40	3.91
50	TASCO - Nampa	0.20	0.20	0.16	0.06	0	0	0	0.02	0.04	0.03	0.03	0	0.05	0.16	0.06
51	TASCO - Twin Falls	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
52	Thompson River Co-Gen	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53	Vaagen Bros.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54	Wah Chang Cogen	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8
55	Warm Springs Cogen	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20

Table A-12: Regional: Cogeneration Resources

Operating Year 2014

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
56	Weyerhaeuser Longview	35.7	35.7	35.1	32.5	37.5	38.7	39.5	38.8	32.1	32.7	32.7	28.2	33.8	37.8	35.2
57	Weyerhaeuser Longview 2	18.7	18.7	18.4	17.1	19.7	20.3	20.7	20.4	16.8	17.2	17.2	14.8	17.8	19.9	18.5
58	Weyerhauser Longview 1	16.9	16.9	16.6	15.4	17.8	18.4	18.7	18.4	15.2	15.5	15.5	13.4	16.0	17.9	16.7
Total Cogeneration Resources																
59	Cooperative	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
60	Direct Service Industry	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5
61	Federal Entities	12.4	12.4	14.4	18.4	19.6	22.6	24.0	23.0	23.0	22.0	22.0	19.1	14.2	18.1	19.2
62	Investor Owned Utilities	1744	1744	1760	1722	1757	1834	1792	1797	1650	1645	1220	1242	1489	1698	1659
63	Marketer	824	824	823	821	826	827	828	827	201	821	821	817	822	826	771
64	Municipality	108	108	100	104	110	111	112	112	103	97.1	97.1	89.6	98.5	110	105
65	Other	19.6	19.6	19.6	18.6	18.6	17.5	16.0	17.5	13.4	18.6	18.6	19.6	17.0	19.6	18.0
66	Public Utility District	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2
67	**Total**	**2749**	**2749**	**2759**	**2725**	**2772**	**2854**	**2813**	**2818**	**2032**	**2646**	**2220**	**2229**	**2482**	**2714**	**2613**

Table A-12: Regional: Cogeneration Resources

Operating Year 2015

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Cogeneration Resources															
1	Biomass One	14.9	14.9	14.4	14.9	14.4	14.9	14.9	13.4	14.9	14.4	14.4	14.9	14.4	14.9	14.6
2	Boise Cascade Medford	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	Cogen Co	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63
4	Cogen Co 2	5.95	5.95	5.76	5.95	5.76	5.95	5.95	5.38	5.95	7.20	0	5.95	5.76	5.95	5.67
5	Cosmopolis Specialty Fibres	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
6	Coyote Springs	209	209	209	209	209	209	209	209	209	209	209	209	209	209	209
7	Coyote Springs 2	249	249	257	245	259	272	271	262	248	245	245	120	177	246	237
8	Evergreen Biopower Cogen	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50
9	Ferndale Cogeneration Station	235	235	236	238	241	243	243	242	240	239	239	0	236	235	218
10	Georgia-Pacific (Toledo)	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
11	Georgia-Pacific Paper (Camas)	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
12	Georgia-Pacific Paper (Wauna)	12.4	12.4	14.4	18.4	19.6	22.6	24.0	23.0	23.0	22.0	22.0	19.1	14.2	18.1	19.2
13	Grays Harbor Paper	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
14	Haleywest L.L.C	4.54	4.54	4.15	4.58	4.39	4.41	3.96	4.02	4.19	3.73	3.73	4.24	4.29	3.86	4.20
15	Hampton Lumber Mill (Darringto	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20
16	Hermiston Generation Project	436	436	442	413	458	466	427	461	335	412	0	412	409	431	408
17	Hermiston Power Project	620	620	620	620	620	620	620	620	0	620	620	620	620	620	567
18	Intenational Paper Energy Cente	22.0	22.0	16.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	21.5
19	Intenational Paper Energy Center 2	8.46	8.46	6.15	8.46	8.46	8.46	8.46	8.46	8.46	8.46	8.46	8.46	8.46	8.46	8.27
20	Intenational Paper Energy Center 1	13.5	13.5	9.85	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.2
21	InterFor Pacific - Gilchrist	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
22	Lakeview Biomass	19.6	19.6	19.6	18.6	18.6	17.5	16.0	17.5	13.4	18.6	18.6	19.6	17.0	19.6	18.0
23	Lancaster	230	230	238	234	238	254	253	239	237	154	154	72.9	148	228	210
24	Longview Fibre Paper & Packagi	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0
25	Longview Fibre Paper & Packaging 1	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0
26	Longview Fibre Paper & Packaging 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	Macks Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	March Point Cogeneration	124	124	124	124	124	124	124	124	124	124	124	124	124	124	124
29	Metro West Point	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
30	Port Townsend Mill	6.70	6.70	6.70	6.70	6.70	6.70	6.70	6.70	6.70	6.70	6.70	6.70	6.70	6.70	6.70
31	Port Townsend Mill 1	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
32	Port Townsend Mill 2	6.51	6.51	6.51	6.51	6.51	6.51	6.51	6.51	6.51	6.51	6.51	6.51	6.51	6.51	6.51
33	Potlatch	64.4	64.4	57.8	58.2	64.4	64.0	62.7	62.0	54.7	57.4	57.4	62.7	56.7	62.8	60.6
34	Potlach NG 1	9.63	9.63	8.64	8.70	9.63	9.55	9.36	9.25	8.17	8.57	8.57	9.36	8.47	9.38	9.06
35	Potlach Wood Waste 1	54.8	54.8	49.2	49.5	54.8	54.4	53.3	52.7	46.5	48.8	48.8	53.3	48.2	53.4	51.6
36	Rough & Ready Lumber	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
37	Rupert Cogeneration Facility	7.55	7.55	8.01	9.42	9.40	8.65	8.25	9.05	9.12	7.70	7.70	7.53	7.97	8.05	8.39
38	SDS Lumber	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
39	Seneca Sawmill Cogen	12.3	12.3	11.8	12.3	12.0	11.8	12.1	12.2	12.1	5.50	5.50	3.60	5.50	12.1	10.3
40	Sierra Pacific - Abberdeen	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
41	Sierra Pacific - Burlington	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0
42	Simplot Pocatello	9.75	9.75	9.32	8.88	8.12	8.12	7.81	9.22	8.57	8.30	8.30	7.47	4.06	8.57	8.18
43	Simpson Tacoma CoGen	44.9	44.9	44.1	40.9	47.2	48.7	49.6	48.9	40.4	41.1	41.1	35.5	42.5	47.6	44.3
44	SP Newsprint cogen	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104
45	SP Newsprint cogen 1	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2
46	SP Newsprint Wood Waste	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8
47	Sumas	120	120	121	124	126	127	127	126	126	125	125	77.8	121	120	120
48	Sumas Compressor Station	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95
49	Tamarack	4.53	4.53	4.45	3.60	4.09	4.00	3.86	3.93	3.49	3.42	3.42	3.11	3.99	4.40	3.91
50	TASCO - Nampa	0.20	0.20	0.16	0.06	0	0	0	0.02	0.04	0.03	0.03	0	0.05	0.16	0.06
51	TASCO - Twin Falls	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
52	Thompson River Co-Gen	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53	Vaagen Bros.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54	Wah Chang Cogen	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8
55	Warm Springs Cogen	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20

Table A-12: Regional: Cogeneration Resources

Operating Year 2015

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
56	Weyerhaeuser Longview	35.7	35.7	35.1	32.5	37.5	38.7	39.5	38.8	32.1	32.7	32.7	28.2	33.8	37.8	35.2
57	Weyerhaeuser Longview 2	18.7	18.7	18.4	17.1	19.7	20.3	20.7	20.4	16.8	17.2	17.2	14.8	17.8	19.9	18.5
58	Weyerhauser Longview 1	16.9	16.9	16.6	15.4	17.8	18.4	18.7	18.4	15.2	15.5	15.5	13.4	16.0	17.9	16.7
	Total Cogeneration Resources															
59	Cooperative	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
60	Direct Service Industry	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5
61	Federal Entities	12.4	12.4	14.4	18.4	19.6	22.6	24.0	23.0	23.0	22.0	22.0	19.1	14.2	18.1	19.2
62	Investor Owned Utilities	1744	1744	1760	1722	1794	1834	1789	1798	1648	1639	1220	1151	1551	1731	1662
63	Marketer	824	824	823	821	826	827	828	827	201	843	843	839	844	848	778
64	Municipality	108	108	100	104	110	111	112	112	103	75.1	75.1	67.6	76.5	88.2	97.2
65	Other	19.6	19.6	19.6	18.6	18.6	17.5	16.0	17.5	13.4	18.6	18.6	19.6	17.0	19.6	18.0
66	Public Utility District	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2
67	**Total**	**2749**	**2749**	**2759**	**2725**	**2810**	**2854**	**2811**	**2819**	**2030**	**2639**	**2220**	**2138**	**2545**	**2747**	**2616**

Table A-12: Regional: Cogeneration Resources

Operating Year 2016

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Cogeneration Resources															
1	Biomass One	14.9	14.9	14.4	14.9	14.4	14.9	14.9	13.9	14.9	14.4	14.4	14.9	14.4	14.9	14.7
2	Boise Cascade Medford	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	Cogen Co	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63
4	Cogen Co 2	5.95	5.95	5.76	5.95	5.76	5.95	5.95	5.57	5.95	7.20	0	5.95	5.76	5.95	5.68
5	Cosmopolis Specialty Fibres	14.0	14.0	14.0	14.0	14.0	14.0	14.0	13.5	14.0	14.0	14.0	14.0	14.0	14.0	14.0
6	Coyote Springs	209	209	209	209	209	209	209	209	209	209	209	209	209	209	209
7	Coyote Springs 2	249	249	257	245	259	272	271	262	248	245	245	240	118	246	243
8	Evergreen Biopower Cogen	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50
9	Ferndale Cogeneration Station	235	235	236	238	241	243	243	242	240	239	239	0	236	235	218
10	Georgia-Pacific (Toledo)	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
11	Georgia-Pacific Paper (Camas)	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	2.60	8.30	10.00	9.23
12	Georgia-Pacific Paper (Wauna)	12.4	12.4	14.4	18.4	19.6	22.6	24.0	23.0	23.0	22.0	22.0	19.1	14.2	18.1	19.2
13	Grays Harbor Paper	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
14	Haleywest L.L.C	4.54	4.54	4.15	4.58	4.39	4.41	3.96	4.02	4.19	3.73	3.73	4.24	4.29	3.86	4.20
15	Hampton Lumber Mill (Darringto	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20
16	Hermiston Generation Project	435	435	404	420	458	465	426	460	454	44.8	0	402	408	431	399
17	Hermiston Power Project	620	620	620	620	620	620	620	620	0	620	620	620	620	620	567
18	Intenational Paper Energy Cente	22.0	22.0	16.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	21.5
19	Intenational Paper Energy Center 2	8.46	8.46	6.15	8.46	8.46	8.46	8.46	8.46	8.46	8.46	8.46	8.46	8.46	8.46	8.27
20	Intenational Paper Energy Center 1	13.5	13.5	9.85	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.2
21	InterFor Pacific - Gilchrist	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
22	Lakeview Biomass	19.6	19.6	19.6	18.6	18.6	17.5	16.0	17.5	13.4	18.6	18.6	19.6	17.0	19.6	18.0
23	Lancaster	230	230	238	234	238	254	253	239	237	154	154	72.9	148	228	210
24	Longview Fibre Paper & Packagi	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0
25	Longview Fibre Paper & Packaging 1	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0
26	Longview Fibre Paper & Packaging 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	Macks Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	March Point Cogeneration	124	124	124	124	124	124	124	124	124	124	124	124	124	124	124
29	Metro West Point	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
30	Port Townsend Mill	6.70	6.70	6.70	6.70	6.70	6.70	6.70	6.70	6.70	6.70	6.70	6.70	6.70	6.70	6.70
31	Port Townsend Mill 1	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
32	Port Townsend Mill 2	6.51	6.51	6.51	6.51	6.51	6.51	6.51	6.51	6.51	6.51	6.51	6.51	6.51	6.51	6.51
33	Potlatch	64.4	64.4	57.8	58.2	64.4	64.0	62.7	62.0	54.7	57.4	57.4	62.7	56.7	62.8	60.6
34	Potlach NG 1	9.63	9.63	8.64	8.70	9.63	9.55	9.36	9.25	8.17	8.57	8.57	9.36	8.47	9.38	9.06
35	Potlach Wood Waste 1	54.8	54.8	49.2	49.5	54.8	54.4	53.3	52.7	46.5	48.8	48.8	53.3	48.2	53.4	51.6
36	Rough & Ready Lumber	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
37	Rupert Cogeneration Facility	7.55	7.55	8.01	9.42	9.40	8.65	8.25	9.05	9.12	7.70	7.70	7.53	7.97	8.05	8.39
38	SDS Lumber	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.97	1.00	1.00	1.00	1.00	1.00	1.00	1.00
39	Seneca Sawmill Cogen	12.3	12.3	11.8	12.3	12.0	11.8	12.1	12.2	12.1	5.50	5.50	3.60	5.50	12.1	10.3
40	Sierra Pacific - Abberdeen	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
41	Sierra Pacific - Burlington	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0
42	Simplot Pocatello	9.75	9.75	9.32	8.88	8.12	8.12	7.81	9.22	8.57	8.30	8.30	7.47	4.06	8.57	8.18
43	Simpson Tacoma CoGen	44.9	44.9	44.1	40.9	47.2	48.7	49.6	48.9	40.4	41.1	41.1	35.5	42.5	47.6	44.3
44	SP Newsprint cogen	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104
45	SP Newsprint cogen 1	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2
46	SP Newsprint Wood Waste	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8
47	Sumas	120	120	121	124	126	127	127	126	126	125	125	77.8	121	120	120
48	Sumas Compressor Station	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95
49	Tamarack	4.53	4.53	4.45	3.60	4.09	4.00	3.86	3.93	3.49	3.42	3.42	3.11	3.99	4.40	3.91
50	TASCO - Nampa	0.20	0.20	0.16	0.06	0	0	0	0.02	0.04	0.03	0.03	0	0.05	0.16	0.06
51	TASCO - Twin Falls	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
52	Thompson River Co-Gen	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53	Vaagen Bros.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54	Wah Chang Cogen	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8
55	Warm Springs Cogen	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20

Table A-12: Regional: Cogeneration Resources

Operating Year 2016

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
56	Weyerhaeuser Longview	35.7	35.7	35.1	32.5	37.5	38.7	39.5	38.8	32.1	32.7	32.7	28.2	33.8	37.8	35.2
57	Weyerhaeuser Longview 2	18.7	18.7	18.4	17.1	19.7	20.3	20.7	20.4	16.8	17.2	17.2	14.8	17.8	19.9	18.5
58	Weyerhauser Longview 1	16.9	16.9	16.6	15.4	17.8	18.4	18.7	18.4	15.2	15.5	15.5	13.4	16.0	17.9	16.7
Total Cogeneration Resources																
59	Cooperative	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
60	Direct Service Industry	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5
61	Federal Entities	12.4	12.4	14.4	18.4	19.6	22.6	24.0	23.0	23.0	0	0	0	0	0	13.1
62	Investor Owned Utilities	1743	1743	1722	1728	1794	1833	1789	1797	1767	1272	1220	1254	1489	1730	1658
63	Marketer	846	846	839	843	848	849	850	849	223	843	843	839	844	848	793
64	Municipality	85.7	85.7	84.4	81.7	87.7	89.0	90.2	89.6	81.0	86.1	86.1	77.2	83.6	97.2	86.1
65	Other	19.6	19.6	19.6	18.6	18.6	17.5	16.0	17.5	13.4	18.6	18.6	19.6	17.0	19.6	18.0
66	Public Utility District	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	33.2	33.2	31.7	29.3	31.3	25.3
67	**Total**	**2748**	**2748**	**2721**	**2731**	**2809**	**2853**	**2810**	**2818**	**2149**	**2272**	**2220**	**2241**	**2483**	**2746**	**2612**

Table A-12: Regional: Cogeneration Resources

Operating Year 2017

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Cogeneration Resources															
1	Biomass One	14.9	14.9	14.4	14.9	14.4	14.9	14.9	13.4	14.9	14.4	14.4	14.9	14.4	14.9	14.6
2	Boise Cascade Medford	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	Cogen Co	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63
4	Cogen Co 2	5.95	5.95	5.76	5.95	5.76	5.95	5.95	5.38	5.95	7.20	0	5.95	5.76	5.95	5.67
5	Cosmopolis Specialty Fibres	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
6	Coyote Springs	209	209	209	209	209	209	209	209	209	209	209	209	209	209	209
7	Coyote Springs 2	249	249	257	245	259	272	271	262	248	245	245	240	118	246	243
8	Evergreen Biopower Cogen	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50
9	Ferndale Cogeneration Station	235	235	236	238	241	243	243	242	240	239	239	0	236	235	218
10	Georgia-Pacific (Toledo)	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
11	Georgia-Pacific Paper (Camas)	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
12	Georgia-Pacific Paper (Wauna)	12.4	12.4	14.4	18.4	19.6	22.6	24.0	23.0	23.0	22.0	22.0	19.1	14.2	18.1	19.2
13	Grays Harbor Paper	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
14	Haleywest L.L.C	4.54	4.54	4.15	4.58	4.39	4.41	3.96	4.02	4.19	3.73	3.73	4.24	4.29	3.86	4.20
15	Hampton Lumber Mill (Darringto	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20
16	Hermiston Generation Project	436	436	442	413	421	467	429	461	337	418	0	395	406	399	401
17	Hermiston Power Project	620	620	620	620	620	620	620	620	0	620	620	620	620	620	567
18	Intenational Paper Energy Cente	22.0	22.0	16.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	21.5
19	Intenational Paper Energy Center 2	8.46	8.46	6.15	8.46	8.46	8.46	8.46	8.46	8.46	8.46	8.46	8.46	8.46	8.46	8.27
20	Intenational Paper Energy Center 1	13.5	13.5	9.85	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.2
21	InterFor Pacific - Gilchrist	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
22	Lakeview Biomass	19.6	19.6	19.6	18.6	18.6	17.5	16.0	17.5	13.4	18.6	18.6	19.6	17.0	19.6	18.0
23	Lancaster	230	230	238	234	238	254	253	239	237	154	154	117	111	228	211
24	Longview Fibre Paper & Packagi	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0
25	Longview Fibre Paper & Packaging 1	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0
26	Longview Fibre Paper & Packaging 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	Macks Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	March Point Cogeneration	124	124	124	124	124	124	124	124	124	124	124	124	124	124	124
29	Metro West Point	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
30	Port Townsend Mill	6.70	6.70	6.70	6.70	6.70	6.70	6.70	6.70	6.70	6.70	6.70	6.70	6.70	6.70	6.70
31	Port Townsend Mill 1	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
32	Port Townsend Mill 2	6.51	6.51	6.51	6.51	6.51	6.51	6.51	6.51	6.51	6.51	6.51	6.51	6.51	6.51	6.51
33	Potlatch	64.4	64.4	57.8	58.2	64.4	64.0	62.7	62.0	54.7	57.4	57.4	62.7	56.7	62.8	60.6
34	Potlach NG 1	9.63	9.63	8.64	8.70	9.63	9.55	9.36	9.25	8.17	8.57	8.57	9.36	8.47	9.38	9.06
35	Potlach Wood Waste 1	54.8	54.8	49.2	49.5	54.8	54.4	53.3	52.7	46.5	48.8	48.8	53.3	48.2	53.4	51.6
36	Rough & Ready Lumber	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
37	Rupert Cogeneration Facility	7.55	7.55	8.01	9.42	9.40	8.65	8.25	9.05	9.12	7.70	7.70	7.53	7.97	8.05	8.39
38	SDS Lumber	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
39	Seneca Sawmill Cogen	12.3	12.3	11.8	12.3	12.0	11.8	12.1	12.2	12.1	5.50	5.50	3.60	5.50	12.1	10.3
40	Sierra Pacific - Abberdeen	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
41	Sierra Pacific - Burlington	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0
42	Simplot Pocatello	9.75	9.75	9.32	8.88	8.12	8.12	7.81	9.22	8.57	8.30	8.30	7.47	4.06	8.57	8.18
43	Simpson Tacoma CoGen	44.9	44.9	44.1	40.9	47.2	48.7	49.6	48.9	40.4	41.1	41.1	35.5	42.5	47.6	44.3
44	SP Newsprint cogen	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104
45	SP Newsprint cogen 1	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2
46	SP Newsprint Wood Waste	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8
47	Sumas	120	120	121	124	126	127	127	126	126	125	125	77.8	121	120	120
48	Sumas Compressor Station	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95
49	Tamarack	4.53	4.53	4.45	3.60	4.09	4.00	3.86	3.93	3.49	3.42	3.42	3.11	3.99	4.40	3.91
50	TASCO - Nampa	0.20	0.20	0.16	0.06	0	0	0	0.02	0.04	0.03	0.03	0	0.05	0.16	0.06
51	TASCO - Twin Falls	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
52	Thompson River Co-Gen	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53	Vaagen Bros.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54	Wah Chang Cogen	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8
55	Warm Springs Cogen	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20

Table A-12: Regional: Cogeneration Resources

Operating Year 2017

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
56	Weyerhaeuser Longview	35.7	35.7	35.1	32.5	37.5	38.7	39.5	38.8	32.1	32.7	32.7	28.2	33.8	37.8	35.2
57	Weyerhaeuser Longview 2	18.7	18.7	18.4	17.1	19.7	20.3	20.7	20.4	16.8	17.2	17.2	14.8	17.8	19.9	18.5
58	Weyerhauser Longview 1	16.9	16.9	16.6	15.4	17.8	18.4	18.7	18.4	15.2	15.5	15.5	13.4	16.0	17.9	16.7
	Total Cogeneration Resources															
59	Cooperative	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
60	Direct Service Industry	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5
61	Federal Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
62	Investor Owned Utilities	1744	1744	1760	1722	1757	1834	1792	1797	1650	1645	1220	1299	1452	1698	1661
63	Marketer	846	846	839	843	848	849	850	849	223	843	843	839	844	848	792
64	Municipality	91.9	91.9	91.6	90.9	97.5	100	102	101	92.4	86.1	86.1	77.2	83.6	97.2	92.6
65	Other	19.6	19.6	19.6	18.6	18.6	17.5	16.0	17.5	13.4	18.6	18.6	19.6	17.0	19.6	18.0
66	Public Utility District	28.4	28.4	29.4	31.4	32.0	33.5	34.2	33.7	33.7	33.2	33.2	31.7	29.3	31.3	31.8
67	**Total**	**2749**	**2749**	**2759**	**2725**	**2772**	**2854**	**2813**	**2818**	**2032**	**2646**	**2220**	**2285**	**2445**	**2714**	**2615**

Table A-12: Regional: Cogeneration Resources

Operating Year 2018

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Cogeneration Resources															
1	Biomass One	14.9	14.9	14.4	14.9	14.4	14.9	14.9	13.4	14.9	14.4	14.4	14.9	14.4	14.9	14.6
2	Boise Cascade Medford	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	Cogen Co	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63
4	Cogen Co 2	5.95	5.95	5.76	5.95	5.76	5.95	5.95	5.38	5.95	7.20	0	5.95	5.76	5.95	5.67
5	Cosmopolis Specialty Fibres	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
6	Coyote Springs	209	209	209	209	209	209	209	209	209	209	209	209	209	209	209
7	Coyote Springs 2	249	249	257	245	259	272	271	262	248	245	245	240	118	246	243
8	Evergreen Biopower Cogen	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50
9	Ferndale Cogeneration Station	235	235	236	238	241	243	243	242	240	239	239	0	236	235	218
10	Georgia-Pacific (Toledo)	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
11	Georgia-Pacific Paper (Camas)	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	6.80	10.00	10.00	9.73
12	Georgia-Pacific Paper (Wauna)	12.4	12.4	14.4	18.4	19.6	22.6	24.0	23.0	23.0	22.0	22.0	19.1	14.2	18.1	19.2
13	Grays Harbor Paper	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
14	Haleywest L.L.C	4.54	4.54	4.15	4.58	4.39	4.41	3.96	4.02	4.19	3.73	3.73	4.24	4.29	3.86	4.20
15	Hampton Lumber Mill (Darringto	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20
16	Hermiston Generation Project	436	436	442	413	458	466	427	461	335	412	0	412	409	431	408
17	Hermiston Power Project	620	620	620	620	620	620	620	620	0	620	620	620	620	620	567
18	Intenational Paper Energy Cente	22.0	22.0	16.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	21.5
19	Intenational Paper Energy Center 2	8.46	8.46	6.15	8.46	8.46	8.46	8.46	8.46	8.46	8.46	8.46	8.46	8.46	8.46	8.27
20	Intenational Paper Energy Center 1	13.5	13.5	9.85	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.2
21	InterFor Pacific - Gilchrist	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
22	Lakeview Biomass	19.6	19.6	19.6	18.6	18.6	17.5	16.0	17.5	13.4	18.6	18.6	19.6	17.0	19.6	18.0
23	Lancaster	230	230	238	234	238	254	253	239	237	154	154	50.8	148	228	208
24	Longview Fibre Paper & Packagi	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0
25	Longview Fibre Paper & Packaging 1	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0
26	Longview Fibre Paper & Packaging 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	Macks Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	March Point Cogeneration	124	124	124	124	124	124	124	124	124	124	124	124	124	124	124
29	Metro West Point	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
30	Port Townsend Mill	6.70	6.70	6.70	6.70	6.70	6.70	6.70	6.70	6.70	6.70	6.70	6.70	6.70	6.70	6.70
31	Port Townsend Mill 1	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
32	Port Townsend Mill 2	6.51	6.51	6.51	6.51	6.51	6.51	6.51	6.51	6.51	6.51	6.51	6.51	6.51	6.51	6.51
33	Potlatch	64.4	64.4	57.8	58.2	64.4	64.0	62.7	62.0	54.7	57.4	57.4	62.7	56.7	62.8	60.6
34	Potlach NG 1	9.63	9.63	8.64	8.70	9.63	9.55	9.36	9.25	8.17	8.57	8.57	9.36	8.47	9.38	9.06
35	Potlach Wood Waste 1	54.8	54.8	49.2	49.5	54.8	54.4	53.3	52.7	46.5	48.8	48.8	53.3	48.2	53.4	51.6
36	Rough & Ready Lumber	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
37	Rupert Cogeneration Facility	7.55	7.55	8.01	9.42	9.40	8.65	8.25	9.05	9.12	7.70	7.70	7.53	7.97	8.05	8.39
38	SDS Lumber	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
39	Seneca Sawmill Cogen	12.3	12.3	11.8	12.3	12.0	11.8	12.1	12.2	12.1	5.50	5.50	3.60	5.50	12.1	10.3
40	Sierra Pacific - Abberdeen	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
41	Sierra Pacific - Burlington	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0
42	Simplot Pocatello	9.75	9.75	9.32	8.88	8.12	8.12	7.81	9.22	8.57	8.30	8.30	7.47	4.06	8.57	8.18
43	Simpson Tacoma CoGen	44.9	44.9	44.1	40.9	47.2	48.7	49.6	48.9	40.4	41.1	41.1	35.5	42.5	47.6	44.3
44	SP Newsprint cogen	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104
45	SP Newsprint cogen 1	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2
46	SP Newsprint Wood Waste	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8
47	Sumas	120	120	121	124	126	127	127	126	126	125	125	77.8	121	120	120
48	Sumas Compressor Station	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95
49	Tamarack	4.53	4.53	4.45	3.60	4.09	4.00	3.86	3.93	3.49	3.42	3.42	3.11	3.99	4.40	3.91
50	TASCO - Nampa	0.20	0.20	0.16	0.06	0	0	0	0.02	0.04	0.03	0.03	0	0.05	0.16	0.06
51	TASCO - Twin Falls	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
52	Thompson River Co-Gen	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53	Vaagen Bros.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54	Wah Chang Cogen	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8
55	Warm Springs Cogen	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20

Table A-12: Regional: Cogeneration Resources

Operating Year 2018

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
56	Weyerhaeuser Longview	35.7	35.7	35.1	32.5	37.5	38.7	39.5	38.8	32.1	32.7	32.7	28.2	33.8	37.8	35.2
57	Weyerhaeuser Longview 2	18.7	18.7	18.4	17.1	19.7	20.3	20.7	20.4	16.8	17.2	17.2	14.8	17.8	19.9	18.5
58	Weyerhauser Longview 1	16.9	16.9	16.6	15.4	17.8	18.4	18.7	18.4	15.2	15.5	15.5	13.4	16.0	17.9	16.7
Total Cogeneration Resources																
59	Cooperative	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
60	Direct Service Industry	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5
61	Federal Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
62	Investor Owned Utilities	1744	1744	1760	1722	1794	1834	1789	1798	1648	1639	1220	1246	1492	1731	1665
63	Marketer	846	846	839	843	848	849	850	849	223	843	843	839	844	848	792
64	Municipality	91.9	91.9	91.6	90.9	97.5	100	102	101	92.4	86.1	86.1	77.2	83.6	97.2	92.6
65	Other	19.6	19.6	19.6	18.6	18.6	17.5	16.0	17.5	13.4	18.6	18.6	19.6	17.0	19.6	18.0
66	Public Utility District	28.4	28.4	29.4	31.4	32.0	33.5	34.2	33.7	33.7	33.2	33.2	31.7	29.3	31.3	31.8
67	**Total**	**2749**	**2749**	**2759**	**2725**	**2810**	**2854**	**2811**	**2819**	**2030**	**2639**	**2220**	**2233**	**2486**	**2747**	**2619**

Table A-12: Regional: Cogeneration Resources

Operating Year 2019

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Cogeneration Resources															
1	Biomass One	14.9	14.9	14.4	14.9	14.4	14.9	14.9	13.4	14.9	14.4	14.4	14.9	14.4	14.9	14.6
2	Boise Cascade Medford	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	Cogen Co	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63
4	Cogen Co 2	5.95	5.95	5.76	5.95	5.76	5.95	5.95	5.38	5.95	7.20	0	5.95	5.76	5.95	5.67
5	Cosmopolis Specialty Fibres	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
6	Coyote Springs	209	209	209	209	209	209	209	209	209	209	209	209	209	209	209
7	Coyote Springs 2	249	249	257	245	259	272	271	262	248	245	245	180	65.8	246	233
8	Evergreen Biopower Cogen	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50
9	Ferndale Cogeneration Station	235	235	236	238	241	243	243	242	240	239	239	0	236	235	218
10	Georgia-Pacific (Toledo)	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
11	Georgia-Pacific Paper (Camas)	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
12	Georgia-Pacific Paper (Wauna)	12.4	12.4	14.4	18.4	19.6	22.6	24.0	23.0	23.0	22.0	22.0	19.1	14.2	18.1	19.2
13	Grays Harbor Paper	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
14	Haleywest L.L.C	4.54	4.54	4.15	4.58	4.39	4.41	3.96	4.02	4.19	3.73	3.73	4.24	4.29	3.86	4.20
15	Hampton Lumber Mill (Darringto	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20
16	Hermiston Generation Project	435	435	404	420	458	465	426	460	454	44.8	0	402	408	431	399
17	Hermiston Power Project	620	620	620	620	620	620	620	620	0	620	620	620	620	620	567
18	Intenational Paper Energy Cente	22.0	22.0	16.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	21.5
19	Intenational Paper Energy Center 2	8.46	8.46	6.15	8.46	8.46	8.46	8.46	8.46	8.46	8.46	8.46	8.46	8.46	8.46	8.27
20	Intenational Paper Energy Center 1	13.5	13.5	9.85	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.2
21	InterFor Pacific - Gilchrist	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
22	Lakeview Biomass	19.6	19.6	19.6	18.6	18.6	17.5	16.0	17.5	13.4	18.6	18.6	19.6	17.0	19.6	18.0
23	Lancaster	230	230	238	234	238	254	253	239	237	154	154	72.9	148	228	210
24	Longview Fibre Paper & Packagi	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0
25	Longview Fibre Paper & Packaging 1	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0
26	Longview Fibre Paper & Packaging 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	Macks Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	March Point Cogeneration	124	124	124	124	124	124	124	124	124	124	124	124	124	124	124
29	Metro West Point	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
30	Port Townsend Mill	6.70	6.70	6.70	6.70	6.70	6.70	6.70	6.70	6.70	6.70	6.70	6.70	6.70	6.70	6.70
31	Port Townsend Mill 1	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
32	Port Townsend Mill 2	6.51	6.51	6.51	6.51	6.51	6.51	6.51	6.51	6.51	6.51	6.51	6.51	6.51	6.51	6.51
33	Potlatch	64.4	64.4	57.8	58.2	64.4	64.0	62.7	62.0	54.7	57.4	57.4	62.7	56.7	62.8	60.6
34	Potlach NG 1	9.63	9.63	8.64	8.70	9.63	9.55	9.36	9.25	8.17	8.57	8.57	9.36	8.47	9.38	9.06
35	Potlach Wood Waste 1	54.8	54.8	49.2	49.5	54.8	54.4	53.3	52.7	46.5	48.8	48.8	53.3	48.2	53.4	51.6
36	Rough & Ready Lumber	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
37	Rupert Cogeneration Facility	7.55	7.55	8.01	9.42	9.40	8.65	8.25	9.05	9.12	7.70	7.70	7.53	7.97	8.05	8.39
38	SDS Lumber	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
39	Seneca Sawmill Cogen	12.3	12.3	11.8	12.3	12.0	11.8	12.1	12.2	12.1	5.50	5.50	3.60	5.50	12.1	10.3
40	Sierra Pacific - Abberdeen	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
41	Sierra Pacific - Burlington	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0
42	Simplot Pocatello	9.75	9.75	9.32	8.88	8.12	8.12	7.81	9.22	8.57	8.30	8.30	7.47	4.06	8.57	8.18
43	Simpson Tacoma CoGen	44.9	44.9	44.1	40.9	47.2	48.7	49.6	48.9	40.4	41.1	41.1	35.5	42.5	47.6	44.3
44	SP Newsprint cogen	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104
45	SP Newsprint cogen 1	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2
46	SP Newsprint Wood Waste	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8
47	Sumas	120	120	121	124	126	127	127	126	126	125	125	77.8	121	120	120
48	Sumas Compressor Station	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95
49	Tamarack	4.53	4.53	4.45	3.60	4.09	4.00	3.86	3.93	3.49	3.42	3.42	3.11	3.99	4.40	3.91
50	TASCO - Nampa	0.20	0.20	0.16	0.06	0	0	0	0.02	0.04	0.03	0.03	0	0.05	0.16	0.06
51	TASCO - Twin Falls	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
52	Thompson River Co-Gen	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53	Vaagen Bros.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54	Wah Chang Cogen	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8
55	Warm Springs Cogen	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20

Table A-12: Regional: Cogeneration Resources

Operating Year 2019

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
56	Weyerhaeuser Longview	35.7	35.7	35.1	32.5	37.5	38.7	39.5	38.8	32.1	32.7	32.7	28.2	33.8	37.8	35.2
57	Weyerhaeuser Longview 2	18.7	18.7	18.4	17.1	19.7	20.3	20.7	20.4	16.8	17.2	17.2	14.8	17.8	19.9	18.5
58	Weyerhauser Longview 1	16.9	16.9	16.6	15.4	17.8	18.4	18.7	18.4	15.2	15.5	15.5	13.4	16.0	17.9	16.7
Total Cogeneration Resources																
59	Cooperative	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
60	Direct Service Industry	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5
61	Federal Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
62	Investor Owned Utilities	1743	1743	1722	1728	1794	1833	1789	1797	1767	1272	1220	1202	1438	1730	1649
63	Marketer	846	846	839	843	848	849	850	849	223	843	843	839	844	848	792
64	Municipality	91.9	91.9	91.6	90.9	97.5	100	102	101	92.4	86.1	86.1	77.2	83.6	97.2	92.6
65	Other	19.6	19.6	19.6	18.6	18.6	17.5	16.0	17.5	13.4	18.6	18.6	19.6	17.0	19.6	18.0
66	Public Utility District	28.4	28.4	29.4	31.4	32.0	33.5	34.2	33.7	33.7	33.2	33.2	31.7	29.3	31.3	31.8
67	**Total**	**2748**	**2748**	**2721**	**2731**	**2809**	**2853**	**2810**	**2818**	**2149**	**2272**	**2220**	**2188**	**2432**	**2746**	**2603**

Table A-12: Regional: Cogeneration Resources

Operating Year 2020

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Cogeneration Resources															
1	Biomass One	14.9	14.9	14.4	14.9	14.4	14.9	14.9	13.9	14.9	14.4	14.4	14.9	14.4	14.9	14.7
2	Boise Cascade Medford	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	Cogen Co	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63
4	Cogen Co 2	5.95	5.95	5.76	5.95	5.76	5.95	5.95	5.57	5.95	7.20	0	5.95	5.76	5.95	5.68
5	Cosmopolis Specialty Fibres	14.0	14.0	14.0	14.0	14.0	14.0	14.0	13.5	14.0	14.0	14.0	14.0	14.0	14.0	14.0
6	Coyote Springs	209	209	209	209	209	209	209	209	209	209	209	209	209	209	209
7	Coyote Springs 2	249	249	257	245	259	272	271	262	248	245	245	240	142	246	245
8	Evergreen Biopower Cogen	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50
9	Ferndale Cogeneration Station	235	235	236	238	241	243	243	242	240	239	239	0	236	235	218
10	Georgia-Pacific (Toledo)	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
11	Georgia-Pacific Paper (Camas)	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	6.80	10.00	10.00	9.73
12	Georgia-Pacific Paper (Wauna)	12.4	12.4	14.4	18.4	19.6	22.6	24.0	23.0	23.0	22.0	22.0	19.1	14.2	18.1	19.2
13	Grays Harbor Paper	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
14	Haleywest L.L.C	4.54	4.54	4.15	4.58	4.39	4.41	3.96	4.02	4.19	3.73	3.73	4.24	4.29	3.86	4.20
15	Hampton Lumber Mill (Darringto	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20
16	Hermiston Generation Project	436	436	442	413	421	467	429	461	337	418	0	395	406	399	401
17	Hermiston Power Project	620	620	620	620	620	620	620	620	0	620	620	620	620	620	567
18	Intenational Paper Energy Cente	22.0	22.0	16.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	21.5
19	Intenational Paper Energy Center 2	8.46	8.46	6.15	8.46	8.46	8.46	8.46	8.46	8.46	8.46	8.46	8.46	8.46	8.46	8.27
20	Intenational Paper Energy Center 1	13.5	13.5	9.85	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.2
21	InterFor Pacific - Gilchrist	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
22	Lakeview Biomass	19.6	19.6	19.6	18.6	18.6	17.5	16.0	17.5	13.4	18.6	18.6	19.6	17.0	19.6	18.0
23	Lancaster	230	230	238	234	238	254	253	239	237	154	154	109	119	228	211
24	Longview Fibre Paper & Packagi	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0
25	Longview Fibre Paper & Packaging 1	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0
26	Longview Fibre Paper & Packaging 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	Macks Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	March Point Cogeneration	124	124	124	124	124	124	124	124	124	124	124	124	124	124	124
29	Metro West Point	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
30	Port Townsend Mill	6.70	6.70	6.70	6.70	6.70	6.70	6.70	6.70	6.70	6.70	6.70	6.70	6.70	6.70	6.70
31	Port Townsend Mill 1	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
32	Port Townsend Mill 2	6.51	6.51	6.51	6.51	6.51	6.51	6.51	6.51	6.51	6.51	6.51	6.51	6.51	6.51	6.51
33	Potlatch	64.4	64.4	57.8	58.2	64.4	64.0	62.7	62.0	54.7	57.4	57.4	62.7	56.7	62.8	60.6
34	Potlach NG 1	9.63	9.63	8.64	8.70	9.63	9.55	9.36	9.25	8.17	8.57	8.57	9.36	8.47	9.38	9.06
35	Potlach Wood Waste 1	54.8	54.8	49.2	49.5	54.8	54.4	53.3	52.7	46.5	48.8	48.8	53.3	48.2	53.4	51.6
36	Rough & Ready Lumber	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
37	Rupert Cogeneration Facility	7.55	7.55	8.01	9.42	9.40	8.65	8.25	9.05	9.12	7.70	7.70	7.53	7.97	8.05	8.39
38	SDS Lumber	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.97	1.00	1.00	1.00	1.00	1.00	1.00	1.00
39	Seneca Sawmill Cogen	12.3	12.3	11.8	12.3	12.0	11.8	12.1	12.2	12.1	5.50	5.50	3.60	5.50	12.1	10.3
40	Sierra Pacific - Abberdeen	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
41	Sierra Pacific - Burlington	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0
42	Simplot Pocatello	9.75	9.75	9.32	8.88	8.12	8.12	7.81	9.22	8.57	8.30	8.30	7.47	4.06	8.57	8.18
43	Simpson Tacoma CoGen	44.9	44.9	44.1	40.9	47.2	48.7	49.6	48.9	40.4	41.1	41.1	35.5	42.5	47.6	44.3
44	SP Newsprint cogen	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104
45	SP Newsprint cogen 1	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2
46	SP Newsprint Wood Waste	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8
47	Sumas	120	120	121	124	126	127	127	126	126	125	125	77.8	121	120	120
48	Sumas Compressor Station	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95
49	Tamarack	4.53	4.53	4.45	3.60	4.09	4.00	3.86	3.93	3.49	3.42	3.42	3.11	3.99	4.40	3.91
50	TASCO - Nampa	0.20	0.20	0.16	0.06	0	0	0	0.02	0.04	0.03	0.03	0	0.05	0.16	0.06
51	TASCO - Twin Falls	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
52	Thompson River Co-Gen	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53	Vaagen Bros.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54	Wah Chang Cogen	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8
55	Warm Springs Cogen	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20

Table A-12: Regional: Cogeneration Resources

Operating Year 2020

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
56	Weyerhaeuser Longview	35.7	35.7	35.1	32.5	37.5	38.7	39.5	38.8	32.1	32.7	32.7	28.2	33.8	37.8	35.2
57	Weyerhaeuser Longview 2	18.7	18.7	18.4	17.1	19.7	20.3	20.7	20.4	16.8	17.2	17.2	14.8	17.8	19.9	18.5
58	Weyerhauser Longview 1	16.9	16.9	16.6	15.4	17.8	18.4	18.7	18.4	15.2	15.5	15.5	13.4	16.0	17.9	16.7
Total Cogeneration Resources																
59	Cooperative	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
60	Direct Service Industry	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5
61	Federal Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
62	Investor Owned Utilities	1744	1744	1760	1722	1757	1834	1792	1798	1650	1645	1220	1288	1483	1698	1663
63	Marketer	846	846	839	843	848	849	850	849	223	843	843	839	844	848	793
64	Municipality	91.9	91.9	91.6	90.9	97.5	100	102	101	92.4	86.1	86.1	77.2	83.6	97.2	92.7
65	Other	19.6	19.6	19.6	18.6	18.6	17.5	16.0	17.5	13.4	18.6	18.6	19.6	17.0	19.6	18.0
66	Public Utility District	28.4	28.4	29.4	31.4	32.0	33.5	34.2	33.7	33.7	33.2	33.2	31.7	29.3	31.3	31.8
67	**Total**	**2749**	**2749**	**2759**	**2725**	**2772**	**2854**	**2813**	**2819**	**2032**	**2646**	**2220**	**2275**	**2476**	**2714**	**2617**

Table A-12: Regional: Cogeneration Resources

Operating Year 2021

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Cogeneration Resources															
1	Biomass One	14.9	14.9	14.4	14.9	14.4	14.9	14.9	13.4	14.9	14.4	14.4	14.9	14.4	14.9	14.6
2	Boise Cascade Medford	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	Cogen Co	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63
4	Cogen Co 2	5.95	5.95	5.76	5.95	5.76	5.95	5.95	5.38	5.95	7.20	0	5.95	5.76	5.95	5.67
5	Cosmopolis Specialty Fibres	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
6	Coyote Springs	209	209	209	209	209	209	209	209	209	209	209	209	209	209	209
7	Coyote Springs 2	249	249	257	245	259	272	271	262	248	245	245	240	118	246	243
8	Evergreen Biopower Cogen	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50
9	Ferndale Cogeneration Station	235	235	236	238	241	243	243	242	240	239	239	0	236	235	218
10	Georgia-Pacific (Toledo)	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
11	Georgia-Pacific Paper (Camas)	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
12	Georgia-Pacific Paper (Wauna)	12.4	12.4	14.4	18.4	19.6	22.6	24.0	23.0	23.0	22.0	22.0	19.1	14.2	18.1	19.2
13	Grays Harbor Paper	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
14	Haleywest L.L.C	4.54	4.54	4.15	4.58	4.39	4.41	3.96	4.02	4.19	3.73	3.73	4.24	4.29	3.86	4.20
15	Hampton Lumber Mill (Darringto	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20
16	Hermiston Generation Project	436	436	442	413	458	466	427	461	335	412	0	412	409	431	408
17	Hermiston Power Project	620	620	620	620	620	620	620	620	0	620	620	620	620	620	567
18	Intenational Paper Energy Cente	22.0	22.0	16.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	21.5
19	Intenational Paper Energy Center 2	8.46	8.46	6.15	8.46	8.46	8.46	8.46	8.46	8.46	8.46	8.46	8.46	8.46	8.46	8.27
20	Intenational Paper Energy Center 1	13.5	13.5	9.85	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.2
21	InterFor Pacific - Gilchrist	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
22	Lakeview Biomass	19.6	19.6	19.6	18.6	18.6	17.5	16.0	17.5	13.4	18.6	18.6	19.6	17.0	19.6	18.0
23	Lancaster	230	230	238	234	238	254	253	239	237	154	154	87.5	148	228	212
24	Longview Fibre Paper & Packagi	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0
25	Longview Fibre Paper & Packaging 1	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0
26	Longview Fibre Paper & Packaging 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	Macks Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	March Point Cogeneration	124	124	124	124	124	124	124	124	124	124	124	124	124	124	124
29	Metro West Point	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
30	Port Townsend Mill	6.70	6.70	6.70	6.70	6.70	6.70	6.70	6.70	6.70	6.70	6.70	6.70	6.70	6.70	6.70
31	Port Townsend Mill 1	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
32	Port Townsend Mill 2	6.51	6.51	6.51	6.51	6.51	6.51	6.51	6.51	6.51	6.51	6.51	6.51	6.51	6.51	6.51
33	Potlatch	64.4	64.4	57.8	58.2	64.4	64.0	62.7	62.0	54.7	57.4	57.4	62.7	56.7	62.8	60.6
34	Potlach NG 1	9.63	9.63	8.64	8.70	9.63	9.55	9.36	9.25	8.17	8.57	8.57	9.36	8.47	9.38	9.06
35	Potlach Wood Waste 1	54.8	54.8	49.2	49.5	54.8	54.4	53.3	52.7	46.5	48.8	48.8	53.3	48.2	53.4	51.6
36	Rough & Ready Lumber	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
37	Rupert Cogeneration Facility	7.55	7.55	8.01	9.42	9.40	8.65	8.25	9.05	9.12	7.70	7.70	7.53	7.97	8.05	8.39
38	SDS Lumber	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
39	Seneca Sawmill Cogen	12.3	12.3	11.8	12.3	12.0	11.8	12.1	12.2	12.1	5.50	5.50	3.60	5.50	12.1	10.3
40	Sierra Pacific - Abberdeen	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
41	Sierra Pacific - Burlington	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0
42	Simplot Pocatello	9.75	9.75	9.32	8.88	8.12	8.12	7.81	9.22	8.57	8.30	8.30	7.47	4.06	8.57	8.18
43	Simpson Tacoma CoGen	44.9	44.9	44.1	40.9	47.2	48.7	49.6	48.9	40.4	41.1	41.1	35.5	42.5	47.6	44.3
44	SP Newsprint cogen	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104
45	SP Newsprint cogen 1	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2
46	SP Newsprint Wood Waste	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8
47	Sumas	120	120	121	124	126	127	127	126	126	125	125	77.8	121	120	120
48	Sumas Compressor Station	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95
49	Tamarack	4.53	4.53	4.45	3.60	4.09	4.00	3.86	3.93	3.49	3.42	3.42	3.11	3.99	4.40	3.91
50	TASCO - Nampa	0.20	0.20	0.16	0.06	0	0	0	0.02	0.04	0.03	0.03	0	0.05	0.16	0.06
51	TASCO - Twin Falls	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
52	Thompson River Co-Gen	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53	Vaagen Bros.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54	Wah Chang Cogen	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8
55	Warm Springs Cogen	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20

Table A-12: Regional: Cogeneration Resources

Operating Year 2021

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
56	Weyerhaeuser Longview	35.7	35.7	35.1	32.5	37.5	38.7	39.5	38.8	32.1	32.7	32.7	28.2	33.8	37.8	35.2
57	Weyerhaeuser Longview 2	18.7	18.7	18.4	17.1	19.7	20.3	20.7	20.4	16.8	17.2	17.2	14.8	17.8	19.9	18.5
58	Weyerhauser Longview 1	16.9	16.9	16.6	15.4	17.8	18.4	18.7	18.4	15.2	15.5	15.5	13.4	16.0	17.9	16.7
Total Cogeneration Resources																
59	Cooperative	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
60	Direct Service Industry	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5
61	Federal Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
62	Investor Owned Utilities	1744	1744	1760	1722	1794	1834	1789	1798	1648	1639	1220	1286	1492	1731	1668
63	Marketer	846	846	839	843	848	849	850	849	223	843	843	839	844	848	792
64	Municipality	91.9	91.9	91.6	90.9	97.5	100	102	101	92.4	86.1	86.1	77.2	83.6	97.2	92.6
65	Other	19.6	19.6	19.6	18.6	18.6	17.5	16.0	17.5	13.4	18.6	18.6	19.6	17.0	19.6	18.0
66	Public Utility District	28.4	28.4	29.4	31.4	32.0	33.5	34.2	33.7	33.7	33.2	33.2	31.7	29.3	31.3	31.8
67	**Total**	**2749**	**2749**	**2759**	**2725**	**2810**	**2854**	**2811**	**2819**	**2030**	**2639**	**2220**	**2273**	**2486**	**2747**	**2623**

Table A-12: Regional: Cogeneration Resources

Operating Year 2022

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Cogeneration Resources															
1	Biomass One	14.9	14.9	14.4	14.9	14.4	14.9	14.9	13.4	14.9	14.4	14.4	14.9	14.4	14.9	14.6
2	Boise Cascade Medford	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	Cogen Co	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63
4	Cogen Co 2	5.95	5.95	5.76	5.95	5.76	5.95	5.95	5.38	5.95	7.20	0	5.95	5.76	5.95	5.67
5	Cosmopolis Specialty Fibres	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
6	Coyote Springs	209	209	209	209	209	209	209	209	209	209	209	209	209	209	209
7	Coyote Springs 2	249	249	257	245	259	272	271	262	248	245	245	180	65.8	246	233
8	Evergreen Biopower Cogen	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50
9	Ferndale Cogeneration Station	235	235	236	238	241	243	243	242	240	239	239	0	236	235	218
10	Georgia-Pacific (Toledo)	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
11	Georgia-Pacific Paper (Camas)	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	6.80	10.00	10.00	9.73
12	Georgia-Pacific Paper (Wauna)	12.4	12.4	14.4	18.4	19.6	22.6	24.0	23.0	23.0	22.0	22.0	19.1	14.2	18.1	19.2
13	Grays Harbor Paper	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
14	Haleywest L.L.C	4.54	4.54	4.15	4.58	4.39	4.41	3.96	4.02	4.19	3.73	3.73	4.24	4.29	3.86	4.20
15	Hampton Lumber Mill (Darringto	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20
16	Hermiston Generation Project	435	435	404	420	458	465	426	460	454	44.8	0	402	408	431	399
17	Hermiston Power Project	620	620	620	620	620	620	620	620	0	620	620	620	620	620	567
18	Intenational Paper Energy Cente	22.0	22.0	16.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	21.5
19	Intenational Paper Energy Center 2	8.46	8.46	6.15	8.46	8.46	8.46	8.46	8.46	8.46	8.46	8.46	8.46	8.46	8.46	8.27
20	Intenational Paper Energy Center 1	13.5	13.5	9.85	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.2
21	InterFor Pacific - Gilchrist	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
22	Lakeview Biomass	19.6	19.6	19.6	18.6	18.6	17.5	16.0	17.5	13.4	18.6	18.6	19.6	17.0	19.6	18.0
23	Lancaster	230	230	238	234	238	254	253	239	237	154	154	72.9	148	228	210
24	Longview Fibre Paper & Packagi	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0
25	Longview Fibre Paper & Packaging 1	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0
26	Longview Fibre Paper & Packaging 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	Macks Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	March Point Cogeneration	124	124	124	124	124	124	124	124	124	124	124	124	124	124	124
29	Metro West Point	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
30	Port Townsend Mill	6.70	6.70	6.70	6.70	6.70	6.70	6.70	6.70	6.70	6.70	6.70	6.70	6.70	6.70	6.70
31	Port Townsend Mill 1	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
32	Port Townsend Mill 2	6.51	6.51	6.51	6.51	6.51	6.51	6.51	6.51	6.51	6.51	6.51	6.51	6.51	6.51	6.51
33	Potlatch	64.4	64.4	57.8	58.2	64.4	64.0	62.7	62.0	54.7	57.4	57.4	62.7	56.7	62.8	60.6
34	Potlach NG 1	9.63	9.63	8.64	8.70	9.63	9.55	9.36	9.25	8.17	8.57	8.57	9.36	8.47	9.38	9.06
35	Potlach Wood Waste 1	54.8	54.8	49.2	49.5	54.8	54.4	53.3	52.7	46.5	48.8	48.8	53.3	48.2	53.4	51.6
36	Rough & Ready Lumber	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
37	Rupert Cogeneration Facility	7.55	7.55	8.01	9.42	9.40	8.65	8.25	9.05	9.12	7.70	7.70	7.53	7.97	8.05	8.39
38	SDS Lumber	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
39	Seneca Sawmill Cogen	12.3	12.3	11.8	12.3	12.0	11.8	12.1	12.2	12.1	5.50	5.50	3.60	5.50	12.1	10.3
40	Sierra Pacific - Abberdeen	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
41	Sierra Pacific - Burlington	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0
42	Simplot Pocatello	9.75	9.75	9.32	8.88	8.12	8.12	7.81	9.22	8.57	8.30	8.30	7.47	4.06	8.57	8.18
43	Simpson Tacoma CoGen	44.9	44.9	44.1	40.9	47.2	48.7	49.6	48.9	40.4	41.1	41.1	35.5	42.5	47.6	44.3
44	SP Newsprint cogen	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104
45	SP Newsprint cogen 1	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2
46	SP Newsprint Wood Waste	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8
47	Sumas	120	120	121	124	126	127	127	126	126	125	125	77.8	121	120	120
48	Sumas Compressor Station	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95
49	Tamarack	4.53	4.53	4.45	3.60	4.09	4.00	3.86	3.93	3.49	3.42	3.42	3.11	3.99	4.40	3.91
50	TASCO - Nampa	0.20	0.20	0.16	0.06	0	0	0	0.02	0.04	0.03	0.03	0	0.05	0.16	0.06
51	TASCO - Twin Falls	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
52	Thompson River Co-Gen	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53	Vaagen Bros.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54	Wah Chang Cogen	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8
55	Warm Springs Cogen	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20

Table A-12: Regional: Cogeneration Resources

Operating Year 2022

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
56	Weyerhaeuser Longview	35.7	35.7	35.1	32.5	37.5	38.7	39.5	38.8	32.1	32.7	32.7	28.2	33.8	37.8	35.2
57	Weyerhaeuser Longview 2	18.7	18.7	18.4	17.1	19.7	20.3	20.7	20.4	16.8	17.2	17.2	14.8	17.8	19.9	18.5
58	Weyerhauser Longview 1	16.9	16.9	16.6	15.4	17.8	18.4	18.7	18.4	15.2	15.5	15.5	13.4	16.0	17.9	16.7
	Total Cogeneration Resources															
59	Cooperative	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
60	Direct Service Industry	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5
61	Federal Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
62	Investor Owned Utilities	1743	1743	1722	1728	1794	1833	1789	1797	1767	1272	1220	1198	1438	1730	1649
63	Marketer	891	891	884	884	895	898	899	898	263	884	884	874	887	896	837
64	Municipality	47.0	47.0	47.5	50.0	50.3	51.6	52.6	52.2	52.1	45.0	45.0	41.6	41.1	49.7	48.4
65	Other	19.6	19.6	19.6	18.6	18.6	17.5	16.0	17.5	13.4	18.6	18.6	19.6	17.0	19.6	18.0
66	Public Utility District	28.4	28.4	29.4	31.4	32.0	33.5	34.2	33.7	33.7	33.2	33.2	31.7	29.3	31.3	31.8
67	**Total**	**2748**	**2748**	**2721**	**2731**	**2809**	**2853**	**2810**	**2818**	**2149**	**2272**	**2220**	**2185**	**2432**	**2746**	**2603**

Table A-12: Regional: Cogeneration Resources

Operating Year 2023

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Cogeneration Resources															
1	Biomass One	14.9	14.9	14.4	14.9	14.4	14.9	14.9	13.4	14.9	14.4	14.4	14.9	14.4	14.9	14.6
2	Boise Cascade Medford	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	Cogen Co	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63
4	Cogen Co 2	5.95	5.95	5.76	5.95	5.76	5.95	5.95	5.38	5.95	7.20	0	5.95	5.76	5.95	5.67
5	Cosmopolis Specialty Fibres	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
6	Coyote Springs	209	209	209	209	209	209	209	209	209	209	209	209	209	209	209
7	Coyote Springs 2	249	249	257	245	259	272	271	262	248	245	245	240	142	246	245
8	Evergreen Biopower Cogen	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50
9	Ferndale Cogeneration Station	235	235	236	238	241	243	243	242	240	239	239	0	236	235	218
10	Georgia-Pacific (Toledo)	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
11	Georgia-Pacific Paper (Camas)	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
12	Georgia-Pacific Paper (Wauna)	12.4	12.4	14.4	18.4	19.6	22.6	24.0	23.0	23.0	22.0	22.0	19.1	14.2	18.1	19.2
13	Grays Harbor Paper	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
14	Haleywest L.L.C	4.54	4.54	4.15	4.58	4.39	4.41	3.96	4.02	4.19	3.73	3.73	4.24	4.29	3.86	4.20
15	Hampton Lumber Mill (Darringto	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20
16	Hermiston Generation Project	436	436	442	413	421	467	429	461	337	418	0	395	406	399	401
17	Hermiston Power Project	620	620	620	620	620	620	620	620	0	620	620	620	620	620	567
18	Intenational Paper Energy Cente	22.0	22.0	16.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	21.5
19	Intenational Paper Energy Center 2	8.46	8.46	6.15	8.46	8.46	8.46	8.46	8.46	8.46	8.46	8.46	8.46	8.46	8.46	8.27
20	Intenational Paper Energy Center 1	13.5	13.5	9.85	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.2
21	InterFor Pacific - Gilchrist	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
22	Lakeview Biomass	19.6	19.6	19.6	18.6	18.6	17.5	16.0	17.5	13.4	18.6	18.6	19.6	17.0	19.6	18.0
23	Lancaster	230	230	238	234	238	254	253	239	237	154	154	72.9	148	228	210
24	Longview Fibre Paper & Packagi	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0
25	Longview Fibre Paper & Packaging 1	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0
26	Longview Fibre Paper & Packaging 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	Macks Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	March Point Cogeneration	124	124	124	124	124	124	124	124	124	124	124	124	124	124	124
29	Metro West Point	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
30	Port Townsend Mill	6.70	6.70	6.70	6.70	6.70	6.70	6.70	6.70	6.70	6.70	6.70	6.70	6.70	6.70	6.70
31	Port Townsend Mill 1	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
32	Port Townsend Mill 2	6.51	6.51	6.51	6.51	6.51	6.51	6.51	6.51	6.51	6.51	6.51	6.51	6.51	6.51	6.51
33	Potlatch	64.4	64.4	57.8	58.2	64.4	64.0	62.7	62.0	54.7	57.4	57.4	62.7	56.7	62.8	60.6
34	Potlach NG 1	9.63	9.63	8.64	8.70	9.63	9.55	9.36	9.25	8.17	8.57	8.57	9.36	8.47	9.38	9.06
35	Potlach Wood Waste 1	54.8	54.8	49.2	49.5	54.8	54.4	53.3	52.7	46.5	48.8	48.8	53.3	48.2	53.4	51.6
36	Rough & Ready Lumber	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
37	Rupert Cogeneration Facility	7.55	7.55	8.01	9.42	9.40	8.65	8.25	9.05	9.12	7.70	7.70	7.53	7.97	8.05	8.39
38	SDS Lumber	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
39	Seneca Sawmill Cogen	12.3	12.3	11.8	12.3	12.0	11.8	12.1	12.2	12.1	5.50	5.50	3.60	5.50	12.1	10.3
40	Sierra Pacific - Abberdeen	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
41	Sierra Pacific - Burlington	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0
42	Simplot Pocatello	9.75	9.75	9.32	8.88	8.12	8.12	7.81	9.22	8.57	8.30	8.30	7.47	4.06	8.57	8.18
43	Simpson Tacoma CoGen	44.9	44.9	44.1	40.9	47.2	48.7	49.6	48.9	40.4	41.1	41.1	35.5	42.5	47.6	44.3
44	SP Newsprint cogen	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104
45	SP Newsprint cogen 1	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2
46	SP Newsprint Wood Waste	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8
47	Sumas	120	120	121	124	126	127	127	126	126	125	125	77.8	121	120	120
48	Sumas Compressor Station	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95
49	Tamarack	4.53	4.53	4.45	3.60	4.09	4.00	3.86	3.93	3.49	3.42	3.42	3.11	3.99	4.40	3.91
50	TASCO - Nampa	0.20	0.20	0.16	0.06	0	0	0	0.02	0.04	0.03	0.03	0	0.05	0.16	0.06
51	TASCO - Twin Falls	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
52	Thompson River Co-Gen	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53	Vaagen Bros.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54	Wah Chang Cogen	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8
55	Warm Springs Cogen	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20

Table A-12: Regional: Cogeneration Resources

Operating Year 2023

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
56	Weyerhaeuser Longview	35.7	35.7	35.1	32.5	37.5	38.7	39.5	38.8	32.1	32.7	32.7	28.2	33.8	37.8	35.2
57	Weyerhaeuser Longview 2	18.7	18.7	18.4	17.1	19.7	20.3	20.7	20.4	16.8	17.2	17.2	14.8	17.8	19.9	18.5
58	Weyerhauser Longview 1	16.9	16.9	16.6	15.4	17.8	18.4	18.7	18.4	15.2	15.5	15.5	13.4	16.0	17.9	16.7
Total Cogeneration Resources																
59	Cooperative	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
60	Direct Service Industry	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5
61	Federal Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
62	Investor Owned Utilities	1744	1744	1760	1722	1757	1834	1792	1797	1650	1645	1220	1255	1513	1698	1662
63	Marketer	891	891	884	884	895	898	899	898	263	884	884	874	887	896	837
64	Municipality	47.0	47.0	47.5	50.0	50.3	51.6	52.6	52.2	52.1	45.0	45.0	41.6	41.1	49.7	48.4
65	Other	19.6	19.6	19.6	18.6	18.6	17.5	16.0	17.5	13.4	18.6	18.6	19.6	17.0	19.6	18.0
66	Public Utility District	28.4	28.4	29.4	31.4	32.0	33.5	34.2	33.7	33.7	33.2	33.2	31.7	29.3	31.3	31.8
67	**Total**	**2749**	**2749**	**2759**	**2725**	**2772**	**2854**	**2813**	**2818**	**2032**	**2646**	**2220**	**2241**	**2506**	**2714**	**2616**

THIS PAGE INTENTIONALLY LEFT BLANK

Exhibit 32
Table A-13: Regional Large Thermal Resources

Monthly Energy
Operating Year 2014 to 2023
Using 1937-Water Conditions

Table A-13: Regional: Large Thermal Resources

Operating Year 2014

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Large Thermal Resources															
1	Boardman	534	534	534	534	534	534	534	534	534	534	534	0	534	534	488
2	Centralia Complex	1253	1253	1253	1253	1253	1253	1253	1253	1253	1253	1253	667	1253	1253	1203
3	Centralia 1	626	626	626	626	626	626	626	626	626	626	626	333	626	626	601
4	Centralia 2	626	626	626	626	626	626	626	626	626	626	626	333	626	626	601
5	Colstrip	1441	1441	1441	1441	1441	1441	1441	1441	1441	955	955	987	1230	1441	1345
6	Colstrip 1	141	141	141	141	141	141	141	141	141	138	138	68.0	70.5	141	128
7	Colstrip 2	141	141	141	141	141	141	141	141	141	138	138	0	0	141	117
8	Colstrip 3	481	481	481	481	481	481	481	481	481	0	0	240	481	481	421
9	Colstrip 4	679	679	679	679	679	679	679	679	679	679	679	679	679	679	679
10	Columbia Generating Station	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030
11	Jim Bridger	1909	1909	1909	1909	1909	1909	1909	1909	1724	1602	1602	1602	1924	1909	1843
12	Jim Bridger #1	483	483	483	483	483	483	483	483	451	161	161	161	483	483	427
13	Jim Bridger #2	488	488	488	488	488	488	488	488	503	503	503	503	503	488	493
14	Jim Bridger #3	477	477	477	477	477	477	477	477	477	477	477	477	477	477	477
15	Jim Bridger #4	461	461	461	461	461	461	461	461	292	461	461	461	461	461	447
16	Valmy	235	235	235	235	235	235	235	235	152	235	235	209	235	235	225
17	North Valmy 1	114	114	114	114	114	114	114	114	74.1	114	114	102	114	114	110
18	North Valmy 2	120	120	120	120	120	120	120	120	77.9	120	120	107	120	120	116
	Total Large Thermal Resources															
19	Federal Entities	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030
20	Investor Owned Utilities	4064	4064	4064	4064	4064	4064	4064	4064	3797	3272	3272	2799	3869	4064	3853
21	Marketer	1253	1253	1253	1253	1253	1253	1253	1253	1253	1253	1253	667	1253	1253	1203
22	Municipality	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	0	53.4	53.4	48.8
23	**Total**	**6400**	**6400**	**6400**	**6400**	**6400**	**6400**	**6400**	**6400**	**6133**	**5608**	**5608**	**4495**	**6205**	**6400**	**6135**

Table A-13: Regional: Large Thermal Resources

Operating Year 2015

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Large Thermal Resources															
1	Boardman	534	534	534	534	534	534	534	534	534	534	534	0	534	534	488
2	Centralia Complex	1253	1253	1253	1253	1253	1253	1253	1253	1253	1253	1253	667	1253	1253	1203
3	Centralia 1	626	626	626	626	626	626	626	626	626	626	626	333	626	626	601
4	Centralia 2	626	626	626	626	626	626	626	626	626	626	626	333	626	626	601
5	Colstrip	1441	1441	1441	1441	1441	1441	1441	1441	1441	1441	1441	1346	1232	1441	1415
6	Colstrip 1	141	141	141	141	141	141	141	141	141	141	141	93.0	0	141	125
7	Colstrip 2	141	141	141	141	141	141	141	141	141	141	141	93.0	72.5	141	131
8	Colstrip 3	481	481	481	481	481	481	481	481	481	481	481	481	481	481	481
9	Colstrip 4	679	679	679	679	679	679	679	679	679	679	679	679	679	679	679
10	Columbia Generating Station	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	498	0	764	878
11	Jim Bridger	1909	1909	1909	1909	1909	1909	1909	1909	1688	1607	1607	1607	1723	1909	1824
12	Jim Bridger #1	483	483	483	483	483	483	483	483	483	483	483	483	483	483	483
13	Jim Bridger #2	488	488	488	488	488	488	488	488	308	503	503	503	503	488	476
14	Jim Bridger #3	477	477	477	477	477	477	477	477	436	159	159	159	275	477	404
15	Jim Bridger #4	461	461	461	461	461	461	461	461	461	461	461	461	461	461	461
16	Valmy	235	235	235	235	235	235	235	235	152	235	235	209	235	235	225
17	North Valmy 1	114	114	114	114	114	114	114	114	74.1	114	114	102	114	114	110
18	North Valmy 2	120	120	120	120	120	120	120	120	77.9	120	120	107	120	120	116
	Total Large Thermal Resources															
19	Federal Entities	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	498	0	764	878
20	Investor Owned Utilities	4064	4064	4064	4064	4064	4233	4233	4233	3930	3931	3931	3251	3838	4233	4010
21	Marketer	1253	1253	1253	1253	1253	1084	1084	1084	1084	1084	1084	577	1084	1084	1097
22	Municipality	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	0	53.4	53.4	48.8
23	**Total**	**6400**	**6400**	**6400**	**6400**	**6400**	**6400**	**6400**	**6400**	**6097**	**6098**	**6098**	**4326**	**4976**	**6134**	**6034**

Table A-13: Regional: Large Thermal Resources

Operating Year 2016

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Large Thermal Resources															
1	Boardman	534	534	534	534	534	534	534	534	534	534	534	0	534	534	489
2	Centralia Complex	1253	1253	1253	1253	1253	1253	1253	1253	1192	626	626	1071	1253	1253	1181
3	Centralia 1	626	626	626	626	626	626	626	626	596	313	313	536	626	626	590
4	Centralia 2	626	626	626	626	626	626	626	626	596	313	313	536	626	626	590
5	Colstrip	1441	1441	1441	1441	1441	1441	1441	1441	1441	734	734	1047	1441	1441	1349
6	Colstrip 1	141	141	141	141	141	141	141	141	141	127	127	114	141	141	137
7	Colstrip 2	141	141	141	141	141	141	141	141	141	127	127	114	141	141	137
8	Colstrip 3	481	481	481	481	481	481	481	481	481	481	481	481	481	481	481
9	Colstrip 4	679	679	679	679	679	679	679	679	679	0	0	340	679	679	595
10	Columbia Generating Station	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030
11	Jim Bridger	1909	1909	1909	1909	1909	1909	1909	1909	1924	1613	1460	1706	1924	1909	1864
12	Jim Bridger #1	483	483	483	483	483	483	483	483	483	172	172	483	483	483	458
13	Jim Bridger #2	488	488	488	488	488	488	488	488	503	503	503	503	503	488	493
14	Jim Bridger #3	477	477	477	477	477	477	477	477	477	477	477	477	477	477	477
15	Jim Bridger #4	461	461	461	461	461	461	461	461	461	461	308	243	461	461	436
16	Valmy	235	235	235	235	235	235	235	235	152	235	235	209	235	235	226
17	North Valmy 1	114	114	114	114	114	114	114	114	74.1	114	114	102	114	114	110
18	North Valmy 2	120	120	120	120	120	120	120	120	77.9	120	120	107	120	120	116
	Total Large Thermal Resources															
19	Federal Entities	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030
20	Investor Owned Utilities	4233	4233	4233	4233	4233	4326	4326	4326	4246	3193	3040	3186	4342	4326	4094
21	Marketer	1084	1084	1084	1084	1084	991	991	991	943	495	495	847	991	991	965
22	Municipality	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	0	53.4	53.4	48.9
23	**Total**	**6400**	**6400**	**6400**	**6400**	**6400**	**6400**	**6400**	**6400**	**6273**	**4771**	**4618**	**5063**	**6416**	**6400**	**6138**

Table A-13: Regional: Large Thermal Resources

Operating Year 2017

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Large Thermal Resources															
1	Boardman	534	534	534	534	534	534	534	534	534	534	534	0	534	534	488
2	Centralia Complex	1253	1253	1253	1253	1253	1253	1253	1253	1192	626	626	1071	1253	1253	1181
3	Centralia 1	626	626	626	626	626	626	626	626	596	313	313	536	626	626	590
4	Centralia 2	626	626	626	626	626	626	626	626	596	313	313	536	626	626	590
5	Colstrip	1441	1441	1441	1441	1441	1441	1441	1441	1441	955	955	987	1230	1441	1345
6	Colstrip 1	141	141	141	141	141	141	141	141	141	138	138	68.0	70.5	141	128
7	Colstrip 2	141	141	141	141	141	141	141	141	141	138	138	0	0	141	117
8	Colstrip 3	481	481	481	481	481	481	481	481	481	0	0	240	481	481	421
9	Colstrip 4	679	679	679	679	679	679	679	679	679	679	679	679	679	679	679
10	Columbia Generating Station	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	399	0	864	878
11	Jim Bridger	1909	1909	1909	1909	1909	1909	1909	1909	1607	1924	1622	1622	1924	1909	1849
12	Jim Bridger #1	483	483	483	483	483	483	483	483	483	483	483	483	483	483	483
13	Jim Bridger #2	488	488	488	488	488	488	488	488	503	503	201	200	503	488	455
14	Jim Bridger #3	477	477	477	477	477	477	477	477	159	477	477	477	477	477	450
15	Jim Bridger #4	461	461	461	461	461	461	461	461	461	461	461	461	461	461	461
16	Valmy	235	235	235	235	235	235	235	235	152	235	235	209	235	235	225
17	North Valmy 1	114	114	114	114	114	114	114	114	74.1	114	114	102	114	114	110
18	North Valmy 2	120	120	120	120	120	120	120	120	77.9	120	120	107	120	120	116
	Total Large Thermal Resources															
19	Federal Entities	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	399	0	864	878
20	Investor Owned Utilities	4326	4326	4326	4326	4326	4420	4420	4420	4018	3772	3470	3122	4224	4420	4162
21	Marketer	991	991	991	991	991	897	897	897	854	449	449	768	897	897	877
22	Municipality	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	0	53.4	53.4	48.8
23	**Total**	**6400**	**6400**	**6400**	**6400**	**6400**	**6400**	**6400**	**6400**	**5955**	**5304**	**5002**	**4288**	**5175**	**6234**	**5966**

Table A-13: Regional: Large Thermal Resources

Operating Year 2018

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Large Thermal Resources															
1	Boardman	534	534	534	534	534	534	534	534	534	534	534	0	534	534	488
2	Centralia Complex	1253	1253	1253	1253	1253	1253	1253	1253	1253	1253	1253	667	1253	1253	1203
3	Centralia 1	626	626	626	626	626	626	626	626	626	626	626	333	626	626	601
4	Centralia 2	626	626	626	626	626	626	626	626	626	626	626	333	626	626	601
5	Colstrip	1441	1441	1441	1441	1441	1441	1441	1441	1441	1441	1441	1346	1232	1441	1415
6	Colstrip 1	141	141	141	141	141	141	141	141	141	141	141	93.0	0	141	125
7	Colstrip 2	141	141	141	141	141	141	141	141	141	141	141	93.0	72.5	141	131
8	Colstrip 3	481	481	481	481	481	481	481	481	481	481	481	481	481	481	481
9	Colstrip 4	679	679	679	679	679	679	679	679	679	679	679	679	679	679	679
10	Columbia Generating Station	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030
11	Jim Bridger	1909	1909	1909	1909	1909	1909	1909	1909	1924	1737	1541	1602	1924	1909	1863
12	Jim Bridger #1	483	483	483	483	483	483	483	483	483	429	429	161	483	483	451
13	Jim Bridger #2	488	488	488	488	488	488	488	488	503	503	503	503	503	488	493
14	Jim Bridger #3	477	477	477	477	477	477	477	477	477	477	477	477	477	477	477
15	Jim Bridger #4	461	461	461	461	461	461	461	461	461	329	132	461	461	461	442
16	Valmy	235	235	235	235	235	235	235	235	152	235	235	209	235	235	225
17	North Valmy 1	114	114	114	114	114	114	114	114	74.1	114	114	102	114	114	110
18	North Valmy 2	120	120	120	120	120	120	120	120	77.9	120	120	107	120	120	116
	Total Large Thermal Resources															
19	Federal Entities	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030
20	Investor Owned Utilities	4420	4420	4420	4420	4420	4420	4420	4420	4352	4248	4052	3346	4226	4420	4285
21	Marketer	897	897	897	897	897	897	897	897	897	897	897	478	897	897	862
22	Municipality	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	0	53.4	53.4	48.8
23	**Total**	**6400**	**6400**	**6400**	**6400**	**6400**	**6400**	**6400**	**6400**	**6333**	**6229**	**6033**	**4854**	**6207**	**6400**	**6225**

Table A-13: Regional: Large Thermal Resources

Operating Year 2019

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Large Thermal Resources															
1	Boardman	534	534	534	534	534	534	534	534	534	534	534	0	534	534	488
2	Centralia Complex	1253	1253	1253	1253	1253	1253	1253	1253	1253	1253	1253	667	1253	1253	1203
3	Centralia 1	626	626	626	626	626	626	626	626	626	626	626	333	626	626	601
4	Centralia 2	626	626	626	626	626	626	626	626	626	626	626	333	626	626	601
5	Colstrip	1441	1441	1441	1441	1441	1441	1441	1441	1441	734	734	1047	1441	1441	1349
6	Colstrip 1	141	141	141	141	141	141	141	141	141	127	127	114	141	141	137
7	Colstrip 2	141	141	141	141	141	141	141	141	141	127	127	114	141	141	137
8	Colstrip 3	481	481	481	481	481	481	481	481	481	481	481	481	481	481	481
9	Colstrip 4	679	679	679	679	679	679	679	679	679	0	0	340	679	679	594
10	Columbia Generating Station	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	332	0	930	878
11	Jim Bridger	1909	1909	1909	1909	1909	1909	1909	1909	1730	1743	1547	1924	1924	1909	1875
12	Jim Bridger #1	483	483	483	483	483	483	483	483	483	435	435	483	483	483	479
13	Jim Bridger #2	488	488	488	488	488	488	488	488	308	503	503	503	503	488	476
14	Jim Bridger #3	477	477	477	477	477	477	477	477	477	477	477	477	477	477	477
15	Jim Bridger #4	461	461	461	461	461	461	461	461	461	329	132	461	461	461	442
16	Valmy	235	235	235	235	235	235	235	235	152	235	235	209	235	235	225
17	North Valmy 1	114	114	114	114	114	114	114	114	74.1	114	114	102	114	114	110
18	North Valmy 2	120	120	120	120	120	120	120	120	77.9	120	120	107	120	120	116
	Total Large Thermal Resources															
19	Federal Entities	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	332	0	930	878
20	Investor Owned Utilities	4420	4420	4420	4420	4420	4420	4420	4420	4158	3547	3351	3370	4435	4420	4230
21	Marketer	897	897	897	897	897	897	897	897	897	897	897	478	897	897	862
22	Municipality	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	0	53.4	53.4	48.8
23	**Total**	**6400**	**6400**	**6400**	**6400**	**6400**	**6400**	**6400**	**6400**	**6139**	**5528**	**5332**	**4179**	**5386**	**6300**	**6018**

Table A-13: Regional: Large Thermal Resources

Operating Year 2020

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Large Thermal Resources															
1	Boardman	534	534	534	534	534	534	534	534	534	534	534	0	534	534	489
2	Centralia Complex	1253	1253	1253	1253	1253	1253	1253	1253	1253	1253	1253	667	1253	1253	1203
3	Centralia 1	626	626	626	626	626	626	626	626	626	626	626	333	626	626	601
4	Centralia 2	626	626	626	626	626	626	626	626	626	626	626	333	626	626	601
5	Colstrip	1441	1441	1441	1441	1441	1441	1441	1441	1441	955	955	987	1230	1441	1345
6	Colstrip 1	141	141	141	141	141	141	141	141	141	138	138	68.0	70.5	141	128
7	Colstrip 2	141	141	141	141	141	141	141	141	141	138	138	0	0	141	117
8	Colstrip 3	481	481	481	481	481	481	481	481	481	0	0	240	481	481	421
9	Colstrip 4	679	679	679	679	679	679	679	679	679	679	679	679	679	679	679
10	Columbia Generating Station	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030
11	Jim Bridger	1909	1909	1909	1909	1909	1909	1909	1909	1892	1470	1273	1602	1924	1909	1839
12	Jim Bridger #1	483	483	483	483	483	483	483	483	451	161	161	161	483	483	427
13	Jim Bridger #2	488	488	488	488	488	488	488	488	503	503	503	503	503	488	493
14	Jim Bridger #3	477	477	477	477	477	477	477	477	477	477	477	477	477	477	477
15	Jim Bridger #4	461	461	461	461	461	461	461	461	461	329	132	461	461	461	442
16	Valmy	235	235	235	235	235	235	235	235	152	235	235	209	235	235	226
17	North Valmy 1	114	114	114	114	114	114	114	114	74.1	114	114	102	114	114	110
18	North Valmy 2	120	120	120	120	120	120	120	120	77.9	120	120	107	120	120	116
	Total Large Thermal Resources															
19	Federal Entities	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030
20	Investor Owned Utilities	4420	4420	4420	4420	4420	4420	4420	4420	4321	3495	3299	2988	4224	4420	4190
21	Marketer	897	897	897	897	897	897	897	897	897	897	897	478	897	897	862
22	Municipality	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	0	53.4	53.4	48.9
23	**Total**	**6400**	**6400**	**6400**	**6400**	**6400**	**6400**	**6400**	**6400**	**6301**	**5476**	**5279**	**4495**	**6205**	**6400**	**6131**

Table A-13: Regional: Large Thermal Resources

Operating Year 2021

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Large Thermal Resources															
1	Boardman	534	534	534	534	534	534	0	0	0	0	0	0	0	0	224
2	Centralia Complex	1253	1253	1253	1253	1253	1253	1253	1253	1253	1253	1253	667	1253	1253	1203
3	Centralia 1	626	626	626	626	626	626	626	626	626	626	626	333	626	626	601
4	Centralia 2	626	626	626	626	626	626	626	626	626	626	626	333	626	626	601
5	Colstrip	1441	1441	1441	1441	1441	1441	1441	1441	1441	1441	1441	1346	1232	1441	1415
6	Colstrip 1	141	141	141	141	141	141	141	141	141	141	141	93.0	0	141	125
7	Colstrip 2	141	141	141	141	141	141	141	141	141	141	141	93.0	72.5	141	131
8	Colstrip 3	481	481	481	481	481	481	481	481	481	481	481	481	481	481	481
9	Colstrip 4	679	679	679	679	679	679	679	679	679	679	679	679	679	679	679
10	Columbia Generating Station	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	465	0	797	878
11	Jim Bridger	1909	1909	1909	1909	1909	1909	1909	1909	1730	1792	1596	1924	1924	1909	1878
12	Jim Bridger #1	483	483	483	483	483	483	483	483	483	483	483	483	483	483	483
13	Jim Bridger #2	488	488	488	488	488	488	488	488	308	503	503	503	503	488	476
14	Jim Bridger #3	477	477	477	477	477	477	477	477	477	477	477	477	477	477	477
15	Jim Bridger #4	461	461	461	461	461	461	461	461	461	329	132	461	461	461	442
16	Valmy	235	235	235	235	235	235	235	235	152	235	235	209	235	235	225
17	North Valmy 1	114	114	114	114	114	114	114	114	74.1	114	114	102	114	114	110
18	North Valmy 2	120	120	120	120	120	120	120	120	77.9	120	120	107	120	120	116
	Total Large Thermal Resources															
19	Federal Entities	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	465	0	797	878
20	Investor Owned Utilities	4420	4420	4420	4420	4420	4420	3939	3939	3677	3822	3626	3668	3746	3939	4062
21	Marketer	897	897	897	897	897	897	897	897	897	897	897	478	897	897	862
22	Municipality	53.4	53.4	53.4	53.4	53.4	53.4	0	0	0	0	0	0	0	0	22.4
23	**Total**	**6400**	**6400**	**6400**	**6400**	**6400**	**6400**	**5867**	**5867**	**5605**	**5750**	**5553**	**4611**	**4644**	**5634**	**5824**

Table A-13: Regional: Large Thermal Resources

Operating Year 2022

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Large Thermal Resources															
1	Boardman	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	Centralia Complex	1253	1253	1253	1253	1253	1253	1253	1253	1192	626	626	1071	1253	1253	1181
3	Centralia 1	626	626	626	626	626	626	626	626	596	313	313	536	626	626	590
4	Centralia 2	626	626	626	626	626	626	626	626	596	313	313	536	626	626	590
5	Colstrip	1441	1441	1441	1441	1441	1441	1441	1441	1441	748	748	1027	1441	1441	1349
6	Colstrip 1	141	141	141	141	141	141	141	141	141	141	141	93.0	141	141	136
7	Colstrip 2	141	141	141	141	141	141	141	141	141	127	127	114	141	141	137
8	Colstrip 3	481	481	481	481	481	481	481	481	481	481	481	481	481	481	481
9	Colstrip 4	679	679	679	679	679	679	679	679	679	0	0	340	679	679	594
10	Columbia Generating Station	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030
11	Jim Bridger	1909	1909	1909	1909	1909	1909	1909	1909	1924	1481	1284	1924	1924	1909	1869
12	Jim Bridger #1	483	483	483	483	483	483	483	483	483	172	172	483	483	483	458
13	Jim Bridger #2	488	488	488	488	488	488	488	488	503	503	503	503	503	488	493
14	Jim Bridger #3	477	477	477	477	477	477	477	477	477	477	477	477	477	477	477
15	Jim Bridger #4	461	461	461	461	461	461	461	461	461	329	132	461	461	461	442
16	Valmy	235	235	235	235	235	235	235	235	152	235	235	209	235	235	225
17	North Valmy 1	114	114	114	114	114	114	114	114	74.1	114	114	102	114	114	110
18	North Valmy 2	120	120	120	120	120	120	120	120	77.9	120	120	107	120	120	116
	Total Large Thermal Resources															
19	Federal Entities	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030
20	Investor Owned Utilities	3939	3939	3939	3939	3939	3939	3939	3939	3855	2641	2444	3464	3955	3939	3778
21	Marketer	897	897	897	897	897	897	897	897	854	449	449	768	897	897	846
22	Municipality	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	**Total**	**5867**	**5867**	**5867**	**5867**	**5867**	**5867**	**5867**	**5867**	**5739**	**4119**	**3923**	**5261**	**5882**	**5867**	**5654**

Table A-13: Regional: Large Thermal Resources

Operating Year 2023

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Large Thermal Resources															
1	Boardman	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	Centralia Complex	1253	1253	1253	1253	1253	1253	1253	1253	1192	626	626	1071	1253	1253	1181
3	Centralia 1	626	626	626	626	626	626	626	626	596	313	313	536	626	626	590
4	Centralia 2	626	626	626	626	626	626	626	626	596	313	313	536	626	626	590
5	Colstrip	1441	1441	1441	1441	1441	1441	1441	1441	1441	958	958	1012	1230	1441	1347
6	Colstrip 1	141	141	141	141	141	141	141	141	141	141	141	93.0	70.5	141	131
7	Colstrip 2	141	141	141	141	141	141	141	141	141	138	138	0	0	141	117
8	Colstrip 3	481	481	481	481	481	481	481	481	481	0	0	240	481	481	421
9	Colstrip 4	679	679	679	679	679	679	679	679	679	679	679	679	679	679	679
10	Columbia Generating Station	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	399	0	864	878
11	Jim Bridger	1909	1909	1909	1909	1909	1909	1909	1909	1730	1792	1596	1924	1924	1909	1878
12	Jim Bridger #1	483	483	483	483	483	483	483	483	483	483	483	483	483	483	483
13	Jim Bridger #2	488	488	488	488	488	488	488	488	308	503	503	503	503	488	476
14	Jim Bridger #3	477	477	477	477	477	477	477	477	477	477	477	477	477	477	477
15	Jim Bridger #4	461	461	461	461	461	461	461	461	461	329	132	461	461	461	442
16	Valmy	235	235	235	235	235	235	235	235	152	235	235	209	235	235	225
17	North Valmy 1	114	114	114	114	114	114	114	114	74.1	114	114	102	114	114	110
18	North Valmy 2	120	120	120	120	120	120	120	120	77.9	120	120	107	120	120	116
	Total Large Thermal Resources															
19	Federal Entities	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	399	0	864	878
20	Investor Owned Utilities	3939	3939	3939	3939	3939	3939	3939	3939	3660	3162	2965	3449	3744	3939	3786
21	Marketer	897	897	897	897	897	897	897	897	854	449	449	768	897	897	846
22	Municipality	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	**Total**	**5867**	**5867**	**5867**	**5867**	**5867**	**5867**	**5867**	**5867**	**5544**	**4640**	**4444**	**4616**	**4642**	**5701**	**5510**

THIS PAGE INTENTIONALLY LEFT BLANK

Exhibit 33
Table A-14: Regional Small Thermal & Miscellaneous

Monthly Energy
Operating Year 2014 to 2023
Using 1937-Water Conditions

Table A-14: Regional: Small Thermal & Miscellaneous

Operating Year 2014

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Small Thermal & Miscellaneous															
1	Bangor Submarine Base	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	Bangor Base 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	Bangor Base 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	Boundary IC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	Colstrip Energy Project	6.44	6.58	10.3	11.4	8.79	12.7	13.2	12.1	10.9	10.3	10.0	13.3	11.3	9.31	10.8
6	Covanta Marion Solid Waste	9.70	9.70	9.70	9.70	9.70	9.70	9.70	9.70	9.70	9.70	9.70	9.70	9.70	9.70	9.70
7	Crystal Mountain	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	Hooley Digester	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
9	Pocatello Waste	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
10	Puget Sound Shipyards Diesel G	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	Salmon Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	Spokane MSW	13.7	13.7	15.4	16.1	17.6	15.3	14.6	14.0	16.9	13.4	13.4	14.3	11.8	15.9	14.9
13	West Boise Waste	0.12	0.12	0.13	0.12	0.13	0.12	0.12	0.14	0.12	0.13	0.13	0.12	0.13	0.12	0.13
	Total Small Thermal & Miscellaneous															
14	Federal Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	Investor Owned Utilities	30.1	30.2	35.7	37.4	36.3	37.9	37.7	36.1	37.7	33.6	33.4	37.5	33.0	35.1	35.7
16	Municipality	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	Public Utility District	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
18	**Total**	**30.3**	**30.4**	**35.9**	**37.6**	**36.5**	**38.1**	**37.9**	**36.3**	**37.9**	**33.8**	**33.6**	**37.7**	**33.2**	**35.3**	**35.9**

Table A-14: Regional: Small Thermal & Miscellaneous

Operating Year 2015

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Small Thermal & Miscellaneous															
1	Bangor Submarine Base	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	Bangor Base 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	Bangor Base 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	Boundary IC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	Colstrip Energy Project	6.44	6.58	10.3	11.4	8.79	12.7	13.2	12.1	10.9	10.3	10.0	13.3	11.3	9.31	10.8
6	Covanta Marion Solid Waste	9.70	9.70	9.70	9.70	9.70	9.70	9.70	9.70	9.70	9.70	9.70	9.70	9.70	9.70	9.70
7	Crystal Mountain	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	Hooley Digester	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
9	Pocatello Waste	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
10	Puget Sound Shipyards Diesel G	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	Salmon Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	Spokane MSW	13.7	13.7	15.4	16.1	17.6	15.3	14.6	14.0	16.9	13.4	13.4	14.3	11.8	15.9	14.9
13	West Boise Waste	0.12	0.12	0.13	0.12	0.13	0.12	0.12	0.14	0.12	0.13	0.13	0.12	0.13	0.12	0.13
	Total Small Thermal & Miscellaneous															
14	Federal Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	Investor Owned Utilities	30.1	30.2	35.7	37.4	36.3	37.9	37.7	36.1	37.7	33.6	33.4	37.5	33.0	35.1	35.7
16	Municipality	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	Public Utility District	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
18	**Total**	**30.3**	**30.4**	**35.9**	**37.6**	**36.5**	**38.1**	**37.9**	**36.3**	**37.9**	**33.8**	**33.6**	**37.7**	**33.2**	**35.3**	**35.9**

Table A-14: Regional: Small Thermal & Miscellaneous

Operating Year 2016

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Small Thermal & Miscellaneous															
1	Bangor Submarine Base	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	Bangor Base 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	Bangor Base 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	Boundary IC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	Colstrip Energy Project	6.44	6.58	10.3	11.4	8.79	12.7	13.2	12.1	10.9	10.3	10.0	13.3	11.3	9.31	10.8
6	Covanta Marion Solid Waste	9.70	9.70	9.70	9.70	9.70	9.70	9.70	9.70	9.70	9.70	9.70	9.70	9.70	9.70	9.70
7	Crystal Mountain	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	Hooley Digester	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
9	Pocatello Waste	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
10	Puget Sound Shipyards Diesel G	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	Salmon Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	Spokane MSW	13.7	13.7	15.4	16.1	17.6	15.3	14.6	14.0	16.9	13.4	13.4	14.3	11.8	15.9	14.9
13	West Boise Waste	0.12	0.12	0.13	0.12	0.13	0.12	0.12	0.14	0.12	0.13	0.13	0.12	0.13	0.12	0.13
	Total Small Thermal & Miscellaneous															
14	Federal Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	Investor Owned Utilities	30.1	30.2	35.7	37.4	36.3	37.9	37.7	36.1	37.7	33.6	33.4	37.5	33.0	35.1	35.7
16	Municipality	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	Public Utility District	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
18	**Total**	**30.3**	**30.4**	**35.9**	**37.6**	**36.5**	**38.1**	**37.9**	**36.3**	**37.9**	**33.8**	**33.6**	**37.7**	**33.2**	**35.3**	**35.9**

Table A-14: Regional: Small Thermal & Miscellaneous

Operating Year 2017

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Small Thermal & Miscellaneous															
1	Bangor Submarine Base	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	Bangor Base 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	Bangor Base 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	Boundary IC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	Colstrip Energy Project	6.44	6.58	10.3	11.4	8.79	12.7	13.2	12.1	10.9	10.3	10.0	13.3	11.3	9.31	10.8
6	Covanta Marion Solid Waste	9.70	9.70	9.70	9.70	9.70	9.70	9.70	9.70	9.70	9.70	9.70	9.70	9.70	9.70	9.70
7	Crystal Mountain	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	Hooley Digester	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
9	Pocatello Waste	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
10	Puget Sound Shipyards Diesel G	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	Salmon Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	Spokane MSW	13.7	13.7	15.4	16.1	17.6	15.3	14.6	14.0	16.9	13.4	13.4	14.3	11.8	15.9	14.9
13	West Boise Waste	0.12	0.12	0.13	0.12	0.13	0.12	0.12	0.14	0.12	0.13	0.13	0.12	0.13	0.12	0.13
	Total Small Thermal & Miscellaneous															
14	Federal Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	Investor Owned Utilities	30.1	30.2	35.7	37.4	36.3	37.9	37.7	36.1	37.7	33.6	33.4	37.5	33.0	35.1	35.7
16	Municipality	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	Public Utility District	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
18	**Total**	**30.3**	**30.4**	**35.9**	**37.6**	**36.5**	**38.1**	**37.9**	**36.3**	**37.9**	**33.8**	**33.6**	**37.7**	**33.2**	**35.3**	**35.9**

Table A-14: Regional: Small Thermal & Miscellaneous

Operating Year 2018

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Small Thermal & Miscellaneous															
1	Bangor Submarine Base	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	Bangor Base 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	Bangor Base 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	Boundary IC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	Colstrip Energy Project	6.44	6.58	10.3	11.4	8.79	12.7	13.2	12.1	10.9	10.3	10.0	13.3	11.3	9.31	10.8
6	Covanta Marion Solid Waste	9.70	9.70	9.70	9.70	9.70	9.70	9.70	9.70	9.70	9.70	9.70	9.70	9.70	9.70	9.70
7	Crystal Mountain	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	Hooley Digester	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
9	Pocatello Waste	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
10	Puget Sound Shipyards Diesel G	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	Salmon Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	Spokane MSW	13.7	13.7	15.4	16.1	17.6	15.3	14.6	14.0	16.9	13.4	13.4	14.3	11.8	15.9	14.9
13	West Boise Waste	0.12	0.12	0.13	0.12	0.13	0.12	0.12	0.14	0.12	0.13	0.13	0.12	0.13	0.12	0.13
	Total Small Thermal & Miscellaneous															
14	Federal Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	Investor Owned Utilities	30.1	30.2	35.7	37.4	36.3	37.9	37.7	36.1	37.7	33.6	33.4	37.5	33.0	35.1	35.7
16	Municipality	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	Public Utility District	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
18	**Total**	**30.3**	**30.4**	**35.9**	**37.6**	**36.5**	**38.1**	**37.9**	**36.3**	**37.9**	**33.8**	**33.6**	**37.7**	**33.2**	**35.3**	**35.9**

Table A-14: Regional: Small Thermal & Miscellaneous

Operating Year 2019

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Small Thermal & Miscellaneous															
1	Bangor Submarine Base	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	Bangor Base 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	Bangor Base 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	Boundary IC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	Colstrip Energy Project	6.44	6.58	10.3	11.4	8.79	12.7	13.2	12.1	10.9	10.3	10.0	13.3	11.3	9.31	10.8
6	Covanta Marion Solid Waste	9.70	9.70	9.70	9.70	9.70	9.70	9.70	9.70	9.70	9.70	9.70	9.70	9.70	9.70	9.70
7	Crystal Mountain	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	Hooley Digester	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
9	Pocatello Waste	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
10	Puget Sound Shipyards Diesel G	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	Salmon Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	Spokane MSW	13.7	13.7	15.4	16.1	17.6	15.3	14.6	14.0	16.9	13.4	13.4	14.3	11.8	15.9	14.9
13	West Boise Waste	0.12	0.12	0.13	0.12	0.13	0.12	0.12	0.14	0.12	0.13	0.13	0.12	0.13	0.12	0.13
	Total Small Thermal & Miscellaneous															
14	Federal Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	Investor Owned Utilities	30.1	30.2	35.7	37.4	36.3	37.9	37.7	36.1	37.7	33.6	33.4	37.5	33.0	35.1	35.7
16	Municipality	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	Public Utility District	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
18	**Total**	**30.3**	**30.4**	**35.9**	**37.6**	**36.5**	**38.1**	**37.9**	**36.3**	**37.9**	**33.8**	**33.6**	**37.7**	**33.2**	**35.3**	**35.9**

Table A-14: Regional: Small Thermal & Miscellaneous

Operating Year 2020

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Small Thermal & Miscellaneous															
1	Bangor Submarine Base	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	Bangor Base 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	Bangor Base 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	Boundary IC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	Colstrip Energy Project	6.44	6.58	10.3	11.4	8.79	12.7	13.2	12.1	10.9	10.3	10.0	13.3	11.3	9.31	10.8
6	Covanta Marion Solid Waste	9.70	9.70	9.70	9.70	9.70	9.70	9.70	9.70	9.70	9.70	9.70	9.70	9.70	9.70	9.70
7	Crystal Mountain	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	Hooley Digester	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
9	Pocatello Waste	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
10	Puget Sound Shipyards Diesel G	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	Salmon Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	Spokane MSW	13.7	13.7	15.4	16.1	17.6	15.3	14.6	14.0	16.9	13.4	13.4	14.3	11.8	15.9	14.9
13	West Boise Waste	0.12	0.12	0.13	0.12	0.13	0.12	0.12	0.14	0.12	0.13	0.13	0.12	0.13	0.12	0.13
	Total Small Thermal & Miscellaneous															
14	Federal Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	Investor Owned Utilities	30.1	30.2	35.7	37.4	36.3	37.9	37.7	36.1	37.7	33.6	33.4	37.5	33.0	35.1	35.7
16	Municipality	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	Public Utility District	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
18	**Total**	**30.3**	**30.4**	**35.9**	**37.6**	**36.5**	**38.1**	**37.9**	**36.3**	**37.9**	**33.8**	**33.6**	**37.7**	**33.2**	**35.3**	**35.9**

Table A-14: Regional: Small Thermal & Miscellaneous

Operating Year 2021

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Small Thermal & Miscellaneous															
1	Bangor Submarine Base	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	Bangor Base 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	Bangor Base 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	Boundary IC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	Colstrip Energy Project	6.44	6.58	10.3	11.4	8.79	12.7	13.2	12.1	10.9	10.3	10.0	13.3	11.3	9.31	10.8
6	Covanta Marion Solid Waste	9.70	9.70	9.70	9.70	9.70	9.70	9.70	9.70	9.70	9.70	9.70	9.70	9.70	9.70	9.70
7	Crystal Mountain	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	Hooley Digester	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
9	Pocatello Waste	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
10	Puget Sound Shipyards Diesel G	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	Salmon Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	Spokane MSW	13.7	13.7	15.4	16.1	17.6	15.3	14.6	14.0	16.9	13.4	13.4	14.3	11.8	15.9	14.9
13	West Boise Waste	0.12	0.12	0.13	0.12	0.13	0.12	0.12	0.14	0.12	0.13	0.13	0.12	0.13	0.12	0.13
	Total Small Thermal & Miscellaneous															
14	Federal Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	Investor Owned Utilities	30.1	30.2	35.7	37.4	36.3	37.9	37.7	36.1	37.7	33.6	33.4	37.5	33.0	35.1	35.7
16	Municipality	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	Public Utility District	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
18	**Total**	**30.3**	**30.4**	**35.9**	**37.6**	**36.5**	**38.1**	**37.9**	**36.3**	**37.9**	**33.8**	**33.6**	**37.7**	**33.2**	**35.3**	**35.9**

Table A-14: Regional: Small Thermal & Miscellaneous

Operating Year 2022

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Small Thermal & Miscellaneous															
1	Bangor Submarine Base	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	Bangor Base 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	Bangor Base 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	Boundary IC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	Colstrip Energy Project	6.44	6.58	10.3	11.4	8.79	12.7	13.2	12.1	10.9	10.3	10.0	13.3	11.3	9.31	10.8
6	Covanta Marion Solid Waste	9.70	9.70	9.70	9.70	9.70	9.70	9.70	9.70	9.70	9.70	9.70	9.70	9.70	9.70	9.70
7	Crystal Mountain	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	Hooley Digester	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
9	Pocatello Waste	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
10	Puget Sound Shipyards Diesel G	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	Salmon Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	Spokane MSW	13.7	13.7	15.4	16.1	17.6	15.3	14.6	14.0	16.9	13.4	13.4	14.3	11.8	15.9	14.9
13	West Boise Waste	0.12	0.12	0.13	0.12	0.13	0.12	0.12	0.14	0.12	0.13	0.13	0.12	0.13	0.12	0.13
	Total Small Thermal & Miscellaneous															
14	Federal Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	Investor Owned Utilities	30.1	30.2	35.7	37.4	36.3	37.9	37.7	36.1	37.7	33.6	33.4	37.5	33.0	35.1	35.7
16	Municipality	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	Public Utility District	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
18	**Total**	**30.3**	**30.4**	**35.9**	**37.6**	**36.5**	**38.1**	**37.9**	**36.3**	**37.9**	**33.8**	**33.6**	**37.7**	**33.2**	**35.3**	**35.9**

Table A-14: Regional: Small Thermal & Miscellaneous

Operating Year 2023

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Small Thermal & Miscellaneous															
1	Bangor Submarine Base	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	Bangor Base 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	Bangor Base 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	Boundary IC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	Colstrip Energy Project	6.44	6.58	10.3	11.4	8.79	12.7	13.2	12.1	10.9	10.3	10.0	13.3	11.3	9.31	10.8
6	Covanta Marion Solid Waste	9.70	9.70	9.70	9.70	9.70	9.70	9.70	9.70	9.70	9.70	9.70	9.70	9.70	9.70	9.70
7	Crystal Mountain	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	Hooley Digester	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
9	Pocatello Waste	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
10	Puget Sound Shipyards Diesel G	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	Salmon Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	Spokane MSW	13.7	13.7	15.4	16.1	17.6	15.3	14.6	14.0	16.9	13.4	13.4	14.3	11.8	15.9	14.9
13	West Boise Waste	0.12	0.12	0.13	0.12	0.13	0.12	0.12	0.14	0.12	0.13	0.13	0.12	0.13	0.12	0.13
	Total Small Thermal & Miscellaneous															
14	Federal Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	Investor Owned Utilities	30.1	30.2	35.7	37.4	36.3	37.9	37.7	36.1	37.7	33.6	33.4	37.5	33.0	35.1	35.7
16	Municipality	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	Public Utility District	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
18	**Total**	**30.3**	**30.4**	**35.9**	**37.6**	**36.5**	**38.1**	**37.9**	**36.3**	**37.9**	**33.8**	**33.6**	**37.7**	**33.2**	**35.3**	**35.9**

THIS PAGE INTENTIONALLY LEFT BLANK

Exhibit 34
Table A-15: Non-Federal CER Deliveries to BPA

Monthly Energy
Operating Year 2014 to 2023
Using 1937-Water Conditions

Table A-15: Non-Federal CER Deliveries to BPA

Operating Year: 2014

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Pacific Northwest																
1	CHPD to BPA CEAEA for Rock Island	18.0	18.1	18.0	18.0	18.0	18.0	18.0	18.0	18.0	17.9	17.9	17.9	17.9	17.9	18.0
2	CHPD to BPA CEAEA for Rocky Reach	37.3	37.6	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.2	37.2	37.2	37.2	37.2	37.4
3	DOPD to BPA CEAEA for Wells	23.8	24.1	24.0	24.0	24.0	24.0	24.0	24.0	24.0	23.8	23.8	23.8	23.8	23.8	23.9
4	GCPD to BPA CEAEA for Priest Rapids	29.1	29.4	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.1	29.1	29.1	29.1	29.1	29.2
5	GCPD to BPA CEAEA for Wanpum	28.1	28.4	28.3	28.3	28.3	28.3	28.3	28.3	28.3	28.1	28.1	28.1	28.1	28.1	28.2
6	**Total Imports From PNW**	**136**	**138**	**137**	**137**	**137**	**137**	**137**	**137**	**137**	**136**	**136**	**136**	**136**	**136**	**137**

Table A-15: Non-Federal CER Deliveries to BPA

Operating Year: 2015

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Pacific Northwest															
1	CHPD to BPA CEAEA for Rock Island	18.5	17.4	17.9	17.9	17.9	17.9	17.9	17.9	17.9	18.1	18.1	18.1	18.1	18.1	18.0
2	CHPD to BPA CEAEA for Rocky Reach	38.5	36.1	37.2	37.2	37.2	37.2	37.2	37.2	37.2	37.6	37.6	37.6	37.6	37.6	37.3
3	DOPD to BPA CEAEA for Wells	24.6	23.1	23.8	23.8	23.8	23.8	23.8	23.8	23.8	24.0	24.0	24.0	24.0	24.0	23.9
4	GCPD to BPA CEAEA for Priest Rapids	30.0	28.2	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.4	29.4	29.4	29.4	29.4	29.2
5	GCPD to BPA CEAEA for Wanpum	29.0	27.2	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.4	28.4	28.4	28.4	28.4	28.2
6	**Total Imports From PNW**	**141**	**132**	**136**	**136**	**136**	**136**	**136**	**136**	**136**	**137**	**137**	**137**	**137**	**137**	**137**

Table A-15: Non-Federal CER Deliveries to BPA

Operating Year: 2016

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Pacific Northwest																
1	CHPD to BPA CEAEA for Rock Island	18.7	17.5	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1
2	CHPD to BPA CEAEA for Rocky Reach	38.8	36.4	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.5	37.5	37.5	37.5	37.5	37.6
3	DOPD to BPA CEAEA for Wells	24.8	23.3	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
4	GCPD to BPA CEAEA for Priest Rapids	30.3	28.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.3	29.3	29.3	29.3	29.3	29.3
5	GCPD to BPA CEAEA for Wanpum	29.3	27.5	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.3	28.3	28.3	28.3	28.3	28.4
6	**Total Imports From PNW**	**142**	**133**	**137**	**137**	**137**	**137**	**137**	**137**	**137**	**137**	**137**	**137**	**137**	**137**	**137**

Table A-15: Non-Federal CER Deliveries to BPA

Operating Year: 2017

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Pacific Northwest															
1	CHPD to BPA CEAEA for Rock Island	18.0	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.8	17.3	18.0	18.0	18.0	18.1
2	CHPD to BPA CEAEA for Rocky Reach	37.3	37.7	37.5	37.5	37.5	37.5	37.5	37.5	37.5	39.0	36.0	37.5	37.5	37.5	37.5
3	DOPD to BPA CEAEA for Wells	23.9	24.1	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.9	23.0	24.0	24.0	24.0	24.0
4	GCPD to BPA CEAEA for Priest Rapids	29.1	29.4	29.3	29.3	29.3	29.3	29.3	29.3	29.3	30.4	28.1	29.3	29.3	29.3	29.3
5	GCPD to BPA CEAEA for Wanpum	28.2	28.4	28.3	28.3	28.3	28.3	28.3	28.3	28.3	29.4	27.2	28.3	28.3	28.3	28.3
6	**Total Imports From PNW**	**136**	**138**	**137**	**137**	**137**	**137**	**137**	**137**	**137**	**143**	**132**	**137**	**137**	**137**	**137**

Table A-15: Non-Federal CER Deliveries to BPA

Operating Year: 2018

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Pacific Northwest															
1	CHPD to BPA CEAEA for Rock Island	18.0	18.1	18.0	18.0	18.0	18.0	18.0	18.0	18.0	17.2	18.6	17.9	17.9	17.9	18.0
2	CHPD to BPA CEAEA for Rocky Reach	37.3	37.6	37.5	37.5	37.5	37.5	37.5	37.5	37.5	35.7	38.7	37.2	37.2	37.2	37.4
3	DOPD to BPA CEAEA for Wells	23.9	24.1	24.0	24.0	24.0	24.0	24.0	24.0	24.0	22.8	24.7	23.8	23.8	23.8	23.9
4	GCPD to BPA CEAEA for Priest Rapids	29.1	29.4	29.3	29.3	29.3	29.3	29.3	29.3	29.3	27.9	30.2	29.0	29.0	29.0	29.2
5	GCPD to BPA CEAEA for Wanpum	28.1	28.4	28.3	28.3	28.3	28.3	28.3	28.3	28.3	26.9	29.2	28.1	28.1	28.1	28.2
6	**Total Imports From PNW**	**136**	**138**	**137**	**137**	**137**	**137**	**137**	**137**	**137**	**131**	**141**	**136**	**136**	**136**	**137**

Table A-15: Non-Federal CER Deliveries to BPA

Operating Year: 2019

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Pacific Northwest															
1	CHPD to BPA CEAEA for Rock Island	17.8	18.0	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.7	17.7	17.7	17.7	17.7	17.8
2	CHPD to BPA CEAEA for Rocky Reach	37.0	37.3	37.2	37.2	37.2	37.2	37.2	37.2	37.2	36.8	36.8	36.8	36.8	36.8	37.0
3	DOPD to BPA CEAEA for Wells	23.7	23.9	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.5	23.5	23.5	23.5	23.5	23.7
4	GCPD to BPA CEAEA for Priest Rapids	28.9	29.2	29.0	29.0	29.0	29.0	29.0	29.0	29.0	28.7	28.7	28.7	28.7	28.7	28.9
5	GCPD to BPA CEAEA for Wanpum	27.9	28.2	28.1	28.1	28.1	28.1	28.1	28.1	28.1	27.8	27.8	27.8	27.8	27.8	28.0
6	**Total Imports From PNW**	**135**	**137**	**136**	**136**	**136**	**136**	**136**	**136**	**136**	**134**	**134**	**134**	**134**	**134**	**135**

Table A-15: Non-Federal CER Deliveries to BPA

Operating Year: 2020

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Pacific Northwest															
1	CHPD to BPA CEAEA for Rock Island	17.6	17.8	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.5	17.5	17.5	17.5	17.5	17.6
2	CHPD to BPA CEAEA for Rocky Reach	36.6	36.9	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.4	36.4	36.4	36.4	36.4	36.6
3	DOPD to BPA CEAEA for Wells	23.4	23.6	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.3	23.3	23.3	23.3	23.3	23.4
4	GCPD to BPA CEAEA for Priest Rapids	28.6	28.9	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.4	28.4	28.4	28.4	28.4	28.6
5	GCPD to BPA CEAEA for Wanpum	27.6	27.9	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.4	27.4	27.4	27.4	27.4	27.7
6	**Total Imports From PNW**	**134**	**135**	**134**	**134**	**134**	**134**	**134**	**134**	**134**	**133**	**133**	**133**	**133**	**133**	**134**

Table A-15: Non-Federal CER Deliveries to BPA

Operating Year: 2021

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Pacific Northwest																
1	CHPD to BPA CEAEA for Rock Island	18.1	17.0	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.3	17.3	17.3	17.3	17.3	17.4
2	CHPD to BPA CEAEA for Rocky Reach	37.6	35.2	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.0	36.0	36.0	36.0	36.0	36.2
3	DOPD to BPA CEAEA for Wells	24.0	22.5	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.0	23.0	23.0	23.0	23.0	23.2
4	GCPD to BPA CEAEA for Priest Rapids	29.3	27.5	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.1	28.1	28.1	28.1	28.1	28.3
5	GCPD to BPA CEAEA for Wanpum	28.4	26.6	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.1	27.1	27.1	27.1	27.1	27.3
6	**Total Imports From PNW**	**137**	**129**	**133**	**133**	**133**	**133**	**133**	**133**	**133**	**131**	**131**	**131**	**131**	**131**	**132**

Table A-15: Non-Federal CER Deliveries to BPA

Operating Year: 2022

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Pacific Northwest															
1	CHPD to BPA CEAEA for Rock Island	16.5	18.1	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.1	17.1	17.1	17.1	17.1	17.3
2	CHPD to BPA CEAEA for Rocky Reach	34.3	37.5	36.0	36.0	36.0	36.0	36.0	36.0	36.0	35.6	35.6	35.6	35.6	35.6	35.8
3	DOPD to BPA CEAEA for Wells	21.9	24.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	22.8	22.8	22.8	22.8	22.8	22.9
4	GCPD to BPA CEAEA for Priest Rapids	26.8	29.3	28.1	28.1	28.1	28.1	28.1	28.1	28.1	27.8	27.8	27.8	27.8	27.8	28.0
5	GCPD to BPA CEAEA for Wanpum	25.9	28.3	27.1	27.1	27.1	27.1	27.1	27.1	27.1	26.9	26.9	26.9	26.9	26.9	27.0
6	**Total Imports From PNW**	**125**	**137**	**131**	**131**	**131**	**131**	**131**	**131**	**131**	**130**	**130**	**130**	**130**	**130**	**131**

Table A-15: Non-Federal CER Deliveries to BPA

Operating Year: 2023

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
	Pacific Northwest															
1	CHPD to BPA CEAEA for Rock Island	17.1	17.2	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.6	16.3	17.0	17.0	17.0	17.1
2	CHPD to BPA CEAEA for Rocky Reach	35.4	35.7	35.6	35.6	35.6	35.6	35.6	35.6	35.6	36.6	33.8	35.2	35.2	35.2	35.5
3	DOPD to BPA CEAEA for Wells	22.6	22.9	22.8	22.8	22.8	22.8	22.8	22.8	22.8	23.4	21.6	22.5	22.5	22.5	22.7
4	GCPD to BPA CEAEA for Priest Rapids	27.6	27.9	27.8	27.8	27.8	27.8	27.8	27.8	27.8	28.6	26.4	27.5	27.5	27.5	27.7
5	GCPD to BPA CEAEA for Wanpum	26.7	27.0	26.9	26.9	26.9	26.9	26.9	26.9	26.9	27.6	25.5	26.6	26.6	26.6	26.8
6	**Total Imports From PNW**	**129**	**131**	**130**	**130**	**130**	**130**	**130**	**130**	**130**	**134**	**124**	**129**	**129**	**129**	**130**

THIS PAGE INTENTIONALLY LEFT BLANK

Exhibit 35
Federal Report Surplus Deficit By Water Year
80 Water Year Federal Surplus/Deficit

Monthly Energy
Operating Year 2014 to 2023
Using 1937-Water Conditions

Federal Report Surplus Deficit By Water Year

Operating Year 2014

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW - Surplus Deficit	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
1	1929 Federal Report Surplus Deficit	852	479	-219	199	225	-713	-851	-940	-256	-399	737	2087	2277	282	249
2	1930 Federal Report Surplus Deficit	-29.4	-711	14.9	-79.2	100	-691	-2105	-818	-393	-161	1366	1931	858	1084	12.9
3	1931 Federal Report Surplus Deficit	207	-534	-28.4	-243	335	-781	-2011	-1728	-912	345	-1107	2491	1095	755	-123
4	1932 Federal Report Surplus Deficit	82.3	-456	-602	-339	-224	-798	-2336	-2163	1172	4314	4135	5217	5086	1162	861
5	1933 Federal Report Surplus Deficit	1092	51.9	410	45.7	-178	-516	1491	1843	2055	2235	1909	3822	5829	3202	1715
6	1934 Federal Report Surplus Deficit	1543	1646	125	806	2410	3869	4571	4260	3564	4838	4275	4309	3182	1404	2880
7	1935 Federal Report Surplus Deficit	-122	-437	-281	-182	-403	-202	1079	1023	1371	2086	1389	3150	2616	2122	979
8	1936 Federal Report Surplus Deficit	1306	-177	-435	27.9	178	-742	-1686	-1525	51.4	523	3612	5100	4301	1071	756
9	1937 Federal Report Surplus Deficit	214	-570	-475	-1.62	439	-638	-1753	-1498	-269	-95.6	-52.1	2876	1588	777	74.8
10	1938 Federal Report Surplus Deficit	-146	-792	-10.8	-132	-242	-22.9	862	848	2277	3429	4402	4308	3801	2014	1428
11	1939 Federal Report Surplus Deficit	227	-170	34.4	169	108	-740	-620	-584	472	2419	2548	4019	1911	868	684
12	1940 Federal Report Surplus Deficit	-214	-963	-370	209	635	-64.2	-894	-588	1557	2364	2837	3622	2826	453	786
13	1941 Federal Report Surplus Deficit	-367	-936	-159	93.2	-87.6	-345	-1096	-856	-405	71.7	752	2656	2468	936	251
14	1942 Federal Report Surplus Deficit	-12.0	-378	433	-320	199	630	900	-476	-20.1	306	2318	3086	4404	2677	1059
15	1943 Federal Report Surplus Deficit	900	223	705	60.3	-244	-110	1641	1549	2454	4645	4949	4361	5121	1692	1876
16	1944 Federal Report Surplus Deficit	741	355	-162	49.3	297	-736	-761	-788	-479	-360	1053	1619	299	409	58.4
17	1945 Federal Report Surplus Deficit	-133	-691	-180	-101	109	-1223	-1710	-1439	-664	-688	-1390	3793	4125	176	125
18	1946 Federal Report Surplus Deficit	456	-381	-17.3	-70.7	54.2	-79.9	774	851	1998	3538	4612	4526	4324	2253	1559
19	1947 Federal Report Surplus Deficit	1482	684	166	15.0	282	2423	3116	3037	2898	2542	2325	4411	4693	2386	2241
20	1948 Federal Report Surplus Deficit	791	-53.0	-35.4	2060	1646	1108	2985	1799	1530	2545	4016	5405	5483	3008	2388
21	1949 Federal Report Surplus Deficit	2006	1684	407	261	222	-54.1	881	-282	3312	3341	4307	5111	4382	266	1691
22	1950 Federal Report Surplus Deficit	-390	-899	-532	21.7	131	-211	2754	2123	3812	4244	3466	4453	4887	2431	1919
23	1951 Federal Report Surplus Deficit	1915	1688	192	898	1956	2558	4070	4072	4724	4249	4059	4480	4304	2808	2996
24	1952 Federal Report Surplus Deficit	1939	1180	131	1631	1005	1199	2389	2000	2686	4250	4474	5127	4689	2167	2413
25	1953 Federal Report Surplus Deficit	1113	248	-471	-10.3	198	-729	-533	1518	1245	1598	1909	4300	5616	2780	1355
26	1954 Federal Report Surplus Deficit	1243	552	71.5	184	511	706	2454	2465	2717	2815	2602	4510	4737	3582	2126
27	1955 Federal Report Surplus Deficit	2083	2046	2145	310	1084	277	-133	-967	-599	599	1533	3662	5555	3725	1526
28	1956 Federal Report Surplus Deficit	1848	1046	-141	444	1571	2492	4036	4022	3801	4100	4712	4874	5334	2937	2926
29	1957 Federal Report Surplus Deficit	1754	1206	70.7	412	176	782	931	-190	2350	4323	2774	5706	5984	1932	1943
30	1958 Federal Report Surplus Deficit	568	-26.2	-96.6	117	311	-310	1102	1000	2050	2685	3133	4913	5078	1571	1575
31	1959 Federal Report Surplus Deficit	433	-143	-200	99.8	954	1943	3592	3256	3044	3463	2479	3859	5146	2177	2240
32	1960 Federal Report Surplus Deficit	1795	1838	2150	2727	2493	1805	2093	954	2053	5279	3848	3899	4361	1929	2575
33	1961 Federal Report Surplus Deficit	732	-236	-303	200	311	93.4	1552	1675	2836	3681	1813	4533	5347	1727	1743
34	1962 Federal Report Surplus Deficit	379	153	-288	39.3	296	-406	1070	1064	758	4139	4526	4399	4826	232	1375
35	1963 Federal Report Surplus Deficit	399	-67.3	-279	483	1146	1613	1383	956	933	1574	1894	3839	4883	2194	1589
36	1964 Federal Report Surplus Deficit	747	52.6	169	17.8	21.7	34.4	285	103	595	3299	1688	4278	5538	3469	1454
37	1965 Federal Report Surplus Deficit	1793	1615	677	822	827	2635	4853	4593	4253	2406	4623	4737	4698	2123	2945
38	1966 Federal Report Surplus Deficit	1794	1409	-218	368	570	321	959	603	159	4358	2251	3432	3155	2155	1369
39	1967 Federal Report Surplus Deficit	851	-129	-174	12.2	47.6	371	2642	3118	3583	1702	67.1	3777	4845	2721	1842
40	1968 Federal Report Surplus Deficit	1267	750	67.2	237	587	342	1810	2183	2360	1148	1022	2336	4685	2432	1589
41	1969 Federal Report Surplus Deficit	1525	924	1130	925	1645	1220	3621	3935	2777	4106	4097	4602	4489	2353	2655
42	1970 Federal Report Surplus Deficit	1295	510	-22.2	157	392	-464	966	874	1401	2104	1184	3964	5227	1183	1350
43	1971 Federal Report Surplus Deficit	261	-166	-265	46.7	202	-189	3856	4442	4358	4068	3763	4891	5155	3519	2484
44	1972 Federal Report Surplus Deficit	2037	1839	526	457	396	638	3527	4207	5365	4877	3172	5080	5236	3432	2895
45	1973 Federal Report Surplus Deficit	2009	1904	972	403	389	288	1019	-202	128	-1164	660	2430	2714	601	878
46	1974 Federal Report Surplus Deficit	-136	-818	-141	-162	-9.45	752	5169	5123	4509	4172	4154	4520	4947	3712	2659
47	1975 Federal Report Surplus Deficit	2052	1911	545	-16.0	253	-156	930	1701	2391	1547	1809	4101	5377	3984	1898
48	1976 Federal Report Surplus Deficit	1866	1106	508	1060	1883	3424	3411	3534	3836	4531	4243	4975	4788	3033	3023
49	1977 Federal Report Surplus Deficit	2289	2338	2579	457	303	-709	-815	-474	-258	-740	828	1218	95.4	161	413
50	1978 Federal Report Surplus Deficit	-237	-696	-506	-727	-453	1343	552	640	1579	4224	2531	4215	3111	2101	1233
51	1979 Federal Report Surplus Deficit	442	-97.4	1230	489	315	-495	120	-859	1685	1243	1969	4950	2197	297	986
52	1980 Federal Report Surplus Deficit	-468	-854	-379	11.6	266	-968	-468	-389	67.5	2102	3248	5342	4848	762	926
53	1981 Federal Report Surplus Deficit	269	-477	-30.2	135	232	2054	2497	1026	977	301	2760	5001	5821	2675	1822
54	1982 Federal Report Surplus Deficit	1658	1667	218	119	603	905	2245	4251	4828	3758	3220	4767	5236	2835	2585

Federal Report Surplus Deficit By Water Year

Operating Year 2014

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW - Surplus Deficit	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
55	1983 Federal Report Surplus Deficit	1947	1971	1381	967	684	1167	2714	2616	4490	3523	2662	4527	4739	2799	2595
56	1984 Federal Report Surplus Deficit	1885	1746	405	286	2137	1114	2154	2278	2921	4810	4539	4619	5723	3104	2598
57	1985 Federal Report Surplus Deficit	1336	479	361	342	679	254	545	515	1233	2995	3276	4690	3084	-606	1261
58	1986 Federal Report Surplus Deficit	-761	-1306	-359	-32.1	1326	325	1317	2372	5412	4010	3724	3614	4631	1520	1903
59	1987 Federal Report Surplus Deficit	529	-290	-208	-16.4	195	336	-211	-1296	995	852	1560	4166	2752	561	729
60	1988 Federal Report Surplus Deficit	-636	-1298	-312	-158	62.7	-1009	-1705	-1443	-399	0.25	1651	2520	2631	1159	105
61	1989 Federal Report Surplus Deficit	-219	-678	-11.8	-383	-241	-287	-744	-777	819	3013	4132	4089	2799	438	738
62	1990 Federal Report Surplus Deficit	-122	-853	-236	-80.3	378	177	1450	1998	2322	2434	4786	3844	4499	1791	1596
63	1991 Federal Report Surplus Deficit	1405	689	-196	-194	1928	1371	2065	2998	2779	3287	2752	4396	4240	2923	2190
64	1992 Federal Report Surplus Deficit	1646	1519	-117	-56.7	256	-651	-725	-830	252	337	1069	3435	2260	186	533
65	1993 Federal Report Surplus Deficit	-629	-1131	-203	-269	90.6	-507	-1868	-1588	643	785	1827	3864	3372	1480	462
66	1994 Federal Report Surplus Deficit	217	-367	95.1	-174	537	-553	-1603	-1496	-260	-167	1367	3237	2811	1004	351
67	1995 Federal Report Surplus Deficit	-91.1	-795	-71.4	-365	-258	-910	-732	1360	2454	2895	1842	3386	4804	1655	1094
68	1996 Federal Report Surplus Deficit	470	-144	603	532	2762	4639	4903	4482	5347	3763	4904	4574	5229	3341	3401
69	1997 Federal Report Surplus Deficit	1875	1622	-162	145	573	1176	4810	5197	5559	4217	5008	4943	5522	3468	3120
70	1998 Federal Report Surplus Deficit	1984	1924	1149	2245	1509	819	649	1095	1201	1498	2518	5392	5545	2078	2141
71	1999 Federal Report Surplus Deficit	1348	-139	-42.9	89.5	-28.2	679	3310	3705	4231	3143	3617	4475	5565	3320	2430
72	2000 Federal Report Surplus Deficit	2127	2013	757	255	2189	1678	1546	1469	2172	4134	4510	3829	3106	1749	2095
73	2001 Federal Report Surplus Deficit	982	-666	-262	96.4	199	-696	-808	-685	-348	-453	732	2012	-211	493	11.1
74	2002 Federal Report Surplus Deficit	-337	-810	-550	-822	-335	-767	-1211	-576	-6.06	3131	3777	3106	4887	2856	787
75	2003 Federal Report Surplus Deficit	1227	388	4.23	-151	438	-594	-1334	-961	1985	2430	2186	3280	4627	525	915
76	2004 Federal Report Surplus Deficit	-383	-1131	-441	69.6	360	90.9	-729	-1027	248	1701	2281	3760	3386	723	645
77	2005 Federal Report Surplus Deficit	-173	-531	196	262	293	598	721	45.1	520	233	1478	3930	3602	946	972
78	2006 Federal Report Surplus Deficit	194	-654	-5.11	-224	289	93.7	1895	1943	2362	4750	4374	5040	4588	1637	1821
79	2007 Federal Report Surplus Deficit	143	-329	-214	-123	452	39.0	1504	162	3501	3096	2512	3979	2961	1954	1419
80	2008 Federal Report Surplus Deficit	165	-929	-505	74.9	239	-485	-258	-766	1056	1434	653	5114	5963	2374	1130

Ranked Averages

81	**Bottom 10 pct**	**275**	**-455**	**-203**	**-29.8**	**221**	**-811**	**-1463**	**-1167**	**-465**	**-226**	**374**	**2416**	**1583**	**642**	**64.1**
82	**Middle 80 pct**	**759**	**199**	**141**	**192**	**454**	**248**	**962**	**932**	**1829**	**2556**	**2738**	**4150**	**4308**	**1883**	**1519**
83	**Top 10 pct**	**1668**	**1302**	**291**	**645**	**1547**	**2679**	**4273**	**4296**	**4556**	**4123**	**4375**	**4747**	**4787**	**2818**	**3023**

Federal Report Surplus Deficit By Water Year

Operating Year 2015

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW - Surplus Deficit	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
1	1929 Federal Report Surplus Deficit	1064	731	-150	-66.0	-92.3	-990	-1032	-884	-373	-531	829	1339	1335	-587	-35.2
2	1930 Federal Report Surplus Deficit	180	-463	84.4	-149	-82.9	-931	-1676	-788	-312	-80.6	1267	1501	-648	836	-140
3	1931 Federal Report Surplus Deficit	417	-286	41.5	-181	32.9	-869	-1979	-1847	-686	268	-232	2090	352	321	-211
4	1932 Federal Report Surplus Deficit	292	-207	-534	-470	-526	-979	-2464	-2210	1001	4195	3886	4691	4271	859	653
5	1933 Federal Report Surplus Deficit	1305	303	480	-46.0	-488	-398	1251	1642	1937	2080	1717	3417	4948	2950	1528
6	1934 Federal Report Surplus Deficit	1757	1902	195	534	2090	3655	4359	4049	3414	4530	3982	3758	2339	1021	2618
7	1935 Federal Report Surplus Deficit	87.6	-187	-212	-92.6	-796	-6.23	887	1233	1991	1205	1189	2860	1811	1970	900
8	1936 Federal Report Surplus Deficit	1519	72.8	-368	-206	-193	-979	-1403	-1424	-104	667	3509	4138	3347	635	534
9	1937 Federal Report Surplus Deficit	424	-321	-407	-206	61.5	-906	-1578	-1707	-476	-197	-173	2181	518	206	-195
10	1938 Federal Report Surplus Deficit	63.0	-544	58.7	-46.4	-386	312	463	481	2440	2814	4172	3702	3442	1514	1271
11	1939 Federal Report Surplus Deficit	437	80.3	104	0.22	-207	-1009	-562	-265	638	1600	2425	3466	466	411	446
12	1940 Federal Report Surplus Deficit	-4.94	-716	-301	92.9	157	226	-570	-984	2904	1996	1656	2879	907	323	603
13	1941 Federal Report Surplus Deficit	-159	-689	-89.6	-64.6	-283	5.04	-1253	-940	-133	21.8	611	2234	703	871	85.4
14	1942 Federal Report Surplus Deficit	197	-129	504	-149	319	422	421	47.0	983	685	2025	2517	2643	2359	959
15	1943 Federal Report Surplus Deficit	1113	475	777	-15.5	-562	-155	1269	1736	2456	4227	4688	3697	4287	1435	1674
16	1944 Federal Report Surplus Deficit	953	606	-93.7	-278	-77.6	-1014	-955	-836	-443	-511	855	1010	-730	-9.86	-202
17	1945 Federal Report Surplus Deficit	76.6	-443	-111	-112	-137	-1019	-1898	-1229	-447	-695	-1487	3274	3336	-234	16.6
18	1946 Federal Report Surplus Deficit	667	-132	51.9	-224	-258	252	564	756	1766	3295	4355	3946	3575	1995	1375
19	1947 Federal Report Surplus Deficit	1696	937	236	-275	63.9	2296	2505	2561	3270	2440	2115	3969	3894	2210	2026
20	1948 Federal Report Surplus Deficit	1003	197	34.0	1772	1326	999	2772	1741	1582	2415	3846	4744	4556	2818	2174
21	1949 Federal Report Surplus Deficit	2222	1940	478	-21.7	-98.6	-148	510	67.0	3163	3198	3785	4273	3663	-96.9	1453
22	1950 Federal Report Surplus Deficit	-182	-652	-464	-162	-186	-133	2341	2545	3548	4068	3184	3923	3966	2242	1728
23	1951 Federal Report Surplus Deficit	2131	1944	261	605	1636	2429	3956	4221	4190	3918	3779	3847	3143	2703	2733
24	1952 Federal Report Surplus Deficit	2155	1435	201	1354	684	1090	2179	1608	2514	3985	4477	4462	3905	1812	2155
25	1953 Federal Report Surplus Deficit	1326	499	-403	-276	-338	-917	668	513	1287	1447	1655	3746	4684	2576	1169
26	1954 Federal Report Surplus Deficit	1457	805	141	-109	190	603	1940	2172	2564	2628	2464	3859	3906	3296	1851
27	1955 Federal Report Surplus Deficit	2299	2304	2221	27.5	763	181	-331	-424	-31.9	933	1385	3066	4557	3443	1418
28	1956 Federal Report Surplus Deficit	2064	1300	-71.6	167	1250	2365	3817	3768	3557	3797	4479	4184	4455	2764	2665
29	1957 Federal Report Surplus Deficit	1969	1461	140	119	-145	674	819	-114	2174	4262	2297	4944	5133	1852	1726
30	1958 Federal Report Surplus Deficit	779	224	-27.2	-105	-7.40	-437	1054	958	1928	2577	2986	4198	4149	1174	1346
31	1959 Federal Report Surplus Deficit	644	107	-131	-23.8	466	1817	3378	3033	2848	3310	2333	3391	4275	1813	1997
32	1960 Federal Report Surplus Deficit	2010	2095	2227	2468	2173	1678	1882	666	1894	5021	3601	3436	3548	1814	2352
33	1961 Federal Report Surplus Deficit	943	14.3	-235	-72.0	-56.9	-1.44	1331	1815	2560	2983	1628	3965	4489	1638	1513
34	1962 Federal Report Surplus Deficit	589	404	-220	-216	-20.6	-434	848	939	272	4323	4138	3842	3953	32.9	1136
35	1963 Federal Report Surplus Deficit	610	183	-211	251	771	1503	1792	1076	1523	1130	1448	3106	2825	1909	1356
36	1964 Federal Report Surplus Deficit	959	303	239	-237	-290	-109	63.6	-191	287	3191	1490	3739	4660	3260	1204
37	1965 Federal Report Surplus Deficit	2008	1871	749	540	506	2508	4694	4334	3885	2104	4436	4082	3917	2256	2716
38	1966 Federal Report Surplus Deficit	2009	1664	-149	82.7	243	224	737	379	319	4178	2210	2606	2365	1904	1148
39	1967 Federal Report Surplus Deficit	1063	122	-104	-240	-270	214	2655	2619	3043	1553	29.3	3190	4093	2598	1593
40	1968 Federal Report Surplus Deficit	1481	1003	137	-53.2	263	247	1929	1467	2376	998	871	1928	3834	2147	1370
41	1969 Federal Report Surplus Deficit	1739	1177	1203	643	1325	1111	3405	3672	2619	3657	3667	4062	3672	2181	2406
42	1970 Federal Report Surplus Deficit	1509	762	47.1	-86.5	77.4	-583	1131	912	1464	1968	560	3225	4346	1123	1169
43	1971 Federal Report Surplus Deficit	471	84.3	-196	-234	-117	-348	3604	4219	4160	3814	3636	4396	4394	3214	2244
44	1972 Federal Report Surplus Deficit	2253	2095	597	163	74.8	543	3307	3994	4901	4559	2892	4459	4368	3186	2617
45	1973 Federal Report Surplus Deficit	2225	2162	1045	113	68.1	193	953	50.1	-62.5	-1315	509	2001	584	271	591
46	1974 Federal Report Surplus Deficit	73.3	-570	-71.6	-132	-550	1282	4956	4889	4386	3685	3656	3911	4067	3437	2453
47	1975 Federal Report Surplus Deficit	2268	2168	616	-327	-66.3	-247	664	1514	2074	1396	1657	3469	4554	3764	1647
48	1976 Federal Report Surplus Deficit	2082	1360	579	778	1563	3294	3200	3291	3608	4340	4016	4373	3817	2978	2779
49	1977 Federal Report Surplus Deficit	2506	2596	2657	175	-15.7	-991	-1013	-619	-183	-942	685	850	-1313	-55.1	165
50	1978 Federal Report Surplus Deficit	-28.2	-447	-437	-566	-707	905	751	1043	1733	4025	2358	3605	2345	2273	1159
51	1979 Federal Report Surplus Deficit	652	153	1303	207	0.18	-468	317	-960	1595	1093	1808	4012	1087	-221	738
52	1980 Federal Report Surplus Deficit	-261	-606	-311	-159	-58.7	-1238	-114	-352	-141	1992	3124	4774	4055	538	760
53	1981 Federal Report Surplus Deficit	479	-228	39.3	-75.1	-83.3	1834	2226	1867	1843	45.8	1862	3454	4884	2407	1622
54	1982 Federal Report Surplus Deficit	1873	1923	289	-131	246	797	2025	4159	4698	3655	3034	4135	4385	2817	2377

Federal Report Surplus Deficit By Water Year

Operating Year 2015

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW - Surplus Deficit	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
55	1983 Federal Report Surplus Deficit	2162	2228	1454	686	363	1059	2479	2443	4203	3341	2211	3803	3689	2888	2338
56	1984 Federal Report Surplus Deficit	2101	2002	476	2.90	1817	1006	1902	2149	2748	4616	4048	4138	4786	2849	2351
57	1985 Federal Report Surplus Deficit	1550	731	432	54.7	358	160	307	272	1033	2838	3034	4084	1980	-848	992
58	1986 Federal Report Surplus Deficit	-554	-1060	-291	407	1121	149	1051	2177	4952	3823	3537	3198	3829	1287	1721
59	1987 Federal Report Surplus Deficit	740	-40.6	-139	-290	-127	241	40.6	-1083	1372	701	1413	3038	1845	89.3	544
60	1988 Federal Report Surplus Deficit	-429	-1051	-244	-249	-171	-1271	-1522	-1656	-248	98.5	1433	2043	645	1055	-125
61	1989 Federal Report Surplus Deficit	-10.4	-430	57.5	-291	-380	-29.7	-1078	-1002	855	2907	3939	3656	2004	-195	571
62	1990 Federal Report Surplus Deficit	87.2	-605	-167	-178	185	520	1346	1502	2118	2121	4579	3481	3732	1380	1412
63	1991 Federal Report Surplus Deficit	1619	942	-127	-484	1595	1277	2204	2178	2482	3080	2205	3893	3669	2755	1944
64	1992 Federal Report Surplus Deficit	1861	1774	-47.6	-347	-64.5	-683	-347	-1022	1217	54.1	681	1789	64.4	-30.5	238
65	1993 Federal Report Surplus Deficit	-421	-883	-134	-192	-216	-566	-1560	-1798	490	666	1740	3453	2627	786	297
66	1994 Federal Report Surplus Deficit	427	-118	164	-235	230	-661	-1469	-951	-379	-271	1293	2885	1703	643	220
67	1995 Federal Report Surplus Deficit	118	-547	-1.68	-327	-563	-486	-827	1789	2768	1563	1234	2714	3754	1609	958
68	1996 Federal Report Surplus Deficit	681	106	675	783	2443	4369	4693	4289	5012	3481	4415	3858	4428	3107	3159
69	1997 Federal Report Surplus Deficit	2090	1878	-93.2	-147	251	1068	4628	4892	5242	3900	4656	4281	4611	3249	2843
70	1998 Federal Report Surplus Deficit	2200	2181	1222	1986	1188	722	515	1091	1142	1120	2011	4366	4538	1893	1872
71	1999 Federal Report Surplus Deficit	1562	111	26.4	-164	-406	627	3169	3383	4264	2963	3113	3910	4718	3097	2200
72	2000 Federal Report Surplus Deficit	2344	2270	829	23.4	1821	1567	1342	1341	1908	3882	4200	3133	2458	1765	1878
73	2001 Federal Report Surplus Deficit	1195	-417	-193	-144	-121	-976	-992	-855	-176	-648	840	1549	-1612	55.1	-243
74	2002 Federal Report Surplus Deficit	-129	-562	-482	-632	-590	-240	-1073	-650	170	2231	3618	2727	4071	2601	709
75	2003 Federal Report Surplus Deficit	1440	640	73.4	-435	127	-853	-1361	-959	2250	2279	2035	2861	3872	-83.7	727
76	2004 Federal Report Surplus Deficit	-174	-884	-373	-67.7	-15.3	496	-914	-1252	1302	1470	1484	2901	2586	-154	463
77	2005 Federal Report Surplus Deficit	35.6	-282	266	11.2	-27.8	501	499	442	400	81.6	1327	3367	2577	450	756
78	2006 Federal Report Surplus Deficit	404	-406	64.2	-166	-31.2	54.7	1674	1695	2204	4276	4107	4490	3851	1162	1592
79	2007 Federal Report Surplus Deficit	353	-79.6	-145	-532	257	182	1386	191	3357	2942	2324	3435	2121	1699	1234
80	2008 Federal Report Surplus Deficit	375	-682	-437	-31.6	-127	-329	-354	-197	420	1385	342	4419	5074	2143	944
	Ranked Averages															
81	**Bottom 10 pct**	**485**	**-205**	**-134**	**-173**	**-73.4**	**-997**	**-1454**	**-1225**	**-395**	**-287**	**416**	**1873**	**399**	**205**	**-142**
82	**Middle 80 pct**	**971**	**451**	**211**	**20.1**	**140**	**219**	**867**	**869**	**1851**	**2321**	**2456**	**3525**	**3335**	**1614**	**1313**
83	**Top 10 pct**	**1883**	**1557**	**361**	**428**	**1227**	**2529**	**4082**	**4105**	**4226**	**3829**	**4082**	**4105**	**3885**	**2658**	**2766**

Federal Report Surplus Deficit By Water Year

Operating Year 2016

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW - Surplus Deficit	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
1	1929 Federal Report Surplus Deficit	750	713	-337	-59.9	-82.3	-981	-1002	-708	-366	-522	840	1753	2104	-407	66.9
2	1930 Federal Report Surplus Deficit	-7.94	-331	-313	-143	-72.8	-922	-1647	-611	-304	-70.5	1279	1916	118	1017	-42.8
3	1931 Federal Report Surplus Deficit	230	-343	-594	-175	43.1	-861	-1951	-1672	-678	278	-222	2506	1120	502	-145
4	1932 Federal Report Surplus Deficit	201	-584	-671	-464	-516	-971	-2436	-2035	1011	4185	3877	5034	4970	1041	734
5	1933 Federal Report Surplus Deficit	1073	353	-52.4	-39.8	-478	-389	1284	1822	1948	2092	1729	3838	5684	3135	1610
6	1934 Federal Report Surplus Deficit	1683	1842	-53.8	541	2103	3669	4395	4231	3423	4526	3978	4169	3105	1203	2730
7	1935 Federal Report Surplus Deficit	-174	-426	-686	-86.6	-787	3.56	919	1412	2002	1217	1201	3268	2578	2153	975
8	1936 Federal Report Surplus Deficit	1599	228	-536	-200	-183	-971	-1374	-1249	-95.8	673	3519	4692	4144	804	671
9	1937 Federal Report Surplus Deficit	337	-458	-609	-200	71.7	-898	-1549	-1531	-469	-187	-163	2597	1286	387	-91.6
10	1938 Federal Report Surplus Deficit	199	-466	-667	-40.3	-376	322	495	659	2451	2803	4164	4173	4173	1680	1351
11	1939 Federal Report Surplus Deficit	302	-259	-150	6.41	-197	-1000	-532	-88.4	647	1609	2436	3950	1232	591	543
12	1940 Federal Report Surplus Deficit	-139	-557	-550	99.2	167	236	-540	-808	2912	2007	1666	3290	1675	504	713
13	1941 Federal Report Surplus Deficit	-29.9	-640	-693	-58.5	-273	14.8	-1223	-764	-125	32.2	623	2654	1471	1053	175
14	1942 Federal Report Surplus Deficit	152	-457	-586	-143	329	433	452	224	992	693	2034	2923	3391	2543	983
15	1943 Federal Report Surplus Deficit	1034	250	296	-9.38	-552	-145	1301	1915	2466	4162	4544	4266	5130	1619	1766
16	1944 Federal Report Surplus Deficit	957	421	-389	-272	-67.5	-1005	-926	-660	-435	-503	866	1424	35.5	171	-103
17	1945 Federal Report Surplus Deficit	-144	-634	-926	-106	-127	-1011	-1870	-1054	-440	-686	-1479	3736	4114	44.4	75.2
18	1946 Federal Report Surplus Deficit	438	-149	-501	-218	-248	263	595	934	1775	3255	4318	4324	4259	2177	1438
19	1947 Federal Report Surplus Deficit	1586	787	-75.4	-269	74.2	2308	2539	2741	3277	2449	2121	4417	4689	2395	2130
20	1948 Federal Report Surplus Deficit	1184	92.9	-161	1780	1338	1010	2806	1921	1592	2399	3833	5246	5342	2992	2301
21	1949 Federal Report Surplus Deficit	1949	2054	629	-15.5	-88.5	-139	542	244	3170	3170	3757	4709	4384	83.3	1583
22	1950 Federal Report Surplus Deficit	-234	-686	-749	-156	-176	-123	2375	2726	3533	4072	3188	4426	4743	2428	1844
23	1951 Federal Report Surplus Deficit	2132	1724	25.9	612	1648	2442	3992	4404	4174	3897	3758	4279	3887	2888	2838
24	1952 Federal Report Surplus Deficit	1913	1643	-36.8	1362	695	1101	2212	1787	2523	3928	4422	4894	4601	1995	2258
25	1953 Federal Report Surplus Deficit	932	6.35	-633	-270	-328	-909	700	691	1296	1458	1667	4171	5424	2761	1243
26	1954 Federal Report Surplus Deficit	920	475	-96.7	-103	201	613	1974	2352	2576	2637	2474	4313	4620	3514	1933
27	1955 Federal Report Surplus Deficit	2238	2243	2004	33.7	774	191	-301	-247	-23.7	944	1396	3482	5221	3619	1515
28	1956 Federal Report Surplus Deficit	1930	1296	-325	173	1262	2377	3853	3950	3547	3755	4464	4639	5131	2953	2769
29	1957 Federal Report Surplus Deficit	1902	1397	-96.0	125	-135	685	851	63.5	2185	4266	2298	5363	5814	2035	1823
30	1958 Federal Report Surplus Deficit	922	-50.6	-309	-98.5	2.77	-427	1087	1137	1939	2580	2990	4678	4911	1356	1454
31	1959 Federal Report Surplus Deficit	267	64.4	-327	-17.7	477	1829	3413	3214	2858	3309	2330	3772	4913	1995	2087
32	1960 Federal Report Surplus Deficit	1949	2034	2010	2477	2186	1690	1916	844	1904	4995	3573	3837	4296	1997	2454
33	1961 Federal Report Surplus Deficit	1034	-51.5	-420	-65.9	-46.8	8.36	1364	1995	2571	2996	1641	4413	5224	1820	1634
34	1962 Federal Report Surplus Deficit	870	210	-449	-211	-10.4	-424	881	1118	281	4208	4023	4246	4683	213	1239
35	1963 Federal Report Surplus Deficit	618	-40.6	-454	258	783	1515	1825	1254	1533	1142	1460	3501	3578	2084	1457
36	1964 Federal Report Surplus Deficit	893	178	5.39	-232	-280	-99.3	94.7	-13.9	295	3204	1499	4145	5440	3461	1309
37	1965 Federal Report Surplus Deficit	1947	1811	502	547	517	2521	4731	4516	3889	2099	4434	4534	4660	2433	2830
38	1966 Federal Report Surplus Deficit	1948	1585	-386	89.0	254	234	769	557	327	4189	2217	3033	3137	2087	1256
39	1967 Federal Report Surplus Deficit	1350	20.1	-313	-234	-260	224	2690	2799	3050	1566	39.5	3612	4750	2775	1712
40	1968 Federal Report Surplus Deficit	1617	925	-99.9	-47.0	273	257	1963	1647	2386	1009	881	2339	4562	2369	1487
41	1969 Federal Report Surplus Deficit	1714	1098	974	650	1336	1122	3440	3854	2630	3572	3583	4547	4391	2364	2516
42	1970 Federal Report Surplus Deficit	1249	704	-173	-80.4	87.6	-574	1163	1091	1472	1981	571	3639	5079	1305	1269
43	1971 Federal Report Surplus Deficit	69.1	-295	-390	-229	-107	-339	3640	4401	4118	3758	3580	4835	5125	3411	2326
44	1972 Federal Report Surplus Deficit	2192	2035	361	169	85.1	553	3343	4176	4949	4594	2925	5005	5173	3376	2751
45	1973 Federal Report Surplus Deficit	2165	2101	817	120	78.4	203	985	228	-54.4	-1306	520	2415	1351	452	700
46	1974 Federal Report Surplus Deficit	76.6	-670	-654	-126	-540	1293	4993	5073	4277	3777	3747	4439	4839	3655	2552
47	1975 Federal Report Surplus Deficit	2117	2115	613	-321	-56.2	-237	696	1693	2084	1405	1667	3976	5231	3957	1773
48	1976 Federal Report Surplus Deficit	2072	1427	332	786	1575	3308	3235	3473	3610	4325	4001	4848	4556	3157	2898
49	1977 Federal Report Surplus Deficit	2445	2536	2440	181	-5.58	-982	-983	-442	-175	-933	696	1264	-548	125	273
50	1978 Federal Report Surplus Deficit	-71.5	-740	-1250	-560	-697	916	783	1222	1743	4014	2345	4050	3110	2456	1212
51	1979 Federal Report Surplus Deficit	578	13.2	584	213	10.4	-459	348	-783	1605	1104	1821	4448	1855	-40.6	801
52	1980 Federal Report Surplus Deficit	-295	-628	-402	-153	-48.6	-1230	-83.0	-175	-133	2008	3141	5256	4812	736	887
53	1981 Federal Report Surplus Deficit	284	-448	-167	-69.0	-73.2	1846	2260	2047	1852	55.0	1873	3856	5566	2589	1714
54	1982 Federal Report Surplus Deficit	1812	1865	217	-124	256	808	2059	4342	4674	3625	3003	4484	5071	2998	2487

Federal Report Surplus Deficit By Water Year

Operating Year 2016

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW - Surplus Deficit	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
55	1983 Federal Report Surplus Deficit	2102	2168	1225	693	373	1070	2513	2624	4188	3369	2237	4280	4408	3082	2451
56	1984 Federal Report Surplus Deficit	2048	2132	229	9.09	1830	1017	1936	2329	2758	4582	4013	4503	5392	3030	2447
57	1985 Federal Report Surplus Deficit	2059	1039	219	61.0	368	170	339	450	1043	2846	3044	4592	2748	-669	1149
58	1986 Federal Report Surplus Deficit	-660	-933	-582	414	1132	159	1083	2357	5108	3850	3563	3623	4600	1469	1849
59	1987 Federal Report Surplus Deficit	661	-191	-348	-284	-117	251	71.7	-907	1382	711	1425	3450	2613	270	646
60	1988 Federal Report Surplus Deficit	-356	-849	-778	-243	-161	-1263	-1493	-1480	-240	109	1445	2458	1412	1237	-27.9
61	1989 Federal Report Surplus Deficit	166	-417	-723	-285	-370	-19.9	-1048	-826	864	2896	3929	4059	2771	-15.1	641
62	1990 Federal Report Surplus Deficit	-69.2	-456	-498	-172	195	530	1379	1681	2129	2126	4587	3901	4492	1563	1519
63	1991 Federal Report Surplus Deficit	1375	747	-369	-479	1607	1288	2238	2358	2494	3093	2216	4303	4430	2938	2041
64	1992 Federal Report Surplus Deficit	1800	1714	-264	-341	-54.4	-675	-316	-846	1227	64.4	692	2204	831	150	345
65	1993 Federal Report Surplus Deficit	-336	-810	-983	-186	-206	-556	-1530	-1623	499	678	1753	3893	3399	967	364
66	1994 Federal Report Surplus Deficit	485	-7.12	-406	-229	240	-652	-1440	-775	-372	-261	1304	3301	2472	825	311
67	1995 Federal Report Surplus Deficit	61.3	-570	-563	-321	-554	-477	-797	1969	2774	1573	1244	3125	4509	1791	1043
68	1996 Federal Report Surplus Deficit	497	-52.4	-50.9	790	2456	4384	4730	4472	4897	3455	4390	4296	5140	3300	3209
69	1997 Federal Report Surplus Deficit	1961	1885	-198	-141	262	1079	4665	5076	5184	3937	4694	4742	5271	3447	2963
70	1998 Federal Report Surplus Deficit	2135	2185	1022	1995	1200	733	547	1269	1152	1125	2018	4953	5274	2078	1997
71	1999 Federal Report Surplus Deficit	1796	649	-213	-158	-396	638	3204	3565	4262	2952	3101	4309	5307	3256	2331
72	2000 Federal Report Surplus Deficit	2197	2190	640	29.6	1833	1579	1374	1520	1918	3882	4200	3521	3216	1947	1982
73	2001 Federal Report Surplus Deficit	1134	-601	-418	-138	-111	-968	-962	-679	-168	-639	851	1964	-847	236	-141
74	2002 Federal Report Surplus Deficit	-184	-723	-1349	-626	-580	-231	-1043	-473	179	2240	3629	3139	4779	2785	753
75	2003 Federal Report Surplus Deficit	1146	209	-337	-430	137	-844	-1332	-783	2261	2292	2047	3264	4630	96.6	790
76	2004 Federal Report Surplus Deficit	-463	-831	-817	-61.6	-5.10	507	-884	-1076	1312	1482	1496	3315	3355	26.6	546
77	2005 Federal Report Surplus Deficit	-214	-471	533	17.4	-17.6	512	531	620	409	91.9	1339	3777	3335	631	892
78	2006 Federal Report Surplus Deficit	360	-392	-360	-160	-21.0	64.6	1707	1874	2212	4225	4055	4762	4424	1344	1658
79	2007 Federal Report Surplus Deficit	784	-635	-589	-526	268	192	1418	369	3364	2954	2335	3826	2888	1881	1321
80	2008 Federal Report Surplus Deficit	180	-575	-923	-25.4	-117	-320	-323	-19.8	429	1397	353	4881	5807	2328	1033
	Ranked Averages															
81	**Bottom 10 pct**	**362**	**-260**	**-545**	**-167**	**-63.3**	**-989**	**-1425**	**-1049**	**-388**	**-277**	**427**	**2294**	**1168**	**398**	**-51.0**
82	**Middle 80 pct**	**908**	**373**	**-119**	**26.4**	**150**	**229**	**900**	**1048**	**1858**	**2320**	**2454**	**3956**	**4072**	**1798**	**1411**
83	**Top 10 pct**	**1802**	**1496**	**74.2**	**435**	**1238**	**2542**	**4118**	**4287**	**4209**	**3824**	**4080**	**4564**	**4615**	**2844**	**2873**

Federal Report Surplus Deficit By Water Year

Operating Year 2017

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW - Surplus Deficit	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
1	1929 Federal Report Surplus Deficit	791	716	-369	-98.0	-202	-1080	-1158	-994	-463	-615	795	1246	1310	-592	-126
2	1930 Federal Report Surplus Deficit	32.5	-329	-345	-181	-193	-1021	-1803	-897	-401	-164	1234	1409	-675	832	-237
3	1931 Federal Report Surplus Deficit	270	-341	-625	-213	-76.7	-959	-2106	-1958	-775	185	-267	2000	326	317	-336
4	1932 Federal Report Surplus Deficit	241	-583	-703	-502	-636	-1069	-2591	-2321	913	4070	3810	4579	4206	856	551
5	1933 Federal Report Surplus Deficit	1115	355	-83.6	-78.0	-598	-488	1128	1536	1850	1996	1682	3314	4847	2945	1409
6	1934 Federal Report Surplus Deficit	1707	1828	-84.9	503	1983	3571	4240	3946	3324	4433	3933	3676	2318	1018	2530
7	1935 Federal Report Surplus Deficit	-133	-423	-717	-125	-907	-94.9	763	1126	1905	1123	1156	2748	1782	1968	777
8	1936 Federal Report Surplus Deficit	1623	231	-568	-238	-303	-1069	-1529	-1535	-193	579	3474	4222	3360	620	484
9	1937 Federal Report Surplus Deficit	378	-456	-641	-238	-48.1	-996	-1705	-1817	-566	-281	-209	2085	492	202	-283
10	1938 Federal Report Surplus Deficit	239	-464	-699	-78.4	-496	224	339	373	2351	2685	4094	3575	3388	1497	1148
11	1939 Federal Report Surplus Deficit	343	-257	-181	-31.7	-317	-1099	-688	-374	550	1513	2388	3400	440	407	345
12	1940 Federal Report Surplus Deficit	-98.8	-555	-581	61.0	47.2	138	-696	-1094	2812	1911	1619	2785	881	319	521
13	1941 Federal Report Surplus Deficit	10.4	-638	-725	-96.7	-393	-83.6	-1379	-1050	-222	-61.7	578	2149	678	868	-18.1
14	1942 Federal Report Surplus Deficit	193	-455	-618	-181	209	334	297	-61.5	895	598	1989	2405	2606	2356	789
15	1943 Federal Report Surplus Deficit	1075	253	265	-47.5	-672	-243	1145	1629	2366	4030	4451	3657	4310	1434	1555
16	1944 Federal Report Surplus Deficit	998	424	-421	-310	-187	-1104	-1081	-946	-533	-596	821	919	-758	-14.3	-296
17	1945 Federal Report Surplus Deficit	-104	-633	-958	-144	-247	-1109	-2025	-1340	-537	-780	-1525	3218	3332	-153	-118
18	1946 Federal Report Surplus Deficit	479	-147	-533	-256	-368	164	440	648	1678	3194	4304	3890	3551	1993	1260
19	1947 Federal Report Surplus Deficit	1610	791	-107	-308	-45.6	2210	2383	2456	3172	2345	2061	3862	3859	2208	1923
20	1948 Federal Report Surplus Deficit	1226	95.5	-192	1742	1218	912	2651	1635	1495	2304	3786	4750	4645	2813	2116
21	1949 Federal Report Surplus Deficit	1974	2041	599	-53.7	-208	-237	386	-41.5	3066	3078	3714	4194	3638	-101	1393
22	1950 Federal Report Surplus Deficit	-194	-684	-780	-194	-296	-221	2219	2440	3427	3958	3122	3845	3990	2242	1640
23	1951 Federal Report Surplus Deficit	2157	1729	-5.20	574	1528	2343	3836	4118	4065	3801	3710	3787	3131	2703	2641
24	1952 Federal Report Surplus Deficit	1937	1647	-67.8	1324	575	1003	2057	1501	2423	3824	4366	4418	3838	1810	2067
25	1953 Federal Report Surplus Deficit	973	8.89	-665	-308	-448	-1007	544	405	1199	1363	1619	3670	4816	2573	1065
26	1954 Federal Report Surplus Deficit	961	478	-128	-141	80.8	515	1818	2066	2478	2538	2422	3794	3900	3337	1741
27	1955 Federal Report Surplus Deficit	2263	2231	1976	-4.40	654	92.4	-456	-533	-121	850	1351	2972	4522	3428	1330
28	1956 Federal Report Surplus Deficit	1955	1300	-356	135	1142	2279	3697	3664	3428	3702	4418	4151	4468	2765	2581
29	1957 Federal Report Surplus Deficit	1927	1402	-127	87.1	-254	586	695	-222	2083	4154	2235	4891	5127	1850	1642
30	1958 Federal Report Surplus Deficit	963	-48.2	-340	-137	-117	-526	931	851	1840	2475	2933	4168	4189	1172	1264
31	1959 Federal Report Surplus Deficit	308	67.0	-358	-55.8	357	1731	3258	2928	2759	3205	2275	3263	4176	1812	1892
32	1960 Federal Report Surplus Deficit	1974	2021	1982	2439	2066	1592	1760	558	1807	4868	3495	3330	3506	1811	2259
33	1961 Federal Report Surplus Deficit	1075	-49.1	-452	-104	-167	-90.1	1208	1709	2474	2902	1595	3864	4467	1636	1437
34	1962 Federal Report Surplus Deficit	912	213	-480	-249	-130	-523	725	832	183	4229	4092	3747	3929	28.5	1058
35	1963 Federal Report Surplus Deficit	659	-38.2	-486	220	663	1417	1670	968	1436	1046	1414	2967	2792	1918	1262
36	1964 Federal Report Surplus Deficit	935	180	-25.6	-270	-400	-198	-61.0	-300	198	3105	1449	3626	4631	3260	1113
37	1965 Federal Report Surplus Deficit	1972	1798	472	509	397	2423	4575	4230	3783	1999	4383	4003	3882	2248	2626
38	1966 Federal Report Surplus Deficit	1973	1590	-418	50.8	134	136	613	271	230	4081	2159	2525	2346	1903	1061
39	1967 Federal Report Surplus Deficit	1374	22.6	-345	-273	-380	126	2534	2513	2944	1470	-7.85	3049	4030	2596	1514
40	1968 Federal Report Surplus Deficit	1641	928	-131	-85.2	154	158	1807	1361	2287	915	835	1835	3809	2143	1291
41	1969 Federal Report Surplus Deficit	1738	1102	944	612	1217	1023	3284	3569	2532	3528	3586	4127	3689	2181	2335
42	1970 Federal Report Surplus Deficit	1273	707	-204	-119	-32.2	-673	1008	805	1373	1886	524	3121	4358	1241	1088
43	1971 Federal Report Surplus Deficit	110	-293	-421	-267	-226	-437	3484	4115	3991	3645	3515	4406	4418	3233	2135
44	1972 Federal Report Surplus Deficit	2217	2022	330	131	-34.7	455	3187	3890	4763	4450	2830	4385	4544	3195	2543
45	1973 Federal Report Surplus Deficit	2190	2088	787	81.4	-41.5	105	829	-58.4	-152	-1400	475	1910	558	267	504
46	1974 Federal Report Surplus Deficit	117	-668	-686	-164	-660	1195	4837	4787	4234	3667	3686	3954	4105	3469	2359
47	1975 Federal Report Surplus Deficit	2142	2102	582	-359	-176	-336	540	1407	1987	1306	1617	3446	4533	3764	1582
48	1976 Federal Report Surplus Deficit	2097	1431	301	747	1455	3210	3080	3187	3506	4237	3961	4356	3800	2976	2705
49	1977 Federal Report Surplus Deficit	2471	2523	2412	143	-125	-1080	-1139	-728	-272	-1027	650	758	-1341	-59.5	78.5
50	1978 Federal Report Surplus Deficit	-31.1	-739	-1282	-598	-817	817	628	936	1646	3908	2287	3555	2319	2272	1017
51	1979 Federal Report Surplus Deficit	619	15.6	554	175	-109	-557	193	-1069	1508	1010	1776	3899	1060	-225	606
52	1980 Federal Report Surplus Deficit	-255	-626	-434	-191	-168	-1328	-239	-461	-230	1904	3086	4736	4040	528	692
53	1981 Federal Report Surplus Deficit	325	-446	-198	-107	-193	1748	2104	1761	1757	-37.6	1829	3343	4855	2404	1525
54	1982 Federal Report Surplus Deficit	1837	1852	187	-163	136	710	1903	4056	4556	3537	2964	4051	4353	2814	2297

Federal Report Surplus Deficit By Water Year

Operating Year 2017

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW - Surplus Deficit	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
55	1983 Federal Report Surplus Deficit	2126	2155	1195	655	254	972	2357	2338	3982	3244	2161	3750	3603	2893	2239
56	1984 Federal Report Surplus Deficit	2073	2119	198	-29.1	1710	919	1780	2044	2660	4516	3996	4015	4723	2843	2265
57	1985 Federal Report Surplus Deficit	2083	1043	188	22.8	249	71.2	183	164	945	2754	2999	4047	1951	-854	951
58	1986 Federal Report Surplus Deficit	-620	-932	-614	375	1013	60.1	927	2071	4789	3727	3489	3101	3811	1162	1619
59	1987 Federal Report Surplus Deficit	702	-189	-380	-322	-236	152	-84.1	-1193	1285	618	1380	2939	1821	85.0	454
60	1988 Federal Report Surplus Deficit	-316	-848	-810	-281	-280	-1361	-1648	-1766	-337	15.1	1400	1952	619	1052	-219
61	1989 Federal Report Surplus Deficit	207	-415	-755	-323	-490	-118	-1204	-1111	767	2810	3892	3555	1978	-200	451
62	1990 Federal Report Surplus Deficit	-29.0	-454	-530	-211	75.2	432	1223	1395	2032	2029	4539	3391	3715	1378	1324
63	1991 Federal Report Surplus Deficit	1399	751	-401	-517	1488	1190	2082	2072	2396	2990	2161	3783	3642	2754	1842
64	1992 Federal Report Surplus Deficit	1824	1700	-296	-380	-174	-773	-472	-1132	1130	-30.2	646	1699	38.2	-35.0	152
65	1993 Federal Report Surplus Deficit	-296	-808	-1015	-224	-326	-655	-1686	-1909	402	582	1707	3352	2604	783	171
66	1994 Federal Report Surplus Deficit	526	-4.75	-438	-267	120	-751	-1596	-1061	-469	-354	1259	2795	1679	640	119
67	1995 Federal Report Surplus Deficit	102	-568	-595	-359	-674	-576	-953	1683	2665	1478	1197	2620	3741	1606	846
68	1996 Federal Report Surplus Deficit	538	-50.0	-82.1	752	2336	4286	4574	4186	4756	3288	4306	3825	4398	3104	3008
69	1997 Federal Report Surplus Deficit	1986	1871	-229	-179	142	981	4509	4790	5033	3843	4648	4247	4592	3261	2766
70	1998 Federal Report Surplus Deficit	2160	2172	992	1956	1080	635	391	983	1054	1030	1971	4307	4465	1890	1789
71	1999 Federal Report Surplus Deficit	1820	652	-244	-196	-516	539	3048	3279	4156	2846	3042	3812	4719	3095	2149
72	2000 Federal Report Surplus Deficit	2222	2178	610	-8.53	1713	1481	1219	1234	1821	3784	4151	3030	2424	1763	1788
73	2001 Federal Report Surplus Deficit	1158	-599	-449	-177	-230	-1066	-1118	-964	-265	-732	806	1457	-1640	50.8	-335
74	2002 Federal Report Surplus Deficit	-144	-721	-1382	-664	-700	-329	-1199	-759	81.4	2141	3578	2634	4021	2602	564
75	2003 Federal Report Surplus Deficit	1188	211	-369	-468	17.6	-943	-1488	-1069	2162	2197	2001	2751	3836	-88.2	598
76	2004 Federal Report Surplus Deficit	-424	-830	-849	-99.8	-125	408	-1040	-1362	1215	1386	1449	2808	2561	-156	355
77	2005 Federal Report Surplus Deficit	-173	-470	502	-20.7	-137	413	375	334	312	-2.08	1294	3286	2557	446	700
78	2006 Federal Report Surplus Deficit	401	-390	-391	-198	-141	-33.9	1551	1589	2114	4171	4049	4459	3792	1037	1485
79	2007 Federal Report Surplus Deficit	826	-633	-620	-564	148	93.4	1263	82.7	3263	2858	2288	3289	2096	1696	1125
80	2008 Federal Report Surplus Deficit	221	-573	-955	-63.6	-237	-418	-479	-306	332	1302	306	4343	5065	2141	842
	Ranked Averages															
81	**Bottom 10 pct**	**401**	**-258**	**-577**	**-205**	**-183**	**-1087**	**-1581**	**-1335**	**-485**	**-371**	**382**	**1786**	**376**	**212**	**-244**
82	**Middle 80 pct**	**942**	**372**	**-150**	**-11.8**	**30.2**	**130**	**744**	**762**	**1755**	**2224**	**2406**	**3446**	**3313**	**1610**	**1218**
83	**Top 10 pct**	**1828**	**1491**	**43.2**	**397**	**1119**	**2443**	**3962**	**4001**	**4082**	**3719**	**4024**	**4054**	**3892**	**2659**	**2675**

Federal Report Surplus Deficit By Water Year

Operating Year 2018

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW - Surplus Deficit	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
1	1929 Federal Report Surplus Deficit	723	649	-475	-163	-279	-1162	-1247	-1085	-529	-652	666	1680	1973	-501	-87.6
2	1930 Federal Report Surplus Deficit	-34.9	-397	-451	-246	-269	-1104	-1893	-988	-468	-201	1106	1843	-12.9	924	-198
3	1931 Federal Report Surplus Deficit	203	-408	-732	-279	-154	-1042	-2196	-2049	-842	148	-396	2433	989	408	-297
4	1932 Federal Report Surplus Deficit	174	-650	-809	-568	-713	-1152	-2681	-2413	848	4044	3693	5072	4829	947	593
5	1933 Federal Report Surplus Deficit	1047	288	-190	-143	-675	-570	1040	1446	1785	1962	1555	3749	5431	3038	1442
6	1934 Federal Report Surplus Deficit	1640	1761	-191	438	1907	3490	4153	3857	3258	4392	3800	4068	2975	1109	2565
7	1935 Federal Report Surplus Deficit	-201	-491	-823	-190	-984	-177	675	1037	1840	1086	1027	3195	2450	2060	818
8	1936 Federal Report Surplus Deficit	1556	164	-674	-303	-380	-1152	-1619	-1626	-259	542	3346	4580	3941	709	510
9	1937 Federal Report Surplus Deficit	311	-523	-747	-304	-125	-1079	-1794	-1908	-632	-318	-338	2522	1156	293	-244
10	1938 Federal Report Surplus Deficit	172	-531	-805	-144	-573	142	250	283	2288	2644	3962	3996	4046	1585	1185
11	1939 Federal Report Surplus Deficit	276	-325	-287	-96.9	-394	-1181	-777	-465	484	1474	2256	3832	1102	498	384
12	1940 Federal Report Surplus Deficit	-166	-622	-687	-4.05	-29.5	55.6	-785	-1184	2750	1876	1492	3211	1544	410	560
13	1941 Federal Report Surplus Deficit	-57.0	-706	-831	-162	-470	-166	-1468	-1141	-288	-98.3	449	2585	1340	959	20.8
14	1942 Federal Report Surplus Deficit	125	-523	-724	-246	133	252	208	-152	829	555	1854	2843	3257	2450	827
15	1943 Federal Report Surplus Deficit	1008	186	159	-113	-749	-326	1057	1540	2301	4014	4343	4055	4769	1524	1576
16	1944 Federal Report Surplus Deficit	931	357	-527	-375	-264	-1186	-1171	-1037	-599	-633	693	1352	-95.4	76.6	-258
17	1945 Federal Report Surplus Deficit	-171	-700	-1064	-209	-324	-1192	-2115	-1431	-603	-817	-1653	3659	3974	-47.7	-79.5
18	1946 Federal Report Surplus Deficit	412	-215	-639	-321	-445	82.0	351	558	1613	3077	4096	4255	4144	2084	1281
19	1947 Federal Report Surplus Deficit	1543	723	-213	-373	-122	2129	2295	2367	3112	2307	1933	4285	4475	2300	1958
20	1948 Federal Report Surplus Deficit	1158	28.0	-299	1678	1142	830	2563	1546	1430	2265	3656	5092	5120	2900	2132
21	1949 Federal Report Surplus Deficit	1906	1973	493	-119	-285	-320	297	-132	3002	3002	3545	4593	4214	-10.6	1419
22	1950 Federal Report Surplus Deficit	-261	-752	-887	-259	-373	-304	2131	2351	3355	3907	2978	4307	4544	2329	1671
23	1951 Federal Report Surplus Deficit	2090	1661	-111	509	1452	2262	3749	4030	3979	3766	3583	4197	3730	2788	2671
24	1952 Federal Report Surplus Deficit	1870	1579	-174	1259	499	921	1969	1412	2357	3786	4237	4926	4501	1901	2113
25	1953 Federal Report Surplus Deficit	906	-58.6	-771	-373	-525	-1090	456	315	1134	1327	1492	4037	5296	2668	1083
26	1954 Federal Report Surplus Deficit	894	411	-234	-206	4.08	433	1730	1977	2409	2486	2278	4194	4513	3404	1770
27	1955 Federal Report Surplus Deficit	2196	2163	1870	-69.5	578	10.3	-545	-623	-187	814	1223	3406	5095	3536	1363
28	1956 Federal Report Surplus Deficit	1887	1233	-463	70.1	1066	2198	3610	3576	3374	3616	4292	4535	4894	2854	2596
29	1957 Federal Report Surplus Deficit	1860	1334	-233	22.0	-331	504	607	-313	2018	4124	2111	5317	5597	1942	1665
30	1958 Federal Report Surplus Deficit	896	-116	-446	-202	-194	-608	843	761	1776	2429	2796	4636	4721	1263	1295
31	1959 Federal Report Surplus Deficit	241	-0.45	-464	-121	280	1650	3170	2840	2692	3182	2160	3718	4823	1901	1933
32	1960 Federal Report Surplus Deficit	1906	1954	1876	2375	1990	1511	1672	468	1742	4865	3400	3740	4140	1904	2297
33	1961 Federal Report Surplus Deficit	1008	-117	-558	-169	-243	-172	1120	1619	2409	2865	1464	4259	4988	1723	1461
34	1962 Federal Report Surplus Deficit	844	145	-586	-314	-207	-605	636	742	118	4087	3858	4172	4556	119	1084
35	1963 Federal Report Surplus Deficit	592	-106	-592	155	586	1335	1582	879	1371	1010	1285	3431	3456	1991	1303
36	1964 Federal Report Surplus Deficit	867	113	-132	-335	-477	-280	-150	-390	132	3062	1313	4050	5137	3360	1138
37	1965 Federal Report Surplus Deficit	1904	1730	366	444	320	2342	4488	4142	3717	1955	4247	4398	4460	2340	2655
38	1966 Federal Report Surplus Deficit	1905	1522	-524	-14.3	57.3	53.6	525	181	164	4024	2009	2952	2998	1994	1097
39	1967 Federal Report Surplus Deficit	1306	-44.9	-451	-338	-457	43.7	2446	2424	2881	1432	-138	3575	4608	2686	1554
40	1968 Federal Report Surplus Deficit	1574	861	-237	-150	77.0	76.3	1719	1271	2222	879	706	2264	4318	2236	1317
41	1969 Federal Report Surplus Deficit	1671	1035	838	547	1140	942	3197	3480	2464	3490	3456	4500	4296	2270	2364
42	1970 Federal Report Surplus Deficit	1206	640	-310	-184	-109	-755	919	715	1308	1849	394	3548	4934	1211	1109
43	1971 Federal Report Surplus Deficit	42.1	-361	-527	-332	-303	-520	3397	4027	3908	3532	3309	4715	4820	3309	2133
44	1972 Federal Report Surplus Deficit	2150	1954	224	66.2	-112	373	3100	3802	4727	4387	2674	4866	5013	3290	2571
45	1973 Federal Report Surplus Deficit	2122	2021	681	16.3	-118	22.7	741	-149	-218	-1437	347	2337	1221	358	543
46	1974 Federal Report Surplus Deficit	49.8	-736	-792	-229	-737	1113	4751	4699	4034	3555	3483	4346	4710	3518	2370
47	1975 Federal Report Surplus Deficit	2075	2035	476	-425	-253	-418	451	1317	1921	1271	1489	3857	5063	3849	1608
48	1976 Federal Report Surplus Deficit	2029	1364	195	683	1379	3129	2992	3098	3444	4201	3832	4780	4402	3070	2739
49	1977 Federal Report Surplus Deficit	2403	2456	2306	78.0	-202	-1163	-1228	-819	-338	-1064	522	1192	-679	31.3	117
50	1978 Federal Report Surplus Deficit	-98.6	-806	-1388	-664	-894	735	539	846	1581	3898	2184	4033	2983	2361	1062
51	1979 Federal Report Surplus Deficit	551	-51.8	448	110	-186	-639	104	-1160	1443	974	1647	4331	1723	-135	645
52	1980 Federal Report Surplus Deficit	-322	-694	-540	-256	-245	-1411	-328	-552	-296	1851	2942	5079	4658	551	713
53	1981 Federal Report Surplus Deficit	258	-514	-304	-172	-270	1667	2016	1672	1692	-75.4	1700	3790	5392	2494	1554
54	1982 Federal Report Surplus Deficit	1769	1785	80.6	-228	59.8	628	1815	3968	4436	3461	2795	4420	4887	2900	2312

Federal Report Surplus Deficit By Water Year

Operating Year 2018

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW - Surplus Deficit	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
55	1983 Federal Report Surplus Deficit	2059	2087	1089	590	177	890	2270	2249	4026	3218	2042	4248	4252	2982	2292
56	1984 Federal Report Surplus Deficit	2005	2051	91.6	-94.2	1634	837	1692	1954	2591	4424	3811	4414	5256	2929	2285
57	1985 Federal Report Surplus Deficit	2016	975	81.9	-42.3	172	-11.0	94.1	73.9	880	2711	2866	4452	2617	-764	988
58	1986 Federal Report Surplus Deficit	-688	-999	-720	310	936	-22.1	839	1982	4773	3664	3334	3523	4426	1253	1655
59	1987 Federal Report Surplus Deficit	635	-256	-486	-387	-313	70.2	-173	-1284	1219	581	1252	3378	2484	176	494
60	1988 Federal Report Surplus Deficit	-383	-915	-916	-347	-357	-1444	-1738	-1858	-403	-21.7	1272	2386	1282	1143	-180
61	1989 Federal Report Surplus Deficit	139	-482	-861	-389	-567	-201	-1293	-1202	701	2747	3737	3985	2642	-109	487
62	1990 Federal Report Surplus Deficit	-96.4	-521	-636	-276	-1.51	350	1135	1306	1966	1987	4406	3800	4337	1469	1357
63	1991 Federal Report Surplus Deficit	1331	683	-507	-582	1412	1108	1994	1983	2331	2953	2033	4194	4294	2842	1878
64	1992 Federal Report Surplus Deficit	1757	1633	-402	-445	-251	-856	-561	-1223	1064	-66.1	518	2131	701	55.9	190
65	1993 Federal Report Surplus Deficit	-363	-876	-1121	-289	-403	-737	-1776	-2000	336	546	1579	3783	3266	874	210
66	1994 Federal Report Surplus Deficit	458	-72.2	-544	-332	43.6	-833	-1685	-1151	-535	-391	1131	3228	2342	731	158
67	1995 Federal Report Surplus Deficit	34.3	-635	-701	-425	-751	-658	-1042	1594	2609	1438	1065	3059	4407	1580	876
68	1996 Federal Report Surplus Deficit	470	-117	-188	687	2261	4206	4487	4098	4734	3262	4180	4265	4945	3195	3043
69	1997 Federal Report Surplus Deficit	1918	1804	-335	-244	65.0	899	4423	4702	5004	3759	4473	4658	5100	3344	2789
70	1998 Federal Report Surplus Deficit	2093	2105	886	1892	1004	553	303	894	988	992	1841	4806	5096	1983	1831
71	1999 Federal Report Surplus Deficit	1753	584	-350	-262	-593	458	2961	3190	4079	2784	2887	4205	5130	3167	2160
72	2000 Federal Report Surplus Deficit	2155	2110	504	-73.7	1638	1399	1130	1144	1755	3731	4006	3444	3083	1854	1824
73	2001 Federal Report Surplus Deficit	1090	-667	-555	-242	-307	-1149	-1207	-1055	-331	-770	677	1891	-979	142	-297
74	2002 Federal Report Surplus Deficit	-211	-789	-1488	-730	-777	-411	-1289	-850	15.6	2103	3449	3068	4665	2693	601
75	2003 Federal Report Surplus Deficit	1121	144	-475	-533	-59.1	-1025	-1577	-1160	2098	2160	1872	3183	4465	2.65	634
76	2004 Federal Report Surplus Deficit	-491	-897	-956	-165	-202	326	-1129	-1453	1149	1350	1320	3239	3223	-63.6	394
77	2005 Federal Report Surplus Deficit	-241	-537	396	-85.8	-214	331	287	244	246	-39.2	1165	3682	3209	538	735
78	2006 Federal Report Surplus Deficit	334	-457	-497	-264	-218	-116	1463	1499	2052	4077	3864	4820	4317	1126	1502
79	2007 Federal Report Surplus Deficit	758	-700	-727	-630	71.3	11.2	1174	-7.50	3196	2819	2157	3740	2753	1788	1165
80	2008 Federal Report Surplus Deficit	153	-641	-1061	-129	-314	-500	-568	-396	266	1267	179	4708	5530	2235	859
	Ranked Averages															
81	**Bottom 10 pct**	**334**	**-326**	**-683**	**-271**	**-260**	**-1170**	**-1670**	**-1426**	**-551**	**-408**	**253**	**2221**	**1036**	**305**	**-205**
82	**Middle 80 pct**	**875**	**305**	**-256**	**-76.9**	**-46.5**	**48.2**	**655**	**672**	**1689**	**2178**	**2268**	**3868**	**3913**	**1695**	**1249**
83	**Top 10 pct**	**1761**	**1424**	**-62.9**	**332**	**1042**	**2362**	**3875**	**3913**	**4030**	**3667**	**3885**	**4471**	**4440**	**2749**	**2704**

Federal Report Surplus Deficit By Water Year

Operating Year 2019

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW - Surplus Deficit	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
1	1929 Federal Report Surplus Deficit	703	629	-480	-223	-180	-1080	-1184	-1031	-522	-664	699	1129	1184	-628	-191
2	1930 Federal Report Surplus Deficit	-55.3	-417	-456	-306	-170	-1021	-1830	-935	-460	-214	1136	1292	-800	797	-301
3	1931 Federal Report Surplus Deficit	183	-429	-737	-338	-54.3	-959	-2133	-1996	-835	137	-364	1881	202	282	-401
4	1932 Federal Report Surplus Deficit	154	-671	-814	-627	-614	-1070	-2618	-2359	855	3995	3686	4485	4113	821	489
5	1933 Federal Report Surplus Deficit	1028	268	-195	-203	-576	-488	1103	1500	1793	1949	1587	3184	4778	2909	1348
6	1934 Federal Report Surplus Deficit	1620	1741	-196	379	2007	3573	4216	3911	3258	4349	3800	3522	2193	983	2460
7	1935 Federal Report Surplus Deficit	-221	-512	-829	-249	-885	-94.8	738	1090	1846	1074	1058	2620	1655	1933	712
8	1936 Federal Report Surplus Deficit	1536	143	-679	-363	-280	-1070	-1556	-1572	-252	524	3372	4186	3219	584	425
9	1937 Federal Report Surplus Deficit	291	-544	-752	-363	-25.6	-996	-1731	-1855	-625	-329	-305	1966	366	166	-348
10	1938 Federal Report Surplus Deficit	152	-552	-810	-203	-474	224	313	337	2290	2609	3970	3537	3277	1465	1089
11	1939 Federal Report Surplus Deficit	255	-345	-292	-156	-295	-1099	-714	-411	491	1455	2282	3260	316	371	278
12	1940 Federal Report Surplus Deficit	-187	-643	-693	-63.4	69.7	138	-722	-1131	2750	1860	1519	2645	757	284	454
13	1941 Federal Report Surplus Deficit	-77.4	-726	-837	-221	-370	-83.6	-1405	-1087	-281	-110	480	2031	554	832	-82.8
14	1942 Federal Report Surplus Deficit	105	-544	-729	-306	232	335	271	-98.3	837	541	1883	2300	2485	2322	725
15	1943 Federal Report Surplus Deficit	988	165	154	-172	-650	-243	1120	1593	2291	3812	4186	3463	4131	1399	1465
16	1944 Federal Report Surplus Deficit	911	337	-532	-435	-165	-1104	-1108	-983	-592	-645	725	800	-882	-49.9	-361
17	1945 Federal Report Surplus Deficit	-191	-721	-1069	-268	-225	-1109	-2052	-1377	-596	-828	-1622	3058	3154	-174	-190
18	1946 Federal Report Surplus Deficit	392	-235	-645	-381	-346	164	414	611	1617	2999	4061	3754	3394	1958	1179
19	1947 Federal Report Surplus Deficit	1523	703	-218	-432	-23.2	2211	2358	2420	3115	2290	1957	3669	3731	2174	1852
20	1948 Federal Report Surplus Deficit	1138	7.63	-304	1619	1241	912	2626	1599	1437	2244	3678	4556	4393	2770	2033
21	1949 Federal Report Surplus Deficit	1887	1954	488	-178	-186	-237	360	-78.3	3012	2991	3579	4069	3450	-137	1320
22	1950 Federal Report Surplus Deficit	-282	-772	-892	-319	-274	-221	2194	2405	3345	3837	2952	3722	3834	2198	1564
23	1951 Federal Report Surplus Deficit	2070	1642	-116	450	1551	2345	3812	4083	3983	3716	3576	3701	2977	2657	2572
24	1952 Federal Report Surplus Deficit	1850	1560	-179	1200	598	1003	2032	1465	2365	3773	4266	4299	3685	1775	2001
25	1953 Federal Report Surplus Deficit	886	-79.0	-776	-433	-426	-1007	519	368	1141	1311	1520	3492	4542	2538	983
26	1954 Federal Report Surplus Deficit	874	390	-239	-265	103	515	1793	2030	2417	2462	2298	3680	3738	3254	1668
27	1955 Federal Report Surplus Deficit	2177	2144	1866	-129	677	92.6	-482	-570	-180	803	1254	2850	4429	3384	1268
28	1956 Federal Report Surplus Deficit	1868	1213	-468	10.7	1165	2280	3673	3629	3379	3614	4324	4045	4354	2727	2518
29	1957 Federal Report Surplus Deficit	1840	1314	-238	-37.4	-232	587	670	-259	2025	4104	2135	4704	4916	1815	1564
30	1958 Federal Report Surplus Deficit	876	-136	-451	-261	-94.6	-526	906	814	1780	2390	2800	4105	3985	1137	1195
31	1959 Federal Report Surplus Deficit	220	-20.8	-469	-180	379	1732	3233	2893	2690	3154	2175	3160	4051	1776	1828
32	1960 Federal Report Surplus Deficit	1887	1934	1872	2316	2090	1593	1735	522	1748	4859	3436	3188	3373	1777	2196
33	1961 Federal Report Surplus Deficit	988	-137	-563	-229	-144	-90.0	1183	1673	2414	2848	1490	3752	4276	1600	1367
34	1962 Federal Report Surplus Deficit	824	125	-592	-373	-108	-523	699	796	125	4010	3825	3564	3785	-7.03	972
35	1963 Federal Report Surplus Deficit	572	-126	-597	95.3	685	1417	1645	932	1378	998	1316	2877	2667	1865	1199
36	1964 Federal Report Surplus Deficit	847	92.5	-137	-394	-378	-198	-86.8	-337	139	3051	1345	3497	4514	3216	1047
37	1965 Federal Report Surplus Deficit	1885	1711	361	385	420	2424	4551	4196	3696	1914	4250	3843	3716	2209	2550
38	1966 Federal Report Surplus Deficit	1886	1503	-529	-73.7	156	136	588	234	170	3971	1999	2390	2210	1866	989
39	1967 Federal Report Surplus Deficit	1287	-65.2	-456	-397	-357	126	2509	2478	2891	1422	-105	2944	3914	2560	1452
40	1968 Federal Report Surplus Deficit	1554	841	-242	-210	176	159	1782	1324	2230	866	738	1714	3639	2109	1223
41	1969 Federal Report Surplus Deficit	1651	1015	833	488	1240	1024	3260	3533	2474	3371	3382	3805	3438	2145	2234
42	1970 Federal Report Surplus Deficit	1186	620	-315	-243	-9.71	-673	982	768	1312	1834	423	2978	4190	1085	1007
43	1971 Federal Report Surplus Deficit	21.8	-381	-533	-391	-204	-437	3460	4081	3936	3538	3359	4264	4320	3173	2064
44	1972 Federal Report Surplus Deficit	2131	1935	219	6.80	-12.3	455	3163	3856	4609	4302	2632	4198	4164	3121	2433
45	1973 Federal Report Surplus Deficit	2103	2001	676	-43.1	-19.0	105	804	-95.2	-211	-1450	377	1784	433	232	439
46	1974 Federal Report Surplus Deficit	29.5	-756	-797	-289	-638	1196	4814	4752	3955	3427	3464	3719	3923	3358	2243
47	1975 Federal Report Surplus Deficit	2055	2015	471	-484	-154	-336	514	1371	1924	1249	1511	3287	4335	3697	1504
48	1976 Federal Report Surplus Deficit	2010	1344	190	623	1479	3212	3055	3151	3452	4153	3828	4174	3613	2936	2627
49	1977 Federal Report Surplus Deficit	2384	2437	2303	18.6	-103	-1081	-1165	-765	-331	-1075	554	641	-1466	-95.1	14.1
50	1978 Federal Report Surplus Deficit	-119	-827	-1394	-723	-795	818	602	900	1588	3869	2199	3454	2195	2236	955
51	1979 Federal Report Surplus Deficit	531	-72.2	443	50.9	-87.0	-557	167	-1107	1450	962	1679	3840	938	-261	547
52	1980 Federal Report Surplus Deficit	-343	-714	-545	-316	-146	-1329	-265	-498	-289	1836	2970	4529	3880	535	619
53	1981 Federal Report Surplus Deficit	237	-535	-309	-232	-171	1749	2079	1725	1698	-88.9	1731	3209	4643	2368	1452
54	1982 Federal Report Surplus Deficit	1750	1765	75.8	-287	159	710	1878	4021	4468	3410	2788	3927	4164	2775	2218

Federal Report Surplus Deficit By Water Year

Operating Year 2019

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW - Surplus Deficit	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
55	1983 Federal Report Surplus Deficit	2040	2068	1084	530	276	972	2333	2302	3885	3179	2046	3681	3542	2845	2178
56	1984 Federal Report Surplus Deficit	1986	2032	86.8	-154	1733	919	1755	2008	2596	4413	3844	3910	4524	2809	2191
57	1985 Federal Report Surplus Deficit	1997	955	77.1	-102	271	71.3	157	127	887	2686	2884	3935	1832	-890	886
58	1986 Federal Report Surplus Deficit	-708	-1020	-725	251	1036	60.2	902	2036	4707	3665	3378	2972	3675	1127	1550
59	1987 Federal Report Surplus Deficit	615	-277	-491	-447	-214	153	-110	-1230	1224	569	1283	2804	1697	49.5	388
60	1988 Federal Report Surplus Deficit	-404	-936	-922	-406	-258	-1362	-1675	-1804	-396	-34.3	1302	1834	495	1017	-284
61	1989 Federal Report Surplus Deficit	119	-503	-867	-448	-467	-118	-1230	-1149	709	2720	3754	3435	1856	-236	383
62	1990 Federal Report Surplus Deficit	-117	-542	-641	-335	97.7	432	1198	1359	1974	1969	4432	3247	3561	1342	1254
63	1991 Federal Report Surplus Deficit	1312	663	-512	-642	1511	1190	2057	2037	2338	2942	2065	3640	3490	2701	1772
64	1992 Federal Report Surplus Deficit	1738	1613	-407	-504	-152	-773	-498	-1169	1071	-78.0	550	1577	-86.1	-70.6	86.8
65	1993 Federal Report Surplus Deficit	-384	-897	-1127	-349	-304	-655	-1713	-1947	343	531	1607	3213	2471	747	104
66	1994 Federal Report Surplus Deficit	438	-92.7	-550	-392	143	-751	-1622	-1098	-528	-403	1163	2677	1555	605	54.5
67	1995 Federal Report Surplus Deficit	14.0	-656	-706	-484	-651	-576	-979	1647	2587	1426	1097	2499	3592	1571	778
68	1996 Federal Report Surplus Deficit	450	-138	-193	627	2360	4288	4550	4151	4745	3323	4259	3816	4370	3067	2971
69	1997 Federal Report Surplus Deficit	1899	1784	-340	-304	164	981	4486	4755	4967	3723	4480	4107	4377	3177	2682
70	1998 Federal Report Surplus Deficit	2073	2085	881	1833	1103	635	366	947	995	978	1870	4301	4380	1855	1737
71	1999 Federal Report Surplus Deficit	1733	564	-355	-321	-494	540	3024	3243	4073	2778	2924	3580	4441	3038	2057
72	2000 Federal Report Surplus Deficit	2135	2091	499	-133	1737	1482	1193	1198	1761	3706	4024	2900	2299	1728	1720
73	2001 Federal Report Surplus Deficit	1070	-688	-560	-301	-208	-1067	-1144	-1002	-324	-782	709	1340	-1766	15.2	-400
74	2002 Federal Report Surplus Deficit	-231	-810	-1494	-789	-678	-329	-1226	-797	22.7	2085	3474	2520	3906	2554	499
75	2003 Federal Report Surplus Deficit	1101	123	-480	-593	40.1	-943	-1514	-1106	2104	2148	1904	2630	3714	-124	534
76	2004 Federal Report Surplus Deficit	-512	-918	-961	-224	-103	408	-1066	-1399	1157	1337	1351	2687	2438	-195	290
77	2005 Federal Report Surplus Deficit	-261	-558	392	-145	-115	414	350	297	253	-50.6	1197	3146	2422	411	633
78	2006 Federal Report Surplus Deficit	313	-478	-503	-323	-118	-33.8	1526	1553	2058	4041	3870	4219	3642	1001	1402
79	2007 Federal Report Surplus Deficit	738	-721	-732	-689	171	93.5	1237	46.0	3197	2804	2185	3181	1971	1661	1060
80	2008 Federal Report Surplus Deficit	133	-661	-1067	-188	-214	-418	-505	-343	273	1254	210	4216	4871	2108	771
	Ranked Averages															
81	**Bottom 10 pct**	**313**	**-346**	**-688**	**-330**	**-161**	**-1087**	**-1607**	**-1373**	**-544**	**-420**	**285**	**1663**	**244**	**178**	**-310**
82	**Middle 80 pct**	**855**	**285**	**-261**	**-136**	**52.7**	**131**	**718**	**725**	**1690**	**2151**	**2286**	**3314**	**3166**	**1569**	**1147**
83	**Top 10 pct**	**1742**	**1404**	**-67.9**	**272**	**1142**	**2445**	**3938**	**3967**	**4011**	**3637**	**3894**	**3926**	**3720**	**2610**	**2602**

Federal Report Surplus Deficit By Water Year

Operating Year 2020

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW - Surplus Deficit	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
1	1929 Federal Report Surplus Deficit	650	574	-572	-384	-351	-1270	-1350	-1022	-675	-815	547	1531	1768	-659	-209
2	1930 Federal Report Surplus Deficit	-109	-472	-548	-467	-341	-1211	-1995	-926	-613	-364	986	1696	-214	766	-318
3	1931 Federal Report Surplus Deficit	129	-483	-829	-499	-225	-1149	-2299	-1987	-987	-14.7	-515	2284	789	251	-420
4	1932 Federal Report Surplus Deficit	99.8	-725	-907	-788	-785	-1259	-2784	-2350	702	3849	3541	4779	4583	790	448
5	1933 Federal Report Surplus Deficit	974	213	-287	-364	-747	-678	937	1509	1640	1799	1435	3588	5235	2873	1323
6	1934 Federal Report Surplus Deficit	1566	1687	-288	218	1835	3383	4051	3920	3112	4183	3635	3882	2778	952	2444
7	1935 Federal Report Surplus Deficit	-275	-566	-921	-410	-1056	-285	573	1099	1693	923	907	2977	2240	1900	693
8	1936 Federal Report Surplus Deficit	1482	89.0	-772	-524	-452	-1259	-1721	-1564	-405	373	3221	4309	3650	552	368
9	1937 Federal Report Surplus Deficit	237	-598	-844	-524	-197	-1186	-1897	-1846	-778	-482	-458	2367	952	136	-368
10	1938 Federal Report Surplus Deficit	97.9	-606	-902	-364	-645	34.5	148	346	2130	2443	3803	3617	3718	1429	1031
11	1939 Federal Report Surplus Deficit	202	-400	-385	-317	-466	-1289	-879	-402	339	1312	2139	3621	901	340	258
12	1940 Federal Report Surplus Deficit	-240	-697	-785	-225	-101	-51.8	-887	-1122	2586	1708	1367	3027	1342	253	432
13	1941 Federal Report Surplus Deficit	-131	-781	-929	-382	-542	-273	-1571	-1078	-433	-264	326	2423	1140	801	-102
14	1942 Federal Report Surplus Deficit	51.1	-598	-821	-467	60.8	145	106	-89.4	684	392	1734	2681	3044	2289	704
15	1943 Federal Report Surplus Deficit	934	111	61.6	-333	-821	-433	955	1602	2147	3664	4037	3711	4423	1364	1413
16	1944 Federal Report Surplus Deficit	857	282	-624	-596	-336	-1294	-1273	-974	-744	-797	573	1206	-296	-80.8	-378
17	1945 Federal Report Surplus Deficit	-245	-775	-1162	-430	-396	-1299	-2217	-1368	-749	-980	-1773	3431	3696	-205	-214
18	1946 Federal Report Surplus Deficit	338	-289	-737	-542	-517	-25.4	249	620	1468	2922	3985	3990	3853	1924	1145
19	1947 Federal Report Surplus Deficit	1469	649	-310	-593	-194	2021	2193	2429	2955	2127	1791	3978	4167	2141	1817
20	1948 Federal Report Surplus Deficit	1085	-46.6	-396	1457	1070	723	2461	1608	1284	2087	3521	4943	4790	2736	2000
21	1949 Federal Report Surplus Deficit	1833	1900	396	-339	-357	-427	195	-69.4	2855	2850	3437	4408	3936	-294	1278
22	1950 Federal Report Surplus Deficit	-335	-827	-984	-480	-445	-411	2029	2414	3191	3712	2827	4007	4193	2165	1525
23	1951 Federal Report Surplus Deficit	2016	1587	-209	288	1380	2155	3647	4092	3871	3519	3381	4021	3503	2620	2548
24	1952 Federal Report Surplus Deficit	1797	1505	-271	1039	427	814	1867	1474	2211	3461	3955	4602	4143	1745	1952
25	1953 Federal Report Surplus Deficit	832	-133	-868	-594	-597	-1197	353	377	988	1165	1374	3842	4922	2502	945
26	1954 Federal Report Surplus Deficit	820	336	-331	-426	-67.9	325	1628	2039	2263	2311	2146	4009	4233	3234	1641
27	1955 Federal Report Surplus Deficit	2123	2090	1773	-290	506	-97.1	-648	-561	-332	650	1103	3234	4775	3351	1226
28	1956 Federal Report Surplus Deficit	1814	1159	-560	-150	994	2090	3508	3638	3198	3332	4068	4302	4688	2688	2461
29	1957 Federal Report Surplus Deficit	1786	1260	-331	-199	-403	397	504	-250	1875	3945	1977	5111	5421	1784	1537
30	1958 Federal Report Surplus Deficit	822	-190	-544	-422	-266	-716	740	823	1629	2265	2675	4401	4423	1105	1160
31	1959 Federal Report Surplus Deficit	167	-75.1	-562	-342	208	1542	3068	2902	2548	3002	2023	3531	4524	1743	1805
32	1960 Federal Report Surplus Deficit	1833	1880	1779	2155	1918	1403	1570	531	1596	4621	3199	3574	3881	1746	2161
33	1961 Federal Report Surplus Deficit	934	-191	-656	-390	-315	-280	1018	1682	2262	2701	1344	4114	4786	1569	1344
34	1962 Federal Report Surplus Deficit	771	70.5	-684	-534	-279	-713	534	804	-27.8	3874	3689	3888	4246	-38.0	941
35	1963 Federal Report Surplus Deficit	518	-180	-690	-65.8	514	1228	1479	941	1225	847	1165	3225	3213	1833	1175
36	1964 Federal Report Surplus Deficit	794	38.3	-229	-556	-549	-387	-252	-328	-13.3	2904	1198	3842	4863	3189	1004
37	1965 Federal Report Surplus Deficit	1831	1656	269	224	248	2234	4386	4205	3568	1799	4135	4213	4273	2181	2540
38	1966 Federal Report Surplus Deficit	1832	1448	-621	-235	-14.7	-53.8	422	243	18.5	3822	1849	2774	2775	1834	969
39	1967 Federal Report Surplus Deficit	1233	-120	-548	-558	-529	-63.7	2344	2487	2731	1268	-258	3193	4123	2494	1392
40	1968 Federal Report Surplus Deficit	1501	787	-335	-371	4.99	-31.1	1617	1333	2075	716	586	2110	4055	2078	1193
41	1969 Federal Report Surplus Deficit	1598	961	741	327	1069	834	3095	3542	2318	3306	3316	4281	3982	2112	2233
42	1970 Federal Report Surplus Deficit	1132	565	-408	-404	-181	-863	817	777	1160	1683	272	3317	4516	1053	965
43	1971 Federal Report Surplus Deficit	-32.0	-435	-625	-552	-375	-627	3295	4090	3739	3412	3234	4425	4650	3112	2009
44	1972 Federal Report Surplus Deficit	2077	1881	127	-154	-183	265	2997	3864	4596	4199	2528	4573	4655	3102	2428
45	1973 Federal Report Surplus Deficit	2049	1947	584	-204	-190	-84.7	639	-86.4	-364	-1600	227	2175	1019	201	422
46	1974 Federal Report Surplus Deficit	-24.2	-811	-890	-450	-809	1006	4649	4761	3897	3166	3313	4030	4450	3333	2226
47	1975 Federal Report Surplus Deficit	2002	1961	379	-645	-325	-526	349	1380	1768	1101	1362	3610	4844	3673	1476
48	1976 Federal Report Surplus Deficit	1956	1290	98.1	462	1308	3022	2890	3160	3290	3976	3651	4522	4101	2881	2596
49	1977 Federal Report Surplus Deficit	2331	2382	2210	-143	-274	-1271	-1330	-756	-484	-1227	403	1047	-879	-126	-2.76
50	1978 Federal Report Surplus Deficit	-173	-881	-1486	-884	-966	628	437	909	1434	3714	2042	3726	2774	2206	928
51	1979 Federal Report Surplus Deficit	477	-127	351	-110	-258	-747	1.57	-1098	1297	812	1529	4131	1524	-292	518
52	1980 Federal Report Surplus Deficit	-397	-769	-637	-477	-317	-1518	-430	-489	-442	1696	2831	4974	4465	505	606
53	1981 Federal Report Surplus Deficit	184	-589	-401	-393	-342	1559	1914	1734	1546	-238	1581	3597	5136	2338	1429
54	1982 Federal Report Surplus Deficit	1696	1711	-16.6	-448	-12.2	521	1713	4030	4263	3248	2627	4133	4600	2745	2174

Federal Report Surplus Deficit By Water Year

Operating Year 2020

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW - Surplus Deficit	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
55	1983 Federal Report Surplus Deficit	1986	2014	992	369	105	782	2167	2311	3766	3003	1872	3888	3870	2792	2125
56	1984 Federal Report Surplus Deficit	1932	1978	-5.60	-315	1562	730	1590	2017	2442	4233	3664	4241	5059	2777	2162
57	1985 Federal Report Surplus Deficit	1943	901	-15.3	-263	100	-118	-8.31	136	734	2527	2724	4278	2399	-921	862
58	1986 Federal Report Surplus Deficit	-762	-1075	-818	89.9	864	-129	737	2045	4488	3449	3163	3357	4164	1096	1516
59	1987 Federal Report Surplus Deficit	561	-331	-583	-608	-385	-37.2	-275	-1221	1073	419	1133	3218	2281	18.5	370
60	1988 Federal Report Surplus Deficit	-457	-990	-1014	-567	-429	-1552	-1840	-1795	-549	-184	1152	2241	1081	986	-303
61	1989 Federal Report Surplus Deficit	65.3	-557	-959	-609	-639	-308	-1395	-1140	556	2577	3610	3815	2440	-267	362
62	1990 Federal Report Surplus Deficit	-171	-596	-733	-496	-73.5	243	1033	1368	1820	1807	4270	3656	4116	1310	1236
63	1991 Federal Report Surplus Deficit	1258	609	-604	-803	1340	1001	1892	2046	2185	2798	1920	3995	4032	2673	1751
64	1992 Federal Report Surplus Deficit	1684	1559	-499	-665	-323	-963	-664	-1160	919	-229	399	1986	500	-102	68.9
65	1993 Federal Report Surplus Deficit	-437	-951	-1219	-510	-475	-845	-1878	-1938	190	381	1457	3565	3056	717	78.8
66	1994 Federal Report Surplus Deficit	384	-147	-642	-553	-28.4	-941	-1787	-1089	-681	-554	1012	3080	2142	574	36.4
67	1995 Federal Report Surplus Deficit	-39.7	-710	-798	-645	-823	-765	-1145	1656	2461	1273	944	2888	4106	1422	750
68	1996 Federal Report Surplus Deficit	396	-192	-286	466	2189	4098	4385	4160	4541	3095	4061	3937	4603	3033	2897
69	1997 Federal Report Surplus Deficit	1845	1730	-433	-465	-6.96	792	4320	4764	4841	3577	4335	4520	4981	3164	2679
70	1998 Federal Report Surplus Deficit	2020	2031	789	1672	932	445	200	956	843	813	1705	4545	4756	1825	1689
71	1999 Federal Report Surplus Deficit	1679	510	-447	-482	-665	350	2858	3252	3939	2607	2754	4017	4921	2992	2038
72	2000 Federal Report Surplus Deficit	2082	2036	407	-294	1566	1292	1028	1207	1609	3504	3822	3216	2841	1696	1689
73	2001 Federal Report Surplus Deficit	1017	-742	-653	-462	-379	-1256	-1310	-993	-477	-932	558	1745	-1179	-15.7	-416
74	2002 Federal Report Surplus Deficit	-285	-864	-1586	-950	-849	-519	-1391	-788	-130	1938	3328	2913	4381	2532	471
75	2003 Federal Report Surplus Deficit	1047	69.2	-573	-754	-131	-1133	-1680	-1097	1953	1997	1753	3015	4229	-155	507
76	2004 Federal Report Surplus Deficit	-565	-973	-1053	-386	-274	219	-1232	-1390	1003	1187	1201	3093	3022	-221	271
77	2005 Federal Report Surplus Deficit	-315	-612	299	-306	-286	224	184	306	100	-201	1046	3525	2990	380	613
78	2006 Federal Report Surplus Deficit	260	-532	-595	-484	-290	-223	1361	1561	1904	3861	3691	4477	4023	969	1355
79	2007 Federal Report Surplus Deficit	685	-775	-824	-850	-0.69	-96.2	1072	54.8	3048	2655	2035	3556	2545	1630	1039
80	2008 Federal Report Surplus Deficit	79.4	-715	-1159	-349	-386	-608	-670	-334	120	1103	58.7	4616	5383	2074	747
	Ranked Averages															
81	**Bottom 10 pct**	**260**	**-400**	**-781**	**-491**	**-332**	**-1277**	**-1773**	**-1364**	**-696**	**-571**	**134**	**2063**	**825**	**147**	**-328**
82	**Middle 80 pct**	**801**	**230**	**-353**	**-297**	**-118**	**-59.2**	**553**	**734**	**1537**	**1995**	**2131**	**3655**	**3655**	**1533**	**1117**
83	**Top 10 pct**	**1688**	**1350**	**-160**	**111**	**970**	**2255**	**3773**	**3976**	**3877**	**3460**	**3724**	**4246**	**4198**	**2578**	**2574**

Federal Report Surplus Deficit By Water Year

Operating Year 2021

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW - Surplus Deficit	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
1	1929 Federal Report Surplus Deficit	528	495	-650	-416	-384	-1329	-1370	-1233	-706	-813	550	1114	1018	-847	-365
2	1930 Federal Report Surplus Deficit	-231	-551	-626	-500	-375	-1270	-2015	-1136	-645	-361	989	1275	-967	578	-476
3	1931 Federal Report Surplus Deficit	6.65	-562	-907	-532	-259	-1208	-2319	-2197	-1019	-12.4	-513	1867	35.0	62.0	-575
4	1932 Federal Report Surplus Deficit	-22.4	-805	-985	-821	-818	-1318	-2804	-2561	669	3861	3553	4417	3872	601	305
5	1933 Federal Report Surplus Deficit	852	134	-365	-396	-780	-736	917	1298	1608	1801	1437	3188	4603	2685	1175
6	1934 Federal Report Surplus Deficit	1444	1608	-366	185	1802	3324	4031	3709	3074	4225	3676	3528	2021	763	2289
7	1935 Federal Report Surplus Deficit	-397	-645	-999	-443	-1089	-343	553	888	1663	926	911	2622	1491	1713	539
8	1936 Federal Report Surplus Deficit	1360	9.35	-850	-557	-485	-1318	-1741	-1774	-436	371	3219	4007	2918	364	225
9	1937 Federal Report Surplus Deficit	115	-678	-922	-557	-230	-1245	-1916	-2057	-809	-478	-454	1946	200	-53.2	-523
10	1938 Federal Report Surplus Deficit	-24.4	-686	-980	-397	-678	-24.2	128	135	2107	2479	3840	3537	3096	1241	917
11	1939 Federal Report Surplus Deficit	79.4	-479	-463	-350	-499	-1347	-899	-613	307	1315	2142	3240	147	152	104
12	1940 Federal Report Surplus Deficit	-363	-777	-863	-257	-135	-110	-907	-1332	2557	1711	1370	2638	590	63.5	280
13	1941 Federal Report Surplus Deficit	-253	-860	-1007	-415	-575	-332	-1591	-1289	-467	-261	330	2008	384	613	-258
14	1942 Federal Report Surplus Deficit	-71.2	-677	-899	-500	27.8	86.2	85.9	-300	650	392	1734	2278	2290	2097	547
15	1943 Federal Report Surplus Deficit	812	31.4	-16.3	-366	-854	-492	935	1392	2125	3786	4159	3491	3900	1177	1300
16	1944 Federal Report Surplus Deficit	735	203	-702	-629	-369	-1352	-1293	-1185	-776	-793	576	786	-1050	-270	-535
17	1945 Federal Report Surplus Deficit	-367	-855	-1240	-462	-429	-1358	-2237	-1579	-780	-978	-1772	3067	2987	-394	-362
18	1946 Federal Report Surplus Deficit	216	-369	-815	-575	-550	-84.0	229	410	1435	2964	4026	3742	3175	1735	1011
19	1947 Federal Report Surplus Deficit	1347	569	-388	-626	-227	1963	2173	2218	2931	2133	1801	3663	3486	1951	1672
20	1948 Federal Report Surplus Deficit	962	-126	-474	1425	1037	664	2441	1397	1253	2096	3530	4528	4178	2553	1855
21	1949 Federal Report Surplus Deficit	1711	1820	318	-372	-390	-486	175	-280	2797	2845	3432	4034	3222	-481	1127
22	1950 Federal Report Surplus Deficit	-458	-906	-1062	-513	-478	-470	2009	2203	3165	3752	2867	3666	3552	1977	1383
23	1951 Federal Report Surplus Deficit	1894	1508	-287	256	1347	2096	3627	3881	3785	3575	3435	3650	2770	2440	2391
24	1952 Federal Report Surplus Deficit	1674	1426	-349	1006	394	755	1847	1264	2182	3645	4139	4453	3506	1555	1842
25	1953 Federal Report Surplus Deficit	710	-213	-946	-627	-630	-1256	334	167	957	1167	1375	3556	4391	2317	817
26	1954 Federal Report Surplus Deficit	698	256	-409	-459	-101	267	1608	1828	2231	2322	2158	3620	3499	3031	1484
27	1955 Federal Report Surplus Deficit	2001	2010	1695	-323	473	-156	-668	-771	-364	654	1106	2834	4212	3176	1090
28	1956 Federal Report Surplus Deficit	1692	1079	-638	-183	961	2032	3488	3428	3165	3443	4175	4029	4167	2502	2338
29	1957 Federal Report Surplus Deficit	1664	1180	-409	-231	-436	338	485	-461	1837	3956	1988	4731	4781	1596	1396
30	1958 Federal Report Surplus Deficit	700	-270	-622	-455	-299	-774	721	613	1598	2265	2676	4109	3824	917	1025
31	1959 Federal Report Surplus Deficit	44.3	-155	-640	-374	175	1484	3048	2692	2515	3006	2028	3129	3893	1555	1655
32	1960 Federal Report Surplus Deficit	1711	1800	1701	2122	1885	1345	1550	320	1564	4684	3261	3179	3169	1558	2017
33	1961 Federal Report Surplus Deficit	812	-271	-734	-422	-348	-338	998	1471	2231	2704	1347	3700	4108	1381	1190
34	1962 Federal Report Surplus Deficit	649	-9.10	-762	-567	-312	-771	514	594	-59.1	3991	3806	3612	3586	-227	811
35	1963 Federal Report Surplus Deficit	396	-260	-768	-98.5	481	1169	1460	730	1194	845	1163	2866	2490	1645	1024
36	1964 Federal Report Surplus Deficit	671	-41.4	-307	-588	-582	-446	-272	-538	-44.8	2904	1197	3442	4342	2991	868
37	1965 Federal Report Surplus Deficit	1709	1577	191	191	215	2176	4366	3994	3521	1796	4132	3836	3534	1992	2379
38	1966 Federal Report Surplus Deficit	1710	1369	-699	-268	-47.8	-112	403	32.6	-13.4	3872	1900	2386	2044	1647	820
39	1967 Federal Report Surplus Deficit	1111	-199	-626	-591	-562	-122	2324	2276	2683	1272	-255	2933	3687	2327	1270
40	1968 Federal Report Surplus Deficit	1379	707	-413	-404	-28.1	-89.8	1597	1123	2040	718	587	1694	3389	1878	1040
41	1969 Federal Report Surplus Deficit	1475	881	663	294	1035	776	3075	3332	2284	3271	3282	3935	3263	1923	2075
42	1970 Federal Report Surplus Deficit	1010	486	-486	-437	-214	-921	797	567	1128	1688	277	2972	3986	864	831
43	1971 Federal Report Surplus Deficit	-154	-515	-703	-585	-408	-686	3275	3879	3725	3398	3219	4067	3854	2944	1848
44	1972 Federal Report Surplus Deficit	1955	1801	48.8	-187	-217	207	2978	3654	4532	4150	2480	4267	4080	2901	2281
45	1973 Federal Report Surplus Deficit	1927	1867	506	-237	-223	-143	619	-297	-396	-1598	230	1773	266	11.9	265
46	1974 Federal Report Surplus Deficit	-146	-890	-968	-483	-842	947	4629	4551	3790	3284	3315	3587	3756	3102	2057
47	1975 Federal Report Surplus Deficit	1879	1881	301	-678	-358	-584	329	1169	1742	1100	1362	3332	4170	3501	1337
48	1976 Federal Report Surplus Deficit	1834	1210	20.1	429	1274	2963	2870	2950	3239	3997	3672	4141	3472	2704	2450
49	1977 Federal Report Surplus Deficit	2208	2303	2132	-175	-307	-1329	-1350	-967	-515	-1224	405	626	-1633	-315	-160
50	1978 Federal Report Surplus Deficit	-295	-961	-1564	-917	-999	569	417	698	1403	3714	2042	3417	2026	2017	778
51	1979 Federal Report Surplus Deficit	355	-206	273	-143	-291	-806	-18.2	-1308	1266	813	1530	3770	768	-481	368
52	1980 Federal Report Surplus Deficit	-519	-848	-715	-510	-350	-1577	-450	-700	-474	1699	2832	4596	3708	320	453
53	1981 Federal Report Surplus Deficit	61.5	-669	-479	-426	-375	1501	1894	1524	1512	-236	1583	3211	4584	2148	1288
54	1982 Federal Report Surplus Deficit	1574	1631	-94.5	-481	-45.2	462	1693	3820	4229	3263	2641	3921	4021	2560	2042

Federal Report Surplus Deficit By Water Year

Operating Year 2021

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW - Surplus Deficit	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
55	1983 Federal Report Surplus Deficit	1864	1934	914	337	72.0	724	2148	2101	3666	3030	1898	3633	3277	2616	1990
56	1984 Federal Report Surplus Deficit	1810	1898	-83.5	-347	1529	671	1570	1806	2406	4263	3694	3852	4338	2583	2010
57	1985 Federal Report Surplus Deficit	1821	822	-93.2	-296	67.0	-177	-28.1	-74.3	702	2542	2739	3912	1655	-1110	711
58	1986 Federal Report Surplus Deficit	-884	-1154	-896	57.2	831	-188	717	1834	4547	3494	3208	2950	3476	907	1373
59	1987 Federal Report Surplus Deficit	439	-411	-661	-640	-418	-95.8	-295	-1432	1039	421	1134	2793	1529	-170	214
60	1988 Federal Report Surplus Deficit	-580	-1070	-1092	-600	-462	-1610	-1860	-2006	-580	-182	1155	1821	327	797	-458
61	1989 Federal Report Surplus Deficit	-57.0	-637	-1037	-642	-672	-367	-1415	-1350	523	2533	3566	3400	1684	-455	203
62	1990 Federal Report Surplus Deficit	-293	-676	-811	-529	-107	184	1013	1158	1790	1827	4290	3229	3385	1124	1080
63	1991 Federal Report Surplus Deficit	1136	529	-682	-835	1307	942	1872	1835	2155	2801	1924	3613	3327	2476	1598
64	1992 Federal Report Surplus Deficit	1562	1479	-577	-698	-356	-1022	-683	-1371	887	-226	402	1566	-253	-290	-87.0
65	1993 Federal Report Surplus Deficit	-560	-1030	-1297	-543	-508	-904	-1898	-2149	158	384	1459	3190	2302	528	-71.3
66	1994 Federal Report Surplus Deficit	262	-227	-720	-585	-61.5	-999	-1807	-1300	-712	-552	1014	2659	1387	385	-120
67	1995 Federal Report Surplus Deficit	-162	-790	-876	-678	-856	-824	-1165	1446	2420	1277	947	2468	3362	1234	588
68	1996 Federal Report Surplus Deficit	274	-272	-364	434	2156	4040	4365	3950	4626	3040	4019	3719	4115	2838	2778
69	1997 Federal Report Surplus Deficit	1723	1650	-511	-498	-40.0	733	4301	4554	4765	3583	4340	4055	4245	2977	2508
70	1998 Federal Report Surplus Deficit	1898	1951	711	1639	899	387	180	746	811	834	1726	4372	4275	1635	1576
71	1999 Federal Report Surplus Deficit	1557	430	-525	-515	-698	292	2839	3042	3902	2615	2761	3661	4242	2803	1887
72	2000 Federal Report Surplus Deficit	1959	1957	329	-327	1533	1233	1008	996	1577	3547	3865	2905	2123	1507	1546
73	2001 Federal Report Surplus Deficit	894	-822	-731	-495	-412	-1315	-1330	-1203	-508	-930	561	1324	-1933	-205	-574
74	2002 Federal Report Surplus Deficit	-407	-944	-1664	-983	-882	-577	-1411	-998	-162	1940	3329	2497	3718	2337	323
75	2003 Federal Report Surplus Deficit	925	-10.5	-650	-787	-164	-1191	-1699	-1308	1920	1998	1753	2620	3529	-344	358
76	2004 Federal Report Surplus Deficit	-688	-1052	-1131	-418	-307	160	-1251	-1601	973	1190	1203	2671	2270	-411	116
77	2005 Federal Report Surplus Deficit	-437	-692	221	-339	-319	165	165	95.8	69.0	-199	1049	3128	2257	191	458
78	2006 Federal Report Surplus Deficit	138	-612	-673	-517	-323	-282	1341	1351	1874	3922	3751	4295	3388	781	1231
79	2007 Federal Report Surplus Deficit	562	-855	-902	-883	-33.7	-155	1052	-156	3013	2660	2041	3170	1800	1440	886
80	2008 Federal Report Surplus Deficit	-42.8	-795	-1237	-382	-419	-666	-690	-544	89.2	1106	61.9	4221	4718	1889	600
	Ranked Averages															
81	**Bottom 10 pct**	**137**	**-480**	**-859**	**-524**	**-365**	**-1336**	**-1792**	**-1574**	**-728**	**-568**	**136**	**1650**	**77.2**	**-41.5**	**-483**
82	**Middle 80 pct**	**679**	**151**	**-431**	**-330**	**-152**	**-118**	**533**	**524**	**1504**	**2012**	**2146**	**3302**	**2975**	**1344**	**972**
83	**Top 10 pct**	**1566**	**1270**	**-238**	**78.4**	**937**	**2196**	**3753**	**3765**	**3838**	**3476**	**3741**	**3903**	**3550**	**2390**	**2427**

Federal Report Surplus Deficit By Water Year

Operating Year 2022

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW - Surplus Deficit	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
1	1929 Federal Report Surplus Deficit	558	433	-653	-474	-454	-1415	-1418	-1287	-744	-858	504	1483	1720	-721	-300
2	1930 Federal Report Surplus Deficit	-201	-613	-629	-557	-445	-1357	-2064	-1190	-685	-406	944	1643	-266	704	-411
3	1931 Federal Report Surplus Deficit	37.0	-624	-910	-583	-322	-1291	-2365	-2246	-1051	-51.6	-552	2243	741	192	-506
4	1932 Federal Report Surplus Deficit	7.98	-867	-988	-874	-885	-1404	-2853	-2615	634	3940	3632	4943	4840	729	416
5	1933 Federal Report Surplus Deficit	882	71.7	-368	-451	-848	-823	869	1245	1572	1760	1397	3605	5651	2825	1274
6	1934 Federal Report Surplus Deficit	1475	1546	-369	134	1742	3241	3987	3661	3058	4254	3705	3981	2735	894	2373
7	1935 Federal Report Surplus Deficit	-367	-707	-1002	-496	-1156	-430	504	835	1623	885	869	3054	2199	1843	611
8	1936 Federal Report Surplus Deficit	1390	-52.6	-852	-615	-555	-1404	-1790	-1828	-472	347	3195	4434	3872	495	318
9	1937 Federal Report Surplus Deficit	145	-740	-925	-612	-296	-1332	-1966	-2110	-844	-520	-496	2333	904	73.5	-455
10	1938 Federal Report Surplus Deficit	5.99	-748	-983	-452	-748	-110	79.6	81.7	2077	2558	3919	3778	3870	1403	991
11	1939 Federal Report Surplus Deficit	110	-541	-466	-407	-569	-1434	-948	-665	271	1280	2107	3784	852	281	185
12	1940 Federal Report Surplus Deficit	-332	-839	-866	-312	-204	-197	-956	-1384	2541	1677	1336	3049	1293	193	352
13	1941 Federal Report Surplus Deficit	-223	-922	-1010	-470	-641	-419	-1640	-1341	-502	-302	289	2392	1088	740	-191
14	1942 Federal Report Surplus Deficit	-40.8	-739	-902	-553	-42.2	-0.56	36.7	-354	617	363	1705	2676	3041	2231	621
15	1943 Federal Report Surplus Deficit	843	-30.6	-19.1	-424	-923	-578	887	1339	2092	4520	4734	3870	5256	1305	1478
16	1944 Federal Report Surplus Deficit	765	141	-705	-685	-437	-1439	-1341	-1239	-812	-836	533	1156	-349	-142	-470
17	1945 Federal Report Surplus Deficit	-337	-917	-1243	-517	-495	-1444	-2286	-1632	-819	-1026	-1819	3545	3788	-338	-285
18	1946 Federal Report Surplus Deficit	246	-431	-818	-636	-619	-170	180	356	1400	3129	4192	4148	4039	1865	1109
19	1947 Federal Report Surplus Deficit	1377	507	-391	-682	-297	1877	2125	2165	2906	2118	1793	4138	4427	2081	1770
20	1948 Federal Report Surplus Deficit	993	-188	-477	1369	967	578	2393	1344	1216	2101	3535	4913	5513	2692	1978
21	1949 Federal Report Surplus Deficit	1741	1758	315	-431	-460	-572	127	-334	2801	2912	3500	4521	4139	-319	1235
22	1950 Federal Report Surplus Deficit	-427	-968	-1065	-570	-548	-556	1961	2150	3194	3838	2952	4164	4746	2113	1516
23	1951 Federal Report Surplus Deficit	1925	1446	-289	194	1277	2011	3579	3828	3869	3712	3573	4178	3575	2575	2504
24	1952 Federal Report Surplus Deficit	1705	1364	-352	945	324	669	1798	1210	2147	3846	4340	4765	4445	1708	1944
25	1953 Federal Report Surplus Deficit	741	-275	-949	-683	-698	-1343	285	113	919	1124	1333	4005	5723	2449	941
26	1954 Federal Report Surplus Deficit	728	194	-412	-515	-171	181	1559	1775	2198	2315	2151	4169	4569	3251	1606
27	1955 Federal Report Surplus Deficit	2031	1948	1693	-379	406	-243	-717	-825	-402	611	1063	3234	5292	3338	1192
28	1956 Federal Report Surplus Deficit	1722	1017	-641	-244	891	1946	3440	3374	3214	3717	4310	4462	5532	2647	2493
29	1957 Federal Report Surplus Deficit	1695	1118	-412	-292	-506	252	436	-515	1807	3955	1986	5242	5785	1720	1501
30	1958 Federal Report Surplus Deficit	730	-332	-625	-512	-367	-861	671	559	1562	2272	2682	4457	4873	1043	1121
31	1959 Federal Report Surplus Deficit	74.7	-217	-642	-430	110	1397	2999	2638	2481	2987	2008	3664	4914	1684	1763
32	1960 Federal Report Surplus Deficit	1742	1738	1699	2067	1820	1258	1501	266	1525	4793	3371	3614	3974	1687	2109
33	1961 Federal Report Surplus Deficit	843	-333	-736	-476	-413	-425	948	1417	2194	2663	1306	4247	5059	1509	1292
34	1962 Federal Report Surplus Deficit	679	-71.1	-765	-621	-382	-858	465	540	-98.5	4249	4063	4051	4492	-102	924
35	1963 Federal Report Surplus Deficit	426	-322	-770	-152	419	1083	1411	677	1156	807	1125	3309	3217	1778	1099
36	1964 Federal Report Surplus Deficit	702	-103	-310	-643	-652	-532	-320	-592	-83.8	2872	1166	3967	5595	3159	997
37	1965 Federal Report Surplus Deficit	1739	1515	188	130	146	2089	4318	3941	3525	1781	4117	4371	4358	2149	2476
38	1966 Federal Report Surplus Deficit	1740	1307	-702	-326	-118	-199	353	-21.3	-53.4	3886	1913	2776	2762	1775	893
39	1967 Federal Report Surplus Deficit	1141	-261	-629	-644	-624	-209	2276	2223	2677	1230	-297	3352	5029	2470	1397
40	1968 Federal Report Surplus Deficit	1409	645	-415	-459	-97.8	-176	1548	1069	2008	675	547	2074	4378	2026	1132
41	1969 Federal Report Surplus Deficit	1506	819	660	233	966	689	3026	3278	2254	3754	3764	4306	4237	2072	2208
42	1970 Federal Report Surplus Deficit	1040	424	-489	-492	-284	-1008	749	513	1095	1643	232	3450	5038	1022	937
43	1971 Federal Report Surplus Deficit	-124	-577	-706	-646	-477	-771	3227	3826	3858	3634	3455	4579	5442	3131	2040
44	1972 Federal Report Surplus Deficit	1985	1739	45.9	-248	-285	121	2929	3600	5207	4419	2749	4707	5408	3085	2495
45	1973 Federal Report Surplus Deficit	1957	1805	503	-296	-293	-230	570	-351	-435	-1643	184	2147	967	137	330
46	1974 Federal Report Surplus Deficit	-116	-952	-970	-544	-911	862	4581	4497	4488	4221	4148	4186	5116	3392	2349
47	1975 Federal Report Surplus Deficit	1910	1819	298	-739	-427	-670	281	1116	1705	1072	1334	3767	5464	3669	1461
48	1976 Federal Report Surplus Deficit	1864	1148	17.3	368	1205	2878	2822	2896	3245	4073	3748	4639	4314	2860	2553
49	1977 Federal Report Surplus Deficit	2239	2241	2129	-228	-372	-1416	-1400	-1021	-556	-1267	363	998	-929	-187	-93.9
50	1978 Federal Report Surplus Deficit	-265	-1023	-1567	-974	-1069	483	368	644	1365	3758	2087	3889	2733	2140	859
51	1979 Federal Report Surplus Deficit	386	-268	270	-204	-361	-892	-67.4	-1362	1227	770	1487	4294	1474	-354	446
52	1980 Federal Report Surplus Deficit	-489	-910	-718	-564	-420	-1663	-498	-754	-512	1686	2820	5136	4482	367	535
53	1981 Federal Report Surplus Deficit	91.8	-731	-482	-479	-444	1414	1846	1470	1477	-279	1540	3635	5513	2280	1377
54	1982 Federal Report Surplus Deficit	1604	1569	-97.4	-542	-115	376	1644	3767	4610	3374	2753	4280	4972	2685	2175

Federal Report Surplus Deficit By Water Year

Operating Year 2022

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW - Surplus Deficit	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
55	1983 Federal Report Surplus Deficit	1894	1872	911	275	2.20	638	2100	2048	3996	3059	1927	4042	4397	2790	2133
56	1984 Federal Report Surplus Deficit	1840	1836	-86.4	-409	1460	586	1522	1753	2381	4372	3803	4395	5483	2717	2140
57	1985 Federal Report Surplus Deficit	1851	760	-96.1	-357	-2.78	-263	-77.3	-128	665	2524	2721	4439	2368	-986	792
58	1986 Federal Report Surplus Deficit	-854	-1216	-898	-3.58	763	-273	669	1781	5327	3557	3281	3375	4290	1062	1533
59	1987 Federal Report Surplus Deficit	469	-473	-664	-696	-487	-183	-344	-1486	1004	376	1090	3192	2234	-41.7	283
60	1988 Federal Report Surplus Deficit	-549	-1132	-1095	-652	-527	-1696	-1910	-2060	-621	-227	1110	2191	1031	927	-392
61	1989 Federal Report Surplus Deficit	-26.6	-699	-1040	-695	-738	-453	-1465	-1404	486	2605	3639	3819	2390	-329	283
62	1990 Federal Report Surplus Deficit	-262	-738	-814	-583	-173	97.1	964	1104	1749	1796	4259	3649	4154	1253	1156
63	1991 Federal Report Surplus Deficit	1166	467	-685	-890	1244	855	1823	1781	2116	2759	1882	4078	4082	2636	1679
64	1992 Federal Report Surplus Deficit	1592	1417	-580	-751	-421	-1109	-733	-1425	848	-272	356	1936	450	-161	-21.1
65	1993 Federal Report Surplus Deficit	-529	-1092	-1300	-597	-572	-990	-1947	-2202	118	340	1416	3693	3017	654	6.67
66	1994 Federal Report Surplus Deficit	292	-289	-723	-640	-131	-1086	-1857	-1353	-753	-598	968	3035	2090	512	-54.5
67	1995 Federal Report Surplus Deficit	-132	-852	-879	-733	-922	-911	-1213	1392	2408	1238	909	2890	4361	1390	688
68	1996 Federal Report Surplus Deficit	305	-334	-366	373	2086	3954	4317	3896	5033	3672	4589	4098	5223	2994	2970
69	1997 Federal Report Surplus Deficit	1753	1588	-514	-558	-109	648	4255	4501	5152	3781	4539	4674	5395	3154	2692
70	1998 Federal Report Surplus Deficit	1928	1889	708	1578	829	301	132	692	772	792	1684	4701	5296	1796	1667
71	1999 Federal Report Surplus Deficit	1588	368	-528	-576	-767	206	2791	2988	3930	2673	2830	4180	5525	2986	2032
72	2000 Federal Report Surplus Deficit	1990	1895	326	-388	1463	1147	959	942	1539	3680	3998	3365	2856	1635	1636
73	2001 Federal Report Surplus Deficit	925	-884	-734	-550	-476	-1402	-1379	-1257	-547	-978	513	1693	-1230	-74.9	-509
74	2002 Federal Report Surplus Deficit	-377	-1006	-1667	-1035	-944	-664	-1460	-1052	-202	1908	3297	2877	4576	2477	404
75	2003 Federal Report Surplus Deficit	955	-72.5	-653	-840	-227	-1278	-1749	-1362	1881	1953	1709	3034	4321	-285	430
76	2004 Federal Report Surplus Deficit	-657	-1114	-1134	-471	-371	73.3	-1301	-1655	932	1144	1158	3052	2974	-286	182
77	2005 Federal Report Surplus Deficit	-407	-754	218	-392	-383	78.3	115	42.0	28.8	-247	1001	3580	2978	319	532
78	2006 Federal Report Surplus Deficit	168	-674	-676	-574	-392	-368	1292	1297	1836	4309	4139	4637	4583	941	1372
79	2007 Federal Report Surplus Deficit	593	-917	-905	-939	-98.9	-242	1003	-209	2992	2617	1998	3629	2509	1569	962
80	2008 Federal Report Surplus Deficit	-12.5	-857	-1240	-433	-478	-744	-727	-586	59.2	1065	20.0	4779	5733	2017	712
	Ranked Averages															
81	**Bottom 10 pct**	**168**	**-542**	**-862**	**-579**	**-431**	**-1422**	**-1841**	**-1628**	**-765**	**-613**	**92.1**	**2036**	**792**	**77.4**	**-416**
82	**Middle 80 pct**	**709**	**88.6**	**-434**	**-387**	**-219**	**-204**	**485**	**471**	**1511**	**2059**	**2190**	**3741**	**3908**	**1484**	**1074**
83	**Top 10 pct**	**1596**	**1208**	**-241**	**18.8**	**869**	**2111**	**3706**	**3712**	**4038**	**3676**	**3916**	**4389**	**4568**	**2545**	**2569**

Federal Report Surplus Deficit By Water Year

Operating Year 2023

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW - Surplus Deficit	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
1	1929 Federal Report Surplus Deficit	509	433	-744	-467	-485	-1417	-1488	-1320	-766	-912	494	1001	953	-872	-442
2	1930 Federal Report Surplus Deficit	-251	-614	-719	-550	-475	-1358	-2134	-1223	-707	-460	934	1161	-1034	554	-553
3	1931 Federal Report Surplus Deficit	-6.92	-619	-993	-576	-352	-1292	-2435	-2279	-1074	-105	-562	1761	-26.9	41.2	-646
4	1932 Federal Report Surplus Deficit	-38.7	-864	-1074	-867	-915	-1406	-2922	-2648	612	3886	3621	4590	4068	579	286
5	1933 Federal Report Surplus Deficit	830	69.7	-456	-444	-878	-824	799	1212	1550	1706	1386	3123	4801	2675	1126
6	1934 Federal Report Surplus Deficit	1426	1546	-456	142	1712	3240	3917	3628	3035	4200	3695	3499	1967	743	2232
7	1935 Federal Report Surplus Deficit	-412	-703	-1088	-488	-1186	-431	434	801	1601	831	859	2572	1431	1693	470
8	1936 Federal Report Surplus Deficit	1338	-55.3	-945	-607	-585	-1405	-1859	-1861	-494	294	3185	4179	3104	345	196
9	1937 Federal Report Surplus Deficit	97.2	-738	-1012	-604	-326	-1333	-2036	-2143	-866	-573	-506	1851	137	-76.8	-596
10	1938 Federal Report Surplus Deficit	-43.6	-748	-1072	-444	-779	-112	9.69	48.5	2054	2504	3908	3705	3102	1253	884
11	1939 Federal Report Surplus Deficit	59.3	-542	-553	-399	-600	-1436	-1018	-698	249	1227	2097	3325	84.3	131	46.1
12	1940 Federal Report Surplus Deficit	-380	-837	-954	-305	-234	-199	-1026	-1417	2519	1623	1326	2568	526	42.7	211
13	1941 Federal Report Surplus Deficit	-271	-920	-1097	-462	-672	-420	-1710	-1374	-524	-355	279	1910	321	589	-331
14	1942 Federal Report Surplus Deficit	-89.4	-738	-990	-546	-72.8	-1.93	-33.2	-387	595	309	1695	2195	2273	2081	480
15	1943 Federal Report Surplus Deficit	791	-32.8	-111	-416	-954	-579	818	1306	2069	4466	4724	3658	4090	1154	1327
16	1944 Federal Report Surplus Deficit	714	139	-797	-678	-468	-1441	-1411	-1272	-834	-890	523	675	-1117	-292	-611
17	1945 Federal Report Surplus Deficit	-386	-916	-1331	-510	-525	-1446	-2356	-1666	-841	-1079	-1829	3063	3021	-489	-427
18	1946 Federal Report Surplus Deficit	194	-434	-912	-628	-650	-172	110	323	1378	3076	4182	3909	3271	1714	988
19	1947 Federal Report Surplus Deficit	1197	509	-480	-675	-328	1875	2055	2132	2884	2065	1783	3813	3660	1931	1636
20	1948 Federal Report Surplus Deficit	941	-190	-568	1376	936	577	2323	1311	1193	2047	3525	4612	4372	2542	1822
21	1949 Federal Report Surplus Deficit	1693	1760	228	-423	-491	-573	56.7	-367	2779	2858	3489	4155	3372	-469	1104
22	1950 Federal Report Surplus Deficit	-476	-968	-1156	-563	-579	-557	1892	2117	3172	3784	2942	3831	3743	1963	1368
23	1951 Federal Report Surplus Deficit	1870	1441	-388	202	1247	2009	3509	3795	3846	3658	3562	3814	2808	2425	2371
24	1952 Federal Report Surplus Deficit	1651	1360	-448	952	293	668	1729	1177	2125	3792	4330	4458	3669	1568	1817
25	1953 Federal Report Surplus Deficit	649	-279	-1040	-676	-729	-1344	215	79.7	896	1071	1323	3652	4585	2299	778
26	1954 Federal Report Surplus Deficit	678	194	-502	-507	-202	179	1489	1742	2176	2261	2141	3789	3693	3101	1465
27	1955 Federal Report Surplus Deficit	1982	1948	1604	-371	375	-244	-787	-858	-424	557	1053	2752	4406	3188	1041
28	1956 Federal Report Surplus Deficit	1667	1012	-730	-236	861	1945	3370	3341	3192	3663	4300	4196	4279	2496	2329
29	1957 Federal Report Surplus Deficit	1648	1121	-503	-285	-537	251	366	-548	1784	3901	1976	4856	4974	1570	1365
30	1958 Federal Report Surplus Deficit	678	-335	-717	-504	-397	-862	601	526	1540	2218	2672	4237	4019	892	994
31	1959 Federal Report Surplus Deficit	23.4	-218	-733	-422	79.7	1396	2929	2605	2459	2934	1998	3182	4087	1533	1617
32	1960 Federal Report Surplus Deficit	1693	1740	1611	2074	1789	1256	1431	233	1502	4739	3361	3132	3206	1536	1968
33	1961 Federal Report Surplus Deficit	794	-331	-825	-468	-443	-427	878	1384	2171	2609	1296	3766	4291	1359	1151
34	1962 Federal Report Surplus Deficit	631	-68.8	-857	-613	-413	-859	395	507	-121	4195	4053	3726	3725	-252	796
35	1963 Federal Report Surplus Deficit	378	-321	-861	-145	389	1081	1341	644	1134	753	1115	2827	2450	1628	958
36	1964 Federal Report Surplus Deficit	653	-102	-396	-635	-683	-534	-390	-625	-106	2819	1156	3486	4536	3009	832
37	1965 Federal Report Surplus Deficit	1682	1507	88.6	138	115	2088	4248	3908	3503	1727	4107	4002	3590	1998	2343
38	1966 Federal Report Surplus Deficit	1686	1302	-796	-318	-148	-201	283	-54.4	-75.7	3832	1903	2295	1994	1625	751
39	1967 Federal Report Surplus Deficit	1093	-259	-715	-637	-655	-210	2206	2190	2654	1176	-307	3101	3882	2320	1245
40	1968 Federal Report Surplus Deficit	1354	640	-506	-452	-128	-178	1478	1036	1986	621	537	1592	3577	1892	989
41	1969 Federal Report Surplus Deficit	1448	810	563	240	936	688	2956	3245	2232	3700	3754	3981	3449	1931	2078
42	1970 Federal Report Surplus Deficit	992	426	-577	-484	-315	-1009	679	480	1072	1589	222	2968	4178	959	796
43	1971 Federal Report Surplus Deficit	-181	-585	-804	-639	-508	-772	3157	3793	3836	3580	3445	4229	4042	2981	1857
44	1972 Federal Report Surplus Deficit	1929	1733	-50.5	-241	-316	120	2860	3567	4789	4365	2738	4429	4268	2934	2306
45	1973 Federal Report Surplus Deficit	1903	1800	407	-289	-324	-231	500	-384	-457	-1697	174	1666	199	-13.4	188
46	1974 Federal Report Surplus Deficit	-169	-956	-1064	-536	-941	860	4511	4464	4047	4168	4117	3707	3733	3242	2120
47	1975 Federal Report Surplus Deficit	1853	1813	204	-732	-458	-672	211	1083	1683	1018	1324	3497	4180	3524	1295
48	1976 Federal Report Surplus Deficit	1806	1140	-79.8	376	1175	2877	2752	2863	3223	4019	3738	4282	3547	2710	2421
49	1977 Federal Report Surplus Deficit	2184	2236	2042	-220	-402	-1418	-1470	-1054	-578	-1321	352	516	-1697	-337	-235
50	1978 Federal Report Surplus Deficit	-311	-1020	-1655	-966	-1100	482	298	611	1343	3704	2077	3531	1965	1989	729
51	1979 Federal Report Surplus Deficit	325	-279	171	-197	-392	-894	-137	-1395	1205	716	1477	3861	706	-504	307
52	1980 Federal Report Surplus Deficit	-536	-908	-806	-556	-451	-1665	-568	-787	-535	1632	2810	4766	3714	216	403
53	1981 Federal Report Surplus Deficit	43.0	-730	-571	-471	-474	1413	1776	1437	1454	-333	1529	3153	4746	2130	1236
54	1982 Federal Report Surplus Deficit	1556	1571	-189	-535	-145	375	1574	3734	4485	3321	2742	4057	4205	2535	2047

Federal Report Surplus Deficit By Water Year

Operating Year 2023

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW - Surplus Deficit	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
55	1983 Federal Report Surplus Deficit	1834	1861	814	283	-28.4	637	2030	2014	3923	3005	1917	3795	3465	2678	1996
56	1984 Federal Report Surplus Deficit	1783	1829	-182	-401	1429	584	1452	1720	2359	4318	3792	3913	4526	2566	1983
57	1985 Federal Report Surplus Deficit	1794	752	-193	-349	-33.4	-264	-147	-161	643	2471	2711	4030	1600	-1137	656
58	1986 Federal Report Surplus Deficit	-910	-1223	-993	3.92	732	-275	599	1747	4804	3491	3272	2909	3545	912	1351
59	1987 Federal Report Surplus Deficit	412	-480	-755	-689	-518	-184	-414	-1519	982	323	1080	2710	1466	-192	141
60	1988 Federal Report Surplus Deficit	-595	-1128	-1180	-644	-558	-1698	-1980	-2093	-643	-281	1100	1709	263	777	-533
61	1989 Federal Report Surplus Deficit	-74.0	-696	-1127	-687	-769	-455	-1535	-1437	464	2551	3628	3337	1623	-479	142
62	1990 Federal Report Surplus Deficit	-313	-739	-904	-576	-204	95.7	894	1071	1727	1742	4249	3167	3386	1103	1015
63	1991 Federal Report Surplus Deficit	1118	469	-775	-882	1213	854	1753	1748	2093	2706	1872	3596	3314	2485	1538
64	1992 Federal Report Surplus Deficit	1543	1418	-668	-743	-452	-1110	-803	-1458	826	-325	346	1454	-318	-312	-162
65	1993 Federal Report Surplus Deficit	-577	-1090	-1387	-589	-603	-992	-2017	-2236	96.1	286	1406	3211	2250	503	-134
66	1994 Federal Report Surplus Deficit	240	-292	-814	-632	-162	-1088	-1927	-1387	-775	-652	958	2553	1323	362	-196
67	1995 Federal Report Surplus Deficit	-180	-850	-967	-725	-952	-912	-1283	1359	2385	1185	899	2408	3548	1290	547
68	1996 Federal Report Surplus Deficit	242	-343	-466	380	2056	3953	4247	3863	4883	3700	4587	3843	4306	2860	2829
69	1997 Federal Report Surplus Deficit	1696	1580	-610	-551	-140	646	4185	4467	5021	3728	4529	4217	4434	3004	2526
70	1998 Federal Report Surplus Deficit	1871	1882	612	1585	798	299	62.1	659	750	738	1674	4524	4464	1732	1552
71	1999 Federal Report Surplus Deficit	1532	363	-625	-568	-798	204	2721	2955	3907	2619	2819	3833	4432	2836	1874
72	2000 Federal Report Surplus Deficit	1937	1891	234	-380	1432	1145	889	909	1517	3626	3988	2884	2089	1485	1494
73	2001 Federal Report Surplus Deficit	877	-882	-821	-542	-507	-1403	-1449	-1290	-569	-1031	502	1211	-1998	-225	-650
74	2002 Federal Report Surplus Deficit	-424	-1003	-1753	-1028	-975	-665	-1530	-1085	-224	1854	3287	2395	3809	2327	264
75	2003 Federal Report Surplus Deficit	906	-71.7	-742	-832	-257	-1280	-1819	-1395	1859	1899	1698	2552	3554	-435	289
76	2004 Federal Report Surplus Deficit	-704	-1111	-1221	-464	-402	71.9	-1371	-1688	910	1090	1148	2570	2207	-436	41.5
77	2005 Federal Report Surplus Deficit	-456	-753	131	-384	-413	76.9	45.3	8.80	6.55	-300	991	3098	2210	169	392
78	2006 Federal Report Surplus Deficit	117	-675	-768	-567	-423	-370	1222	1264	1814	4255	4129	4294	3580	878	1230
79	2007 Federal Report Surplus Deficit	542	-918	-995	-932	-129	-243	933	-243	2970	2563	1987	3148	1741	1418	820
80	2008 Federal Report Surplus Deficit	-68.5	-862	-1328	-426	-508	-746	-797	-619	37.0	1011	9.74	4391	4912	1866	574

Ranked Averages

81	**Bottom 10 pct**	**120**	**-541**	**-950**	**-571**	**-462**	**-1423**	**-1911**	**-1661**	**-788**	**-667**	**81.9**	**1554**	**24.8**	**-72.9**	**-557**
82	**Middle 80 pct**	**655**	**87.1**	**-525**	**-379**	**-250**	**-205**	**415**	**437**	**1472**	**2005**	**2180**	**3339**	**3054**	**1340**	**931**
83	**Top 10 pct**	**1540**	**1202**	**-336**	**26.3**	**839**	**2110**	**3636**	**3679**	**3937**	**3632**	**3907**	**4035**	**3650**	**2396**	**2420**

THIS PAGE INTENTIONALLY LEFT BLANK

Exhibit 36
Regional Report Surplus Deficit By Water Year
80 Water Year Regional Surplus/Deficit

Annual Energy
Operating Year 2014 to 2023
Using 1937-Water Conditions

Regional Report Surplus Deficit By Water Year

Operating Year 2014

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW - Surplus Deficit	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
1	1929 Regional Report Surplus Deficit	7578	6469	5783	7060	6857	4251	3237	3371	4051	5595	6579	7872	9369	6132	5932
2	1930 Regional Report Surplus Deficit	5130	4238	5912	5865	6009	3916	1653	3932	3803	6064	8401	6834	5884	7200	5242
3	1931 Regional Report Surplus Deficit	5303	4406	5901	5604	6518	3603	1897	2294	2720	6515	2577	7755	6340	6003	4846
4	1932 Regional Report Surplus Deficit	4745	4368	5288	5134	5693	4380	780	1276	7186	14940	14056	13582	14750	7696	7082
5	1933 Regional Report Surplus Deficit	7619	5895	6542	6260	6498	5070	8678	8975	8825	10962	8995	11076	16091	12797	8951
6	1934 Regional Report Surplus Deficit	8866	9203	6666	8667	11883	13795	14886	14146	12163	15645	13682	12184	10611	7787	11356
7	1935 Regional Report Surplus Deficit	4882	4772	5356	5964	6347	5762	7910	7922	7323	10310	8238	10166	10404	9594	7565
8	1936 Regional Report Surplus Deficit	7715	5766	5224	6053	6141	3804	2753	2610	4533	7397	12266	13508	13447	7438	6853
9	1937 Regional Report Surplus Deficit	5344	4399	5054	5839	6402	4052	2107	1928	3992	6618	4945	8445	8359	6762	5314
10	1938 Regional Report Surplus Deficit	5377	4212	5865	5960	6203	6191	7440	7186	9185	13322	14966	13059	11866	9258	8426
11	1939 Regional Report Surplus Deficit	6061	5518	5964	6529	6322	4380	4549	4470	5766	11273	10572	11519	8685	6822	6816
12	1940 Regional Report Surplus Deficit	4542	3558	5378	6305	6990	5643	3552	4657	8058	11099	11054	10101	9414	5742	6747
13	1941 Regional Report Surplus Deficit	4014	3441	5420	6295	5794	4910	2805	3826	3601	6216	6253	7883	8651	6494	5472
14	1942 Regional Report Surplus Deficit	4715	4544	6479	5720	6532	7049	6796	4590	4437	6767	10149	9205	13101	10546	7303
15	1943 Regional Report Surplus Deficit	6778	5955	7260	6263	6258	5918	8857	8809	9744	16733	16066	12981	15168	9554	9449
16	1944 Regional Report Surplus Deficit	7612	6787	5963	6349	6655	4461	3578	3944	4414	5303	6924	6105	5066	5691	5468
17	1945 Regional Report Surplus Deficit	4515	4057	5355	5638	6161	3538	2466	2733	3386	5167	2303	10823	12887	5573	5555
18	1946 Regional Report Surplus Deficit	6172	4947	6009	6139	6635	6153	7779	7404	8816	13901	15145	13184	13577	10399	8844
19	1947 Regional Report Surplus Deficit	8793	7207	6382	6359	7261	11273	11539	12199	10956	11999	10810	12025	13754	10107	10089
20	1948 Regional Report Surplus Deficit	7176	5791	6058	11043	10095	8235	11336	9064	7649	11552	13491	14316	15969	11647	10369
21	1949 Regional Report Surplus Deficit	9888	9507	7132	7064	7069	5658	7084	5159	11275	13432	14582	14102	13644	6409	9040
22	1950 Regional Report Surplus Deficit	4964	4149	5270	6333	7024	5696	11326	10404	13003	15277	13316	12652	15124	11501	9751
23	1951 Regional Report Surplus Deficit	9893	9806	6824	8876	11290	12271	13857	14692	14375	15651	14536	12887	13634	11550	12083
24	1952 Regional Report Surplus Deficit	9558	8251	6922	10474	8891	8597	10147	9817	10249	15012	15042	14451	14180	9701	10611
25	1953 Regional Report Surplus Deficit	7962	6435	5391	6045	6394	4081	5547	8986	7313	9866	9285	12613	15945	11350	8352
26	1954 Regional Report Surplus Deficit	7820	7004	6520	6822	7641	7890	10952	11025	10560	12830	11247	12721	14374	13673	10127
27	1955 Regional Report Surplus Deficit	10265	10572	10820	7247	9039	6628	5395	4037	3664	8240	7915	10193	15773	13574	8755
28	1956 Regional Report Surplus Deficit	9503	7948	6211	7980	10389	11656	14056	13391	12677	15196	15953	13824	16168	12092	11879
29	1957 Regional Report Surplus Deficit	9435	8359	6604	7581	7039	8063	7516	5921	9818	15261	11327	15132	16240	8940	9602
30	1958 Regional Report Surplus Deficit	6770	5832	5914	6450	6748	5397	8135	8415	8991	12314	11940	13885	14534	8146	8743
31	1959 Regional Report Surplus Deficit	6327	5712	5774	6530	8767	10323	12870	12152	11046	13661	11206	11690	14871	10511	10230
32	1960 Regional Report Surplus Deficit	8988	9479	11084	12841	12134	9736	9443	7994	9010	17257	13573	11467	13168	9295	10904
33	1961 Regional Report Surplus Deficit	7508	5606	5641	6658	7360	6089	8946	9582	10570	13762	8925	12354	14896	8587	9033
34	1962 Regional Report Surplus Deficit	6376	5837	5512	6316	6772	5089	7641	7628	6087	15141	15239	12321	13971	6164	8214
35	1963 Regional Report Surplus Deficit	6475	5839	5668	7262	8936	9470	8145	8410	6673	9720	9172	11061	14275	9593	8751
36	1964 Regional Report Surplus Deficit	6554	6280	6411	6286	6637	6035	6497	5991	6111	13387	8809	12023	16182	12993	8561
37	1965 Regional Report Surplus Deficit	9316	9208	7787	8175	8120	11794	15157	14900	13416	11557	15476	13513	13836	9771	11585
38	1966 Regional Report Surplus Deficit	9163	8810	6219	7279	7564	6494	7368	6732	5486	15503	10319	10494	11112	9720	8365
39	1967 Regional Report Surplus Deficit	6717	6017	5885	6234	6457	7147	11055	12118	11932	10400	5803	11449	15202	11428	9430
40	1968 Regional Report Surplus Deficit	7970	7229	6374	7272	7843	6752	9645	10608	10284	8722	7261	8186	14289	10500	8928
41	1969 Regional Report Surplus Deficit	8400	7950	8878	8889	10223	8731	12777	13175	10124	15493	14765	13630	13771	10241	11119
42	1970 Regional Report Surplus Deficit	8324	6950	6224	6672	7054	5023	7758	7707	7682	10655	7643	11694	14930	7650	8256
43	1971 Regional Report Surplus Deficit	6183	5522	5705	6255	6881	5728	13635	15155	13778	15010	13808	13788	15684	13461	10826
44	1972 Regional Report Surplus Deficit	10098	9702	7471	7654	7590	7339	13071	14658	17105	17262	12971	14060	16147	13176	11921
45	1973 Regional Report Surplus Deficit	10163	10031	8417	7565	7317	7094	7593	5333	4982	4302	6788	8084	9966	6506	7387
46	1974 Regional Report Surplus Deficit	4908	4009	5863	6010	6819	8016	16454	16413	14629	15569	14855	13251	15580	13833	11340
47	1975 Regional Report Surplus Deficit	10188	10021	7444	6436	7053	6084	8089	9213	9589	9870	9263	12399	15679	13770	9618
48	1976 Regional Report Surplus Deficit	9306	8425	7431	9108	10815	13753	12805	12787	12611	15674	14474	13922	14446	12313	11987
49	1977 Regional Report Surplus Deficit	10866	11376	11638	7313	6755	4180	3411	4393	4021	4553	6767	5393	4590	5050	6131
50	1978 Regional Report Surplus Deficit	4338	4067	4706	4642	5835	8681	6776	6736	8007	14933	11055	12457	10590	9714	7948
51	1979 Regional Report Surplus Deficit	6774	6034	8902	7310	6776	4817	5221	4216	8501	8615	9124	13038	9196	5823	7437
52	1980 Regional Report Surplus Deficit	4077	4019	5440	6135	6322	4208	4552	5493	5172	10818	12373	14397	14245	7117	7387
53	1981 Regional Report Surplus Deficit	5724	4815	6074	6454	6812	10834	10604	8353	6717	7012	10580	12922	15384	10804	9088
54	1982 Regional Report Surplus Deficit	8463	8833	6695	6672	7595	7876	10102	14479	14834	13950	11851	13509	15245	11638	10822

Regional Report Surplus Deficit By Water Year

Operating Year 2014

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW - Surplus Deficit	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
55	1983 Regional Report Surplus Deficit	9403	9698	9002	8572	7931	8743	11708	11538	14045	13736	11264	12974	14285	11659	11039
56	1984 Regional Report Surplus Deficit	9341	9460	7059	7183	11332	8498	10734	10483	10530	15736	14261	12380	16024	11735	10850
57	1985 Regional Report Surplus Deficit	8230	7488	6911	7292	8234	6347	6437	6524	7409	12743	12394	12982	11166	3964	8136
58	1986 Regional Report Surplus Deficit	3534	3021	5657	6634	9553	6436	8694	10239	16359	14705	13278	10917	13574	7881	9412
59	1987 Regional Report Surplus Deficit	6343	5218	5860	6290	7061	6631	5102	3475	7459	8187	8618	11566	9497	6093	6953
60	1988 Regional Report Surplus Deficit	3648	2913	5394	5610	5999	3509	2592	2249	3968	6496	8773	8161	9558	7322	5446
61	1989 Regional Report Surplus Deficit	4402	4060	5558	5371	5986	5045	4556	3658	6246	12496	14371	11623	10218	6381	6863
62	1990 Regional Report Surplus Deficit	5001	4158	5689	5880	7497	6749	9279	9787	9430	11540	14554	11187	13481	9324	8806
63	1991 Regional Report Surplus Deficit	8076	7078	6173	5766	11160	8679	9691	11883	10381	13163	10945	12060	13009	11864	10002
64	1992 Regional Report Surplus Deficit	8951	8971	6075	5809	6713	4387	3892	4277	5151	6879	7224	9376	8137	4915	6237
65	1993 Regional Report Surplus Deficit	3473	3048	5263	5571	6169	4139	2039	2102	5922	8131	9188	11174	11063	8224	6147
66	1994 Regional Report Surplus Deficit	6142	5170	6056	5528	6765	4312	2955	2016	4250	6079	8388	9595	9556	6720	5901
67	1995 Regional Report Surplus Deficit	4650	3729	5627	5354	5792	4151	4599	8283	10040	12198	8782	10279	14209	8523	7606
68	1996 Regional Report Surplus Deficit	6448	5641	6987	7473	12911	15426	15768	15804	16144	14796	16220	13267	14968	12288	12690
69	1997 Regional Report Surplus Deficit	9222	9074	6110	6697	7716	8626	15495	16269	16645	15456	16298	14071	16265	13265	12155
70	1998 Regional Report Surplus Deficit	9868	9945	9049	11866	9927	7849	7474	8189	7827	9942	10802	14427	15676	9491	10176
71	1999 Regional Report Surplus Deficit	7669	5831	6166	6294	6579	7902	12644	13257	13485	13244	13536	12928	16188	13062	10698
72	2000 Regional Report Surplus Deficit	10502	10294	7703	6886	11509	9777	8908	8689	9046	14993	15198	11108	11020	8702	9898
73	2001 Regional Report Surplus Deficit	7136	4970	5669	6298	6287	3978	3071	3721	3884	4875	7103	6773	3906	5597	5107
74	2002 Regional Report Surplus Deficit	3926	3672	4876	4218	5523	4147	3868	4342	4661	12550	12933	9464	14210	11546	6945
75	2003 Regional Report Surplus Deficit	8208	6579	5930	5542	6584	4128	3491	3408	8304	10851	9535	9542	13010	6003	6966
76	2004 Regional Report Surplus Deficit	4014	3028	5448	6248	6586	5713	4049	3481	5121	9407	9737	10428	11041	6788	6505
77	2005 Regional Report Surplus Deficit	4765	4874	6533	6761	6798	6953	6931	5723	5469	6664	7820	10554	11365	7010	7183
78	2006 Regional Report Surplus Deficit	5335	4125	5608	5493	6535	5858	10101	9659	9356	15884	14605	13908	13892	8305	9037
79	2007 Regional Report Surplus Deficit	5613	4987	5455	5540	8021	6210	8610	6086	12540	12634	10590	11213	10492	8955	8347
80	2008 Regional Report Surplus Deficit	5735	3795	5431	5887	6097	4807	4932	3877	6771	9110	6507	13257	16314	10494	7549

Ranked Averages

81	**Bottom 10 pct**	**5338**	**4401**	**5584**	**5937**	**6228**	**3996**	**2521**	**3078**	**3721**	**5907**	**5910**	**7847**	**7581**	**6330**	**5306**
82	**Middle 80 pct**	**6976**	**6278**	**6466**	**6716**	**7405**	**6500**	**7665**	**7643**	**8538**	**11676**	**11105**	**11826**	**13214**	**9267**	**8601**
83	**Top 10 pct**	**9082**	**8626**	**6936**	**8079**	**10089**	**11833**	**14387**	**14581**	**14392**	**15155**	**14951**	**13466**	**14510**	**11530**	**11957**

Regional Report Surplus Deficit By Water Year

Operating Year 2015

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW - Surplus Deficit	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
1	1929 Regional Report Surplus Deficit	6615	5808	5092	6414	6420	3735	3115	3693	3987	5983	7411	6781	7669	4531	5363
2	1930 Regional Report Surplus Deficit	4167	3576	5221	5466	5750	3516	2686	4232	4046	6866	8785	6341	3346	6612	4908
3	1931 Regional Report Surplus Deficit	4339	3744	5210	5346	5913	3421	2110	1661	3473	7084	5102	7475	5072	5111	4590
4	1932 Regional Report Surplus Deficit	3782	3707	4597	4752	5300	4057	790	1448	7042	15380	14292	13010	13322	7199	6686
5	1933 Regional Report Surplus Deficit	6655	5233	5851	5876	6044	5341	8460	8841	8778	11318	9282	10703	14573	12402	8582
6	1934 Regional Report Surplus Deficit	7903	8542	5975	8007	11441	13392	14718	13994	12061	15755	13825	11505	9115	7132	10844
7	1935 Regional Report Surplus Deficit	3919	4110	4665	5681	5610	6119	7781	8568	8674	9263	8514	9990	8915	9480	7359
8	1936 Regional Report Surplus Deficit	6752	5105	4533	5332	5713	3257	2668	2934	4739	8548	12770	12625	11757	6711	6412
9	1937 Regional Report Surplus Deficit	4381	3737	4363	5228	5796	3505	2614	1946	3843	6782	5226	7395	6285	5751	4745
10	1938 Regional Report Surplus Deficit	4414	3551	5174	5702	5736	6766	6925	6739	9681	12703	15226	12391	11302	8403	8062
11	1939 Regional Report Surplus Deficit	5097	4857	5273	6015	5874	3861	4885	5320	6276	10351	10992	10908	6016	6027	6343
12	1940 Regional Report Surplus Deficit	3579	2896	4687	5872	6012	6119	4323	4071	10817	11097	9448	9052	6129	5400	6345
13	1941 Regional Report Surplus Deficit	3051	2780	4729	5704	5174	5373	2698	3892	4284	6763	6618	7452	5632	6289	5073
14	1942 Regional Report Surplus Deficit	3752	3883	5763	5817	6853	6608	6139	5840	6557	8207	10324	8574	9873	10012	7094
15	1943 Regional Report Surplus Deficit	5815	5293	6569	5937	5804	5843	8398	9444	9931	16737	16010	12207	13707	9146	9055
16	1944 Regional Report Surplus Deficit	6649	6126	5272	5410	5984	3786	3431	4066	4595	5653	8048	4964	3165	4915	4904
17	1945 Regional Report Surplus Deficit	3551	3395	4664	5260	5404	3010	2640	3473	4037	5877	2675	10390	11528	4966	5261
18	1946 Regional Report Surplus Deficit	5209	4286	5318	5527	5744	6690	7601	7468	8542	14143	15371	12540	12257	9989	8426
19	1947 Regional Report Surplus Deficit	7830	6545	5691	5617	6969	11047	10693	11475	11824	12449	11055	11588	12374	9867	9662
20	1948 Regional Report Surplus Deficit	6213	5129	5367	10326	9650	8042	11169	9185	7886	11965	13834	13389	14393	11374	9944
21	1949 Regional Report Surplus Deficit	8925	8845	6441	6382	6624	5490	6622	6067	11148	13822	14278	12984	12365	5795	8577
22	1950 Regional Report Surplus Deficit	4001	3487	4579	5707	6292	5845	10821	11498	12678	15614	13458	12077	13566	11227	9358
23	1951 Regional Report Surplus Deficit	8930	9145	6133	8111	10816	12005	13858	15167	13640	15767	14739	12162	11639	11419	11581
24	1952 Regional Report Surplus Deficit	8595	7589	6231	9698	8446	8406	9985	9319	10101	15219	15811	13555	12832	9160	10110
25	1953 Regional Report Surplus Deficit	6999	5774	4700	5282	5434	3618	7991	7277	7574	10228	9449	11986	14344	11043	7953
26	1954 Regional Report Surplus Deficit	6857	6342	5829	6080	7169	7705	10269	10683	10448	13124	11645	11900	12890	13280	9594
27	1955 Regional Report Surplus Deficit	9302	9910	10129	6568	8594	6454	5258	5300	4902	9523	8286	9431	13973	13118	8527
28	1956 Regional Report Surplus Deficit	8540	7287	5520	7199	9942	11404	13880	13172	12393	15346	16087	13010	14544	11844	11361
29	1957 Regional Report Surplus Deficit	8471	7697	5913	6772	6594	7873	7543	6301	9646	15781	11053	14097	14772	8876	9168
30	1958 Regional Report Surplus Deficit	5807	5170	5223	5844	6275	5167	8284	8566	8912	12759	12323	12881	12978	7796	8316
31	1959 Regional Report Surplus Deficit	5364	5051	5083	6127	7954	10026	12703	11979	10854	14020	11584	11231	13374	9901	9751
32	1960 Regional Report Surplus Deficit	8025	8817	10393	12198	11691	9475	9282	7697	8888	17474	13818	10943	11741	9138	10463
33	1961 Regional Report Surplus Deficit	6545	4945	4950	6027	6875	5891	8767	10088	10220	13200	9233	11685	13394	8520	8595
34	1962 Regional Report Surplus Deficit	5412	5175	4821	5529	6203	4931	7458	7639	5340	16162	15285	11690	12472	5867	7725
35	1963 Regional Report Surplus Deficit	5512	5178	4977	6457	8236	9255	9025	8920	8005	9580	9058	10116	10578	9133	8275
36	1964 Regional Report Surplus Deficit	5591	5619	5720	5624	6162	5750	6296	5684	5709	13834	9087	11388	14665	12689	8066
37	1965 Regional Report Surplus Deficit	8353	8546	7096	7499	7675	11577	15089	14667	12911	11626	15795	12755	12455	10136	11149
38	1966 Regional Report Surplus Deficit	8200	8149	5528	6599	7061	6302	7150	6556	5967	15826	10923	9299	9714	9319	7920
39	1967 Regional Report Surplus Deficit	5754	5355	5194	5481	5835	6741	11272	11484	11179	10762	6371	10743	13854	11226	8912
40	1968 Regional Report Surplus Deficit	7007	6568	5683	6507	7359	6579	10046	9497	10486	9085	7629	7775	12800	10058	8485
41	1969 Regional Report Surplus Deficit	7436	7288	8187	8212	9778	8538	12606	12940	10006	15430	14755	12844	12355	10038	10637
42	1970 Regional Report Surplus Deficit	7360	6288	5533	6046	6605	4802	8333	8027	7969	11050	7080	10636	13395	7688	7899
43	1971 Regional Report Surplus Deficit	5219	4860	5014	5475	6264	5401	13403	14981	13601	15213	14329	13273	14346	12953	10341
44	1972 Regional Report Surplus Deficit	9135	9040	6780	6865	7123	7162	12895	14503	16502	17397	13165	13360	14654	12819	11398
45	1973 Regional Report Surplus Deficit	9200	9370	7726	6795	6835	6926	7703	6038	4781	4664	7156	7644	6218	5839	6817
46	1974 Regional Report Surplus Deficit	3944	3348	5172	5594	5717	8966	16296	16231	14624	15470	14736	12456	13958	13408	10896
47	1975 Regional Report Surplus Deficit	9225	9359	6753	5707	6538	5891	7823	9113	9168	10232	9630	11641	13992	13502	9110
48	1976 Regional Report Surplus Deficit	8343	7764	6740	8428	10371	13485	12643	12583	12361	15982	14739	13200	12739	12281	11513
49	1977 Regional Report Surplus Deficit	9902	10714	10947	6631	6317	3658	3267	4330	4316	5697	6796	5022	1674	4676	5621
50	1978 Regional Report Surplus Deficit	3375	3405	4015	4506	5064	7888	7334	7735	8481	15231	11411	11755	9245	10136	7737
51	1979 Regional Report Surplus Deficit	5811	5373	8211	6632	6342	4879	5834	4266	8489	8977	9480	11713	7176	4912	6952
52	1980 Regional Report Surplus Deficit	3114	3358	4749	5667	5868	3711	5457	5814	4958	11261	12801	13775	12845	6770	7064
53	1981 Regional Report Surplus Deficit	4761	4153	5383	5855	6378	10417	10342	10211	8560	7228	9574	10484	13789	10374	8710
54	1982 Regional Report Surplus Deficit	7500	8172	6004	5956	7061	7686	9924	14540	14816	14423	12166	12686	13779	11697	10411

Regional Report Surplus Deficit By Water Year

Operating Year 2015

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW - Surplus Deficit	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
55	1983 Regional Report Surplus Deficit	8440	9036	8311	7894	7486	8553	11505	11465	13713	14057	11049	12114	12496	11881	10555
56	1984 Regional Report Surplus Deficit	8378	8798	6368	6500	10888	8308	10492	10494	10382	16040	13956	11868	14349	11330	10366
57	1985 Regional Report Surplus Deficit	7267	6827	6220	6624	7831	6166	6224	6313	7209	13096	12585	12294	9150	3583	7620
58	1986 Regional Report Surplus Deficit	2571	2359	4966	7297	9324	6085	8424	10107	15821	14955	13597	10494	12164	7515	9057
59	1987 Regional Report Surplus Deficit	5380	4556	5169	5575	6593	6407	5817	4131	8345	8549	8992	9956	7899	5272	6588
60	1988 Regional Report Surplus Deficit	2684	2252	4703	5175	5335	2907	3101	2094	4380	7353	9042	7527	5854	6920	4898
61	1989 Regional Report Surplus Deficit	3439	3399	4867	5171	5355	5488	3626	3680	6543	13119	14814	11255	8862	5285	6463
62	1990 Regional Report Surplus Deficit	4038	3496	4998	5416	7124	7274	9295	9099	9224	11601	14847	10863	12160	8619	8405
63	1991 Regional Report Surplus Deficit	7113	6416	5482	4956	10561	8431	10111	10686	10017	13428	10570	11509	11953	11626	9492
64	1992 Regional Report Surplus Deficit	7988	8309	5384	4984	6217	4204	4840	4166	7180	7042	7226	6720	4324	4443	5657
65	1993 Regional Report Surplus Deficit	2509	2386	4572	5271	5327	3930	2790	1759	5810	8530	9636	10757	9739	6975	5721
66	1994 Regional Report Surplus Deficit	5179	4508	5365	5215	6106	4074	2941	3483	4262	6538	8873	9259	7712	6162	5598
67	1995 Regional Report Surplus Deficit	3687	3068	4936	4979	4940	4961	4391	9736	10861	10365	8285	9380	12402	8516	7289
68	1996 Regional Report Surplus Deficit	5484	4980	6296	7673	12434	14933	15606	15691	15738	15034	16125	12377	13586	11922	12229
69	1997 Regional Report Surplus Deficit	8259	8413	5419	5939	7244	8436	15389	15961	16346	15593	16389	13334	14737	12962	11647
70	1998 Regional Report Surplus Deficit	8905	9283	8358	11222	9482	7675	7457	8430	7897	9870	10471	13017	13926	9293	9670
71	1999 Regional Report Surplus Deficit	6706	5170	5475	5649	5990	7797	12598	12911	13711	13584	13255	12267	14740	12727	10248
72	2000 Regional Report Surplus Deficit	9539	9632	7012	6312	10976	9542	8756	8701	8729	15213	15315	10156	9898	8829	9473
73	2001 Regional Report Surplus Deficit	6172	4309	4978	5675	5798	3473	2946	3631	4618	5867	7677	6173	1242	4799	4617
74	2002 Regional Report Surplus Deficit	2963	3011	4185	4173	4703	5104	4379	4469	5199	11468	13287	9106	12798	11141	6717
75	2003 Regional Report Surplus Deficit	7245	5917	5239	4722	5805	3595	3619	3661	8948	11136	9916	9087	11674	4851	6527
76	2004 Regional Report Surplus Deficit	3050	2367	4757	5847	5734	6394	3947	3311	7333	9675	8905	9151	9614	5183	6114
77	2005 Regional Report Surplus Deficit	3802	4212	5842	6142	6353	6778	6749	6700	5411	7026	8188	9869	9527	5871	6732
78	2006 Regional Report Surplus Deficit	4372	3463	4917	5318	5627	5711	9920	9440	9244	15713	14816	13093	12640	7473	8526
79	2007 Regional Report Surplus Deficit	4649	4325	4764	4538	7368	6377	8616	6381	12426	12990	10883	10586	9014	8548	7928
80	2008 Regional Report Surplus Deficit	4771	3133	4740	5560	5317	5055	4990	5207	5728	9680	6554	12409	14772	10136	7167

Ranked Averages

81	**Bottom 10 pct**	**4374**	**3740**	**4893**	**5408**	**5644**	**3624**	**2778**	**3124**	**4159**	**6531**	**6647**	**7215**	**5266**	**5670**	**4875**
82	**Middle 80 pct**	**6075**	**5697**	**5787**	**6197**	**6940**	**6470**	**7655**	**7748**	**8719**	**11922**	**11232**	**11027**	**11443**	**8713**	**8175**
83	**Top 10 pct**	**7623**	**7315**	**6144**	**7163**	**8915**	**10996**	**14457**	**14747**	**14314**	**15277**	**15222**	**12832**	**13539**	**12099**	**11472**

Regional Report Surplus Deficit By Water Year

Operating Year 2016

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW - Surplus Deficit	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
1	1929 Regional Report Surplus Deficit	6097	5911	4842	6379	6200	3624	2677	3421	4014	4103	5716	7386	8750	4453	5221
2	1930 Regional Report Surplus Deficit	3887	3862	4805	5432	5530	3405	2247	3960	4073	4986	7089	6947	4427	6534	4773
3	1931 Regional Report Surplus Deficit	3947	3648	4666	5312	5693	3310	1672	1389	3500	5204	3406	8080	6153	5033	4417
4	1932 Regional Report Surplus Deficit	4052	3148	4418	4718	5080	3946	351	1176	7069	13466	12564	13513	14304	7121	6524
5	1933 Regional Report Surplus Deficit	6335	4953	5213	5841	5824	5230	8021	8569	8805	9438	7586	11314	15604	12326	8401
6	1934 Regional Report Surplus Deficit	7814	8424	5598	7972	11220	13281	14279	13723	12083	13849	12104	12101	10191	7055	10709
7	1935 Regional Report Surplus Deficit	3503	3646	4357	5647	5389	6007	7342	8296	8701	7383	6818	10584	9994	9402	7199
8	1936 Regional Report Surplus Deficit	7013	5416	4631	5298	5493	3145	2229	2663	4765	6661	11068	13414	12874	6617	6351
9	1937 Regional Report Surplus Deficit	4330	3525	4503	5194	5576	3394	2175	1675	3870	4903	3531	8000	7366	5673	4637
10	1938 Regional Report Surplus Deficit	4748	3713	4758	5668	5516	6655	6486	6467	9708	10790	13498	13068	12307	8324	7942
11	1939 Regional Report Surplus Deficit	4924	4188	4965	5981	5653	3750	4446	5049	6303	8467	9293	11603	7096	5949	6186
12	1940 Regional Report Surplus Deficit	3406	3237	4781	5837	5791	6008	3884	3799	10839	9214	7750	9650	7210	5323	6253
13	1941 Regional Report Surplus Deficit	3279	2876	4462	5669	4953	5262	2259	3621	4311	4883	4923	8063	6714	6211	4962
14	1942 Regional Report Surplus Deficit	3602	3158	3886	5782	6633	6497	5700	5569	6584	6323	8624	9167	10925	9935	6796
15	1943 Regional Report Surplus Deficit	5748	4866	5811	5903	5584	5732	7959	9173	9956	14640	14097	13018	14884	9070	8880
16	1944 Regional Report Surplus Deficit	6310	6068	5531	5375	5764	3675	2992	3794	4622	3772	6352	5570	4246	4838	4806
17	1945 Regional Report Surplus Deficit	3160	2975	3883	5225	5184	2899	2201	3202	4064	3997	980	11057	12620	5020	5075
18	1946 Regional Report Surplus Deficit	4901	4319	5171	5493	5524	6579	7162	7196	8567	12189	13604	13091	13220	9911	8280
19	1947 Regional Report Surplus Deficit	7472	6450	5307	5583	6749	10936	10254	11204	11837	10566	9357	12234	13487	9791	9521
20	1948 Regional Report Surplus Deficit	6639	4935	5144	10291	9429	7931	10730	8913	7913	10045	12100	14206	15492	11282	9848
21	1949 Regional Report Surplus Deficit	8340	9035	6818	6348	6403	5378	6183	5795	11168	11885	12524	13638	13378	5717	8478
22	1950 Regional Report Surplus Deficit	3987	3436	4620	5673	6072	5734	10382	11227	12667	13720	11748	12798	14654	11152	9271
23	1951 Regional Report Surplus Deficit	9022	8720	5894	8076	10595	11894	13419	14895	13627	13839	12994	12788	12684	11343	11448
24	1952 Regional Report Surplus Deficit	8080	7997	5977	9663	8226	8294	9546	9047	10125	13242	14019	14179	13810	9082	9968
25	1953 Regional Report Surplus Deficit	6316	4821	4857	5248	5214	3506	7553	7005	7601	8347	7754	12602	15234	10967	7780
26	1954 Regional Report Surplus Deficit	5907	5713	5582	6046	6949	7594	9830	10411	10475	11239	9944	12555	13893	13248	9411
27	1955 Regional Report Surplus Deficit	9259	9793	9804	6534	8374	6343	4819	5028	4928	7644	6590	10035	14907	13029	8371
28	1956 Regional Report Surplus Deficit	8325	7287	5259	7165	9721	11292	13441	12900	12388	13389	14313	13666	15496	11774	11221
29	1957 Regional Report Surplus Deficit	8268	7704	5683	6738	6374	7762	7104	6030	9673	13885	9342	14702	15729	8798	9022
30	1958 Regional Report Surplus Deficit	6166	4634	4873	5809	6054	5056	7845	8294	8939	10865	10614	13688	14045	7718	8194
31	1959 Regional Report Surplus Deficit	4411	4870	4857	6093	7733	9915	12264	11707	10878	12119	9867	11787	14274	9823	9570
32	1960 Regional Report Surplus Deficit	7983	8700	10067	12163	11471	9364	8843	7425	8915	15536	12065	11526	12791	9060	10312
33	1961 Regional Report Surplus Deficit	6198	5204	4746	5993	6655	5780	8328	9816	10247	11320	7538	12330	14425	8442	8478
34	1962 Regional Report Surplus Deficit	6036	4808	4897	5495	5983	4820	7020	7367	5366	14105	13413	12277	13496	5789	7620
35	1963 Regional Report Surplus Deficit	5616	4746	5022	6423	8016	9143	8586	8648	8032	7701	7363	10691	11629	9051	8160
36	1964 Regional Report Surplus Deficit	5906	5200	5441	5589	5941	5639	5857	5412	5736	11953	7388	11977	15755	12634	7933
37	1965 Regional Report Surplus Deficit	8311	8432	6725	7465	7455	11465	14650	14395	12924	9722	14076	13406	13492	10059	11019
38	1966 Regional Report Surplus Deficit	8158	8013	5264	6564	6841	6190	6711	6285	5993	13940	9220	9918	10798	9242	7788
39	1967 Regional Report Surplus Deficit	6431	5168	5355	5447	5615	6630	10833	11213	11199	8882	4675	11356	14780	11140	8838
40	1968 Regional Report Surplus Deficit	7376	6426	5437	6473	7139	6468	9607	9225	10509	7205	5933	8374	13821	10033	8375
41	1969 Regional Report Surplus Deficit	7482	7145	7840	8178	9558	8427	12167	12669	10033	13415	12925	13541	13364	9959	10501
42	1970 Regional Report Surplus Deficit	6910	6186	5249	6012	6384	4691	7894	7755	7994	9170	5384	11238	14423	7610	7749
43	1971 Regional Report Surplus Deficit	4533	4112	5082	5440	6044	5290	12964	14709	13553	13238	12538	13906	15372	12892	10183
44	1972 Regional Report Surplus Deficit	9093	8923	6544	6831	6903	7051	12456	14232	16574	15543	11495	14139	15779	12748	11305
45	1973 Regional Report Surplus Deficit	9158	9252	7499	6761	6614	6815	7264	5767	4808	2784	5461	8247	7300	5761	6689
46	1974 Regional Report Surplus Deficit	3928	3098	4828	5559	5496	8855	15857	15959	14484	13694	13144	13211	15099	13376	10786
47	1975 Regional Report Surplus Deficit	8961	9244	6954	5672	6318	5780	7384	8841	9192	8348	7931	12367	14930	13435	9010
48	1976 Regional Report Surplus Deficit	8469	7904	6365	8393	10150	13374	12205	12311	12374	14061	13001	13880	13775	12195	11394
49	1977 Regional Report Surplus Deficit	9860	10597	10623	6596	6096	3547	2828	4059	4343	3818	5101	5628	2756	4598	5484
50	1978 Regional Report Surplus Deficit	3370	2826	3282	4471	4843	7777	6895	7463	8507	13316	9681	12398	10319	10057	7551
51	1979 Regional Report Surplus Deficit	5752	5108	6916	6598	6122	4768	5395	3995	8516	7097	7784	12343	8257	4834	6726
52	1980 Regional Report Surplus Deficit	3136	3333	4677	5633	5648	3600	5018	5542	4985	9385	11110	14465	13901	6725	6963
53	1981 Regional Report Surplus Deficit	4472	3726	5144	5820	6158	10306	9903	9939	8584	5346	7877	11068	14747	10295	8552
54	1982 Regional Report Surplus Deficit	7458	8054	6082	5922	6840	7575	9485	14268	14790	12483	10410	13198	14743	11616	10294

Regional Report Surplus Deficit By Water Year

Operating Year 2016

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW - Surplus Deficit	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
55	1983 Regional Report Surplus Deficit	8401	8922	7963	7859	7266	8442	11066	11193	13701	12195	9371	12801	13506	11816	10423
56	1984 Regional Report Surplus Deficit	8342	9080	5991	6465	10667	8197	10053	10222	10406	14092	12192	12402	15204	11247	10215
57	1985 Regional Report Surplus Deficit	8405	7050	6054	6590	7610	6055	5785	6042	7236	11209	10883	13022	10229	3505	7569
58	1986 Regional Report Surplus Deficit	2451	2642	4598	7262	9104	5974	7985	9835	16039	13091	11917	11110	13244	7437	8955
59	1987 Regional Report Surplus Deficit	5313	4270	4999	5540	6372	6296	5378	3859	8372	6669	7296	10555	8980	5194	6451
60	1988 Regional Report Surplus Deficit	2921	2688	4634	5141	5114	2796	2662	1822	4407	5473	7347	8132	6935	6843	4814
61	1989 Regional Report Surplus Deficit	4128	3544	4438	5137	5134	5377	3187	3408	6570	11205	13084	11840	9941	5207	6350
62	1990 Regional Report Surplus Deficit	3835	3827	4890	5382	6904	7163	8856	8827	9251	9711	13141	11470	13225	8542	8302
63	1991 Regional Report Surplus Deficit	6685	6050	5528	4921	10341	8320	9672	10415	10044	11546	8872	12103	13018	11548	9363
64	1992 Regional Report Surplus Deficit	7946	8191	5400	4949	5996	4093	4401	3894	7207	5162	5531	7325	5406	4366	5547
65	1993 Regional Report Surplus Deficit	2656	2526	3936	5236	5107	3818	2351	1488	5836	6652	7942	11393	10823	6897	5573
66	1994 Regional Report Surplus Deficit	5375	4749	4853	5181	5886	3963	2502	3211	4289	4658	7177	9864	8793	6084	5469
67	1995 Regional Report Surplus Deficit	3665	3042	4711	4944	4719	4850	3952	9464	10880	8483	6587	9978	13461	8439	7172
68	1996 Regional Report Surplus Deficit	5223	4681	5235	7638	12214	14822	15167	15419	15590	13099	14375	13009	14587	11855	12005
69	1997 Regional Report Surplus Deficit	8028	8414	5408	5904	7024	8325	14950	15690	16274	13743	14722	13997	15666	12902	11537
70	1998 Regional Report Surplus Deficit	8850	9288	8068	11188	9262	7563	7018	8159	7924	7982	8767	13851	14958	9218	9556
71	1999 Regional Report Surplus Deficit	7288	6229	5240	5615	5770	7686	12159	12640	13694	11682	11539	12848	15573	12615	10175
72	2000 Regional Report Surplus Deficit	9298	9456	6759	6278	10756	9431	8317	8429	8756	13313	13598	10722	10964	8751	9326
73	2001 Regional Report Surplus Deficit	6130	3954	4718	5640	5578	3362	2507	3359	4645	3987	5982	6779	2324	4721	4476
74	2002 Regional Report Surplus Deficit	2893	2641	2882	4138	4483	4993	3940	4198	5226	9584	11586	9705	13792	11064	6477
75	2003 Regional Report Surplus Deficit	6738	5089	5206	4687	5585	3484	3180	3389	8975	9256	8220	9674	12737	4773	6357
76	2004 Regional Report Surplus Deficit	2577	2495	4333	5812	5514	6282	3508	3039	7359	7795	7209	9753	10695	5106	5957
77	2005 Regional Report Surplus Deficit	3405	3850	6444	6108	6132	6666	6310	6429	5438	5146	6492	10465	10592	5793	6647
78	2006 Regional Report Surplus Deficit	4584	3607	4990	5283	5407	5599	9481	9168	9262	13743	13030	13500	13452	7395	8403
79	2007 Regional Report Surplus Deficit	5566	3226	4867	4503	7148	6266	8177	6109	12441	11108	9185	11158	10092	8471	7817
80	2008 Regional Report Surplus Deficit	4482	3365	4162	5526	5097	4944	4551	4936	5755	7800	4858	13074	15799	10060	7014
	Ranked Averages															
81	**Bottom 10 pct**	**4246**	**3700**	**4650**	**5374**	**5424**	**3513**	**2339**	**2853**	**4186**	**4651**	**4951**	**7828**	**6348**	**5609**	**4745**
82	**Middle 80 pct**	**6010**	**5552**	**5529**	**6162**	**6719**	**6359**	**7217**	**7477**	**8743**	**10019**	**9513**	**11653**	**12474**	**8637**	**8039**
83	**Top 10 pct**	**7550**	**7182**	**5782**	**7129**	**8695**	**10885**	**14018**	**14475**	**14279**	**13386**	**13515**	**13512**	**14572**	**12032**	**11339**

Regional Report Surplus Deficit By Water Year

Operating Year 2017

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW - Surplus Deficit	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
1	1929 Regional Report Surplus Deficit	5867	5500	4804	6505	6144	3681	2603	3251	3682	4950	6239	6762	7559	4247	5047
2	1930 Regional Report Surplus Deficit	3657	3452	4767	5557	5474	3462	2174	3790	3741	5833	7612	6322	3236	6329	4596
3	1931 Regional Report Surplus Deficit	3718	3237	4628	5438	5637	3366	1598	1219	3168	6050	3930	7457	4962	4827	4246
4	1932 Regional Report Surplus Deficit	3822	2737	4380	4844	5024	4003	278	1006	6737	14284	13057	12958	13152	6915	6367
5	1933 Regional Report Surplus Deficit	6106	4542	5175	5967	5768	5287	7947	8399	8473	10281	8107	10666	14353	12114	8214
6	1934 Regional Report Surplus Deficit	7559	7989	5560	8098	11164	13338	14205	13553	11750	14696	12626	11495	9008	6849	10521
7	1935 Regional Report Surplus Deficit	3273	3235	4318	5772	5333	6064	7268	8126	8370	8230	7341	9941	8798	9197	7015
8	1936 Regional Report Surplus Deficit	6759	5005	4592	5423	5437	3202	2155	2493	4434	7508	11591	12839	11696	6412	6186
9	1937 Regional Report Surplus Deficit	4100	3114	4465	5320	5520	3451	2101	1505	3538	5749	4054	7369	6174	5468	4466
10	1938 Regional Report Surplus Deficit	4518	3302	4720	5794	5460	6712	6412	6297	9372	11604	13989	12321	11129	8120	7755
11	1939 Regional Report Surplus Deficit	4694	3777	4926	6106	5597	3807	4372	4879	5972	9311	9813	10921	5906	5744	6005
12	1940 Regional Report Surplus Deficit	3176	2826	4743	5963	5735	6065	3811	3629	10503	10059	8271	9028	6018	5117	6080
13	1941 Regional Report Surplus Deficit	3049	2465	4424	5795	4897	5319	2185	3451	3980	5729	5446	7441	5523	6006	4787
14	1942 Regional Report Surplus Deficit	3372	2748	3848	5908	6577	6553	5626	5399	6252	7168	9147	8527	9744	9727	6619
15	1943 Regional Report Surplus Deficit	5518	4455	5772	6028	5528	5789	7885	9003	9621	15421	14555	12255	13657	8865	8680
16	1944 Regional Report Surplus Deficit	6081	5657	5493	5501	5708	3732	2919	3624	4291	4619	6876	4946	3055	4632	4630
17	1945 Regional Report Surplus Deficit	2930	2565	3845	5351	5128	2956	2127	3032	3732	4843	1502	10417	11448	4791	4899
18	1946 Regional Report Surplus Deficit	4671	3908	5133	5619	5468	6636	7088	7026	8236	13080	14170	12566	12144	9706	8125
19	1947 Regional Report Surplus Deficit	7217	6039	5268	5708	6693	10993	10181	11034	11483	11402	9869	11544	12247	9583	9324
20	1948 Regional Report Surplus Deficit	6409	4524	5106	10417	9373	7988	10657	8743	7581	10891	12621	13596	14430	11085	9683
21	1949 Regional Report Surplus Deficit	8085	8599	6780	6473	6347	5435	6109	5625	10827	12734	13050	13004	12251	5512	8308
22	1950 Regional Report Surplus Deficit	3757	3026	4582	5798	6016	5791	10308	11057	12324	14539	12244	12072	13517	10946	9079
23	1951 Regional Report Surplus Deficit	8768	8310	5856	8202	10539	11951	13345	14725	13280	14683	13515	12183	11542	11138	11263
24	1952 Regional Report Surplus Deficit	7825	7585	5938	9789	8170	8351	9473	8877	9790	14074	14527	13596	12660	8876	9796
25	1953 Regional Report Surplus Deficit	6086	4410	4819	5374	5158	3563	7479	6835	7269	9191	8273	11986	14452	10758	7636
26	1954 Regional Report Surplus Deficit	5677	5302	5544	6172	6893	7651	9756	10241	10142	12078	10459	11914	12800	13053	9236
27	1955 Regional Report Surplus Deficit	9005	9358	9765	6659	8318	6400	4745	4858	4597	8489	7113	9407	13842	12815	8209
28	1956 Regional Report Surplus Deficit	8071	6876	5221	7291	9665	11349	13368	12730	12028	14290	14892	13067	14481	11564	11054
29	1957 Regional Report Surplus Deficit	8013	7293	5645	6863	6318	7819	7031	5860	9335	14707	9841	14125	14681	8593	8863
30	1958 Regional Report Surplus Deficit	5936	4223	4834	5935	5998	5113	7771	8124	8604	11696	11122	13059	12950	7513	8021
31	1959 Regional Report Surplus Deficit	4181	4459	4819	6219	7677	9972	12191	11537	10543	12952	10376	11159	13159	9619	9390
32	1960 Regional Report Surplus Deficit	7728	8264	10029	12289	11415	9420	8769	7256	8583	16338	12544	10902	11604	8853	10135
33	1961 Regional Report Surplus Deficit	5968	4793	4707	6118	6599	5837	8255	9647	9916	12165	8060	11649	13283	8236	8295
34	1962 Regional Report Surplus Deficit	5806	4397	4858	5620	5927	4877	6946	7197	5035	15108	14091	11663	12359	5584	7460
35	1963 Regional Report Surplus Deficit	5386	4335	4984	6548	7960	9200	8512	8478	7700	8545	7884	10030	10447	8871	7979
36	1964 Regional Report Surplus Deficit	5677	4789	5403	5715	5885	5696	5783	5242	5405	12791	7904	11336	14543	12406	7755
37	1965 Regional Report Surplus Deficit	8056	7997	6687	7590	7399	11522	14576	14225	12581	10561	14590	12748	12322	9853	10826
38	1966 Regional Report Surplus Deficit	7903	7602	5226	6690	6785	6247	6637	6115	5662	14767	9725	9293	9610	9037	7611
39	1967 Regional Report Surplus Deficit	6177	4757	5317	5572	5559	6687	10759	11043	10856	9726	5195	10655	13688	10942	8652
40	1968 Regional Report Surplus Deficit	7121	6015	5399	6599	7083	6525	9533	9055	10174	8050	6456	7754	12685	9772	8192
41	1969 Regional Report Surplus Deficit	7228	6734	7801	8304	9502	8484	12093	12499	9700	14329	13515	13217	12297	9756	10356
42	1970 Regional Report Surplus Deficit	6656	5775	5211	6137	6328	4748	7820	7585	7659	10015	5905	10599	13330	7569	7589
43	1971 Regional Report Surplus Deficit	4303	3702	5044	5566	5988	5347	12890	14539	13181	14058	13034	13386	14298	12696	10005
44	1972 Regional Report Surplus Deficit	8838	8487	6506	6957	6847	7108	12382	14062	16122	16321	11951	13361	14811	12548	11105
45	1973 Regional Report Surplus Deficit	8904	8817	7460	6887	6558	6871	7190	5597	4476	3631	5984	7625	6109	5556	6510
46	1974 Regional Report Surplus Deficit	3698	2687	4789	5685	5440	8912	15783	15789	14226	14519	13645	12616	14039	13168	10610
47	1975 Regional Report Surplus Deficit	8707	8809	6916	5798	6261	5837	7311	8671	8862	9189	8448	11711	13962	13218	8843
48	1976 Regional Report Surplus Deficit	8215	7494	6327	8519	10094	13431	12131	12141	12032	14914	13532	13277	12634	11996	11217
49	1977 Regional Report Surplus Deficit	9606	10161	10584	6722	6040	3604	2755	3889	4011	4664	5624	5004	1565	4393	5306
50	1978 Regional Report Surplus Deficit	3140	2416	3244	4597	4787	7834	6822	7293	8176	14144	10186	11789	9132	9853	7372
51	1979 Regional Report Surplus Deficit	5522	4697	6878	6724	6066	4825	5321	3825	8184	7943	8308	11662	7063	4629	6550
52	1980 Regional Report Surplus Deficit	2906	2922	4639	5759	5592	3657	4944	5372	4653	10218	11619	13822	12745	6475	6784
53	1981 Regional Report Surplus Deficit	4242	3316	5106	5946	6102	10363	9829	9769	8255	6194	8401	10435	13667	10088	8377
54	1982 Regional Report Surplus Deficit	7203	7619	6044	6047	6784	7632	9411	14098	14430	13337	10942	12693	13654	11412	10119

Regional Report Surplus Deficit By Water Year

Operating Year 2017

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW - Surplus Deficit	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
55	1983 Regional Report Surplus Deficit	8147	8486	7925	7985	7210	8499	10993	11023	13222	12999	9852	12145	12298	11606	10219
56	1984 Regional Report Surplus Deficit	8087	8645	5953	6591	10611	8254	9979	10052	10073	14976	12753	11802	14180	11039	10053
57	1985 Regional Report Surplus Deficit	8151	6639	6016	6715	7554	6112	5711	5872	6905	12058	11408	12344	9033	3300	7388
58	1986 Regional Report Surplus Deficit	2221	2231	4560	7388	9048	6031	7911	9666	15406	13897	12401	10465	12059	7066	8729
59	1987 Regional Report Surplus Deficit	5083	3859	4961	5666	6316	6353	5304	3689	8041	7516	7819	9925	7789	4989	6279
60	1988 Regional Report Surplus Deficit	2691	2278	4596	5266	5058	2853	2588	1652	4075	6320	7870	7509	5744	6637	4643
61	1989 Regional Report Surplus Deficit	3898	3133	4400	5262	5078	5434	3114	3238	6239	12063	13618	11219	8750	5002	6180
62	1990 Regional Report Surplus Deficit	3606	3416	4851	5507	6848	7220	8782	8657	8919	10553	13661	10842	12056	8337	8123
63	1991 Regional Report Surplus Deficit	6430	5639	5490	5047	10285	8377	9598	10245	9712	12380	9383	11460	11835	11343	9178
64	1992 Regional Report Surplus Deficit	7691	7756	5362	5075	5940	4150	4327	3725	6876	6008	6053	6703	4215	4160	5370
65	1993 Regional Report Surplus Deficit	2426	2116	3898	5362	5051	3875	2277	1318	5505	7496	8463	10723	9629	6692	5401
66	1994 Regional Report Surplus Deficit	5145	4338	4815	5307	5830	4020	2428	3041	3958	5505	7700	9241	7602	5879	5296
67	1995 Regional Report Surplus Deficit	3435	2631	4673	5070	4663	4907	3878	9295	10532	9327	7107	9355	12304	8233	6988
68	1996 Regional Report Surplus Deficit	4994	4270	5197	7764	12158	14879	15094	15249	15198	13847	14800	12433	13465	11635	11812
69	1997 Regional Report Surplus Deficit	7774	7979	5370	6030	6968	8382	14876	15520	15869	14588	15244	13389	14630	12696	11352
70	1998 Regional Report Surplus Deficit	8595	8853	8029	11313	9206	7620	6944	7989	7591	8826	9287	13038	13745	9008	9360
71	1999 Regional Report Surplus Deficit	7034	5818	5201	5741	5714	7743	12085	12470	13339	12519	12052	12238	14659	12442	10012
72	2000 Regional Report Surplus Deficit	9043	9021	6721	6403	10700	9488	8243	8260	8424	14154	14117	10118	9774	8545	9148
73	2001 Regional Report Surplus Deficit	5876	3543	4680	5766	5522	3419	2433	3189	4313	4834	6505	6154	1133	4515	4298
74	2002 Regional Report Surplus Deficit	2663	2230	2844	4264	4427	5050	3866	4028	4895	10423	12102	9083	12649	10860	6308
75	2003 Regional Report Surplus Deficit	6508	4678	5168	4813	5529	3541	3107	3219	8641	10101	8741	9041	11545	4568	6185
76	2004 Regional Report Surplus Deficit	2347	2084	4294	5938	5458	6339	3435	2869	7028	8639	7730	9128	9501	4904	5786
77	2005 Regional Report Surplus Deficit	3175	3439	6406	6233	6076	6723	6236	6259	5107	5992	7015	9860	9421	5588	6472
78	2006 Regional Report Surplus Deficit	4355	3196	4952	5409	5351	5656	9407	8998	8928	14642	13607	13151	12480	7024	8253
79	2007 Regional Report Surplus Deficit	5336	2816	4829	4629	7092	6323	8103	5939	12098	11951	9706	10495	8903	8264	7639
80	2008 Regional Report Surplus Deficit	4252	2954	4124	5651	5041	5001	4478	4766	5423	8644	5380	12407	14678	9852	6842

Ranked Averages

81	**Bottom 10 pct**	**4013**	**3289**	**4612**	**5499**	**5368**	**3570**	**2266**	**2683**	**3855**	**5497**	**5474**	**7202**	**5159**	**5401**	**4571**
82	**Middle 80 pct**	**5771**	**5137**	**5491**	**6288**	**6663**	**6416**	**7143**	**7307**	**8401**	**10863**	**10034**	**11027**	**11333**	**8428**	**7863**
83	**Top 10 pct**	**7302**	**6762**	**5744**	**7255**	**8639**	**10942**	**13944**	**14305**	**13917**	**14215**	**14021**	**12884**	**13491**	**11825**	**11155**

Regional Report Surplus Deficit By Water Year

Operating Year 2018

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW - Surplus Deficit	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
1	1929 Regional Report Surplus Deficit	5872	5504	4503	6249	5916	3380	2313	2971	3802	5776	6803	7022	8309	4156	5054
2	1930 Regional Report Surplus Deficit	3662	3456	4466	5302	5246	3162	1884	3510	3861	6659	8176	6583	3987	6238	4603
3	1931 Regional Report Surplus Deficit	3722	3242	4327	5182	5409	3066	1308	939	3288	6876	4493	7716	5713	4736	4253
4	1932 Regional Report Surplus Deficit	3827	2741	4079	4588	4796	3702	-12.4	726	6857	15122	13634	13297	13846	6824	6377
5	1933 Regional Report Surplus Deficit	6110	4546	4875	5711	5540	4986	7657	8119	8592	11110	8672	10927	14995	12023	8212
6	1934 Regional Report Surplus Deficit	7564	7993	5259	7842	10937	13037	13915	13273	11866	15513	13182	11698	9750	6758	10521
7	1935 Regional Report Surplus Deficit	3278	3240	4018	5517	5106	5764	6978	7846	8489	9055	7905	10219	9555	9105	7023
8	1936 Regional Report Surplus Deficit	6764	5009	4292	5168	5209	2902	1865	2212	4554	8332	12153	12997	12335	6318	6175
9	1937 Regional Report Surplus Deficit	4105	3119	4164	5064	5292	3150	1811	1224	3658	6575	4617	7634	6926	5376	4473
10	1938 Regional Report Surplus Deficit	4523	3307	4419	5538	5232	6411	6122	6017	9495	12423	14545	12562	11869	8025	7759
11	1939 Regional Report Surplus Deficit	4699	3782	4626	5851	5370	3506	4082	4598	6091	10132	10372	11178	6657	5653	6011
12	1940 Regional Report Surplus Deficit	3181	2830	4442	5707	5508	5764	3521	3349	10626	10885	8835	9278	6768	5026	6086
13	1941 Regional Report Surplus Deficit	3054	2469	4123	5539	4670	5018	1895	3170	4099	6556	6010	7704	6272	5914	4794
14	1942 Regional Report Surplus Deficit	3377	2752	3547	5652	6349	6253	5336	5118	6372	7985	9700	8793	10477	9638	6624
15	1943 Regional Report Surplus Deficit	5523	4460	5472	5773	5300	5488	7595	8722	9740	16273	15144	12466	14130	8771	8661
16	1944 Regional Report Surplus Deficit	6085	5662	5192	5245	5480	3431	2629	3344	4410	5446	7439	5207	3806	4541	4637
17	1945 Regional Report Surplus Deficit	2935	2569	3544	5095	4900	2655	1837	2751	3852	5670	2067	10686	12164	4727	4907
18	1946 Regional Report Surplus Deficit	4676	3913	4832	5363	5240	6335	6798	6746	8356	13795	14624	12732	12799	9614	8107
19	1947 Regional Report Surplus Deficit	7222	6044	4968	5452	6465	10692	9890	10753	11615	12223	10428	11790	12932	9491	9325
20	1948 Regional Report Surplus Deficit	6414	4529	4805	10161	9146	7687	10367	8463	7701	11712	13180	13677	14924	10986	9653
21	1949 Regional Report Surplus Deficit	8090	8604	6479	6217	6120	5135	5819	5345	10947	13504	13557	13154	12883	5421	8291
22	1950 Regional Report Surplus Deficit	3762	3030	4281	5542	5788	5490	10018	10776	12433	15343	12785	12370	14119	10848	9073
23	1951 Regional Report Surplus Deficit	8773	8314	5555	7946	10311	11651	13055	14445	13370	15508	14077	12410	12205	11037	11256
24	1952 Regional Report Surplus Deficit	7830	7589	5638	9533	7942	8051	9183	8597	9908	14896	15087	13956	13408	8784	9810
25	1953 Regional Report Surplus Deficit	6091	4415	4518	5118	4930	3263	7189	6555	7389	10017	8837	12155	14793	10670	7602
26	1954 Regional Report Surplus Deficit	5682	5306	5243	5916	6665	7350	9466	9961	10250	12885	11004	12127	13482	12927	9227
27	1955 Regional Report Surplus Deficit	9010	9362	9465	6404	8090	6099	4455	4578	4717	9316	7677	9667	14469	12745	8207
28	1956 Regional Report Surplus Deficit	8075	6880	4921	7035	9437	11049	13078	12450	12161	15047	15386	13259	14909	11468	11024
29	1957 Regional Report Surplus Deficit	8018	7297	5344	6608	6090	7518	6740	5579	9454	15539	10410	14372	15167	8502	8848
30	1958 Regional Report Surplus Deficit	5941	4227	4534	5679	5771	4812	7481	7844	8725	12508	11672	13365	13522	7421	8016
31	1959 Regional Report Surplus Deficit	4186	4464	4518	5963	7450	9671	11901	11257	10660	13795	10957	11449	13886	9526	9398
32	1960 Regional Report Surplus Deficit	7733	8269	9728	12033	11187	9120	8479	6975	8703	17207	13150	11129	12313	8763	10140
33	1961 Regional Report Surplus Deficit	5973	4798	4407	5863	6371	5537	7965	9366	10034	12989	8620	11857	13839	8140	8280
34	1962 Regional Report Surplus Deficit	5811	4402	4558	5364	5699	4576	6656	6917	5155	15787	14509	11910	13058	5492	7449
35	1963 Regional Report Surplus Deficit	5391	4339	4684	6293	7732	8900	8222	8198	7820	9370	8447	10331	11198	8754	7987
36	1964 Regional Report Surplus Deficit	5681	4794	5102	5459	5658	5395	5493	4962	5524	13607	8457	11582	15079	12325	7743
37	1965 Regional Report Surplus Deficit	8061	8001	6386	7334	7171	11222	14286	13945	12698	11374	15141	12955	12956	9762	10817
38	1966 Regional Report Surplus Deficit	7908	7607	4926	6434	6557	5947	6347	5834	5782	15563	10258	9543	10346	8945	7613
39	1967 Regional Report Surplus Deficit	6182	4761	5016	5317	5331	6386	10469	10762	10977	10549	5757	11041	14321	10848	8660
40	1968 Regional Report Surplus Deficit	7126	6019	5099	6343	6855	6225	9243	8775	10293	8876	7019	8008	13226	9683	8181
41	1969 Regional Report Surplus Deficit	7232	6739	7501	8048	9274	8184	11803	12219	9815	15150	14074	13313	12970	9661	10341
42	1970 Regional Report Surplus Deficit	6661	5779	4910	5882	6101	4447	7530	7305	7779	10839	6468	10849	13961	7313	7571
43	1971 Regional Report Surplus Deficit	4308	3706	4743	5310	5760	5046	12600	14259	13274	14778	13492	13477	14692	12583	9956
44	1972 Regional Report Surplus Deficit	8843	8492	6205	6701	6619	6807	12092	13781	16279	17109	12476	13684	15297	12460	11096
45	1973 Regional Report Surplus Deficit	8908	8821	7160	6631	6330	6571	6900	5316	4596	4457	6547	7877	6859	5465	6516
46	1974 Regional Report Surplus Deficit	3703	2692	4489	5429	5213	8611	15493	15509	14161	15241	14106	12818	14495	13019	10559
47	1975 Regional Report Surplus Deficit	8712	8813	6615	5542	6034	5536	7021	8391	8979	10016	9013	11940	14436	13116	8824
48	1976 Regional Report Surplus Deficit	8220	7498	6026	8263	9867	13130	11841	11861	12155	15738	14093	13522	13301	11906	11216
49	1977 Regional Report Surplus Deficit	9611	10166	10284	6466	5813	3303	2465	3608	4131	5490	6188	5265	2316	4302	5313
50	1978 Regional Report Surplus Deficit	3145	2420	2944	4341	4560	7533	6532	7013	8294	15005	10784	12109	9882	9758	7386
51	1979 Regional Report Surplus Deficit	5527	4702	6577	6468	5838	4524	5031	3545	8304	8769	8870	11918	7814	4538	6556
52	1980 Regional Report Surplus Deficit	2911	2926	4338	5503	5364	3357	4654	5092	4773	11021	12160	13958	13419	6320	6767
53	1981 Regional Report Surplus Deficit	4247	3320	4805	5690	5874	10062	9539	9489	8375	7019	8964	10713	14245	9994	8371
54	1982 Regional Report Surplus Deficit	7208	7623	5743	5791	6557	7331	9121	13818	14473	14107	11449	12844	14228	11313	10090

Regional Report Surplus Deficit By Water Year

Operating Year 2018

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW - Surplus Deficit	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
55	1983 Regional Report Surplus Deficit	8152	8491	7625	7729	6982	8198	10702	10743	13487	13837	10427	12491	13028	11510	10245
56	1984 Regional Report Surplus Deficit	8092	8649	5652	6335	10384	7953	9689	9772	10187	15724	13238	12015	14624	10939	10023
57	1985 Regional Report Surplus Deficit	8156	6644	5715	6460	7327	5811	5421	5591	7024	12874	11962	12564	9787	3209	7391
58	1986 Regional Report Surplus Deficit	2226	2236	4260	7132	8820	5730	7621	9385	15591	14686	12926	10708	12742	6974	8732
59	1987 Regional Report Surplus Deficit	5088	3864	4660	5410	6089	6052	5014	3409	8160	8342	8383	10192	8540	4898	6286
60	1988 Regional Report Surplus Deficit	2696	2282	4295	5010	4831	2552	2298	1372	4195	7146	8434	7770	6495	6546	4650
61	1989 Regional Report Surplus Deficit	3903	3137	4099	5006	4851	5133	2824	2958	6358	12851	14145	11473	9501	4910	6183
62	1990 Regional Report Surplus Deficit	3610	3421	4551	5252	6620	6919	8492	8377	9038	11371	14215	11069	12750	8245	8121
63	1991 Regional Report Surplus Deficit	6435	5644	5189	4791	10057	8076	9308	9964	9831	13205	9945	11688	12567	11248	9180
64	1992 Regional Report Surplus Deficit	7696	7760	5061	4819	5713	3850	4037	3444	6995	6835	6617	6961	4966	4069	5377
65	1993 Regional Report Surplus Deficit	2431	2120	3597	5106	4823	3575	1987	1038	5625	8322	9027	10979	10378	6601	5407
66	1994 Regional Report Surplus Deficit	5150	4343	4514	5051	5602	3719	2138	2761	4077	6331	8264	9500	8353	5788	5303
67	1995 Regional Report Surplus Deficit	3440	2635	4372	4814	4436	4606	3588	9014	10664	10149	7667	9623	13057	7983	6983
68	1996 Regional Report Surplus Deficit	4998	4274	4897	7508	11930	14578	14804	14969	15375	14685	15375	12700	14055	11541	11812
69	1997 Regional Report Surplus Deficit	7779	7983	5069	5774	6740	8081	14586	15240	16036	15349	15742	13617	15168	12591	11336
70	1998 Regional Report Surplus Deficit	8600	8857	7729	11057	8978	7320	6654	7709	7711	9650	9849	13385	14451	8919	9370
71	1999 Regional Report Surplus Deficit	7039	5823	4901	5485	5486	7442	11795	12189	13423	13319	12590	12444	15066	12324	9979
72	2000 Regional Report Surplus Deficit	9048	9025	6421	6148	10472	9188	7953	7979	8543	14955	14655	10352	10518	8454	9150
73	2001 Regional Report Surplus Deficit	5880	3548	4380	5510	5294	3118	2143	2909	4433	5660	7068	6416	1883	4424	4305
74	2002 Regional Report Surplus Deficit	2668	2235	2543	4008	4199	4749	3576	3748	5015	11246	12662	9344	13372	10768	6312
75	2003 Regional Report Surplus Deficit	6513	4683	4867	4557	5301	3240	2816	2939	8762	10926	9304	9298	12247	4477	6187
76	2004 Regional Report Surplus Deficit	2352	2088	3994	5682	5230	6039	3144	2589	7148	9465	8293	9384	10248	4816	5792
77	2005 Regional Report Surplus Deficit	3180	3443	6105	5977	5849	6423	5946	5978	5226	6818	7578	10070	10157	5497	6473
78	2006 Regional Report Surplus Deficit	4359	3201	4651	5153	5123	5356	9117	8718	9055	15389	14091	13312	13041	6930	8230
79	2007 Regional Report Surplus Deficit	5341	2820	4528	4373	6864	6022	7813	5659	12211	12773	10264	10779	9645	8174	7646
80	2008 Regional Report Surplus Deficit	4257	2959	3823	5396	4813	4700	4188	4485	5543	9472	5945	12573	15158	9763	6819

Ranked Averages

81	**Bottom 10 pct**	**4017**	**3293**	**4312**	**5243**	**5140**	**3269**	**1976**	**2402**	**3975**	**6323**	**6038**	**7465**	**5906**	**5313**	**4578**
82	**Middle 80 pct**	**5776**	**5141**	**5190**	**6032**	**6436**	**6115**	**6853**	**7027**	**8522**	**11676**	**10585**	**11267**	**11992**	**8329**	**7859**
83	**Top 10 pct**	**7306**	**6767**	**5444**	**6999**	**8411**	**10641**	**13654**	**14025**	**14029**	**15006**	**14549**	**13121**	**14048**	**11723**	**11140**

Regional Report Surplus Deficit By Water Year

Operating Year 2019

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW - Surplus Deficit	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
1	1929 Regional Report Surplus Deficit	5487	5198	4233	6023	5633	3059	1982	2638	3421	4370	5945	6067	7151	3743	4542
2	1930 Regional Report Surplus Deficit	3278	3150	4197	5075	4964	2841	1553	3177	3481	5251	7316	5627	2831	5824	4091
3	1931 Regional Report Surplus Deficit	3338	2936	4057	4956	5127	2745	978	606	2908	5470	3635	6759	4557	4323	3741
4	1932 Regional Report Surplus Deficit	3443	2436	3809	4362	4514	3382	-343	392	6476	13665	12724	12292	12787	6411	5865
5	1933 Regional Report Surplus Deficit	5726	4240	4605	5485	5257	4665	7327	7786	8213	9702	7812	9953	14020	11607	7714
6	1934 Regional Report Surplus Deficit	7180	7688	4989	7616	10654	12716	13585	12939	11476	14064	12281	10748	8601	6344	10007
7	1935 Regional Report Surplus Deficit	2893	2934	3748	5290	4823	5443	6648	7513	8108	7649	7045	9231	8389	8691	6508
8	1936 Regional Report Surplus Deficit	6379	4703	4022	4941	4927	2581	1535	1879	4173	6917	11287	12253	11267	5907	5688
9	1937 Regional Report Surplus Deficit	3721	2813	3894	4838	5010	2829	1481	891	3277	5169	3759	6671	5767	4963	3961
10	1938 Regional Report Surplus Deficit	4139	3001	4149	5312	4950	6090	5792	5684	9106	10985	13655	11732	10746	7612	7257
11	1939 Regional Report Surplus Deficit	4315	3476	4356	5624	5087	3185	3752	4265	5710	8717	9504	10193	5501	5239	5496
12	1940 Regional Report Surplus Deficit	2796	2524	4172	5481	5225	5443	3190	3016	10235	9472	7970	8301	5613	4612	5572
13	1941 Regional Report Surplus Deficit	2669	2163	3853	5313	4387	4697	1565	2837	3719	5149	5151	6744	5118	5500	4282
14	1942 Regional Report Surplus Deficit	2993	2446	3277	5426	6066	5932	5006	4785	5992	6576	8839	7848	9342	9222	6115
15	1943 Regional Report Surplus Deficit	5139	4154	5202	5546	5018	5167	7265	8389	9337	14610	14029	11454	13176	8359	8139
16	1944 Regional Report Surplus Deficit	5701	5356	4922	5019	5198	3110	2298	3010	4030	4039	6581	4250	2650	4127	4126
17	1945 Regional Report Surplus Deficit	2550	2263	3274	4869	4617	2334	1507	2418	3472	4263	1208	9662	10963	4314	4386
18	1946 Regional Report Surplus Deficit	4292	3607	4562	5137	4958	6014	6468	6412	7970	12299	13675	11844	11693	9201	7598
19	1947 Regional Report Surplus Deficit	6838	5738	4698	5226	6183	10371	9560	10420	11225	10811	9563	10746	11834	9078	8809
20	1948 Regional Report Surplus Deficit	6030	4223	4535	9935	8863	7366	10036	8129	7321	10293	12309	12795	13849	10568	9153
21	1949 Regional Report Surplus Deficit	7706	8298	6209	5991	5837	4814	5489	5012	10570	12099	12701	12241	11758	5007	7787
22	1950 Regional Report Surplus Deficit	3378	2724	4012	5316	5506	5169	9688	10443	12030	13857	11847	11369	13068	10427	8557
23	1951 Regional Report Surplus Deficit	8388	8008	5286	7720	10029	11330	12725	14112	12984	14050	13167	11529	11095	10617	10750
24	1952 Regional Report Surplus Deficit	7446	7283	5368	9307	7660	7730	8852	8263	9529	13488	14226	12897	12213	8371	9287
25	1953 Regional Report Surplus Deficit	5707	4109	4248	4892	4648	2942	6858	6222	7009	8606	7973	11207	13796	10251	7104
26	1954 Regional Report Surplus Deficit	5298	5000	4973	5689	6383	7029	9136	9627	9873	11461	10128	11222	12343	12481	8718
27	1955 Regional Report Surplus Deficit	8626	9056	9195	6177	7808	5778	4125	4245	4336	7910	6818	8704	13477	12296	7705
28	1956 Regional Report Surplus Deficit	7691	6574	4651	6809	9155	10728	12747	12116	11778	13654	14541	12385	14096	11054	10549
29	1957 Regional Report Surplus Deficit	7634	6991	5075	6381	5807	7197	6410	5246	9074	14122	9540	13258	14155	8088	8334
30	1958 Regional Report Surplus Deficit	5556	3921	4264	5453	5488	4492	7151	7511	8341	11065	10776	12436	12435	7008	7509
31	1959 Regional Report Surplus Deficit	3802	4158	4248	5736	7167	9351	11570	10924	10267	12366	10075	10483	12750	9114	8885
32	1960 Regional Report Surplus Deficit	7349	7963	9458	11807	10905	8799	8149	6642	8321	15808	12298	10171	11185	8350	9631
33	1961 Regional Report Surplus Deficit	5588	4492	4137	5636	6089	5216	7634	9033	9648	11577	7757	10960	12785	7731	7782
34	1962 Regional Report Surplus Deficit	5427	4096	4288	5138	5417	4255	6325	6584	4774	14293	13562	10877	11924	5079	6926
35	1963 Regional Report Surplus Deficit	5006	4033	4414	6066	7449	8579	7892	7864	7440	7964	7587	9371	10039	8341	7475
36	1964 Regional Report Surplus Deficit	5297	4488	4832	5233	5375	5074	5163	4629	5144	12201	7599	10623	14145	11887	7247
37	1965 Regional Report Surplus Deficit	7677	7696	6116	7108	6889	10901	13956	13612	12280	9930	14244	11994	11858	9342	10303
38	1966 Regional Report Surplus Deficit	7524	7301	4656	6208	6274	5626	6017	5501	5400	14101	9344	8573	9189	8529	7096
39	1967 Regional Report Surplus Deficit	5797	4455	4746	5090	5048	6065	10139	10429	10600	9145	4900	9976	13291	10435	8150
40	1968 Regional Report Surplus Deficit	6742	5713	4829	6116	6573	5904	8913	8441	9914	7469	6159	7054	12216	9268	7682
41	1969 Regional Report Surplus Deficit	6848	6433	7231	7821	8992	7863	11473	11885	9438	13599	13072	12059	11718	9249	9785
42	1970 Regional Report Surplus Deficit	6276	5473	4640	5655	5818	4126	7200	6971	7395	9429	5605	9868	12863	6900	7062
43	1971 Regional Report Surplus Deficit	3924	3400	4473	5084	5478	4725	12270	13926	12922	13396	12658	12656	13926	12155	9491
44	1972 Regional Report Surplus Deficit	8459	8186	5935	6474	6336	6486	11762	13448	15729	15604	11517	12569	14057	11990	10537
45	1973 Regional Report Surplus Deficit	8524	8515	6890	6404	6048	6250	6570	4983	4215	3050	5688	6918	5703	5051	6004
46	1974 Regional Report Surplus Deficit	3318	2386	4219	5203	4930	8291	15163	15176	13664	13677	13090	11759	13527	12559	10028
47	1975 Regional Report Surplus Deficit	8328	8507	6345	5316	5751	5215	6690	8058	8591	8597	8142	10959	13360	12668	8312
48	1976 Regional Report Surplus Deficit	7835	7192	5756	8037	9584	12809	11510	11527	11777	14283	13186	12492	12142	11484	10694
49	1977 Regional Report Surplus Deficit	9226	9860	10014	6240	5530	2982	2134	3275	3750	4085	5330	4309	1160	3888	4802
50	1978 Regional Report Surplus Deficit	2761	2114	2674	4115	4277	7212	6201	6680	7915	13575	9901	11115	8725	9346	6870
51	1979 Regional Report Surplus Deficit	5143	4396	6307	6241	5556	4203	4701	3211	7922	7363	8012	11044	6661	4124	6052
52	1980 Regional Report Surplus Deficit	2526	2620	4068	5276	5082	3036	4324	4758	4392	9610	11297	13003	12277	6050	6269
53	1981 Regional Report Surplus Deficit	3863	3014	4535	5464	5592	9741	9209	9156	7994	5610	8103	9716	13141	9582	7860
54	1982 Regional Report Surplus Deficit	6824	7317	5473	5565	6274	7010	8791	13485	14127	12648	10538	11966	13158	10900	9591

Regional Report Surplus Deficit By Water Year

Operating Year 2019

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW - Surplus Deficit	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
55	1983 Regional Report Surplus Deficit	7768	8185	7355	7503	6700	7877	10372	10410	12907	12394	9532	11513	11977	11081	9719
56	1984 Regional Report Surplus Deficit	7708	8343	5382	6109	10101	7632	9359	9438	9804	14318	12380	11123	13671	10535	9534
57	1985 Regional Report Surplus Deficit	7771	6338	5445	6233	7044	5490	5091	5258	6643	11450	11085	11655	8634	2795	6882
58	1986 Regional Report Surplus Deficit	1842	1930	3990	6906	8538	5410	7291	9052	15111	13296	12085	9753	11635	6562	8217
59	1987 Regional Report Surplus Deficit	4704	3558	4390	5184	5806	5731	4684	3076	7776	6934	7523	9205	7384	4484	5772
60	1988 Regional Report Surplus Deficit	2312	1976	4025	4784	4548	2231	1968	1038	3814	5738	7573	6812	5339	6132	4138
61	1989 Regional Report Surplus Deficit	3519	2831	3829	4780	4568	4812	2493	2625	5978	11424	13266	10519	8346	4497	5670
62	1990 Regional Report Surplus Deficit	3226	3115	4281	5025	6338	6598	8162	8044	8658	9956	13349	10110	11609	7830	7610
63	1991 Regional Report Surplus Deficit	6051	5338	4919	4565	9775	7755	8978	9631	9450	11799	9088	10729	11385	10817	8665
64	1992 Regional Report Surplus Deficit	7312	7454	4791	4593	5430	3529	3707	3111	6615	5428	5758	6001	3810	3655	4865
65	1993 Regional Report Surplus Deficit	2046	1814	3327	4880	4541	3254	1657	704	5243	6912	8163	9996	9212	6187	4892
66	1994 Regional Report Surplus Deficit	4766	4037	4244	4825	5320	3398	1808	2427	3697	4925	7406	8543	7197	5374	4792
67	1995 Regional Report Surplus Deficit	3055	2330	4102	4588	4153	4285	3258	8681	10244	8742	6808	8655	11864	7728	6477
68	1996 Regional Report Surplus Deficit	4614	3968	4627	7282	11648	14257	14473	14635	15000	13378	14614	11922	13187	11126	11348
69	1997 Regional Report Surplus Deficit	7395	7678	4799	5548	6458	7760	14256	14906	15595	13909	14850	12661	14098	12123	10819
70	1998 Regional Report Surplus Deficit	8216	8551	7459	10831	8696	6999	6324	7375	7329	8240	8986	12491	13391	8503	8872
71	1999 Regional Report Surplus Deficit	6654	5517	4631	5259	5204	7121	11465	11856	13020	11923	11741	11388	14044	11906	9468
72	2000 Regional Report Surplus Deficit	8664	8719	6151	5921	10190	8867	7623	7646	8157	13531	13779	9406	9367	8040	8638
73	2001 Regional Report Surplus Deficit	5496	3242	4110	5284	5012	2797	1813	2575	4052	4253	6210	5460	728	4011	3794
74	2002 Regional Report Surplus Deficit	2284	1929	2273	3782	3917	4428	3246	3414	4634	9830	11795	8391	12254	10337	5802
75	2003 Regional Report Surplus Deficit	6129	4377	4597	4331	5019	2919	2486	2606	8380	9519	8445	8340	11140	4063	5679
76	2004 Regional Report Surplus Deficit	1968	1783	3724	5456	4948	5718	2814	2256	6768	8057	7433	8426	9096	4394	5280
77	2005 Regional Report Surplus Deficit	2796	3138	5835	5751	5566	6102	5616	5645	4846	5412	6720	9134	9001	5083	5964
78	2006 Regional Report Surplus Deficit	3975	2895	4381	4927	4841	5035	8787	8384	8671	13949	13198	12288	12038	6519	7722
79	2007 Regional Report Surplus Deficit	4957	2514	4258	4147	6582	5701	7483	5326	11816	11362	9402	9814	8495	7759	7132
80	2008 Regional Report Surplus Deficit	3873	2653	3553	5169	4531	4379	3857	4152	5162	8065	5085	11697	14174	9349	6328

Ranked Averages

81	**Bottom 10 pct**	**3633**	**2987**	**4042**	**5017**	**4858**	**2948**	**1645**	**2069**	**3594**	**4917**	**5179**	**6498**	**4744**	**4899**	**4065**
82	**Middle 80 pct**	**5392**	**4835**	**4920**	**5806**	**6153**	**5794**	**6522**	**6693**	**8134**	**10251**	**9708**	**10307**	**10893**	**7917**	**7350**
83	**Top 10 pct**	**6922**	**6461**	**5174**	**6773**	**8129**	**10320**	**13324**	**13692**	**13601**	**13560**	**13651**	**12164**	**13008**	**11287**	**10628**

Regional Report Surplus Deficit By Water Year

Operating Year 2020

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW - Surplus Deficit	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
1	1929 Regional Report Surplus Deficit	5160	4881	4008	5754	5318	2738	1699	2558	3199	4437	5645	6215	7716	3494	4394
2	1930 Regional Report Surplus Deficit	2951	2833	3971	4806	4649	2520	1270	3097	3259	5320	7018	5779	3399	5575	3947
3	1931 Regional Report Surplus Deficit	3011	2619	3832	4686	4812	2424	694	526	2686	5538	3335	6909	5125	4074	3591
4	1932 Regional Report Surplus Deficit	3116	2119	3584	4093	4199	3061	-626	312	6254	13740	12432	12294	13196	6162	5683
5	1933 Regional Report Surplus Deficit	5399	3923	4379	5216	4942	4345	7043	7706	7991	9771	7513	10104	14412	11350	7557
6	1934 Regional Report Surplus Deficit	6852	7371	4764	7347	10339	12395	13301	12859	11264	14112	11961	10840	9166	6095	9867
7	1935 Regional Report Surplus Deficit	2566	2617	3523	5021	4508	5122	6364	7433	7885	7715	6745	9318	8954	8440	6363
8	1936 Regional Report Surplus Deficit	6052	4386	3797	4672	4612	2260	1251	1799	3951	6986	10987	11970	11624	5656	5482
9	1937 Regional Report Surplus Deficit	3394	2496	3669	4568	4695	2508	1197	811	3055	5234	3458	6818	6334	4714	3810
10	1938 Regional Report Surplus Deficit	3811	2684	3924	5042	4635	5770	5508	5604	8874	11031	13333	11444	11109	7364	7055
11	1939 Regional Report Surplus Deficit	3987	3159	4130	5355	4772	2865	3468	4185	5489	8795	9216	10286	6067	4990	5347
12	1940 Regional Report Surplus Deficit	2469	2207	3947	5212	4910	5122	2907	2936	9998	9539	7669	8423	6177	4363	5419
13	1941 Regional Report Surplus Deficit	2342	1846	3628	5044	4072	4376	1281	2757	3497	5213	4847	6879	5685	5251	4135
14	1942 Regional Report Surplus Deficit	2665	2129	3052	5157	5751	5611	4722	4705	5770	6646	8542	7968	9872	8971	5964
15	1943 Regional Report Surplus Deficit	4812	3837	4977	5277	4703	4846	6981	8309	9126	14681	13732	11395	13315	8104	7945
16	1944 Regional Report Surplus Deficit	5374	5039	4697	4750	4883	2790	2014	2931	3808	4106	6280	4403	3218	3878	3981
17	1945 Regional Report Surplus Deficit	2223	1946	3049	4600	4302	2013	1223	2338	3249	4331	908	9771	11471	4065	4230
18	1946 Regional Report Surplus Deficit	3964	3290	4337	4868	4643	5693	6184	6333	7754	12468	13476	11767	12088	8948	7427
19	1947 Regional Report Surplus Deficit	6511	5421	4472	4957	5868	10050	9276	10340	10984	10866	9251	10768	12199	8826	8641
20	1948 Regional Report Surplus Deficit	5703	3906	4310	9666	8548	7045	9753	8049	7098	10352	12001	12665	14161	10316	8962
21	1949 Regional Report Surplus Deficit	7378	7981	5984	5722	5522	4493	5205	4932	10343	12180	12414	12297	12189	4588	7604
22	1950 Regional Report Surplus Deficit	3050	2407	3786	5047	5191	4849	9404	10363	11805	13960	11583	11358	13327	10176	8384
23	1951 Regional Report Surplus Deficit	8061	7691	5060	7451	9714	11009	12441	14032	12817	14056	12807	11566	11582	10360	10599
24	1952 Regional Report Surplus Deficit	7119	6966	5142	9038	7345	7409	8569	8183	9305	13338	13709	12912	12608	8123	9099
25	1953 Regional Report Surplus Deficit	5380	3792	4023	4622	4333	2621	6575	6142	6786	8680	7680	11285	13971	9996	6921
26	1954 Regional Report Surplus Deficit	4971	4683	4748	5420	6068	6708	8852	9547	9647	11530	9829	11270	12786	12247	8560
27	1955 Regional Report Surplus Deficit	8298	8739	8969	5908	7493	5457	3841	4165	4114	7975	6517	8828	13719	12045	7525
28	1956 Regional Report Surplus Deficit	7364	6257	4425	6540	8840	10407	12464	12036	11516	13545	14063	12337	14313	10795	10346
29	1957 Regional Report Surplus Deficit	7307	6674	4849	6112	5492	6877	6126	5166	8856	14180	9231	13446	14612	7839	8177
30	1958 Regional Report Surplus Deficit	5229	3604	4038	5184	5173	4171	6867	7431	8121	11167	10511	12294	12802	6758	7329
31	1959 Regional Report Surplus Deficit	3475	3841	4023	5467	6852	9030	11287	10844	10059	12432	9775	10589	13165	8862	8733
32	1960 Regional Report Surplus Deficit	7022	7646	9233	11538	10590	8478	7865	6562	8100	15758	11882	10299	11647	8101	9461
33	1961 Regional Report Surplus Deficit	5261	4175	3911	5367	5774	4895	7351	8953	9428	11649	7463	11054	13250	7482	7631
34	1962 Regional Report Surplus Deficit	5100	3779	4062	4869	5102	3934	6042	6504	4552	14381	13283	10920	12321	4830	6761
35	1963 Regional Report Surplus Deficit	4679	3716	4188	5797	7134	8258	7608	7785	7216	8032	7289	9446	10552	8090	7323
36	1964 Regional Report Surplus Deficit	4970	4171	4607	4964	5060	4753	4879	4549	4922	12274	7305	10694	14391	11644	7066
37	1965 Regional Report Surplus Deficit	7350	7379	5891	6839	6574	10580	13672	13532	12091	10046	13993	12099	12386	9098	10170
38	1966 Regional Report Surplus Deficit	7196	6984	4430	5939	5959	5305	5733	5421	5179	14171	9046	8697	9726	8279	6945
39	1967 Regional Report Surplus Deficit	5470	4138	4521	4821	4733	5745	9855	10349	10369	9209	4597	9917	13348	10138	7950
40	1968 Regional Report Surplus Deficit	6415	5396	4603	5847	6258	5583	8629	8361	9687	7538	5861	7195	12553	9018	7522
41	1969 Regional Report Surplus Deficit	6521	6116	7006	7552	8677	7542	11189	11805	9212	13784	12888	12308	12228	8998	9662
42	1970 Regional Report Surplus Deficit	5949	5156	4415	5386	5503	3806	6916	6891	7173	9496	5305	9930	13075	6649	6883
43	1971 Regional Report Surplus Deficit	3596	3083	4248	4815	5163	4404	11986	13846	12640	13497	12393	12478	14147	11867	9299
44	1972 Regional Report Surplus Deficit	8131	7869	5710	6205	6021	6166	11478	13368	15696	15735	11282	12653	14495	11757	10409
45	1973 Regional Report Surplus Deficit	8197	8199	6664	6135	5733	5929	6286	4903	3992	3119	5389	7050	6269	4802	5858
46	1974 Regional Report Surplus Deficit	2991	2069	3993	4934	4615	7970	14879	15096	13571	13596	12641	11784	13702	12318	9856
47	1975 Regional Report Surplus Deficit	8000	8190	6120	5047	5436	4895	6407	7978	8364	8668	7846	11000	13823	12429	8152
48	1976 Regional Report Surplus Deficit	7508	6875	5531	7768	9269	12488	11227	11447	11542	14315	12851	12509	12577	11201	10525
49	1977 Regional Report Surplus Deficit	8899	9543	9788	5971	5215	2662	1850	3195	3528	4151	5030	4464	1728	3639	4656
50	1978 Regional Report Surplus Deficit	2433	1797	2448	3846	3962	6891	5918	6600	7688	13636	9596	11087	9283	9098	6711
51	1979 Regional Report Surplus Deficit	4815	4079	6082	5972	5241	3882	4417	3131	7699	7432	7714	11042	7228	3875	5889
52	1980 Regional Report Surplus Deficit	2199	2303	3843	5007	4767	2715	4040	4678	4170	9693	11013	13210	12844	5803	6129
53	1981 Regional Report Surplus Deficit	3536	2697	4310	5195	5277	9421	8925	9076	7772	5681	7806	9846	13581	9334	7710
54	1982 Regional Report Surplus Deficit	6497	7000	5248	5296	5959	6689	8507	13405	13834	12701	10224	11850	13523	10653	9414

Regional Report Surplus Deficit By Water Year

Operating Year 2020

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW - Surplus Deficit	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
55	1983 Regional Report Surplus Deficit	7440	7868	7129	7234	6384	7557	10088	10330	12730	12428	9200	11397	12195	10802	9526
56	1984 Regional Report Surplus Deficit	7380	8026	5157	5840	9786	7312	9075	9358	9580	14347	12042	11175	14170	10284	9374
57	1985 Regional Report Surplus Deficit	7444	6021	5220	5964	6729	5169	4807	5178	6422	11506	10774	11723	9175	2546	6726
58	1986 Regional Report Surplus Deficit	1515	1613	3764	6637	8223	5089	7007	8972	14800	13277	11699	9878	12071	6313	8050
59	1987 Regional Report Surplus Deficit	4376	3241	4165	4915	5491	5410	4400	2996	7557	7004	7225	9369	7948	4235	5624
60	1988 Regional Report Surplus Deficit	1984	1659	3800	4515	4233	1910	1684	958	3592	5807	7276	6967	5907	5884	3988
61	1989 Regional Report Surplus Deficit	3191	2514	3604	4511	4253	4491	2210	2545	5756	11502	12975	10638	8911	4248	5518
62	1990 Regional Report Surplus Deficit	2899	2798	4055	4756	6023	6277	7878	7964	8433	10008	13033	10267	12134	7579	7464
63	1991 Regional Report Surplus Deficit	5724	5021	4694	4296	9460	7434	8694	9551	9229	11875	8796	10813	11892	10572	8516
64	1992 Regional Report Surplus Deficit	6985	7137	4566	4324	5115	3208	3423	3031	6393	5496	5459	6159	4378	3406	4719
65	1993 Regional Report Surplus Deficit	1719	1497	3102	4611	4226	2933	1373	624	5022	6980	7865	10077	9778	5938	4733
66	1994 Regional Report Surplus Deficit	4439	3720	4019	4556	5005	3077	1524	2348	3475	4992	7106	8693	7765	5125	4643
67	1995 Regional Report Surplus Deficit	2728	2013	3877	4319	3838	3965	2974	8601	10058	8807	6506	8786	12334	7319	6321
68	1996 Regional Report Surplus Deficit	4287	3651	4401	7013	11333	13936	14190	14555	14709	13341	14211	11650	13275	10872	11125
69	1997 Regional Report Surplus Deficit	7067	7361	4574	5279	6143	7440	13972	14826	15409	13983	14558	12824	14690	11899	10697
70	1998 Regional Report Surplus Deficit	7888	8234	7234	10562	8381	6678	6040	7295	7109	8289	8668	12426	13674	8256	8683
71	1999 Regional Report Surplus Deficit	6327	5200	4405	4989	4889	6800	11181	11776	12835	11957	11407	11583	14422	11637	9320
72	2000 Regional Report Surplus Deficit	8337	8402	5925	5652	9875	8546	7339	7566	7938	13528	13409	9438	9873	7791	8473
73	2001 Regional Report Surplus Deficit	5169	2925	3884	5015	4696	2477	1529	2495	3830	4321	5910	5612	1295	3762	3649
74	2002 Regional Report Surplus Deficit	1957	1612	2048	3513	3602	4107	2962	3334	4412	9904	11501	8528	12671	10101	5642
75	2003 Regional Report Surplus Deficit	5801	4060	4372	4062	4704	2598	2202	2526	8159	9587	8145	8466	11611	3814	5519
76	2004 Regional Report Surplus Deficit	1640	1466	3499	5187	4633	5397	2530	2176	6544	8126	7135	8580	9660	4154	5131
77	2005 Regional Report Surplus Deficit	2469	2821	5610	5482	5251	5781	5332	5565	4624	5480	6421	9251	9543	4834	5816
78	2006 Regional Report Surplus Deficit	3648	2578	4156	4658	4526	4714	8503	8304	8445	13978	12860	12241	12326	6268	7539
79	2007 Regional Report Surplus Deficit	4630	2197	4033	3878	6267	5381	7199	5246	11602	11432	9103	9925	9047	7510	6982
80	2008 Regional Report Surplus Deficit	3545	2336	3328	4900	4216	4059	3574	4072	4940	8133	4786	11842	14641	9095	6171
	Ranked Averages															
81	**Bottom 10 pct**	**3306**	**2670**	**3816**	**4748**	**4543**	**2627**	**1362**	**1989**	**3372**	**4984**	**4879**	**6642**	**5304**	**4650**	**3916**
82	**Middle 80 pct**	**5004**	**4435**	**4683**	**5499**	**5749**	**5404**	**6263**	**6648**	**7946**	**10306**	**9414**	**10382**	**11398**	**7758**	**7186**
83	**Top 10 pct**	**7078**	**6807**	**5045**	**6805**	**8529**	**10553**	**12843**	**13332**	**13131**	**13642**	**13216**	**12060**	**12811**	**10260**	**10467**

Regional Report Surplus Deficit By Water Year

Operating Year 2021

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW - Surplus Deficit	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
1	1929 Regional Report Surplus Deficit	4800	4673	3765	5493	5089	2428	905	1564	2238	4471	5684	6080	5912	2482	3820
2	1930 Regional Report Surplus Deficit	2591	2625	3728	4546	4419	2209	476	2103	2296	5354	7057	5639	1592	4564	3369
3	1931 Regional Report Surplus Deficit	2651	2410	3589	4426	4582	2114	-100	-468	1724	5571	3374	6774	3318	3062	3020
4	1932 Regional Report Surplus Deficit	2756	1910	3341	3832	3970	2750	-1420	-682	5290	13786	12483	12235	11448	5150	5130
5	1933 Regional Report Surplus Deficit	5039	3715	4136	4955	4713	4034	6249	6712	7028	9803	7552	9992	12770	10340	6993
6	1934 Regional Report Surplus Deficit	6492	7162	4521	7086	10110	12085	12507	11865	10293	14199	12054	10790	7354	5084	9290
7	1935 Regional Report Surplus Deficit	2206	2409	3280	4760	4279	4812	5570	6439	6925	7749	6786	9268	7153	7430	5789
8	1936 Regional Report Surplus Deficit	5692	4178	3554	4412	4383	1950	457	805	2989	7012	11020	12044	9846	4645	4932
9	1937 Regional Report Surplus Deficit	3033	2288	3426	4308	4466	2198	403	-183	2094	5270	3499	6678	4529	3702	3239
10	1938 Regional Report Surplus Deficit	3451	2476	3681	4782	4405	5459	4714	4610	7924	11111	13419	11765	9480	6354	6537
11	1939 Regional Report Surplus Deficit	3627	2950	3887	5095	4543	2554	2674	3191	4525	8830	9257	10200	4259	3978	4775
12	1940 Regional Report Surplus Deficit	2109	1999	3704	4951	4681	4812	2113	1942	9040	9573	7710	8327	4373	3351	4850
13	1941 Regional Report Surplus Deficit	1982	1638	3385	4783	3843	4066	487	1763	2533	5248	4888	6747	3875	4240	3559
14	1942 Regional Report Surplus Deficit	2305	1921	2809	4896	5522	5301	3928	3711	4804	6677	8578	7852	8064	7954	5388
15	1943 Regional Report Surplus Deficit	4451	3629	4734	5017	4473	4536	6187	7315	8177	14877	13934	11527	11849	7095	7430
16	1944 Regional Report Surplus Deficit	5014	4830	4454	4489	4653	2479	1220	1936	2846	4140	6321	4265	1411	2867	3404
17	1945 Regional Report Surplus Deficit	1863	1738	2806	4339	4073	1703	429	1344	2288	4363	946	9708	9724	3053	3667
18	1946 Regional Report Surplus Deficit	3604	3082	4094	4607	4414	5383	5390	5338	6790	12554	13568	11862	10383	7935	6883
19	1947 Regional Report Surplus Deficit	6151	5213	4230	4696	5638	9740	8482	9346	10040	10901	9293	10771	10489	7813	8078
20	1948 Regional Report Surplus Deficit	5342	3698	4067	9405	8319	6735	8958	7055	6137	10394	12049	12676	12546	9311	8415
21	1949 Regional Report Surplus Deficit	7018	7773	5741	5461	5293	4183	4411	3938	9345	12204	12444	12222	10436	3579	7038
22	1950 Regional Report Surplus Deficit	2690	2199	3543	4786	4961	4538	8610	9369	10851	14045	11673	11326	11672	9165	7825
23	1951 Regional Report Surplus Deficit	7701	7483	4817	7190	9485	10698	11647	13038	11782	14161	12917	11494	9802	9359	10019
24	1952 Regional Report Surplus Deficit	6758	6758	4899	8777	7116	7098	7775	7189	8346	13617	13994	13158	10959	7110	8587
25	1953 Regional Report Surplus Deficit	5019	3584	3780	4362	4104	2310	5781	5148	5824	8712	7719	11328	12623	8989	6397
26	1954 Regional Report Surplus Deficit	4611	4475	4505	5160	5838	6398	8058	8553	8684	11576	9881	11174	11005	11216	7983
27	1955 Regional Report Surplus Deficit	7938	8531	8726	5647	7263	5147	3047	3171	3152	8011	6558	8716	12170	11052	6979
28	1956 Regional Report Surplus Deficit	7004	6049	4182	6279	8611	10097	11669	11042	10553	13724	14250	12397	12820	9786	9817
29	1957 Regional Report Surplus Deficit	6947	6466	4606	5851	5263	6566	5332	4172	7886	14225	9282	13403	12959	6828	7626
30	1958 Regional Report Surplus Deficit	4869	3396	3795	4923	4944	3860	6073	6437	7160	11198	10549	12475	11204	5747	6793
31	1959 Regional Report Surplus Deficit	3115	3632	3780	5207	6623	8719	10493	9849	9096	12468	9818	10475	11523	7852	8164
32	1960 Regional Report Surplus Deficit	6662	7438	8990	11277	10360	8168	7071	5568	7137	15874	12002	10194	9895	7089	8903
33	1961 Regional Report Surplus Deficit	4901	3966	3668	5106	5545	4584	6557	7959	8468	11683	7502	10923	11545	6471	7056
34	1962 Regional Report Surplus Deficit	4739	3571	3819	4608	4872	3624	5248	5510	3591	14570	13478	10976	10642	3818	6222
35	1963 Regional Report Surplus Deficit	4319	3508	3945	5537	6905	7948	6814	6790	6255	8059	7323	9391	8786	7080	6752
36	1964 Regional Report Surplus Deficit	4610	3962	4364	4703	4831	4443	4085	3555	3960	12304	7340	10584	12899	10619	6520
37	1965 Regional Report Surplus Deficit	6990	7170	5648	6578	6344	10269	12878	12538	11108	10072	14025	12019	10599	8085	9585
38	1966 Regional Report Surplus Deficit	6836	6776	4187	5678	5730	4995	4939	4427	4217	14269	9151	8601	7950	7270	6381
39	1967 Regional Report Surplus Deficit	5110	3930	4278	4561	4504	5434	9061	9355	9384	9244	4638	9996	11972	9156	7418
40	1968 Regional Report Surplus Deficit	6055	5188	4360	5587	6029	5272	7835	7367	8715	7570	5900	7063	10865	7992	6948
41	1969 Regional Report Surplus Deficit	6161	5908	6763	7292	8447	7231	10395	10811	8246	13766	12877	12287	10468	7986	9086
42	1970 Regional Report Surplus Deficit	5589	4948	4172	5125	5274	3495	6122	5897	6211	9533	5348	9893	11573	5638	6337
43	1971 Regional Report Surplus Deficit	3236	2875	4005	4554	4933	4094	11192	12852	11703	13508	12408	12423	12281	10883	8712
44	1972 Regional Report Surplus Deficit	7771	7660	5467	5945	5792	5855	10684	12374	14691	15699	11252	12697	12929	10729	9846
45	1973 Regional Report Surplus Deficit	7837	7990	6421	5875	5504	5619	5492	3909	3029	3151	5429	6937	4463	3790	5283
46	1974 Regional Report Surplus Deficit	2631	1861	3750	4673	4386	7659	14085	14102	12506	13785	12837	11614	12027	11250	9269
47	1975 Regional Report Surplus Deficit	7640	7982	5877	4786	5207	4584	5613	6984	7410	8697	7881	11053	12123	11441	7600
48	1976 Regional Report Surplus Deficit	7148	6667	5288	7507	9040	12178	10433	10453	10554	14374	12915	12445	10939	10206	9964
49	1977 Regional Report Surplus Deficit	8539	9334	9545	5710	4986	2351	1056	2201	2567	4185	5069	4324	-79.8	2628	4080
50	1978 Regional Report Surplus Deficit	2073	1589	2205	3585	3733	6581	5124	5606	6728	13667	9632	11099	7484	8086	6145
51	1979 Regional Report Surplus Deficit	4455	3870	5839	5712	5012	3572	3623	2137	6738	7464	7752	10984	5418	2863	5323
52	1980 Regional Report Surplus Deficit	1839	2095	3600	4747	4537	2404	3246	3684	3208	9726	11052	13128	11030	4799	5558
53	1981 Regional Report Surplus Deficit	3176	2489	4067	4934	5047	9110	8131	8082	6808	5713	7844	9753	12047	8321	7152
54	1982 Regional Report Surplus Deficit	6137	6792	5005	5035	5730	6379	7713	12411	12869	12751	10279	12016	11952	9647	8869

Regional Report Surplus Deficit By Water Year

Operating Year 2021

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW - Surplus Deficit	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
55	1983 Regional Report Surplus Deficit	7080	7659	6886	6973	6155	7246	9294	9336	11676	12495	9272	11482	10605	9809	8977
56	1984 Regional Report Surplus Deficit	7020	7818	4914	5579	9557	7001	8281	8364	8613	14418	12119	11078	12406	9265	8804
57	1985 Regional Report Surplus Deficit	7084	5812	4977	5704	6500	4859	4013	4184	5459	11556	10830	11657	7381	1535	6159
58	1986 Regional Report Surplus Deficit	1155	1404	3521	6376	7993	4778	6213	7978	13960	13367	11795	9757	10353	5301	7491
59	1987 Regional Report Surplus Deficit	4016	3033	3922	4654	5262	5100	3606	2002	6591	7036	7263	9224	6143	3223	5050
60	1988 Regional Report Surplus Deficit	1624	1451	3557	4254	4004	1600	890	-35.7	2631	5841	7315	6828	4099	4872	3417
61	1989 Regional Report Surplus Deficit	2831	2306	3361	4250	4024	4181	1416	1551	4792	11472	12952	10505	7101	3236	4941
62	1990 Regional Report Surplus Deficit	2539	2590	3812	4495	5793	5967	7084	6970	7475	10066	13097	10120	10357	6571	6888
63	1991 Regional Report Surplus Deficit	5364	4813	4451	4035	9230	7124	7900	8557	8268	11909	8836	10727	10151	9549	7942
64	1992 Regional Report Surplus Deficit	6625	6929	4323	4063	4886	2897	2629	2037	5431	5530	5498	6020	2570	2395	4144
65	1993 Regional Report Surplus Deficit	1359	1289	2859	4350	3997	2623	579	-370	4059	7014	7905	9999	7970	4927	4169
66	1994 Regional Report Surplus Deficit	4079	3511	3776	4295	4775	2767	730	1353	2513	5025	7145	8553	5956	4114	4069
67	1995 Regional Report Surplus Deficit	2368	1804	3634	4058	3609	3654	2180	7607	9082	8842	6547	8647	10539	6309	5735
68	1996 Regional Report Surplus Deficit	3927	3443	4158	6752	11103	13626	13396	13561	13904	13297	14172	11786	11828	9852	10595
69	1997 Regional Report Surplus Deficit	6707	7152	4331	5018	5913	7129	13178	13832	14386	14021	14601	12624	12907	10888	10098
70	1998 Regional Report Surplus Deficit	7528	8026	6991	10301	8151	6368	5246	6301	6146	8347	8732	12665	12236	7242	8171
71	1999 Regional Report Surplus Deficit	5967	4991	4162	4729	4659	6490	10387	10782	11858	12002	11459	11532	12761	10624	8752
72	2000 Regional Report Surplus Deficit	7977	8194	5682	5391	9646	8235	6545	6572	6973	13617	13504	9447	8115	6778	7916
73	2001 Regional Report Surplus Deficit	4809	2717	3641	4754	4467	2166	735	1501	2869	4354	5950	5472	-512	2750	3072
74	2002 Regional Report Surplus Deficit	1597	1404	1805	3252	3372	3797	2168	2340	3450	9936	11539	8394	10985	9081	5078
75	2003 Regional Report Surplus Deficit	5441	3852	4129	3801	4474	2288	1408	1531	7196	9618	8182	8361	9877	2802	4956
76	2004 Regional Report Surplus Deficit	1280	1257	3256	4926	4403	5087	1736	1182	5584	8160	7174	8439	7855	3140	4559
77	2005 Regional Report Surplus Deficit	2109	2612	5367	5221	5022	5471	4538	4571	3662	5513	6460	9144	7764	3822	5242
78	2006 Regional Report Surplus Deficit	3288	2370	3913	4397	4297	4403	7709	7310	7489	14090	12977	12425	10680	5258	7004
79	2007 Regional Report Surplus Deficit	4270	1989	3790	3617	6038	5070	6405	4252	10631	11469	9147	9834	7251	6496	6411
80	2008 Regional Report Surplus Deficit	3185	2127	3085	4639	3987	3748	2780	3078	3979	8167	4826	11737	12955	8089	5610

Ranked Averages

81	**Bottom 10 pct**	**2946**	**2462**	**3573**	**4487**	**4313**	**2317**	**568**	**995**	**2410**	**5018**	**4919**	**6514**	**3504**	**3639**	**3343**
82	**Middle 80 pct**	**4644**	**4227**	**4440**	**5239**	**5519**	**5094**	**5469**	**5654**	**6983**	**10359**	**9473**	**10342**	**9695**	**6746**	**6627**
83	**Top 10 pct**	**6718**	**6598**	**4802**	**6544**	**8300**	**10242**	**12049**	**12338**	**12159**	**13693**	**13273**	**12031**	**11147**	**9249**	**9902**

Regional Report Surplus Deficit By Water Year

Operating Year 2022

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW - Surplus Deficit	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
1	1929 Regional Report Surplus Deficit	4261	3649	2999	4773	4362	1666	678	1334	2272	2317	3887	6407	6819	2437	3407
2	1930 Regional Report Surplus Deficit	2052	1601	2962	3826	3693	1448	249	1873	2332	3200	5261	5967	2496	4519	2956
3	1931 Regional Report Surplus Deficit	2112	1387	2823	3706	3856	1352	-327	-698	1759	3418	1578	7101	4222	3017	2606
4	1932 Regional Report Surplus Deficit	2217	886	2575	3112	3243	1989	-1647	-911	5327	11797	10851	12769	12711	5105	4777
5	1933 Regional Report Surplus Deficit	4500	2691	3370	4235	3986	3272	6023	6482	7064	7652	5758	10377	14141	10312	6624
6	1934 Regional Report Surplus Deficit	5953	6138	3755	6366	9383	11323	12280	11636	10348	12136	10349	11224	8267	5039	8895
7	1935 Regional Report Surplus Deficit	1667	1385	2513	4041	3552	4050	5344	6209	6960	5597	4989	9674	8065	7387	5383
8	1936 Regional Report Surplus Deficit	5153	3154	2787	3692	3656	1188	230	576	3024	4884	9248	12446	11094	4601	4555
9	1937 Regional Report Surplus Deficit	2494	1264	2660	3588	3739	1436	177	-412	2128	3116	1702	7024	5435	3657	2827
10	1938 Regional Report Surplus Deficit	2912	1452	2915	4062	3679	4697	4487	4380	7967	9121	11786	11920	10534	6309	6136
11	1939 Regional Report Surplus Deficit	3088	1927	3121	4375	3816	1792	2448	2961	4562	6686	7469	10762	5166	3934	4382
12	1940 Regional Report Surplus Deficit	1570	975	2938	4232	3954	4050	1886	1712	9104	7431	5923	8709	5278	3307	4444
13	1941 Regional Report Surplus Deficit	1443	614	2619	4063	3116	3304	261	1534	2570	3097	3095	7092	4782	4195	3148
14	1942 Regional Report Surplus Deficit	1766	897	2043	4177	4795	4539	3702	3482	4843	4541	6800	8215	9036	7920	4986
15	1943 Regional Report Surplus Deficit	3912	2605	3967	4297	3747	3774	5961	7086	8218	13899	13313	11870	13646	7054	7189
16	1944 Regional Report Surplus Deficit	4475	3807	3688	3769	3927	1717	994	1707	2881	1987	4524	4590	2315	2822	2990
17	1945 Regional Report Surplus Deficit	1324	714	2040	3619	3346	941	203	1114	2322	2211	-849	10188	10795	2873	3268
18	1946 Regional Report Surplus Deficit	3065	2058	3328	3887	3687	4621	5163	5109	6827	10684	12056	12243	11532	7898	6518
19	1947 Regional Report Surplus Deficit	5612	4189	3463	3977	4912	8978	8256	9117	10111	8786	7534	11244	11722	7775	7711
20	1948 Regional Report Surplus Deficit	4803	2674	3301	8685	7592	5973	8732	6826	6172	8308	10320	13141	14309	9283	8091
21	1949 Regional Report Surplus Deficit	6479	6749	4975	4742	4566	3421	4185	3708	9435	10200	10798	12773	11654	3534	6686
22	1950 Regional Report Surplus Deficit	2151	1175	2777	4067	4235	3776	8384	9140	10979	12071	10057	11834	13249	9139	7507
23	1951 Regional Report Surplus Deficit	7162	6459	4051	6470	8758	9937	11420	12808	11985	12259	11372	12042	10854	9331	9672
24	1952 Regional Report Surplus Deficit	6219	5734	4133	8057	6389	6337	7548	6960	8387	11796	12530	13387	12234	7066	8224
25	1953 Regional Report Surplus Deficit	4480	2560	3014	3642	3377	1549	5554	4918	5860	6562	5925	11761	14384	8953	6064
26	1954 Regional Report Surplus Deficit	4072	3451	3739	4440	5112	5636	7831	8324	8735	9470	8132	11746	12411	11297	7647
27	1955 Regional Report Surplus Deficit	7399	7507	7960	4928	6537	4385	2821	2941	3187	5857	4761	9083	13589	11060	6616
28	1956 Regional Report Surplus Deficit	6465	5025	3416	5559	7884	9335	11443	10813	10708	12004	12886	12813	14736	9767	9542
29	1957 Regional Report Surplus Deficit	6407	5442	3840	5132	4536	5804	5106	3942	7932	12133	7547	13922	14275	6783	7269
30	1958 Regional Report Surplus Deficit	4330	2372	3029	4204	4217	3099	5847	6207	7197	9114	8821	12769	12579	5702	6421
31	1959 Regional Report Surplus Deficit	2576	2609	3014	4487	5896	7957	10266	9620	9139	10357	8062	11028	12861	7810	7809
32	1960 Regional Report Surplus Deficit	6122	6414	8224	10558	9634	7406	6845	5338	7174	13934	10420	10608	10937	7044	8526
33	1961 Regional Report Surplus Deficit	4362	2943	2902	4387	4818	3823	6330	7729	8506	9534	5709	11489	12784	6426	6691
34	1962 Regional Report Surplus Deficit	4200	2547	3053	3889	4146	2862	5021	5280	3625	12829	12093	11396	11823	3773	5873
35	1963 Regional Report Surplus Deficit	3780	2484	3179	4817	6178	7186	6588	6561	6291	5914	5534	9814	9732	7035	6351
36	1964 Regional Report Surplus Deficit	4071	2939	3598	3983	4104	3681	3858	3325	3995	10169	5563	11121	14628	10635	6199
37	1965 Regional Report Surplus Deficit	6451	6147	4882	5859	5618	9508	12652	12308	11203	7963	12274	12575	11698	8044	9217
38	1966 Regional Report Surplus Deficit	6297	5752	3421	4959	5003	4233	4713	4198	4252	12199	7437	8956	8876	7227	5978
39	1967 Regional Report Surplus Deficit	4571	2906	3512	3841	3777	4672	8835	9126	9465	7096	2846	10392	13745	9138	7088
40	1968 Regional Report Surplus Deficit	5515	4164	3594	4867	5302	4511	7609	7138	8772	5419	4105	7402	12178	7964	6573
41	1969 Regional Report Surplus Deficit	5622	4884	5996	6572	7721	6470	10168	10582	8294	12328	11795	12784	11762	7945	8779
42	1970 Regional Report Surplus Deficit	5050	3924	3406	4406	4547	2733	5895	5668	6254	7384	3556	10370	12979	5594	5978
43	1971 Regional Report Surplus Deficit	2697	1851	3239	3835	4207	3332	10966	12622	11972	11742	11000	12953	14485	10928	8482
44	1972 Regional Report Surplus Deficit	7232	6637	4701	5225	5065	5093	10458	12145	15694	13977	9887	13129	14691	10770	9637
45	1973 Regional Report Surplus Deficit	7298	6966	5655	5155	4777	4857	5265	3680	3066	998	3632	7271	5368	3746	4870
46	1974 Regional Report Surplus Deficit	2092	837	2984	3954	3659	6898	13858	13872	13539	12963	12371	12260	14118	11434	9194
47	1975 Regional Report Surplus Deficit	7101	6958	5111	4067	4480	3822	5386	6754	7454	6566	6107	11475	14086	11456	7290
48	1976 Regional Report Surplus Deficit	6609	5643	4522	6788	8313	11416	10206	10224	10651	12386	11285	12985	12058	10200	9608
49	1977 Regional Report Surplus Deficit	8000	8311	8779	4991	4259	1589	830	1972	2601	2031	3272	4648	824	2583	3666
50	1978 Regional Report Surplus Deficit	1534	565	1439	2865	3006	5819	4897	5376	6766	11635	7957	11562	8397	8043	5754
51	1979 Regional Report Surplus Deficit	3916	2847	5073	4992	4285	2810	3397	1908	6774	5311	5956	11517	6325	2819	4928
52	1980 Regional Report Surplus Deficit	1300	1071	2834	4027	3811	1643	3020	3455	3244	7616	9299	13685	12053	4601	5164
53	1981 Regional Report Surplus Deficit	2637	1465	3301	4215	4321	8348	7904	7852	6845	3562	6050	10150	13257	8281	6771
54	1982 Regional Report Surplus Deficit	5598	5768	4239	4316	5003	5617	7486	12181	13474	10816	8701	12325	13203	9608	8550

Regional Report Surplus Deficit By Water Year

Operating Year 2022

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW - Surplus Deficit	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
55	1983 Regional Report Surplus Deficit	6541	6636	6120	6254	5428	6484	9068	9106	12212	10444	7578	11873	12109	9815	8674
56	1984 Regional Report Surplus Deficit	6481	6794	4148	4859	8830	6239	8055	8135	8668	12479	10537	11650	13921	9239	8482
57	1985 Regional Report Surplus Deficit	6545	4789	4211	4984	5773	4097	3786	3954	5495	9441	9072	12199	8303	1490	5768
58	1986 Regional Report Surplus Deficit	615	381	2755	5657	7267	4017	5987	7748	15124	11381	10166	10151	11435	5257	7208
59	1987 Regional Report Surplus Deficit	3477	2009	3156	3934	4535	4338	3380	1772	6631	4883	5468	9590	7050	3178	4641
60	1988 Regional Report Surplus Deficit	1085	427	2791	3535	3277	838	663	-265	2665	3687	5518	7153	5004	4827	3003
61	1989 Regional Report Surplus Deficit	2292	1282	2595	3531	3297	3419	1189	1321	4829	9479	11316	10902	8011	3191	4547
62	1990 Regional Report Surplus Deficit	2000	1566	3046	3776	5067	5205	6857	6740	7510	7938	11326	10516	11352	6527	6490
63	1991 Regional Report Surplus Deficit	4825	3789	3685	3316	8504	6362	7674	8328	8303	9762	7046	11183	11141	9538	7550
64	1992 Regional Report Surplus Deficit	6086	5905	3557	3343	4159	2136	2402	1807	5466	3376	3702	6347	3474	2350	3730
65	1993 Regional Report Surplus Deficit	820	265	2093	3631	3270	1861	353	-599	4095	4866	6113	10508	8894	4882	3773
66	1994 Regional Report Surplus Deficit	3540	2488	3010	3575	4049	2005	504	1124	2548	2872	5349	8889	6862	4069	3657
67	1995 Regional Report Surplus Deficit	1829	780	2868	3339	2882	2892	1953	7377	9154	6699	4761	9046	11873	6263	5367
68	1996 Regional Report Surplus Deficit	3388	2419	3392	6032	10377	12864	13169	13332	14632	12034	13267	12126	13299	9844	10364
69	1997 Regional Report Surplus Deficit	6168	6129	3565	4299	5187	6367	12951	13603	15000	12205	13142	13300	14427	10922	9848
70	1998 Regional Report Surplus Deficit	6989	7002	6224	9582	7425	5606	5020	6072	6182	6204	6947	12902	13603	7203	7789
71	1999 Regional Report Surplus Deficit	5428	3968	3396	4009	3933	5728	10160	10553	12078	9945	9759	12059	14460	10662	8452
72	2000 Regional Report Surplus Deficit	7437	7170	4916	4672	8919	7474	6319	6342	7015	11708	11951	9900	9064	6735	7538
73	2001 Regional Report Surplus Deficit	4270	1693	2875	4034	3740	1404	509	1272	2903	2201	4153	5799	392	2705	2658
74	2002 Regional Report Surplus Deficit	1057	380	1039	2532	2646	3035	1942	2111	3485	7808	9767	8735	12101	9051	4686
75	2003 Regional Report Surplus Deficit	4902	2828	3363	3081	3748	1526	1182	1302	7233	7470	6392	8746	10920	2623	4548
76	2004 Regional Report Surplus Deficit	741	234	2489	4206	3677	4325	1510	952	5618	6009	5381	8780	8764	3089	4147
77	2005 Regional Report Surplus Deficit	1569	1588	4601	4502	4295	4709	4312	4341	3697	3360	4664	9583	8695	3778	4840
78	2006 Regional Report Surplus Deficit	2749	1346	3147	3677	3570	3642	7483	7081	7529	12524	11769	12717	12267	5213	6693
79	2007 Regional Report Surplus Deficit	3731	965	3024	2897	5311	4308	6178	4022	10717	9325	7359	10273	8165	6455	6013
80	2008 Regional Report Surplus Deficit	2646	1104	2319	3920	3260	2986	2553	2849	4013	6014	3029	12318	14285	8046	5254

Ranked Averages

81	**Bottom 10 pct**	**2407**	**1438**	**2807**	**3768**	**3587**	**1555**	**341**	**766**	**2445**	**2865**	**3123**	**6864**	**4430**	**3577**	**2932**
82	**Middle 80 pct**	**4165**	**3286**	**3686**	**4557**	**4882**	**4401**	**5218**	**5390**	**7032**	**8320**	**7772**	**10751**	**10840**	**6613**	**6261**
83	**Top 10 pct**	**5696**	**4912**	**3939**	**5523**	**6858**	**8927**	**12020**	**12388**	**12927**	**11974**	**12060**	**12653**	**13235**	**10039**	**9635**

Regional Report Surplus Deficit By Water Year

Operating Year 2023

2013 White Book Report Date: **10/1/2013**

S110-WB-20131023-150804

	Energy-aMW - Surplus Deficit	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
1	1929 Regional Report Surplus Deficit	3855	3498	2709	4582	4079	1460	377	1084	1764	2891	4293	5640	5464	1985	3040
2	1930 Regional Report Surplus Deficit	1645	1450	2672	3634	3409	1242	-51.7	1623	1823	3774	5666	5201	1140	4066	2589
3	1931 Regional Report Surplus Deficit	1705	1235	2533	3515	3572	1146	-628	-948	1250	3991	1983	6334	2866	2565	2239
4	1932 Regional Report Surplus Deficit	1810	735	2285	2921	2959	1783	-1948	-1161	4819	12370	11257	12177	11351	4653	4425
5	1933 Regional Report Surplus Deficit	4093	2540	3081	4044	3703	3067	5722	6232	6555	8225	6163	9610	12674	9860	6248
6	1934 Regional Report Surplus Deficit	5547	5987	3465	6175	9099	11117	11980	11386	9840	12710	10754	10457	6912	4586	8528
7	1935 Regional Report Surplus Deficit	1261	1233	2224	3849	3268	3844	5043	5959	6451	6171	5395	8907	6710	6934	5016
8	1936 Regional Report Surplus Deficit	4747	3003	2498	3500	3372	982	-70.6	325	2516	5458	9654	11986	9739	4149	4214
9	1937 Regional Report Surplus Deficit	2088	1112	2370	3397	3455	1230	-124	-663	1620	3690	2108	6258	4079	3205	2460
10	1938 Regional Report Surplus Deficit	2506	1300	2625	3871	3395	4492	4186	4130	7459	9694	12192	11707	9179	5857	5816
11	1939 Regional Report Surplus Deficit	2682	1775	2832	4183	3532	1587	2147	2711	4053	7259	7875	10026	3811	3481	4018
12	1940 Regional Report Surplus Deficit	1164	824	2648	4040	3670	3844	1585	1462	8596	8004	6329	7942	3923	2854	4078
13	1941 Regional Report Surplus Deficit	1037	463	2329	3872	2832	3098	-40.3	1283	2061	3670	3500	6326	3427	3743	2781
14	1942 Regional Report Surplus Deficit	1360	746	1753	3985	4512	4333	3401	3231	4334	5115	7206	7449	7681	7467	4619
15	1943 Regional Report Surplus Deficit	3506	2453	3678	4105	3463	3569	5660	6835	7710	14473	13719	11469	11752	6602	6809
16	1944 Regional Report Surplus Deficit	4068	3655	3398	3578	3643	1512	693	1457	2372	2560	4930	3823	960	2369	2623
17	1945 Regional Report Surplus Deficit	917	563	1750	3428	3062	735	-98.1	864	1814	2785	-443	9421	9440	2420	2902
18	1946 Regional Report Surplus Deficit	2659	1906	3038	3696	3403	4415	4863	4859	6319	11258	12461	11804	10177	7446	6179
19	1947 Regional Report Surplus Deficit	4929	4037	3174	3785	4628	8772	7955	8866	9602	9359	7939	10688	10366	7323	7351
20	1948 Regional Report Surplus Deficit	4397	2522	3011	8494	7308	5767	8431	6576	5663	8881	10725	12618	12449	8831	7703
21	1949 Regional Report Surplus Deficit	6073	6597	4685	4550	4282	3215	3884	3458	8926	10774	11203	12164	10299	3082	6333
22	1950 Regional Report Surplus Deficit	1745	1024	2487	3875	3951	3571	8083	8889	10470	12645	10463	11268	11575	8687	7131
23	1951 Regional Report Surplus Deficit	6756	6308	3761	6279	8474	9731	11120	12558	11477	12833	11778	11436	9499	8879	9319
24	1952 Regional Report Surplus Deficit	5813	5583	3844	7866	6105	6131	7247	6710	7878	12369	12936	13100	10862	6632	7898
25	1953 Regional Report Surplus Deficit	4004	2408	2724	3451	3093	1343	5253	4668	5351	7135	6331	11169	12527	8500	5667
26	1954 Regional Report Surplus Deficit	3665	3300	3449	4249	4828	5430	7530	8074	8226	10043	8538	11116	10909	10845	7280
27	1955 Regional Report Surplus Deficit	6993	7356	7671	4736	6253	4179	2520	2691	2679	6431	5167	8316	12073	10607	6236
28	1956 Regional Report Surplus Deficit	6058	4874	3127	5368	7600	9129	11142	10563	10199	12578	13292	12339	12724	9314	9146
29	1957 Regional Report Surplus Deficit	6001	5291	3550	4940	4253	5599	4805	3692	7424	12706	7952	13345	12862	6330	6914
30	1958 Regional Report Surplus Deficit	3924	2221	2740	4012	3933	2893	5546	5957	6689	9687	9226	12418	11107	5250	6080
31	1959 Regional Report Surplus Deficit	2169	2457	2724	4295	5612	7752	9965	9370	8631	10930	8468	10261	11426	7357	7436
32	1960 Regional Report Surplus Deficit	5716	6262	7934	10366	9350	7200	6544	5088	6665	14507	10826	9841	9582	6592	8159
33	1961 Regional Report Surplus Deficit	3956	2791	2613	4195	4534	3617	6029	7479	7997	10107	6115	10722	11429	5974	6324
34	1962 Regional Report Surplus Deficit	3794	2395	2764	3697	3862	2656	4720	5030	3117	13402	12499	10842	10467	3321	5524
35	1963 Regional Report Surplus Deficit	3374	2333	2890	4625	5895	6980	6287	6311	5782	6488	5940	9047	8376	6583	5984
36	1964 Regional Report Surplus Deficit	3664	2787	3308	3792	3820	3475	3557	3075	3486	10743	5968	10354	12802	10182	5793
37	1965 Regional Report Surplus Deficit	6044	5995	4592	5667	5334	9302	12351	12058	10695	8537	12679	11961	10343	7592	8863
38	1966 Regional Report Surplus Deficit	5891	5600	3132	4767	4720	4027	4412	3947	3744	12772	7843	8190	7521	6774	5612
39	1967 Regional Report Surplus Deficit	4165	2755	3222	3649	3494	4467	8534	8875	8957	7669	3252	9938	11875	8685	6705
40	1968 Regional Report Surplus Deficit	5109	4013	3305	4675	5018	4305	7308	6888	8264	5992	4510	6635	10768	7548	6204
41	1969 Regional Report Surplus Deficit	5215	4732	5707	6380	7437	6264	9867	10331	7786	12902	12201	12229	10371	7515	8429
42	1970 Regional Report Surplus Deficit	4644	3773	3116	4214	4263	2528	5594	5418	5746	7957	3961	9604	11476	5306	5613
43	1971 Regional Report Surplus Deficit	2291	1700	2949	3643	3923	3126	10665	12372	11464	12316	11405	12365	12184	10475	8052
44	1972 Regional Report Surplus Deficit	6826	6485	4411	5033	4782	4888	10157	11894	14649	14551	10293	12639	12833	10318	9207
45	1973 Regional Report Surplus Deficit	6891	6815	5366	4964	4493	4651	4965	3429	2558	1572	4038	6504	4013	3293	4504
46	1974 Regional Report Surplus Deficit	1686	686	2695	3762	3375	6692	13558	13622	12464	13537	12748	11556	11930	10981	8715
47	1975 Regional Report Surplus Deficit	6695	6807	4821	3875	4196	3617	5085	6504	6946	7140	6512	10995	12026	11015	6890
48	1976 Regional Report Surplus Deficit	6203	5492	4232	6596	8029	11210	9905	9974	10143	12960	11690	12387	10702	9747	9256
49	1977 Regional Report Surplus Deficit	7594	8159	8490	4799	3975	1384	529	1721	2093	2605	3678	3882	-531	2130	3299
50	1978 Regional Report Surplus Deficit	1128	414	1149	2674	2722	5613	4596	5126	6258	12208	8362	10964	7042	7591	5401
51	1979 Regional Report Surplus Deficit	3510	2695	4783	4800	4001	2604	3096	1658	6266	5884	6361	10816	4970	2366	4567
52	1980 Regional Report Surplus Deficit	894	920	2544	3836	3527	1437	2719	3205	2735	8190	9704	13070	10698	4149	4810
53	1981 Regional Report Surplus Deficit	2230	1314	3011	4023	4037	8143	7603	7602	6337	4135	6455	9384	11902	7828	6404
54	1982 Regional Report Surplus Deficit	5191	5617	3949	4124	4719	5411	7185	11931	12827	11389	9106	11958	11848	9156	8205

Regional Report Surplus Deficit By Water Year

Operating Year 2023

2013 White Book Report Date: **10/1/2013** *Continued*

S110-WB-20131023-150804

	Energy-aMW - Surplus Deficit	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
55	1983 Regional Report Surplus Deficit	6135	6484	5831	6062	5145	6279	8767	8856	11634	11018	7984	11424	10508	9436	8314
56	1984 Regional Report Surplus Deficit	6075	6643	3858	4668	8546	6034	7754	7885	8159	13052	10942	10883	12309	8787	8094
57	1985 Regional Report Surplus Deficit	6139	4637	3921	4792	5489	3891	3486	3704	4986	10014	9477	11531	6948	1037	5410
58	1986 Regional Report Surplus Deficit	209	229	2465	5465	6983	3811	5686	7498	13918	11924	10572	9422	10117	4804	6787
59	1987 Regional Report Surplus Deficit	3071	1857	2866	3743	4251	4133	3079	1522	6122	5457	5873	8824	5695	2726	4274
60	1988 Regional Report Surplus Deficit	679	276	2501	3343	2993	632	363	-515	2157	4261	5924	6387	3648	4375	2636
61	1989 Regional Report Surplus Deficit	1886	1131	2305	3339	3013	3213	888	1071	4320	10053	11721	10135	6656	2739	4180
62	1990 Regional Report Surplus Deficit	1593	1414	2757	3584	4783	4999	6557	6490	7001	8512	11732	9750	9997	6074	6123
63	1991 Regional Report Surplus Deficit	4418	3637	3395	3124	8220	6156	7373	8077	7794	10335	7451	10416	9785	9086	7183
64	1992 Regional Report Surplus Deficit	5679	5754	3267	3152	3875	1930	2101	1557	4957	3950	4107	5580	2119	1897	3363
65	1993 Regional Report Surplus Deficit	414	114	1803	3439	2986	1655	51.9	-849	3587	5439	6519	9741	7538	4429	3407
66	1994 Regional Report Surplus Deficit	3133	2336	2720	3384	3765	1799	203	874	2039	3445	5754	8123	5507	3616	3290
67	1995 Regional Report Surplus Deficit	1423	629	2578	3147	2598	2687	1652	7127	8646	7272	5166	8280	10443	5905	5002
68	1996 Regional Report Surplus Deficit	2973	2268	3103	5841	10093	12659	12868	13082	13863	12749	13689	11728	11731	9424	9998
69	1997 Regional Report Surplus Deficit	5762	5977	3275	4107	4903	6162	12650	13353	14345	12778	13547	12566	12810	10470	9450
70	1998 Regional Report Surplus Deficit	6583	6851	5935	9390	7141	5400	4719	5822	5674	6778	7352	12607	12139	6914	7468
71	1999 Regional Report Surplus Deficit	5022	3816	3107	3818	3649	5522	9859	10302	11569	10518	10164	11474	12664	10209	8064
72	2000 Regional Report Surplus Deficit	7031	7019	4627	4480	8635	7268	6018	6092	6506	12281	12357	9133	7709	6283	7171
73	2001 Regional Report Surplus Deficit	3863	1541	2585	3843	3457	1199	208	1022	2395	2774	4559	5033	-963	2253	2292
74	2002 Regional Report Surplus Deficit	651	228	749	2341	2362	2829	1641	1861	2976	8381	10173	7968	10745	8599	4319
75	2003 Regional Report Surplus Deficit	4496	2677	3073	2890	3464	1320	881	1052	6725	8044	6797	7979	9565	2170	4181
76	2004 Regional Report Surplus Deficit	335	82.2	2200	4015	3393	4119	1209	702	5110	6582	5786	8014	7409	2637	3780
77	2005 Regional Report Surplus Deficit	1163	1437	4311	4310	4011	4503	4011	4091	3188	3933	5069	8816	7340	3325	4473
78	2006 Regional Report Surplus Deficit	2342	1194	2857	3486	3286	3436	7182	6831	7021	13097	12174	12367	10583	4927	6348
79	2007 Regional Report Surplus Deficit	3324	814	2734	2706	5027	4103	5878	3772	10208	9898	7765	9507	6810	6002	5646
80	2008 Regional Report Surplus Deficit	2240	952	2029	3728	2976	2781	2252	2598	3505	6587	3435	11679	12858	7594	4892
Ranked Averages																
81	**Bottom 10 pct**	**2000**	**1287**	**2518**	**3576**	**3303**	**1349**	**40.2**	**515**	**1936**	**3438**	**3528**	**6098**	**3075**	**3125**	**2565**
82	**Middle 80 pct**	**3753**	**3135**	**3396**	**4365**	**4598**	**4196**	**4917**	**5140**	**6510**	**8893**	**8177**	**10104**	**9376**	**6172**	**5895**
83	**Top 10 pct**	**5288**	**4761**	**3650**	**5332**	**6574**	**8722**	**11719**	**12138**	**12229**	**12565**	**12464**	**12076**	**11571**	**9591**	**9244**

THIS PAGE INTENTIONALLY LEFT BLANK

BONNEVILLE POWER ADMINISTRATION
DOE/BP-4558 ▪ October 2013