

2018 Pacific Northwest Loads and Resources Study

Technical Appendix, Volume 1: Energy Analysis

April 2019



2018 PACIFIC NORTHWEST LOADS AND RESOURCES STUDY
The White Book

TECHNICAL APPENDIX

Volume 1

Energy Analysis

BONNEVILLE POWER ADMINISTRATION
April 2019

Cover Picture:

Palisades Dam is an earth-fill dam on the Snake River in Bonneville County, Idaho, owned and operated by the Bureau of Reclamation. The dam was completed in 1957 and provides irrigation water, flood control, hydropower, and recreation; it features a four-turbine hydroelectric power plant with a nameplate capacity of 176 MW.

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:

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Exhibit 1
Federal Report Surplus Deficit

Annual Energy
Operating Year 2020 to 2029
Using 1937-Water Conditions

Loads and Resources - Federal System
Operating Year: 2020 to 2029 Water Year: 1937
2018 White Book Report Date: 12/1/2018

S166-WB-20190220-091000

Energy-aMW	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Firm Obligations										
1 Load Following	3447	3445	3485	3513	3523	3541	3558	3573	3583	3596
2 Preference Customers	3146	3136	3171	3199	3209	3225	3242	3256	3266	3278
3 Federal Agencies	123	130	135	135	135	137	137	138	138	139
4 USBR	179	179	179	179	179	179	179	179	179	179
5 Federal Diversity	0	0	0	0	0	0	0	0	0	0
6 Tier 1 Block	578	587	588	581	568	565	564	564	563	563
7 Tier 1 Block	578	587	588	581	568	565	564	564	563	563
8 Slice	2871	2866	2939	2944	2944	2935	2938	2929	2931	2921
9 Slice Block	1289	1314	1404	1442	1417	1437	1414	1434	1412	1427
10 Slice Output from T1 System	1582	1552	1535	1503	1528	1498	1524	1495	1519	1493
11 Direct Service Industries	18.4	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
12 Direct Service Industry	18.4	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
13 Contract Deliveries	635	620	660	660	660	676	560	476	476	476
14 Exports	539	471	450	450	450	465	465	465	465	465
15 Intra-Regional Transfers (Out)	96.4	149	211	211	211	211	94.6	10.7	10.7	10.7
16 Firm Surplus Sale	0	0	0	0	0	0	0	0	0	0
17 Total Firm Obligations	7550	7530	7685	7711	7708	7729	7632	7553	7565	7567
Net Resources										
18 Hydro	6396	6325	6324	6324	6319	6323	6321	6323	6319	6323
19 Regulated Hydro - Net	6044	5973	5971	5972	5967	5971	5969	5971	5967	5971
20 Independent Hydro - Net	349	349	349	349	349	349	349	349	349	349
21 Small Hydro - Net	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88
22 Non-Hydro Renewable	57.9	54.6	52.1	38.4	35.2	33.0	33.0	19.8	1.90	0
23 Wind - Net	57.9	54.6	52.1	38.4	35.2	33.0	33.0	19.8	1.90	0
24 Solar - Net	0	0	0	0	0	0	0	0	0	0
25 Other - Net	0	0	0	0	0	0	0	0	0	0
26 Thermal	1116	994	1116	994	1116	994	1116	994	1116	994
27 Nuclear - Net	1116	994	1116	994	1116	994	1116	994	1116	994
28 Coal - Net	0	0	0	0	0	0	0	0	0	0
29 Natural Gas - Net	0	0	0	0	0	0	0	0	0	0
30 Petroleum - Net	0	0	0	0	0	0	0	0	0	0
31 Biofuel - Net	0	0	0	0	0	0	0	0	0	0
32 Cogeneration - Net	0	0	0	0	0	0	0	0	0	0
33 Contract Purchases	294	263	166	166	167	166	167	166	166	166
34 Imports	90.0	84.5	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
35 Intra-Regional Transfers (In)	37.6	12.4	0	0	0	0	0	0	0	0
36 Non-Federal CER	137	137	136	137	137	137	137	137	136	137
37 Slice Transmission Loss Return	30.1	29.5	29.2	28.6	29.1	28.5	29.0	28.4	28.9	28.4
38 Augmentation Purchases	0	0	0	0	0	0	0	0	0	0
39 Reserves & Losses	-235	-229	-229	-225	-229	-225	-229	-225	-228	-224
40 Operating Reserves	0	0	0	0	0	0	0	0	0	0
41 Balancing Reserves	0	0	0	0	0	0	0	0	0	0

Loads and Resources - Federal System
Operating Year: 2020 to 2029 Water Year: 1937
2018 White Book Report Date: 12/1/2018 *Continued*

S166-WB-20190220-091000

Energy-aMW	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
⁴² Transmission Losses	-235	-229	-229	-225	-229	-225	-229	-225	-228	-224
⁴³ Total Net Resources	7629	7407	7429	7297	7408	7291	7408	7278	7375	7258
⁴⁴ Total Surplus/Deficit	79	-123	-256	-414	-300	-438	-224	-275	-190	-308

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Exhibit 2
Regional Report Surplus Deficit

Annual Energy
Operating Year 2020 to 2029
Using 1937-Water Conditions

Loads and Resources - Pacific Northwest Region

Operating Year: 2020 to 2029 Water Year: 1937

2018 White Book Report Date: 12/1/2018

S166-WB-20190220-091000

Energy-aMW	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Regional Loads										
1 Retail Loads	22696	22959	23361	23641	23739	23869	23978	24075	24128	24220
2 Federal Agency	133	139	145	145	145	147	147	148	148	149
3 USBR	179	179	179	179	179	179	179	179	179	179
4 Cooperative	2239	2362	2483	2574	2639	2670	2685	2699	2709	2726
5 Municipality	2629	2638	2659	2676	2683	2689	2695	2701	2706	2712
6 Public Utility District	4439	4498	4699	4817	4803	4832	4871	4900	4901	4910
7 Investor-Owned Utility	12672	12737	12790	12843	12884	12946	12995	13043	13079	13138
8 Marketer	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
9 Direct-Service Industry	401	401	401	401	401	401	401	401	401	401
10 Federal Diversity	0	0	0	0	0	0	0	0	0	0
11 Exports	1210	1143	1028	998	968	983	983	983	983	981
12 Canada	466	450	450	450	450	465	465	465	465	465
13 East Continental Divide	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
14 Inland Southwest	17.1	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6
15 Pacific Southwest	726	679	563	534	504	503	503	503	503	501
16 Other	0	0	0	0	0	0	0	0	0	0
17 Total Regional Loads	23906	24102	24388	24639	24707	24852	24961	25058	25110	25200
Regional Resources										
18 Hydro	11661	11540	11528	11528	11520	11527	11524	11527	11520	11527
19 Regulated Hydro - Net	10356	10259	10258	10257	10251	10257	10254	10257	10251	10257
20 Independent Hydro - Net	1059	1035	1024	1024	1023	1024	1024	1024	1023	1024
21 Small Hydro - Net	245	246	246	246	246	246	246	246	246	246
22 Non-Hydro Renewable	2089	2099	2098	2098	2098	2099	2098	2098	2096	2092
23 Wind - Net	1774	1782	1781	1781	1780	1781	1781	1781	1779	1775
24 Solar - Net	140	143	143	143	143	143	143	143	143	143
25 Other - Net	175	174	173	173	175	174	173	173	175	174
26 Thermal	14408	13778	13302	12870	13062	12854	12502	12235	12257	12162
27 Nuclear - Net	1116	994	1116	994	1116	994	1116	994	1116	994
28 Coal - Net	5063	4546	3958	3687	3751	3676	3201	3049	2955	2981
29 Natural Gas - Net	5869	5871	5870	5830	5827	5827	5825	5825	5827	5827
30 Petroleum - Net	0	0	0	0	0	0	0	0	0	0
31 Biofuel - Net	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7
32 Cogeneration - Net	2334	2341	2332	2334	2342	2332	2334	2341	2333	2334
33 Imports	662	660	580	584	588	591	595	599	603	607
34 Canada	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8
35 East of Continental Divide	0	0	0	0	0	0	0	0	0	0
36 Inland Southwest	487	491	494	498	502	506	509	513	517	521
37 Pacific Southwest	136	131	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
38 Other	0	0	0	0	0	0	0	0	0	0
39 Reserves & Losses	-856	-834	-817	-804	-810	-804	-794	-786	-786	-784
40 Operating Reserves	0	0	0	0	0	0	0	0	0	0
41 Balancing Reserves	0	0	0	0	0	0	0	0	0	0

Loads and Resources - Pacific Northwest Region
Operating Year: 2020 to 2029 Water Year: 1937
2018 White Book Report Date: 12/1/2018 *Continued*

S166-WB-20190220-091000

Energy-aMW	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
⁴² Transmission Losses	-856	-834	-817	-804	-810	-804	-794	-786	-786	-784
⁴³ Total Regional Resources	27964	27243	26691	26276	26457	26267	25926	25672	25689	25604
⁴⁴ Total Surplus/Deficit	4058	3141	2303	1637	1750	1416	965	614	579	403

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Exhibit 3
Regional Total Retail Loads

Annual Energy
Operating Year 2020 to 2029
Using 1937-Water Conditions

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Regional: Total Retail Loads
Operating Year 2020 to 2029
2018 White Book Report Date: 12/1/2018

S166-WB-20190220-091000

Energy-aMW	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Firm Loads										
1 Federal Agency	133	139	145	145	145	147	147	148	148	149
2 USBR	179	179	179	179	179	179	179	179	179	179
3 Cooperative	2239	2362	2483	2574	2639	2670	2685	2699	2709	2726
4 Municipality	2629	2638	2659	2676	2683	2689	2695	2701	2706	2712
5 Public Utility District	4428	4488	4688	4806	4792	4822	4860	4889	4890	4899
6 Investor-Owned Utility	12672	12737	12790	12843	12884	12946	12995	13043	13079	13138
7 Marketer	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
8 Direct-Service Industry	401	401	401	401	401	401	401	401	401	401
9 Total Firm Loads	22685	22948	23350	23630	23728	23858	23967	24065	24117	24209
Non-Firm Loads										
10 Public Utility District	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.8
11 Total Non-Firm Loads	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.8
Total Regional Loads (Firm+Non-Firm)										
12 Federal Agency	133	139	145	145	145	147	147	148	148	149
13 USBR	179	179	179	179	179	179	179	179	179	179
14 Cooperative	2239	2362	2483	2574	2639	2670	2685	2699	2709	2726
15 Municipality	2629	2638	2659	2676	2683	2689	2695	2701	2706	2712
16 Public Utility District	4439	4498	4699	4817	4803	4832	4871	4900	4901	4910
17 Investor-Owned Utility	12672	12737	12790	12843	12884	12946	12995	13043	13079	13138
18 Marketer	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
19 Direct-Service Industry	401	401	401	401	401	401	401	401	401	401
20 Total Loads	22696	22959	23361	23641	23739	23869	23978	24075	24128	24220

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Exhibit 4
Regional Exports

Annual Energy
Operating Year 2020 to 2029
Using 1937-Water Conditions

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Regional Exports
Operating Year 2020 to 2029
2018 White Book Report Date: 12/1/2018
S166-WB-20190220-091000

Energy-aMW	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Canada										
Contracts										
1 BPA-P to BCHP Trty CEA	456	439	439	439	439	454	454	454	454	454
2 BPA-P to BCHP NTSA Del	9.62	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7
3 Total Exports to CAN	466	450	450	450	450	465	465	465	465	465
East Continental Divide										
Contracts										
4 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
5 Total Exports to ECD	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Inland Southwest										
Contracts										
6 BPA-P to Other Entities	3.51	0	0	0	0	0	0	0	0	0
Transfer Services										
7 UAMP to UAMP TS PwrP	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6
8 Total Exports to ISW	17.1	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6
Pacific Southwest										
Contracts										
9 BPA-P to Other Entities	67.3	21.0	0	0	0	0	0	0	0	0
10 MCQC to BURB PwrS LTFirm	4.25	4.26	4.26	4.26	4.25	4.26	4.26	4.26	4.25	1.97
11 PSE to PG&E SNX Del	47.0	47.1	0	0	0	0	0	0	0	0
Transfer Services										
12 BURB to BURB TS PwrP	2.35	2.35	2.35	2.35	2.35	2.35	2.35	2.35	2.35	2.35
13 GLEN to GLEN TS PwrP	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6
14 LDWP to LDWP TS PwrP	101	101	101	101	85.0	83.8	83.8	83.8	83.8	83.8
15 MID to MID TS PwrP	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2
16 Other Entities to Other Entities	88.0	88.1	88.1	88.1	88.0	88.1	88.1	88.1	88.0	88.1
17 PG&E to PG&E TS PwrP	86.6	86.6	86.6	58.1	45.4	45.4	45.4	45.4	45.4	45.4
18 SCE to SCE TS PwrP	199	199	199	199	199	199	199	199	199	199
19 SMUD to SMUD TS PwrP	44.3	44.3	0	0	0	0	0	0	0	0
20 TID to TID TS PwrP	32.1	32.2	32.2	32.2	32.1	32.2	32.2	32.2	32.1	32.2
21 Intertie Losses	21	20	16	16	15	15	15	15	15	15
22 Total Exports to PSW	726	679	563	534	504	503	503	503	503	501
Total Exports										
23 Federal Entities	539	471	450	450	450	465	465	465	465	465
24 Investor Owned Utilities	363	363	316	287	274	275	275	275	274	275
25 Marketer	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	48.9
26 Municipality	239	239	194	194	179	177	177	177	177	177
27 Total Exports	1191	1124	1011	983	954	968	968	968	968	966

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Exhibit 5
Regional Imports

Annual Energy
Operating Year 2020 to 2029
Using 1937-Water Conditions

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Regional: Imports
Operating Year 2020 to 2029
2018 White Book Report Date: 12/1/2018

S166-WB-20190220-091000

Energy-aMW	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Canada										
Contracts										
1 BCHP to SCL PwrS LTFirm	35.5	35.4	35.4	35.4	35.5	35.4	35.4	35.4	35.5	35.4
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 Other Entities to PSE	2.35	2.35	2.35	2.35	2.35	2.35	2.35	2.35	2.35	2.35
4 Total Imports From CAN	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8
Inland Southwest										
Transfer Services										
5 RMP to RMP TS PwrP	487	491	494	498	502	506	509	513	517	521
6 Total Imports From ISW	487	491	494	498	502	506	509	513	517	521
Pacific Southwest										
Contracts										
7 Other Entities to Other Entities	89.0	83.5	0	0	0	0	0	0	0	0
8 PG&E to PSE SNX Ret	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
9 Total Imports From PSW	136	131	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
Total Imports										
10 Federal Entities	90.0	84.5	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
11 Investor Owned Utilities	537	540	544	548	551	555	559	562	566	570
12 Municipality	35.5	35.4	35.4	35.4	35.5	35.4	35.4	35.4	35.5	35.4
13 Total Imports	662	660	580	584	588	591	595	599	603	607

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Exhibit 6
Regional Intra-Regional Transfers

Annual Energy
Operating Year 2020 to 2029
Using 1937-Water Conditions

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Regional: Intra-Regional Transfers
Operating Year 2020 to 2029
2018 White Book Report Date: 12/1/2018

S166-WB-20190220-091000

Energy-aMW	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Intra-Regional Transfers										
Contracts	245	272	321	321	321	321	205	121	121	121
1 AVWP to BPA-P Setl WNP3 Rtn	0	0	0	0	0	0	0	0	0	0
2 AVWP to ESI PwrS LTFirm	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
4 BPA-P to BPA-T Ops IntrlAgmt	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44
5 BPA-P to Other Entities	81.4	21.0	0	0	0	0	0	0	0	0
6 BPA-P to PGE CapS Surp	0	58.1	100.0	100.0	100.0	100.0	41.9	0	0	0
	0	58.1	100.0	100.0	100.0	100.0	41.9	0	0	0
7 BPA-P to PPL NSP RIn	4.36	1.18	0	0	0	0	0	0	0	0
8 BPA-P to PSE Ops UBkr Repl	1.29	1.27	1.28	1.28	1.29	1.28	1.28	1.27	1.29	1.28
9 CIDF to RMP PwrS LTFirm	5.46	5.47	5.47	5.47	5.46	5.47	5.47	5.47	5.46	5.47
10 GCPD to PPL PwrS LTFirm	10.00	10.0	9.99	10.0	10.00	10.0	9.99	10.0	10.00	10.0
11 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
12 NWE to MVP PwrS LTFirm	9.65	9.66	9.66	9.66	9.65	9.66	9.66	9.66	9.65	9.66
13 Other Entities to BPA-P	33.2	11.7	0	0	0	0	0	0	0	0
14 Other Entities to COPD	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
15 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
16 PGE to PPL PwrS LTFirm	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99
17 PPL to BPA-P NSP SOut	4.36	0.73	0	0	0	0	0	0	0	0
18 SCL to POPD PwrS LTFirm	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4
19 Total Intra-Regional Transfers	245	272	321	321	321	321	205	121	121	121
Intra-Regional Contracts Out										
20 Federal Entities	96.4	149	211	211	211	211	94.6	10.7	10.7	10.7
21 Investor Owned Utilities	17.1	13.5	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8
22 Marketer	58.2	36.7	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
23 Municipality	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1
24 Public Utility District	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7
25 Total Regional Contracts Out	245	272	321	321	321	321	205	121	121	121
Intra-Regional Contracts In										
26 Federal Entities	56.6	31.5	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1
27 Investor Owned Utilities	22.1	135	218	218	218	218	102	17.7	17.7	17.7
28 Marketer	96.1	35.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
29 Municipality	3.33	3.33	3.33	3.33	3.33	3.33	3.33	3.33	3.33	3.33
30 Public Utility District	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4
31 Total Regional Contracts In	245	272	321	321	321	321	205	121	121	121

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Exhibit 7
BPA Sales to Preference and Legacy Customers

Annual Energy
Operating Year 2020 to 2029
Using 1937-Water Conditions

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BPA Sales to Preference and Legacy Customers
Operating Year: 2020 to 2029 Water Year: 1937
2018 White Book Report Date: 12/1/2018

S166-WB-20190220-091000

Energy-aMW	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Pacific Northwest										
1 DSI Obligation	18.4	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
2 Direct Service Industry	18.4	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
3 Load Following	3271	3269	3313	3342	3353	3371	3389	3405	3418	3431
4 Cooperative	1832	1821	1832	1842	1844	1853	1860	1866	1870	1880
5 Municipality	548	549	565	576	577	578	579	581	583	586
6 Public Utility District	769	769	780	789	797	802	813	821	827	826
7 Federal Entities	123	130	135	135	135	137	137	138	138	139
8 Slice Block	1289	1314	1404	1442	1417	1437	1414	1434	1412	1427
9 Municipality	312	313	316	322	317	322	317	322	317	320
10 Public Utility District	977	1002	1088	1119	1099	1115	1097	1112	1095	1107
11 Slice Output from T1 System	1582	1552	1535	1503	1528	1498	1524	1495	1519	1493
12 Municipality	374	368	364	356	362	355	361	355	360	354
13 Public Utility District	1208	1184	1171	1146	1165	1143	1163	1141	1159	1139
14 Tier 1 Block	578	587	588	581	568	565	564	564	563	563
15 Municipality	515	519	521	521	519	520	519	518	517	518
16 Public Utility District	63.1	67.8	67.5	60.2	48.7	45.7	45.4	45.6	45.7	45.4
17 Tier 2 - Short Term	2.62	3.89	6.43	7.82	8.32	9.36	10.7	11.9	13.1	14.4
18 Municipality	2.62	3.89	6.43	7.82	8.32	9.36	10.7	11.9	13.1	14.4
19 USBR Obligation	179	179	179	179	179	179	179	179	179	179
20 USBR	179	179	179	179	179	179	179	179	179	179
Total Power Sales Contracts										
21 Cooperative	1832	1821	1832	1842	1844	1853	1860	1866	1870	1880
22 Direct Service Industry	18.4	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
23 Federal Entities	123	130	135	135	135	137	137	138	138	139
24 Municipality	1751	1753	1772	1783	1784	1785	1787	1787	1790	1793
25 Public Utility District	3017	3023	3106	3115	3110	3106	3119	3119	3126	3118
26 USBR	179	179	179	179	179	179	179	179	179	179
27 Total Power Sales Contracts	6920	6918	7037	7066	7064	7072	7094	7101	7115	7120

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Exhibit 8
Regional Regulated Hydro

Annual Energy
Operating Year 2020 to 2029
Using 1937-Water Conditions

Regional: Regulated Hydro
Operating Year: 2020 to 2029 Water Year: 1937
2018 White Book Report Date: 12/1/2018

S166-WB-20190220-091000

Energy-aMW	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Regulated Hydro										
1 Albeni Falls Hydroelectric	21.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4
2 Alder Hydroelectric	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9
3 Bonneville	380	376	376	376	376	376	376	376	376	376
4 Boundary	335	334	334	334	333	334	334	334	333	334
5 Box Canyon Dam	52.8	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5
6 Brownlee	184	184	184	184	184	184	184	184	184	184
7 Cabinet Gorge	88.3	88.5	88.5	88.5	88.4	88.5	88.5	88.5	88.4	88.5
8 Chelan Lake	36.0	35.5	35.5	35.5	35.6	35.5	35.5	35.5	35.6	35.5
9 Chief Joseph	1125	1112	1112	1112	1111	1112	1112	1112	1111	1112
10 Cushman 1	8.53	6.98	6.98	6.98	6.98	6.98	6.98	6.98	6.98	6.98
11 Cushman 2	13.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7
12 Diablo	78.1	79.1	79.1	79.1	79.2	79.1	79.1	79.1	79.2	79.1
13 Dworshak	140	139	139	139	138	139	139	139	138	139
14 Faraday	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
15 Gorge	94.3	95.3	95.3	95.3	95.4	95.3	95.3	95.3	95.4	95.3
16 Grand Coulee	1972	1947	1947	1947	1946	1947	1947	1947	1946	1947
17 Hells Canyon	149	149	149	149	149	149	149	149	149	149
18 Hungry Horse	74.2	74.1	74.1	74.1	74.2	74.1	74.1	74.1	74.2	74.1
19 Ice Harbor	111	109	109	109	109	109	109	109	109	109
20 John Day	694	688	688	688	688	688	688	688	688	688
21 Kerr	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
22 La Grande	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1
23 Libby	182	177	177	177	177	177	177	177	177	177
24 Little Falls	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5
25 Little Goose	130	129	128	129	126	128	126	128	126	128
26 Long Lake	44.0	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1
27 Lower Baker	34.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5
28 Lower Granite	111	109	109	109	109	109	109	109	109	109
29 Lower Monumental	145	140	140	140	140	140	140	140	140	140
30 Mayfield	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
31 McNary	413	409	409	409	410	409	409	409	410	409
32 Merwin	51.4	51.9	51.9	51.9	51.8	51.9	51.9	51.9	51.8	51.9
33 Monroe Street	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
34 Mossyrock	97.4	97.5	97.5	97.5	97.4	97.5	97.5	97.5	97.4	97.5
35 Nine Mile	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7
36 North Fork	20.1	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2
37 Noxon Rapids	125	125	125	125	125	125	125	125	125	125
38 Oak Grove	24.1	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6
39 Oxbow	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5
40 Pelton	40.9	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0
41 Pelton Rereq	8.34	8.40	8.40	8.40	8.40	8.40	8.40	8.40	8.40	8.40
42 Post Falls	7.28	7.29	7.29	7.29	7.28	7.29	7.29	7.29	7.28	7.29
43 Priest Rapids	415	408	408	408	408	408	408	408	408	408
44 River Mill	10.4	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
45 Rock Island	319	316	316	316	316	316	316	316	316	316
46 Rocky Reach	597	590	590	590	590	590	590	590	590	590
47 Ross	72.0	73.0	73.0	73.0	73.2	73.0	73.0	73.0	73.2	73.0
48 Round Butte	86.5	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6
49 Swift 1	59.2	60.8	60.8	60.8	60.7	60.8	60.8	60.8	60.7	60.8
50 Swift 2	21.4	21.9	21.9	21.9	21.8	21.9	21.9	21.9	21.8	21.9
51 The Dalles	545	540	540	540	540	540	540	540	540	540
52 Thompson Falls	48.2	48.3	48.3	48.3	48.2	48.3	48.3	48.3	48.2	48.3
53 Upper Baker	30.2	30.7	30.7	30.7	30.6	30.7	30.7	30.7	30.6	30.7
54 Upper Falls	7.77	7.78	7.78	7.78	7.77	7.78	7.78	7.78	7.77	7.78
55 Wanapum	389	382	382	382	381	382	381	382	381	382
56 Wells	357	353	353	353	353	353	353	353	353	353
57 Yale	55.5	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8

Regional: Regulated Hydro
Operating Year: 2020 to 2029 Water Year: 1937
2018 White Book Report Date: 12/1/2018 *Continued*

S166-WB-20190220-091000

Energy-aMW	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Total Regulated Hydro										
58 Federal Entities	6044	5973	5971	5972	5967	5971	5969	5971	5967	5971
59 Investor Owned Utilities	1719	1718	1718	1718	1717	1718	1718	1718	1717	1656
60 Marketer	546	521	495	423	385	385	385	385	385	385
61 Municipality	892	889	889	889	889	889	889	889	889	889
62 Public Utility District	1154	1158	1185	1256	1293	1294	1294	1294	1293	1356
63 Total Regulated Hydro	10356	10259	10258	10257	10251	10257	10254	10257	10251	10257

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Exhibit 9
Regional Independent Hydro

Annual Energy
Operating Year 2020 to 2029
Using 1937-Water Conditions

Regional: Independent Hydro
Operating Year: 2020 to 2029 Water Year: 1937
2018 White Book Report Date: 12/1/2018

S166-WB-20190220-091000

Energy-aMW	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Independent Hydro										
1 American Falls Hydroelectric	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	9.86	9.88	9.88	9.88	9.86	9.88	9.88	9.88	9.86	9.88
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	35.0	35.1	35.1	35.1	35.0	35.1	35.1	35.1	35.0	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	5.61	5.60	5.60	5.60	5.61	5.60	5.60	5.60	5.61	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	18.9	19.0	19.0	19.0	18.9	19.0	19.0	19.0	18.9	19.0
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	41.2	41.3	41.3	41.3	41.2	41.3	41.3	41.3	41.2	41.3
21 Dexter	9.21	9.22	9.22	9.22	9.21	9.22	9.22	9.22	9.21	9.22
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	3.83	3.84	3.84	3.84	3.83	3.84	3.84	3.84	3.83	3.84
25 Foster	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3
26 Gem State Hydro	8.30	8.28	8.28	8.28	8.30	8.28	8.28	8.28	8.30	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	27.3	27.4	27.4	27.4	27.3	27.4	27.4	27.4	27.3	27.4
29 Green Springs	7.32	7.32	7.32	7.32	7.32	7.32	7.32	7.32	7.32	7.32
30 Henry M Jackson	42.9	43.0	43.0	43.0	42.9	43.0	43.0	43.0	42.9	43.0
31 Hills Creek	17.7	17.8	17.8	17.8	17.7	17.8	17.8	17.8	17.7	17.8
32 Hood Street	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32
33 Idaho Falls - City Plant	4.14	4.14	4.14	4.14	4.14	4.14	4.14	4.14	4.14	4.14
34 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
35 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
36 Idaho Falls - Upper Plant	4.14	4.14	4.14	4.14	4.14	4.14	4.14	4.14	4.14	4.14
37 Island Park	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30
38 John Boyle	36.0	10.6	0	0	0	0	0	0	0	0
39 Lake Creek (MT)	2.79	2.79	2.79	2.79	2.79	2.79	2.79	2.79	2.79	2.79
40 Last Chance	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
41 Leaburg	7.44	7.43	7.43	7.43	7.44	7.43	7.43	7.43	7.44	7.43
42 Lookout Point	35.6	35.7	35.7	35.7	35.6	35.7	35.7	35.7	35.6	35.7
43 Lost Creek	30.0	30.1	30.1	30.1	30.0	30.1	30.1	30.1	30.0	30.1
44 Lower Malad	9.63	9.63	9.63	9.63	9.63	9.63	9.63	9.63	9.63	9.63
45 Lower Salmon Falls	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0
46 McNary Fishway	8.44	8.45	8.45	8.45	8.44	8.45	8.45	8.45	8.44	8.45
47 Mill Creek (WA)	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
48 Milner Hydro	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8
49 Minidoka	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2
50 Moyie River	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88
51 Newhalem	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63
52 North Umpqua	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7
53 Oneida	6.30	6.30	6.30	6.30	6.30	6.30	6.30	6.30	6.30	6.30
54 Packwood Lake	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9
55 Palisades	69.0	69.2	69.2	69.2	69.0	69.2	69.2	69.2	69.0	69.2
56 Paris	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
57 Powerdale	0	0	0	0	0	0	0	0	0	0
58 Reeder Gulch	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17

Regional: Independent Hydro
Operating Year: 2020 to 2029 Water Year: 1937
2018 White Book Report Date: 12/1/2018 *Continued*

S166-WB-20190220-091000

Energy-aMW	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
59 Roque	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8
60 Roza	6.87	6.88	6.88	6.88	6.87	6.88	6.88	6.88	6.87	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)	6.97	6.99	6.99	6.99	6.97	6.99	6.99	6.99	6.97	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 Point	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
65 South Fork Tolt	6.54	6.55	6.55	6.55	6.54	6.55	6.55	6.55	6.54	6.55
66 Stone Creek	6.21	6.22	6.22	6.22	6.21	6.22	6.22	6.22	6.21	6.22
67 Swan Falls	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7
68 Swift Creek Hydro	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87
69 The Dalles North Fishway	4.45	4.46	4.46	4.46	4.45	4.46	4.46	4.46	4.45	4.46
70 Thousand Springs	6.27	6.28	6.28	6.28	6.27	6.28	6.28	6.28	6.27	6.28
71 Trail Bridge	3.68	3.68	3.68	3.68	3.68	3.68	3.68	3.68	3.68	3.68
72 TW Sullivan	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1
73 Twin Falls (ID)	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6
74 Upper Malad	5.92	5.92	5.92	5.92	5.92	5.92	5.92	5.92	5.92	5.92
75 Upper Salmon A	8.41	8.41	8.41	8.41	8.41	8.41	8.41	8.41	8.41	8.41
76 Upper Salmon B	7.71	7.71	7.71	7.71	7.71	7.71	7.71	7.71	7.71	7.71
77 Wallowa Falls	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51
78 Walterville	5.73	5.72	5.72	5.72	5.73	5.72	5.72	5.72	5.73	5.72
79 Wynoochee Dam	3.39	3.38	3.38	3.38	3.39	3.38	3.38	3.38	3.39	3.38
80 Yelm	7.21	7.22	7.22	7.22	7.21	7.22	7.22	7.22	7.21	7.22
Total Independent Hydro	5.95	5.96	5.96	5.96	5.95	5.96	5.96	5.96	5.95	5.96
81 Cooperative	349	349	349	349	349	349	349	349	349	349
82 Federal Entities	536	511	501	501	500	501	501	501	500	501
83 Investor Owned Utilities	6.97	6.99	6.99	6.99	6.97	6.99	6.99	6.99	6.97	6.99
84 Marketer	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5
85 Municipality	73.9	74.0	74.0	74.0	73.9	74.0	74.0	74.0	73.9	74.0
86 Public Utility District	1059	1035	1024	1024	1023	1024	1024	1024	1023	1024
87 Total Independent Hydro										

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Exhibit 10
Regional Small Hydro

Annual Energy
Operating Year 2020 to 2029
Using 1937-Water Conditions

Regional: Small Hydro
Operating Year: 2020 to 2029 Water Year: 1937
2018 White Book Report Date: 12/1/2018

S166-WB-20190220-091000

Energy-aMW	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Small Hydro										
1 Albany-Millersburg Hydroelectric	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 Biqq'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	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21
13 Birch Creek (Gooding, ID)	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
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	2.96	2.96	2.96	2.96	2.96	2.96	2.96	2.96	2.96	2.96
16 Blind Canyon	0.56	0.57	0.57	0.57	0.56	0.57	0.57	0.57	0.56	0.57
17 Box Canyon Springs	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
18 Briqqs Creek	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
19 Briqqs Project	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
20 Broadwater	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01
21 Buffalo Hydro	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
22 Burr & Bouchard	0	0	0	0	0	0	0	0	0	0
23 Burton Creek	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
24 Bypass	3.18	3.81	3.81	3.81	3.80	3.81	3.81	3.81	3.80	3.81
25 Calligan Creek	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
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 C-Drop Hydro	0.40	0.41	0.41	0.41	0.40	0.41	0.41	0.41	0.40	0.41
31 Cedar Draw Creek	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71
32 Central Oregon Siphon	3.06	3.06	3.06	3.06	3.06	3.06	3.06	3.06	3.06	3.06
33 Cereghino	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55
34 Chester Hydroelectric Plant	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54
35 Clear Springs Trout	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44
36 Company Creek	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
37 Cornelius	0	0	0	0	0	0	0	0	0	0
38 Cowiche	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43
39 Crystal Springs	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07
40 Curry Cattle Co.	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
41 Curtiss Livestock	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
42 Cushman North Fork	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25
43 D. Wiggins	0	0	0	0	0	0	0	0	0	0
44 Deep Creek	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
45 Denny Creek	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
46 Dietrich Drop	2.47	2.48	2.48	2.48	2.47	2.48	2.48	2.48	2.47	2.48
47 Donald Jenni	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
48 Dry Creek	0.82	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85
49 Dworshak-Clearwater Hatchery	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63
50 Ebey Hill (Kevin Duncan)	0	0	0	0	0	0	0	0	0	0
51 Elk Creek	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59
52 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
53 Esquatzel Small Hydro	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72
54 Falls Creek (Or)	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95
55 Falls Creek (Wa)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
56 Falls River Hydro	5.88	5.88	5.88	5.88	5.88	5.88	5.88	5.88	5.88	5.88
57 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
58 Farmers Irr Dist Proj No 3	0.90	0.89	0.89	0.89	0.90	0.89	0.89	0.89	0.90	0.89

Regional: Small Hydro
Operating Year: 2020 to 2029 Water Year: 1937
2018 White Book Report Date: 12/1/2018 *Continued*

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Energy-aMW	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
59 Faulkner Ranch	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
60 Fisheries Development #1	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
61 Flying W	0	0	0	0	0	0	0	0	0	0
62 Ford	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49
63 Forgy	0	0	0	0	0	0	0	0	0	0
64 Galesville	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32
65 Geo-Bon #2	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54
66 Georgetown	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
67 Gillihan	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
68 Ground Water Pumping Station	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
69 Hailey	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
70 Hancock Creek	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
71 Hazelton A	3.23	3.24	3.24	3.24	3.23	3.24	3.24	3.24	3.23	3.24
72 Hazelton B	3.02	3.03	3.03	3.03	3.02	3.03	3.03	3.03	3.02	3.03
73 Hettinger	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
74 Horseshoe Bend	6.56	6.56	6.56	6.56	6.56	6.56	6.56	6.56	6.56	6.56
75 Hutchinson Creek	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
76 James Boyd	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
77 James White	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
78 Jim Knight	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
79 John Day Creek	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
80 Juniper Ridge Hydro	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47
81 Kasel-Witherspoon	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53
82 Kaster Riverview	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
83 Koma Kulshan	4.78	4.78	4.78	4.78	4.78	4.78	4.78	4.78	4.78	4.78
84 Koyle Ranch Power	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73
85 L & M Angus Ranch	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37
86 Lacombe	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54
87 Lake Creek (OR)	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
88 Lake Oswego	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
89 Lateral #10	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35
90 Le Moyne	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
91 Lee Tavener	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
92 Lilliwaup Falls	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69
93 Little Butte Ranch	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
94 Little Mac	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
95 Little Wood River Ranch	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46
96 Little Wood River Reservoir	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
97 Low line Canal Drop	5.33	5.35	5.35	5.35	5.33	5.35	5.35	5.35	5.33	5.35
98 Low Line Midway	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
99 Lower Low line	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80
100 Loyd F. Fery Farms	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
101 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
102 Lucky Peak	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7
103 Macks Creek	0	0	0	0	0	0	0	0	0	0
104 Magic Dam	3.55	3.56	3.56	3.56	3.55	3.56	3.56	3.56	3.55	3.56
105 Main Canal Headworks	9.80	9.82	9.82	9.82	9.80	9.82	9.82	9.82	9.80	9.82
106 Marsh Valley	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44
107 Meyers Falls	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72
108 Meyers Falls 1910	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
109 Middle Fork Irrigation District	2.16	2.15	2.15	2.15	2.16	2.15	2.15	2.15	2.16	2.15
110 Mile 28	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66
111 Mill Creek (Cove Hydro)	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
112 Minikahda	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
113 Mink Creek	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
114 Mitchell Butte	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
115 Mora Drop	1.42	1.42	1.42	1.42	1.42	1.42	1.42	1.42	1.42	1.42
116 Morse Creek	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
117 Mt. Tabor	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08

Regional: Small Hydro
Operating Year: 2020 to 2029 Water Year: 1937
2018 White Book Report Date: 12/1/2018 *Continued*

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Energy-aMW	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
118 Mud Creek	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55
119 N-32 Canal	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85
120 Nichols Gap	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
121 Nicholson	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
122 North Fork Sprague	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
123 North Gooding Main	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71
124 O. J. Power Company	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
125 Odell Creek	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
126 Opal Springs	2.95	2.95	2.95	2.95	2.95	2.95	2.95	2.95	2.95	2.95
127 Orchard Avenue	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
128 Owyhee Dam	1.81	1.82	1.82	1.82	1.81	1.82	1.82	1.82	1.81	1.82
129 Owyhee Tunnel No 1	2.71	2.72	2.72	2.72	2.71	2.72	2.72	2.72	2.71	2.72
130 Pancheri	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
131 PEC Headworks	2.82	2.83	2.83	2.83	2.82	2.83	2.83	2.83	2.82	2.83
132 Phillips Ranch	0	0	0	0	0	0	0	0	0	0
133 Phillipsburg	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
134 Pine Creek	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
135 Poderosa	0.28	0.29	0.29	0.29	0.28	0.29	0.29	0.29	0.28	0.29
136 Port Townsend Mill	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
137 Portland Hydro Project	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
138 Portneuf River	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
139 Potholes East Canal	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09
140 Preston	0.36	0.35	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
141 Pristine Springs	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32
142 Quincy Chute	3.70	3.71	3.71	3.71	3.70	3.71	3.71	3.71	3.70	3.71
143 Ravenscroft Ranch	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35
144 Reynolds Irrigation District	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
145 Rock Creek #1	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30
146 Rock Creek No 2	1.60	1.61	1.61	1.61	1.60	1.61	1.61	1.61	1.60	1.61
147 Rocky Brook	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
148 Russell D. Smith	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84
149 Sagebrush	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
150 Sahko	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
151 Schaffner	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
152 Shingle Creek	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
153 Shoshone	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47
154 Skookumchuck	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47
155 Smith Creek (Washington)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
156 Snake River Pottery	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
157 Snedigar Ranch	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
158 South Dry Creek	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34
159 Spencer Lake Hydro	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
160 Spring Creek	0	0	0	0	0	0	0	0	0	0
161 Stayton Hydro	0	0	0	0	0	0	0	0	0	0
162 Stevenson #1	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
163 Stevenson #2	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
164 Strawberry Creek (MT)	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
165 Summer Falls	37.1	37.2	37.2	37.2	37.1	37.2	37.2	37.2	37.1	37.2
166 Sunshine	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
167 Sygitowicz Creek	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
168 Thompson's Mills	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
169 Tiber Dam	3.23	3.24	3.24	3.24	3.23	3.24	3.24	3.24	3.23	3.24
170 Tieton Dam (Yakima)	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
171 Trinity	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
172 Twin Falls (WA)	9.09	9.10	9.10	9.10	9.09	9.10	9.10	9.10	9.09	9.10
173 Upper Pine Creek	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
174 Upriver Dam	9.73	9.73	9.73	9.73	9.73	9.73	9.73	9.73	9.73	9.73
175 Walla Walla	1.42	1.42	1.42	1.42	1.42	1.42	1.42	1.42	1.42	1.42
176 Water Street	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12

Regional: Small Hydro
Operating Year: 2020 to 2029 Water Year: 1937
2018 White Book Report Date: 12/1/2018 *Continued*

S166-WB-20190220-091000

Energy-aMW	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
177 Watson Hydro	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34
178 Weeks Falls	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55	1.55
179 White Ranch	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
180 White Water Ranch	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
181 Wilson Lake	3.13	3.14	3.14	3.14	3.13	3.14	3.14	3.14	3.13	3.14
182 Wisconsin Noble	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
183 Wolf Creek	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
184 Woods Creek	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
185 Yakama Drop 2	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
186 Yakama Drop 3	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
187 Youngs Creek	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22
188 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										
189 Cooperative	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19
190 Direct Service Industry	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
191 Federal Entities	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88
192 Investor Owned Utilities	148	148	148	148	148	148	148	148	148	148
193 Marketer	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
194 Municipality	76.9	77.1	77.1	77.1	76.9	77.1	77.1	77.1	76.9	77.1
195 Public Utility District	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3
196 Total Small Hydro	245	246	246	246	246	246	246	246	246	246

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Exhibit 11
Regional Non-Hydro Renewable - Wind

Annual Energy
Operating Year 2020 to 2029

Regional: Non-Hydro Renewable - Wind
Operating Year: 2020 to 2029 Water Year: 1937
2018 White Book Report Date: 12/1/2018
S166-WB-20190220-091000

Energy-aMW	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Non-Hydro Renewable - Wind										
1 3 Bar G Wind	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
2 Bennett Creek Wind	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
3 Benson Creek Wind	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
4 Big Horn Wind	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
5 Biglow Canyon Wind	105.8	105.9	105.9	105.9	105.8	105.9	105.9	105.9	105.8	105.9
6 Burley Butte Wind	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
7 Camp Reed Wind	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
8 Cassia Farms Wind	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
9 Cassia Gulch Wind	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
10 Chopin Wind	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
11 Cold Springs Wind	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
12 Combine Hills Wind	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5
13 Condon Wind	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7
14 Deep Creek Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15 Desert Meadow Windfarm	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
16 Durbin Creek Wind	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
17 Echo Wind Farm	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2
18 Elkhorn Valley Wind Project	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7
19 Foote Creek 1 Wind	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7
20 Foote Creek 2 Wind	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
21 Foote Creek 4 Wind	4.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22 Fossil Gulch Wind Project	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
23 Golden Valley Wind	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
24 Goodnoe Hills Wind	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1
25 Goshen North (Ridgeline Wind)	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3
26 Grayland Wind	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
27 Hammett Hill Wind	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
28 Harvest Wind	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3
29 Hay Canyon Wind	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7
30 Healow 2 Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31 High Mesa Wind	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4
32 Hopkins Ridge Wind	36.8	36.9	36.9	36.9	36.8	36.9	36.9	36.9	36.8	36.9
33 Horse Butte Wind	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6
34 Horseshoe Bend Wind Project	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
35 Hot Springs Wind	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
36 Jett Creek Wind	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
37 Josef Stauffer - Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
38 Juniper Canyon Wind	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6
39 Kittitas Valley Wind	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7
40 Klondike Wind 1	5.6	5.7	5.7	5.7	5.6	5.7	5.7	5.7	5.6	5.7
41 Klondike Wind 2	17.6	17.7	17.7	17.7	17.6	17.7	17.7	17.7	17.6	17.7
42 Klondike Wind 3	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.6	52.6
43 Klondike Wind 3a	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
44 Knudson Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45 Leaning Juniper Wind	71.0	71.1	71.1	71.1	71.0	71.1	71.1	71.1	71.0	71.1
46 Lewandowski Farms Wind	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
47 Lime Wind	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
48 Linden Ranch Wind	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8
49 Livingston Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50 Lower Snake Wind	143.4	143.5	143.5	143.5	143.4	143.5	143.5	143.5	143.4	143.5
51 Mainline Wind	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
52 Marengo Wind	49.5	49.6	49.6	49.6	49.5	49.6	49.6	49.6	49.5	49.6
53 Meadow Creek Wind	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2
54 Milner Dam Wind Farm	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
55 Montague	38.0	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7
56 Nine Canyon Wind	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6
57 Oregon Trail Wind	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
58 Palouse Wind	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6
59 PaTu Wind	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
60 Paynes Ferry Wind Park	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
61 Pebble Springs Wind	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2
62 Pilgrim Stage Station Wind Park	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
63 Power County Wind	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6
64 Prospector Wind	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
65 Rattlesnake Road Wind Farm	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2

Regional: Non-Hydro Renewable - Wind
Operating Year: 2020 to 2029 Water Year: 1937
2018 White Book Report Date: 12/1/2018
S166-WB-20190220-091000

Energy-aMW	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Non-Hydro Renewable - Wind										
66 Rock River Wind	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8
67 Rockland wind	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6
68 Ryegrass Wind	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
69 Salmon Falls Wind	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
70 Sawtooth Wind	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
71 Shepherds Flat Wind	198.8	198.9	198.9	198.9	198.8	198.9	198.9	198.9	198.8	198.9
72 Star Point Wind	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2
73 Stateline Wind	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7
74 Swauk Wind	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
75 Thousand Springs Wind Park	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
76 Threemile Canyon Wind	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
77 Tuana Gulch Wind	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
78 Tuana Springs Wind	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
79 Two Ponds Wind	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
80 Vansycle Wind	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2
81 Vantage Wind	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2
82 Wheat Field Wind	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7
83 White Creek Wind	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	45.6	40.5
84 Wild Horse Wind	64.1	64.2	64.2	64.2	64.1	64.2	64.2	64.2	64.1	64.2
85 Willow Creek Wind	16.9	17.0	17.0	17.0	16.9	17.0	17.0	17.0	16.9	17.0
86 Willow Spring Wind Farm	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
87 Windy Point Wind	93.8	93.9	93.9	93.9	93.8	93.9	93.9	93.9	93.8	93.9
88 Wolverine Creek Wind	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2
89 Yahoo Creek Wind	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
90 Total Non-Hydro Renewable - Wind	1774	1782	1781	1781	1780	1781	1781	1781	1779	1775

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Exhibit 12
Regional Non-Hydro Renewable - Solar

Annual Energy
Operating Year 2020 to 2029

Regional: Non-Hydro Renewable - Solar
Operating Year: 2020 to 2029 Water Year: 1937
2018 White Book Report Date: 12/1/2018
S166-WB-20190220-091000

Energy-aMW	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Non-Hydro Renewable - Solar										
1 Adams Nielson Solar, LLC	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
2 Adams Solar Center	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
3 Agate Bay Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
4 American Falls Solar	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9
5 Arlington Community Solar	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
6 Avista Community Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
7 Baldock Solar	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
8 Ballston Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
9 Bear Creek Solar Center	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
10 Bellevue Solar (Amity, OR)	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
11 Black Cap Solar Project	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
12 Blue Basin Power	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
13 Bly Solar Center	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
14 Bonanza Solar	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
15 Boring Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
16 Case Creek Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
17 Chilquin Solar Facility	2.6	2.7	2.7	2.7	2.6	2.7	2.7	2.7	2.6	2.7
18 Clark Community Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19 Collier Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
20 Colton Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
21 Cowlitz Community Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22 Dairy Solar (OR 8)	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
23 Day Hill Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
24 Dayton Cutoff Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
25 Decatur Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26 Domaine Drouhin Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27 Eagle Point Solar	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
28 Elbe Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
29 Finn Hill Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30 Gala Solar	9.5	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4
31 Grand Ronde Solar	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
32 Grand View Solar	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9
33 Grove Solar Center	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
34 Horn Rapids	0.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
35 Hyline Solar Center	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
36 Idaho Solar 1	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
37 Industrial Finishes Solar	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
38 Interstate Solar	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
39 Kale Patch Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
40 King Estate Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
41 Labish Solar	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
42 Lakeview (OR6)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
43 Lakeview Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
44 Merrill Solar	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
45 Mountain Home Solar	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
46 Moyer-Tolles Solar Station	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
47 Murphy Flat Solar Power	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
48 Neff Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
49 Old Mill Solar LLC	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
50 O'Neil Creek Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
51 Open Range Solar Center	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
52 Orchard Ranch Solar	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
53 Outback Solar	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
54 Palmer Creek Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
55 Pendleton Solar (NorWest 9)	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
56 Pepsi-Cola Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57 Pocatello Solar 1	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
58 Portland Public Schools Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
59 ProLogis Warehouse Solar	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
60 Rafeal Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
61 Railroad Solar Center	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
62 Sheep Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
63 Silverton Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
64 Simcoe Solar	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
65 Steel Bridge Solar	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4

Regional: Non-Hydro Renewable - Solar
Operating Year: 2020 to 2029 Water Year: 1937
2018 White Book Report Date: 12/1/2018
S166-WB-20190220-091000

Energy-aMW	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Non-Hydro Renewable - Solar										
66 Thunderegg Solar Center	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
67 Tumble Weed Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
68 Turkey Hill (OR 3)	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
69 Vale Air Solar Center	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
70 Valley Creek Solar	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
71 Walker Brothers Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72 White Bluffs Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
73 Wild Horse Wind	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
74 Woodline Solar	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
75 WyEast Solar	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
76 Yamhill Solar	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
77 Total Non-Hydro Renewable - Solar	140	143	143	143	143	143	143	143	143	143

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Exhibit 13
Regional Non-Hydro Renewable - Other

Annual Energy
Operating Year 2020 to 2029

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Regional: Non-Hydro Renewable - Other
Operating Year: 2020 to 2029 Water Year: 1937
2018 White Book Report Date: 12/1/2018
S166-WB-20190220-091000

Energy-aMW	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Non-Hydro Renewable - Other										
1 Bannock County Landfill	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
2 Bettencourt B6 anaerobic digester	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
3 Big Sky Dairy	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
4 Biomass One	14.7	14.6	14.6	14.6	14.7	14.6	14.6	14.6	14.7	14.6
5 Boise Cascade Medford	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6 Cedar Hills Landfill	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
7 Coffin Butte	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
8 Columbia Ridge Landfill	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6
9 DeRuyter & Son's Dairy	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
10 Double A Digester	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
11 Double B Digester	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12 Dry Creek Landfill	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
13 Dry Dairy Creek	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
14 Edaleen Cow Power	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
15 Farm Power Lynden	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
16 Farm Power Misty Meadow	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
17 Farm Power Rexville	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
18 Farm Power Tillamook	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
19 Fighting Creek Landfill	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
20 Finley BioEnergy	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
21 Flathead County Landfill	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
22 Forest Glen Oaks Dairy	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
23 Fourmile Hill Geothermal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24 H.W. Hill Landfill Gas (Roosevelt)	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5
25 Hidden Hollow Landfill	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
26 JC-Biomethane	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
27 Kettle Falls (biomass)	44.7	44.4	43.4	43.4	44.7	44.4	43.4	43.4	44.7	44.4
28 Lakeview Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29 LRI/Graham Landfill - BioFuels	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
30 Metro Wastewater Treatment Plant	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
31 Neal Hot Springs	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0
32 Paisley Geothermal	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
33 Pine Products Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34 Port of Tillamook Bay Anaerobic Digester	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
35 Portland Waste Water	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
36 Puyallup Energy Recovery	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
37 Qualco Dairy Digester	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
38 Raft River Geothermal	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6
39 Rainier Biogas	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
40 River Bend Landfill	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
41 Rock Creek Digester	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
42 Short Mountain	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
43 Stahlbush Island Farms Biogas	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
44 Stoltze Biomass	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
45 Swager Digester	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
46 Treasure Valley Digester	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47 Van Dyk's Holsteins	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
48 Vander Haak Dairy	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
49 Total Non-Hydro Renewable - Other	175	174	173	173	175	174	173	173	175	174

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Exhibit 14
Regional Thermal - Nuclear

Annual Energy
Operating Year 2020 to 2029

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Regional: Thermal - Nuclear
Operating Year: 2020 to 2029 Water Year: 1937
2018 White Book Report Date: 12/1/2018
 S166-WB-20190220-091000

Energy-aMW	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Thermal - Nuclear										
1 Columbia Generating Station	1116.0	993.7	1116.0	993.7	1116.0	993.7	1116.0	993.7	1116.0	993.7
2 Total Thermal - Nuclear	1116	994	1116	994	1116	994	1116	994	1116	994

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Exhibit 15
Regional Thermal - Coal

Annual Energy
Operating Year 2020 to 2029

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Regional: Thermal - Coal
Operating Year: 2020 to 2029 Water Year: 1937
2018 White Book Report Date: 12/1/2018
S166-WB-20190220-09100C

Energy-aMW	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Thermal - Coal										
1 Boardman	447.8	205.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 Centralia Complex	1203.0	810.8	590.3	590.3	601.5	601.4	209.4	0.0	0.0	0.0
3 Colstrip	1337.5	1415.5	1323.7	1092.1	1159.7	1074.1	1092.1	1159.7	1074.3	1092.1
4 Colstrip Energy Project	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8
5 Jim Bridger	1838.7	1878.5	1869.4	1878.5	1863.3	1874.5	1838.5	1878.5	1869.5	1878.5
6 Valmy	225.5	225.5	163.5	115.5	115.6	115.5	50.4	0.0	0.0	0.0
7 Total Thermal - Coal	5063	4546	3958	3687	3751	3676	3201	3049	2955	2981

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Exhibit 16
Regional Thermal - Natural Gas

Annual Energy
Operating Year 2020 to 2029

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Regional: Thermal - Natural Gas
Operating Year: 2020 to 2029 Water Year: 1937
2018 White Book Report Date: 12/1/2018
S166-WB-20190220-091000

Energy-aMW	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Thermal - Natural Gas										
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	461.1	461.0	461.0	461.0	461.1	461.0	461.0	461.0	461.1	461.0
3 Bennett Mountain Peaking Plant	150.9	150.8	150.8	150.8	150.9	150.8	150.8	150.8	150.9	150.8
4 Boulder Park	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6
5 Carty Generating Station	385.5	385.4	385.4	385.4	385.5	385.4	385.4	385.4	385.5	385.4
6 Chehalis Generation Facility	446.5	449.7	449.7	449.7	449.8	449.7	449.7	449.7	449.8	449.7
7 Dave Gates Generating Station	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0
8 Encogen	155.6	155.5	155.5	155.5	155.6	155.5	155.5	155.5	155.6	155.5
9 Evander Andrews Complex	233.1	233.1	233.1	233.1	233.1	233.1	233.1	233.1	233.1	233.1
10 Frederickson CT	223.7	223.6	223.6	183.2	179.0	178.9	178.9	178.9	179.0	178.9
11 Frederickson Power Project	137.7	137.6	137.6	137.6	137.7	137.6	137.6	137.6	137.7	137.6
12 Fredonia	267.9	267.7	267.7	267.7	267.9	267.7	267.7	267.7	267.9	267.7
13 Goldendale Energy Center	228.5	228.4	228.4	228.4	228.5	228.4	228.4	228.4	228.5	228.4
14 Grimes Way	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
15 Kettle Falls Station (CT)	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
16 Klamath Generation Facility	435.6	435.5	435.5	435.5	435.6	435.5	435.5	435.5	435.6	435.5
17 Klamath Generation Peakings (CT)	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
18 Lancaster	211.1	211.6	210.3	210.3	211.1	211.6	210.3	210.3	211.1	211.6
19 Langley Gulch CT	270.0	270.0	270.0	270.0	270.0	270.0	270.0	270.0	270.0	270.0
20 Mint Farm Energy Center	252.8	252.7	252.7	252.7	252.8	252.7	252.7	252.7	252.8	252.7
21 Northeast 1 & 2	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5
22 Olympic View	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
23 Pasco Peak Power Plant	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24 Port Westward	555.7	555.6	555.6	555.6	555.7	555.6	555.6	555.6	555.7	555.6
25 Rathdrum	142.2	142.1	142.1	142.1	142.2	142.1	142.1	142.1	142.2	142.1
26 River Road	223.0	223.0	223.0	223.0	223.0	223.0	223.0	223.0	223.0	223.0
27 Satsop Combustion Turbine Project	584.5	584.4	584.4	584.4	584.5	584.4	584.4	584.4	584.5	584.4
28 University of Washington Power Plant	13.6	13.5	13.5	13.5	13.6	13.5	13.5	13.5	13.6	13.5
29 Whitehorn	132.1	132.0	132.0	132.0	132.1	132.0	132.0	132.0	132.1	132.0
30 Total Thermal - Natural Gas	5869	5871	5870	5830	5827	5827	5825	5825	5827	5827

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Exhibit 17
Regional Thermal - Petroleum

Annual Energy
Operating Year 2020 to 2029

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Regional: Thermal - Petroleum
Operating Year: 2020 to 2029 Water Year: 1937
2018 White Book Report Date: 12/1/2018
S166-WB-20190220-091000

Energy-aMW	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Thermal - Petroleum										
1 Bangor Submarine Base	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 Boundary IC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3 Crystal Mountain	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4 Puget Sound Shipyards Diesel Generators	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5 Salmon Diesel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6 Total Thermal - Petroleum	0	0	0	0	0	0	0	0	0	0

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Exhibit 18
Regional Thermal - Biofuel

Annual Energy
Operating Year 2020 to 2029

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Regional: Thermal - Biofuel
Operating Year: 2020 to 2029 Water Year: 1937
2018 White Book Report Date: 12/1/2018
 S166-WB-20190220-091000

Energy-aMW	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Thermal - Biofuel										
1 Covanta Marion Solid Waste	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7
2 Pocatello Waste	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
3 Spokane MSW	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7
4 West Boise Waste	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
5 Total Thermal - Biofuel	26	26	26	26	26	26	26	26	26	26

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Exhibit 19
Regional Thermal - Cogeneration

Annual Energy
Operating Year 2020 to 2029

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Regional: Thermal - Cogeneration
Operating Year: 2020 to 2029 Water Year: 1937
2018 White Book Report Date: 12/1/2018
S166-WB-20190220-091000

Energy-aMW	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Thermal - Cogeneration										
1 Boise Cascade Medford	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 Cogen Co	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
3 Cogen Co 2	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
4 Cosmopolis Specialty Fibres	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
5 Coyote Springs	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0
6 Coyote Springs 2	287.2	287.1	287.1	287.1	287.2	287.1	287.1	287.1	287.2	287.1
7 Evergreen Biopower Cogen	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
8 Ferndale Cogeneration Station	225.1	225.0	225.0	225.0	225.1	225.0	225.0	225.0	225.1	225.0
9 Georgia-Pacific (Toledo)	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
10 Haleywest L.L.C	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
11 Hampton Lumber Mill (Darrington)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
12 Hermiston Generation Project	401.2	408.0	399.1	401.0	408.1	399.1	401.0	408.0	399.3	401.0
13 Hermiston Power Project	567.2	567.1	567.1	567.1	567.2	567.1	567.1	567.1	567.2	567.1
14 InterFor Pacific - Gilchrist	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
15 International Paper Energy Center	16.4	16.4	16.4	16.7	16.7	16.4	16.4	16.4	16.7	16.7
16 Longview Fibre Paper & Packaging	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0
17 March Point Cogeneration	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0
18 Nippon Paper Cogen (Port Angeles)	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
19 Oregon State University Energy Center	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
20 Port Townsend Mill	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
21 Potlatch	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6
22 Rupert Cogeneration Facility	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
23 SDS Lumber	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
24 Seneca Sawmill Cogen	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2
25 Sierra Pacific - Abberdeen	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
26 Sierra Pacific - Burlington	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0
27 Simplot Pocatello	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
28 Sumas	123.3	123.3	123.3	123.3	123.3	123.3	123.3	123.3	123.3	123.3
29 Sumas Compressor Station	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
30 Tacoma Biomass (WestRock)	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3
31 Tamarack	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
32 TASCO - Nampa	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
33 TASCO - Twin Falls	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
34 Thompson River Co-Gen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35 Vaagen Bros.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
36 Wah Chang Cogen	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8
37 Warm Springs Cogen	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
38 Wauna	19.2	19.2	19.2	19.2	19.2	19.2	19.2	19.2	19.2	19.2
39 Weyerhaeuser Longview	35.2	35.2	35.2	35.2	35.2	35.2	35.2	35.2	35.2	35.2
40 Total Thermal - Cogeneration	2334	2341	2332	2334	2342	2332	2334	2341	2333	2334

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Exhibit 20
Non-Federal CER Deliveries to BPA

Annual Energy
Operating Year 2020 to 2029
Using 1937-Water Conditions

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Non-Federal CER Deliveries to BPA
Operating Year 2020 to 2029
2018 White Book Report Date: 12/1/2018

S166-WB-20190220-091000

Energy-aMW	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Pacific Northwest										
1 CHPD to BPA CEAEA for Rock Island	18.3	18.3	18.2	18.3	18.3	18.3	18.3	18.3	18.2	18.3
2 CHPD to BPA CEAEA for Rocky Reach	37.7	37.7	37.6	37.7	37.7	37.9	37.9	37.9	37.7	37.9
3 DOPD to BPA CEAEA for Wells	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.3	23.4
4 GCPD to BPA CEAEA for Priest Rapids	28.6	28.6	28.5	28.6	28.6	28.6	28.5	28.5	28.4	28.5
5 GCPD to BPA CEAEA for Wanapum	28.6	28.6	28.5	28.6	28.6	28.7	28.7	28.7	28.6	28.7
6 Total Imports From PNW	137	137	136	137	137	137	137	137	136	137
Total Imports										
7 Federal Entities	137	137	136	137	137	137	137	137	136	137
8 Total Imports	137	137	136	137	137	137	137	137	136	137

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Exhibit 21
Federal Report Surplus Deficit By Water Year
80 Water Year Federal Surplus/Deficit

Annual Energy
Operating Year 2020 to 2029

Federal Report Surplus Deficit By Water Year
Operating Year 2020 to 2029
2018 White Book Report Date: 12/1/2018

S166-WB-20190220-091000

Energy-aMW - Surplus Deficit	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
1 1929 Federal Report Surplus Deficit	243	54	-83	-240	-122	-265	-48.6	-102	-11.7	-135
2 1930 Federal Report Surplus Deficit	108	-69	-204	-362	-243	-385	-170	-222	-132	-255
3 1931 Federal Report Surplus Deficit	97	-87	-225	-384	-265	-407	-192	-245	-155	-278
4 1932 Federal Report Surplus Deficit	1267	1148	975	832	940	804	1021	967	1050	934
5 1933 Federal Report Surplus Deficit	2055	1882	1706	1531	1637	1506	1708	1668	1748	1635
6 1934 Federal Report Surplus Deficit	3012	2918	2601	2477	2599	2445	2667	2607	2710	2574
7 1935 Federal Report Surplus Deficit	1134	968	810	642	762	617	832	779	873	746
8 1936 Federal Report Surplus Deficit	963	848	691	544	656	519	733	682	766	649
9 1937 Federal Report Surplus Deficit	79	-123	-256	-414	-300	-438	-224	-275	-190	-308
10 1938 Federal Report Surplus Deficit	1820	1693	1477	1339	1451	1308	1524	1470	1561	1437
11 1939 Federal Report Surplus Deficit	691	531	406	240	359	216	431	378	469	345
12 1940 Federal Report Surplus Deficit	905	712	579	401	519	376	592	539	629	506
13 1941 Federal Report Surplus Deficit	288	122	-9.5	-173	-54	-196	19.0	-33.6	57	-67
14 1942 Federal Report Surplus Deficit	1278	1127	965	799	913	770	985	933	1023	900
15 1943 Federal Report Surplus Deficit	2427	2302	2125	1933	2047	1902	2120	2065	2158	2032
16 1944 Federal Report Surplus Deficit	75	-103	-241	-397	-278	-420	-205	-257	-168	-290
17 1945 Federal Report Surplus Deficit	413	238	94	-55	59	-80	134	82	169	49.4
18 1946 Federal Report Surplus Deficit	1883	1770	1529	1391	1502	1354	1575	1516	1612	1483
19 1947 Federal Report Surplus Deficit	2393	2298	2099	1926	2039	1897	2109	2059	2149	2026
20 1948 Federal Report Surplus Deficit	2840	2730	2448	2295	2406	2271	2478	2433	2516	2400
21 1949 Federal Report Surplus Deficit	1899	1768	1590	1413	1525	1383	1599	1546	1635	1513
22 1950 Federal Report Surplus Deficit	2455	2319	2095	1924	2040	1886	2110	2049	2150	2016
23 1951 Federal Report Surplus Deficit	3383	3244	2941	2797	2911	2761	2979	2924	3021	2890
24 1952 Federal Report Surplus Deficit	2705	2609	2349	2204	2318	2176	2390	2339	2428	2305
25 1953 Federal Report Surplus Deficit	1608	1462	1304	1135	1256	1111	1322	1273	1366	1240
26 1954 Federal Report Surplus Deficit	2484	2356	2098	1942	2058	1916	2128	2079	2168	2046
27 1955 Federal Report Surplus Deficit	1901	1774	1623	1441	1533	1396	1608	1558	1643	1525
28 1956 Federal Report Surplus Deficit	3448	3392	3089	2929	3037	2888	3107	3050	3148	3017
29 1957 Federal Report Surplus Deficit	2258	2182	1921	1768	1877	1745	1953	1908	1987	1875
30 1958 Federal Report Surplus Deficit	1845	1702	1507	1341	1448	1311	1519	1474	1558	1441
31 1959 Federal Report Surplus Deficit	2642	2543	2282	2129	2247	2096	2315	2259	2357	2226
32 1960 Federal Report Surplus Deficit	2829	2663	2464	2284	2383	2242	2457	2404	2493	2371
33 1961 Federal Report Surplus Deficit	1995	1898	1638	1501	1614	1475	1685	1638	1724	1605
34 1962 Federal Report Surplus Deficit	1584	1406	1235	1088	1205	1061	1276	1223	1315	1190
35 1963 Federal Report Surplus Deficit	1734	1602	1418	1258	1373	1233	1444	1396	1483	1363
36 1964 Federal Report Surplus Deficit	1729	1573	1427	1261	1369	1236	1442	1398	1479	1365
37 1965 Federal Report Surplus Deficit	3210	3154	2898	2722	2853	2687	2921	2849	2963	2816
38 1966 Federal Report Surplus Deficit	1445	1305	1164	988	1105	963	1177	1125	1216	1092
39 1967 Federal Report Surplus Deficit	2194	2058	1823	1672	1785	1646	1854	1808	1896	1775
40 1968 Federal Report Surplus Deficit	1758	1602	1426	1255	1369	1226	1439	1388	1480	1355
41 1969 Federal Report Surplus Deficit	3121	3064	2774	2639	2741	2589	2810	2751	2851	2718
42 1970 Federal Report Surplus Deficit	1492	1330	1158	987	1108	964	1178	1126	1219	1093
43 1971 Federal Report Surplus Deficit	2930	2876	2582	2418	2529	2390	2597	2552	2639	2519
44 1972 Federal Report Surplus Deficit	3326	3270	2982	2831	2928	2795	2997	2958	3038	2924
45 1973 Federal Report Surplus Deficit	952	780	630	455	577	432	647	594	688	561
46 1974 Federal Report Surplus Deficit	3299	3200	2921	2738	2851	2698	2918	2861	2962	2828
47 1975 Federal Report Surplus Deficit	2220	2101	1878	1746	1867	1717	1939	1879	1977	1846
48 1976 Federal Report Surplus Deficit	3372	3275	3047	2889	2997	2857	3066	3020	3107	2987
49 1977 Federal Report Surplus Deficit	603	459	313	144	256	109	329	272	366	239
50 1978 Federal Report Surplus Deficit	1508	1365	1162	1015	1133	989	1205	1152	1243	1118
51 1979 Federal Report Surplus Deficit	1047	921	791	620	732	592	806	754	842	721
52 1980 Federal Report Surplus Deficit	1287	1115	918	796	900	767	975	929	1011	896
53 1981 Federal Report Surplus Deficit	2027	1890	1684	1515	1637	1491	1706	1653	1747	1620
54 1982 Federal Report Surplus Deficit	3106	2978	2758	2588	2702	2560	2771	2723	2812	2690
55 1983 Federal Report Surplus Deficit	2765	2645	2489	2285	2414	2260	2484	2422	2524	2389

Federal Report Surplus Deficit By Water Year

Operating Year 2020 to 2029

2018 White Book Report Date: 12/1/2018 *Continued*

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Energy-aMW - Surplus Deficit	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
56 1984 Federal Report Surplus Deficit	2788	2725	2529	2339	2455	2313	2527	2475	2565	2442
57 1985 Federal Report Surplus Deficit	1328	1165	1030	855	972	830	1045	992	1082	959
58 1986 Federal Report Surplus Deficit	2109	1956	1788	1598	1713	1561	1782	1723	1823	1690
59 1987 Federal Report Surplus Deficit	796	652	499	342	459	319	534	481	570	448
60 1988 Federal Report Surplus Deficit	75	-68	-200	-359	-241	-382	-167	-219	-131	-252
61 1989 Federal Report Surplus Deficit	852	716	585	421	535	394	612	556	645	523
62 1990 Federal Report Surplus Deficit	1813	1675	1466	1321	1434	1293	1503	1455	1544	1422
63 1991 Federal Report Surplus Deficit	2368	2202	2005	1841	1951	1812	2022	1974	2061	1941
64 1992 Federal Report Surplus Deficit	517	354	229	56	175	33.4	248	196	286	163
65 1993 Federal Report Surplus Deficit	660	533	390	230	344	206	421	368	454	335
66 1994 Federal Report Surplus Deficit	418	226	95	-63	57	-85	130	77	167	44.2
67 1995 Federal Report Surplus Deficit	1306	1159	995	827	940	798	1012	961	1050	928
68 1996 Federal Report Surplus Deficit	3755	3661	3353	3220	3336	3181	3404	3343	3446	3310
69 1997 Federal Report Surplus Deficit	3591	3485	3197	3011	3149	2978	3217	3141	3259	3108
70 1998 Federal Report Surplus Deficit	2402	2286	2099	1911	2026	1882	2098	2044	2137	2011
71 1999 Federal Report Surplus Deficit	2693	2621	2450	2234	2357	2203	2427	2366	2468	2333
72 2000 Federal Report Surplus Deficit	2249	2094	1914	1739	1863	1719	1936	1881	1973	1848
73 2001 Federal Report Surplus Deficit	18.4	-122	-257	-416	-296	-438	-223	-276	-186	-309
74 2002 Federal Report Surplus Deficit	1143	1012	852	698	810	671	885	834	920	801
75 2003 Federal Report Surplus Deficit	976	794	643	485	600	459	673	622	710	589
76 2004 Federal Report Surplus Deficit	684	513	385	223	340	199	415	361	450	328
77 2005 Federal Report Surplus Deficit	1109	907	765	589	711	566	780	728	821	695
78 2006 Federal Report Surplus Deficit	2261	2122	1911	1728	1844	1699	1914	1861	1954	1828
79 2007 Federal Report Surplus Deficit	1601	1412	1246	1067	1184	1041	1257	1204	1295	1171
80 2008 Federal Report Surplus Deficit	1367	1223	1042	884	991	856	1066	1018	1102	985
Ranked Averages										
81 Bottom 10 pct	123	-49.4	-184	-343	-225	-366	-151	-204	-115	-237
82 Middle 80 pct	1760	1623	1436	1272	1387	1244	1459	1407	1497	1374
83 Top 10 pct	3423	3335	3053	2892	3008	2856	3076	3018	3118	2985

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Exhibit 22
Regional Report Surplus Deficit By Water Year
80 Water Year Regional Surplus/Deficit

Annual Energy
Operating Year 2020 to 2029

Regional Report Surplus Deficit By Water Year
Operating Year 2020 to 2029
2018 White Book Report Date: 12/1/2018

S166-WB-20190220-091000

Energy-aMW - Surplus Deficit	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
1 1929 Regional Report Surplus Deficit	4607	3725	2884	2218	2338	1996	1549	1194	1166	984
2 1930 Regional Report Surplus Deficit	4116	3251	2412	1747	1869	1527	1078	725	698	514
3 1931 Regional Report Surplus Deficit	3962	3105	2268	1602	1725	1382	933	580	554	369
4 1932 Regional Report Surplus Deficit	6371	5566	4690	4047	4148	3817	3369	3016	2976	2805
5 1933 Regional Report Surplus Deficit	8072	7174	6294	5606	5708	5382	4915	4580	4537	4369
6 1934 Regional Report Surplus Deficit	9954	9203	8136	7511	7638	7276	6838	6475	6467	6264
7 1935 Regional Report Surplus Deficit	6485	5620	4741	4064	4187	3840	3390	3038	3016	2828
8 1936 Regional Report Surplus Deficit	5858	5063	4200	3550	3656	3325	2873	2523	2485	2313
9 1937 Regional Report Surplus Deficit	4058	3141	2303	1637	1750	1416	965	614	579	403
10 1938 Regional Report Surplus Deficit	7632	6817	5884	5241	5346	5001	4556	4199	4174	3988
11 1939 Regional Report Surplus Deficit	5537	4682	3842	3167	3287	2941	2495	2139	2116	1929
12 1940 Regional Report Surplus Deficit	5690	4773	3923	3233	3353	3009	2562	2207	2181	1997
13 1941 Regional Report Surplus Deficit	4237	3384	2541	1871	1994	1651	1202	849	823	638
14 1942 Regional Report Surplus Deficit	6377	5527	4647	3971	4086	3742	3293	2941	2914	2730
15 1943 Regional Report Surplus Deficit	8859	8051	7161	6460	6563	6215	5772	5413	5392	5202
16 1944 Regional Report Surplus Deficit	4214	3351	2507	1841	1963	1622	1172	820	792	609
17 1945 Regional Report Surplus Deficit	4772	3896	3044	2388	2502	2165	1714	1363	1331	1153
18 1946 Regional Report Surplus Deficit	7884	7100	6133	5489	5600	5246	4809	4445	4428	4234
19 1947 Regional Report Surplus Deficit	8889	8112	7197	6512	6624	6279	5828	5478	5453	5267
20 1948 Regional Report Surplus Deficit	9575	8749	7757	7095	7206	6871	6415	6070	6035	5859
21 1949 Regional Report Surplus Deficit	7955	7120	6237	5545	5652	5313	4864	4511	4481	4300
22 1950 Regional Report Surplus Deficit	9129	8284	7354	6673	6786	6420	5990	5618	5615	5407
23 1951 Regional Report Surplus Deficit	11128	10278	9228	8576	8692	8334	7892	7532	7520	7321
24 1952 Regional Report Surplus Deficit	9504	8721	7735	7085	7200	6855	6407	6053	6029	5843
25 1953 Regional Report Surplus Deficit	7326	6476	5607	4926	5054	4703	4250	3901	3882	3691
26 1954 Regional Report Surplus Deficit	9182	8328	7334	6668	6783	6443	5986	5641	5612	5430
27 1955 Regional Report Surplus Deficit	7917	7093	6233	5533	5617	5284	4831	4482	4446	4272
28 1956 Regional Report Surplus Deficit	11015	10288	9264	8594	8703	8350	7908	7549	7531	7338
29 1957 Regional Report Surplus Deficit	8642	7855	6884	6223	6330	6001	5544	5199	5158	4989
30 1958 Regional Report Surplus Deficit	7725	6854	5952	5278	5382	5050	4586	4248	4211	4038
31 1959 Regional Report Surplus Deficit	9315	8538	7539	6877	6989	6639	6190	5838	5818	5627
32 1960 Regional Report Surplus Deficit	9820	8959	8026	7328	7419	7078	6630	6276	6247	6065
33 1961 Regional Report Surplus Deficit	7990	7210	6213	5571	5685	5342	4889	4540	4514	4330
34 1962 Regional Report Surplus Deficit	7170	6288	5391	4738	4856	4509	4061	3707	3685	3496
35 1963 Regional Report Surplus Deficit	7629	6815	5906	5237	5355	5013	4558	4211	4184	4000
36 1964 Regional Report Surplus Deficit	7598	6727	5880	5202	5306	4976	4517	4174	4134	3963
37 1965 Regional Report Surplus Deficit	10453	9707	8745	8049	8182	7804	7381	7003	7011	6792
38 1966 Regional Report Surplus Deficit	7170	6342	5478	4788	4906	4561	4113	3759	3734	3548
39 1967 Regional Report Surplus Deficit	8475	7639	6685	6025	6140	5801	5342	4999	4969	4788
40 1968 Regional Report Surplus Deficit	7809	6968	6072	5386	5504	5156	4706	4354	4333	4143
41 1969 Regional Report Surplus Deficit	10266	9549	8520	7889	7983	7634	7187	6832	6812	6621
42 1970 Regional Report Surplus Deficit	7093	6222	5341	4666	4777	4444	3979	3642	3606	3431
43 1971 Regional Report Surplus Deficit	9962	9186	8178	7503	7619	7274	6817	6472	6447	6262
44 1972 Regional Report Surplus Deficit	10945	10199	9192	8534	8626	8294	7828	7493	7455	7282
45 1973 Regional Report Surplus Deficit	6120	5256	4390	3701	3828	3480	3032	2679	2656	2468
46 1974 Regional Report Surplus Deficit	10687	9913	8919	8221	8341	7980	7538	7178	7170	6967
47 1975 Regional Report Surplus Deficit	8697	7868	6930	6297	6417	6061	5625	5260	5245	5049
48 1976 Regional Report Surplus Deficit	10923	10124	9184	8514	8622	8280	7826	7478	7451	7267
49 1977 Regional Report Surplus Deficit	5083	4258	3417	2733	2847	2497	2058	1696	1676	1485
50 1978 Regional Report Surplus Deficit	6927	6123	5195	4544	4660	4318	3868	3516	3489	3306
51 1979 Regional Report Surplus Deficit	6212	5412	4571	3888	3997	3657	3208	2856	2826	2645
52 1980 Regional Report Surplus Deficit	6652	5754	4847	4227	4331	3998	3542	3197	3159	2986
53 1981 Regional Report Surplus Deficit	7978	7134	6205	5529	5648	5306	4848	4504	4476	4293
54 1982 Regional Report Surplus Deficit	10102	9262	8339	7654	7768	7423	6967	6622	6596	6411
55 1983 Regional Report Surplus Deficit	9826	8992	8134	7400	7540	7180	6744	6378	6369	6167

Regional Report Surplus Deficit By Water Year

Operating Year 2020 to 2029

2018 White Book Report Date: 12/1/2018 *Continued*

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Energy-aMW - Surplus Deficit	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
56 1984 Regional Report Surplus Deficit	9643	8908	8010	7303	7408	7072	6615	6270	6236	6059
57 1985 Regional Report Surplus Deficit	6913	6043	5184	4494	4610	4267	3819	3465	3438	3254
58 1986 Regional Report Surplus Deficit	8467	7603	6714	6009	6123	5761	5325	4959	4952	4748
59 1987 Regional Report Surplus Deficit	5738	4916	4044	3378	3496	3156	2707	2355	2325	2144
60 1988 Regional Report Surplus Deficit	4112	3317	2475	1810	1930	1589	1140	787	758	577
61 1989 Regional Report Surplus Deficit	5791	4983	4136	3462	3573	3231	2792	2430	2402	2219
62 1990 Regional Report Surplus Deficit	7797	6979	6044	5394	5504	5163	4707	4361	4333	4150
63 1991 Regional Report Surplus Deficit	8852	8000	7083	6410	6519	6177	5723	5375	5348	5165
64 1992 Regional Report Surplus Deficit	4895	4070	3253	2565	2688	2344	1896	1543	1517	1332
65 1993 Regional Report Surplus Deficit	5084	4344	3507	2841	2948	2616	2166	1815	1777	1604
66 1994 Regional Report Surplus Deficit	4798	3904	3063	2396	2520	2176	1727	1374	1348	1164
67 1995 Regional Report Surplus Deficit	6659	5823	4955	4277	4393	4047	3598	3246	3221	3035
68 1996 Regional Report Surplus Deficit	11623	10844	9816	9179	9294	8934	8493	8133	8122	7922
69 1997 Regional Report Surplus Deficit	11216	10416	9424	8723	8872	8490	8071	7689	7700	7478
70 1998 Regional Report Surplus Deficit	9097	8276	7400	6689	6796	6461	6003	5659	5625	5449
71 1999 Regional Report Surplus Deficit	9604	8884	8011	7267	7386	7024	6589	6223	6215	6012
72 2000 Regional Report Surplus Deficit	8700	7852	6943	6252	6376	6031	5585	5229	5205	5018
73 2001 Regional Report Surplus Deficit	3852	3074	2229	1563	1685	1343	894	541	513	330
74 2002 Regional Report Surplus Deficit	6166	5391	4521	3862	3973	3633	3186	2831	2802	2620
75 2003 Regional Report Surplus Deficit	5778	4897	4043	3376	3492	3151	2701	2349	2321	2138
76 2004 Regional Report Surplus Deficit	5242	4438	3600	2929	3048	2706	2260	1904	1876	1694
77 2005 Regional Report Surplus Deficit	6076	5168	4314	3624	3750	3403	2954	2602	2579	2391
78 2006 Regional Report Surplus Deficit	8223	7416	6507	5813	5929	5576	5132	4774	4757	4563
79 2007 Regional Report Surplus Deficit	7193	6359	5473	4779	4896	4552	4104	3751	3724	3540
80 2008 Regional Report Surplus Deficit	6478	5674	4800	4135	4240	3907	3452	3105	3068	2894
Ranked Averages										
81 Bottom 10 pct	4145	3294	2452	1786	1907	1566	1117	764	735	553
82 Middle 80 pct	7569	6742	5841	5167	5280	4937	4488	4136	4109	3925
83 Top 10 pct	10999	10221	9221	8549	8666	8308	7867	7507	7495	7296

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Section 2: Monthly Energy Operating Year 2020 to 2029

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Exhibit 23
Federal Report Surplus Deficit

Monthly Energy
Operating Year 2020 to 2029
Using 1937-Water Conditions

Loads and Resources - Federal System
Operating Year: 2020 Water Year: 1937
2018 White Book Report Date: 12/1/2018
S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Firm Obligations															
1 Load Following	3624	3626	3253	2927	3410	3888	3831	3582	3206	3238	3238	3246	3444	3712	3447
2 Preference Customers	3211	3215	2893	2711	3256	3709	3664	3422	3014	2882	2882	2811	2982	3190	3146
3 Federal Agencies	101	101	93.4	108	136	161	156	146	129	112	112	106	108	118	123
4 USBR	312	311	266	108	18.2	17.7	9.97	13.9	63.0	244	244	329	354	405	179
5 Federal Diversity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 Tier 1 Block	352	352	597	539	889	888	976	887	871	427	427	152	21.2	346	578
7 Tier 1 Block	352	352	597	539	889	888	976	887	871	427	427	152	21.2	346	578
8 Slice	2934	2730	2633	2545	3175	3299	3003	2775	2774	2562	2456	2782	3307	2817	2871
9 Slice Block	1222	1222	1169	1159	1356	1559	1553	1373	1312	1216	1216	1179	1155	1210	1289
10 Slice Output from T1 System	1712	1508	1464	1386	1819	1740	1451	1402	1463	1346	1240	1603	2152	1607	1582
11 Direct Service Industries	87.0	87.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	18.4
12 Direct Service Industry	87.0	87.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	18.4
13 Contract Deliveries	775	779	667	713	717	715	575	574	570	572	572	572	572	595	635
14 Exports	635	640	529	574	573	573	508	508	508	508	508	508	508	529	539
15 Intra-Regional Transfers (Out)	140	140	139	139	144	142	66.6	66.1	61.7	64.2	64.2	64.5	64.4	65.8	96.4
16 Firm Surplus Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 Total Firm Obligations	7772	7575	7162	6735	8203	8802	8397	7830	7433	6811	6705	6764	7357	7483	7550
Net Resources															
18 Hydro	7261	6330	6019	5593	7473	7127	5806	5572	5898	4565	4357	6485	8605	6907	6396
19 Regulated Hydro - Net	6897	5969	5677	5284	7213	6952	5689	5441	5665	4127	3912	5763	7894	6498	6044
20 Independent Hydro - Net	362	358	340	307	257	172	113	128	230	435	442	719	708	407	349
21 Small Hydro - Net	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
22 Non-Hydro Renewable	39.6	59.4	55.2	44.4	63.6	48.5	25.9	42.9	49.3	88.2	74.2	79.4	78.5	76.7	57.9
23 Wind - Net	39.6	59.4	55.2	44.4	63.6	48.5	25.9	42.9	49.3	88.2	74.2	79.4	78.5	76.7	57.9
24 Solar - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 Other - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 Thermal	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116
27 Nuclear - Net	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116
28 Coal - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Loads and Resources - Federal System
Operating Year: 2020 Water Year: 1937
2018 White Book Report Date: 12/1/2018 *Continued*

S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
²⁹ Natural Gas - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
³⁰ Petroleum - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
³¹ Biofuel - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
³² Cogeneration - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
³³ Contract Purchases	384	382	371	286	291	284	284	282	281	263	261	260	280	268	294
³⁴ Imports	65.4	65.6	64.3	116	115	114	115	115	115	65.4	65.4	64.4	65.4	65.0	90.0
³⁵ Intra-Regional Transfers (In)	148	148	146	5.11	3.80	3.24	2.50	2.40	4.58	34.1	34.1	31.7	35.4	33.3	37.6
³⁶ Non-Federal CER	138	139	133	139	138	134	139	137	134	138	138	134	138	139	137
³⁷ Slice Transmission Loss Return	32.6	28.7	27.8	26.4	34.6	33.1	27.6	26.7	27.8	25.6	23.6	30.5	40.9	30.6	30.1
³⁸ Augmentation Purchases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
³⁹ Reserves & Losses	-264	-236	-226	-211	-267	-256	-216	-209	-219	-180	-174	-239	-303	-251	-235
⁴⁰ Operating Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
⁴¹ Balancing Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
⁴² Transmission Losses	-264	-236	-226	-211	-267	-256	-216	-209	-219	-180	-174	-239	-303	-251	-235
⁴³ Total Net Resources	8537	7651	7335	6829	8677	8320	7016	6804	7126	5852	5635	7701	9777	8117	7629
⁴⁴ Total Surplus/Deficit	765	76	173	93	474	-481	-1,381	-1,026	-307	-959	-1,070	937	2,420	634	79

Loads and Resources - Federal System
Operating Year: 2021 Water Year: 1937
2018 White Book Report Date: 12/1/2018

S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Firm Obligations															
⁴⁵ Load Following	3539	3520	3154	2943	3428	3907	3848	3632	3202	3254	3254	3259	3458	3726	3445
⁴⁶ Preference Customers	3117	3090	2780	2721	3269	3723	3676	3463	3004	2892	2892	2819	2990	3199	3136
⁴⁷ Federal Agencies	115	114	108	113	141	166	162	154	134	118	118	111	113	123	130
⁴⁸ USBR	308	315	266	108	18.2	17.7	9.97	14.0	63.0	244	244	329	354	405	179
⁴⁹ Federal Diversity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
⁵⁰ Tier 1 Block	392	390	645	540	889	888	976	919	871	428	428	152	21.1	347	587
⁵¹ Tier 1 Block	392	390	645	540	889	888	976	919	871	428	428	152	21.1	347	587
⁵² Slice	2783	2630	2470	2581	3212	3342	3044	2864	2813	2494	2344	2821	3271	2850	2866
⁵³ Slice Block	1182	1182	1126	1191	1392	1598	1591	1459	1346	1250	1250	1211	1187	1243	1314
⁵⁴ Slice Output from T1 System	1602	1449	1344	1390	1820	1744	1453	1405	1467	1244	1094	1610	2084	1608	1552
⁵⁵ Direct Service Industries	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	12.0
⁵⁶ Direct Service Industry	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	12.0
⁵⁷ Contract Deliveries	631	687	554	554	554	554	652	652	648	648	648	648	648	670	620
⁵⁸ Exports	566	622	490	490	490	490	439	439	439	439	439	439	439	460	471
⁵⁹ Intra-Regional Transfers (Out)	64.8	64.8	63.7	63.8	63.2	63.4	213	213	209	209	209	209	209	209	149
⁶⁰ Firm Surplus Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
⁶¹ Total Firm Obligations	7358	7239	6836	6629	8095	8703	8533	8078	7546	6836	6686	6893	7410	7605	7530
Net Resources															
⁶² Hydro	6759	5997	5548	5593	7473	7127	5806	5572	5898	4565	4357	6492	8612	6898	6325
⁶³ Regulated Hydro - Net	6394	5636	5206	5284	7213	6952	5689	5441	5665	4127	3912	5770	7901	6488	5973
⁶⁴ Independent Hydro - Net	362	358	340	307	257	172	113	128	230	435	442	719	708	407	349
⁶⁵ Small Hydro - Net	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
⁶⁶ Non-Hydro Renewable	39.6	59.4	55.2	41.3	59.2	45.2	24.2	40.0	45.9	82.2	69.1	74.0	73.1	71.5	54.6
⁶⁷ Wind - Net	39.6	59.4	55.2	41.3	59.2	45.2	24.2	40.0	45.9	82.2	69.1	74.0	73.1	71.5	54.6
⁶⁸ Solar - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
⁶⁹ Other - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
⁷⁰ Thermal	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	360	409	1116	994
⁷¹ Nuclear - Net	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	360	409	1116	994
⁷² Coal - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Loads and Resources - Federal System
Operating Year: 2021 Water Year: 1937
2018 White Book Report Date: 12/1/2018 Continued

S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
73 Natural Gas - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74 Petroleum - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75 Biofuel - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76 Cogeneration - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77 Contract Purchases	267	253	261	281	282	287	276	279	282	256	253	256	272	170	263
78 Imports	65.4	64.5	64.9	116	114	115	114	115	116	65.4	65.4	64.4	65.4	1.00	84.5
79 Intra-Regional Transfers (In)	33.0	31.2	32.3	0	0	0	0	0	0	28.9	28.9	26.9	28.9	0	12.4
80 Non-Federal CER	138	129	138	139	133	139	134	137	139	138	138	134	138	139	137
81 Slice Transmission Loss Return	30.5	27.6	25.6	26.4	34.6	33.2	27.6	26.7	27.9	23.7	20.8	30.6	39.6	30.6	29.5
82 Augmentation Purchases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
83 Reserves & Losses	-245	-223	-209	-211	-266	-256	-216	-209	-219	-180	-173	-217	-281	-248	-229
84 Operating Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
85 Balancing Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
86 Transmission Losses	-245	-223	-209	-211	-266	-256	-216	-209	-219	-180	-173	-217	-281	-248	-229
87 Total Net Resources	7936	7202	6772	6821	8663	8320	7006	6798	7124	5839	5622	6965	9085	8008	7407
88 Total Surplus/Deficit	579	-37	-64	191	568	-383	-1,526	-1,280	-422	-997	-1,064	72	1,675	403	-123

Loads and Resources - Federal System
Operating Year: 2022 Water Year: 1937
2018 White Book Report Date: 12/1/2018

S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Firm Obligations															
⁸⁹ Load Following	3529	3556	3167	2966	3454	3934	3903	3701	3272	3304	3304	3307	3504	3775	3485
⁹⁰ Preference Customers	3093	3129	2787	2740	3289	3744	3725	3526	3069	2937	2937	2861	3032	3242	3171
⁹¹ Federal Agencies	119	121	113	118	147	172	167	161	140	123	123	116	118	128	135
⁹² USBR	316	306	266	108	18.2	17.7	9.97	14.0	63.0	244	244	329	354	405	179
⁹³ Federal Diversity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
⁹⁴ Tier 1 Block	390	393	646	541	891	890	978	920	872	429	429	152	21.1	347	588
⁹⁵ Tier 1 Block	390	393	646	541	891	890	978	920	872	429	429	152	21.1	347	588
⁹⁶ Slice	2816	2658	2501	2679	3321	3455	3155	2970	2915	2493	2446	2846	3274	2941	2939
⁹⁷ Slice Block	1214	1214	1158	1290	1499	1710	1701	1564	1447	1350	1350	1307	1279	1336	1404
⁹⁸ Slice Output from T1 System	1602	1445	1343	1390	1823	1745	1454	1406	1468	1143	1096	1539	1995	1606	1535
⁹⁹ Direct Service Industries	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	12.0
¹⁰⁰ Direct Service Industry	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	12.0
¹⁰¹ Contract Deliveries	689	813	648	648	652	652	652	652	648	648	648	648	648	670	660
¹⁰² Exports	479	604	439	439	439	439	439	439	439	439	439	439	439	460	450
¹⁰³ Intra-Regional Transfers (Out)	209	209	209	209	213	213	213	213	209	209	209	209	209	209	211
¹⁰⁴ Firm Surplus Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
¹⁰⁵ Total Firm Obligations	7435	7433	6974	6846	8330	8942	8699	8255	7719	6886	6839	6965	7460	7745	7685
Net Resources															
¹⁰⁶ Hydro	6746	5997	5548	5593	7473	7127	5806	5572	5898	4565	4357	6492	8605	6897	6324
¹⁰⁷ Regulated Hydro - Net	6381	5636	5206	5284	7213	6952	5689	5441	5665	4127	3912	5770	7894	6488	5971
¹⁰⁸ Independent Hydro - Net	362	358	340	307	257	172	113	128	230	435	442	719	708	407	349
¹⁰⁹ Small Hydro - Net	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
¹¹⁰ Non-Hydro Renewable	36.9	55.4	51.4	41.3	59.2	45.2	24.2	40.0	45.9	82.2	69.1	66.2	65.5	64.0	52.1
¹¹¹ Wind - Net	36.9	55.4	51.4	41.3	59.2	45.2	24.2	40.0	45.9	82.2	69.1	66.2	65.5	64.0	52.1
¹¹² Solar - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
¹¹³ Other - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
¹¹⁴ Thermal	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116
¹¹⁵ Nuclear - Net	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116
¹¹⁶ Coal - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Loads and Resources - Federal System
Operating Year: 2022 Water Year: 1937
2018 White Book Report Date: 12/1/2018 *Continued*

S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
117 Natural Gas - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
118 Petroleum - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
119 Biofuel - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
120 Cogeneration - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
121 Contract Purchases	159	168	165	161	174	173	162	164	168	161	160	164	177	165	166
122 Imports	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
123 Intra-Regional Transfers (In)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
124 Non-Federal CER	127	139	138	134	138	139	134	137	139	138	138	134	138	134	136
125 Slice Transmission Loss Return	30.5	27.5	25.5	26.4	34.7	33.2	27.7	26.7	27.9	21.7	20.8	29.3	37.9	30.5	29.2
126 Augmentation Purchases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
127 Reserves & Losses	-242	-220	-206	-207	-263	-253	-212	-206	-216	-177	-171	-236	-299	-247	-229
128 Operating Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
129 Balancing Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
130 Transmission Losses	-242	-220	-206	-207	-263	-253	-212	-206	-216	-177	-171	-236	-299	-247	-229
131 Total Net Resources	7816	7116	6675	6705	8558	8209	6896	6687	7013	5747	5532	7602	9664	7995	7429
132 Total Surplus/Deficit	381	-317	-299	-142	228	-733	-1,803	-1,568	-707	-1,140	-1,307	637	2,204	251	-256

Loads and Resources - Federal System
Operating Year: 2023 Water Year: 1937
2018 White Book Report Date: 12/1/2018

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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Firm Obligations															
133 Load Following	3589	3591	3214	3006	3498	3980	3919	3718	3286	3333	3308	3321	3519	3790	3513
134 Preference Customers	3152	3155	2829	2780	3334	3792	3743	3545	3084	2968	2941	2876	3047	3258	3199
135 Federal Agencies	125	125	118	117	146	171	167	160	139	122	122	115	117	127	135
136 USBR	312	311	266	108	18.2	17.7	9.97	14.0	63.0	243	245	329	354	405	179
137 Federal Diversity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
138 Tier 1 Block	392	392	647	537	876	876	959	902	857	429	426	152	21.1	343	581
139 Tier 1 Block	392	392	647	537	876	876	959	902	857	429	426	152	21.1	343	581
140 Slice	2891	2711	2597	2699	3344	3482	3184	2995	2938	2508	2466	2703	3140	2962	2944
141 Slice Block	1308	1308	1255	1313	1525	1740	1731	1592	1473	1374	1374	1330	1302	1360	1442
142 Slice Output from T1 System	1583	1403	1343	1387	1818	1742	1453	1403	1465	1134	1092	1372	1838	1603	1503
143 Direct Service Industries	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	12.0
144 Direct Service Industry	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	12.0
145 Contract Deliveries	707	796	648	648	652	652	652	652	648	666	631	648	648	670	660
146 Exports	497	587	439	439	439	439	439	439	439	456	421	439	439	460	450
147 Intra-Regional Transfers (Out)	209	209	209	209	213	213	213	213	209	209	209	209	209	209	211
148 Firm Surplus Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
149 Total Firm Obligations	7591	7502	7119	6903	8382	9003	8727	8280	7741	6948	6843	6836	7340	7777	7711
Net Resources															
150 Hydro	6746	5997	5548	5593	7473	7127	5806	5572	5898	4565	4357	6492	8607	6898	6324
151 Regulated Hydro - Net	6381	5636	5206	5284	7213	6952	5689	5441	5665	4127	3912	5770	7896	6488	5972
152 Independent Hydro - Net	362	358	340	307	257	172	113	128	230	435	442	719	708	407	349
153 Small Hydro - Net	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
154 Non-Hydro Renewable	33.0	49.6	46.1	28.0	40.2	30.6	16.4	27.1	31.2	55.7	46.9	50.1	49.6	48.5	38.4
155 Wind - Net	33.0	49.6	46.1	28.0	40.2	30.6	16.4	27.1	31.2	55.7	46.9	50.1	49.6	48.5	38.4
156 Solar - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
157 Other - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
158 Thermal	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	360	409	1116	994
159 Nuclear - Net	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	360	409	1116	994
160 Coal - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Loads and Resources - Federal System
Operating Year: 2023 Water Year: 1937
2018 White Book Report Date: 12/1/2018 *Continued*

S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
161 Natural Gas - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
162 Petroleum - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
163 Biofuel - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
164 Cogeneration - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
165 Contract Purchases	169	167	165	161	173	173	162	164	168	161	149	166	174	165	166
166 Imports	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
167 Intra-Regional Transfers (In)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
168 Non-Federal CER	138	139	138	134	138	139	134	137	139	138	127	139	138	134	137
169 Slice Transmission Loss Return	30.1	26.7	25.5	26.4	34.6	33.1	27.6	26.7	27.9	21.6	20.8	26.1	35.0	30.5	28.6
170 Augmentation Purchases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
171 Reserves & Losses	-242	-220	-206	-207	-263	-252	-212	-205	-215	-176	-170	-213	-278	-247	-225
172 Operating Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
173 Balancing Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
174 Transmission Losses	-242	-220	-206	-207	-263	-252	-212	-205	-215	-176	-170	-213	-278	-247	-225
175 Total Net Resources	7822	7110	6669	6692	8540	8195	6889	6674	6998	5721	5500	6855	8962	7980	7297
176 Total Surplus/Deficit	231	-393	-449	-211	158	-808	-1,838	-1,605	-743	-1,227	-1,343	19	1,621	203	-414

Loads and Resources - Federal System
Operating Year: 2024 Water Year: 1937
2018 White Book Report Date: 12/1/2018

S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Firm Obligations															
177 Load Following	3604	3606	3228	3018	3512	3996	3936	3682	3300	3333	3333	3331	3529	3801	3523
178 Preference Customers	3168	3171	2844	2793	3348	3807	3759	3512	3098	2966	2966	2886	3057	3269	3209
179 Federal Agencies	124	124	117	117	146	171	167	157	139	122	122	115	118	127	135
180 USBR	312	311	266	108	18.2	17.7	9.97	13.9	63.0	244	244	329	354	405	179
181 Federal Diversity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
182 Tier 1 Block	388	389	639	533	855	858	933	846	835	426	426	152	21.1	338	568
183 Tier 1 Block	388	389	639	533	855	858	933	846	835	426	426	152	21.1	338	568
184 Slice	2913	2732	2618	2673	3313	3446	3150	2909	2907	2484	2436	2839	3257	2935	2944
185 Slice Block	1331	1331	1277	1286	1494	1705	1696	1506	1443	1346	1346	1303	1276	1333	1417
186 Slice Output from T1 System	1582	1400	1340	1387	1818	1741	1454	1403	1464	1137	1090	1536	1982	1603	1528
187 Direct Service Industries	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	12.0
188 Direct Service Industry	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	12.0
189 Contract Deliveries	707	796	648	648	652	652	652	652	648	648	648	648	648	670	660
190 Exports	497	587	439	439	439	439	439	439	439	439	439	439	439	460	450
191 Intra-Regional Transfers (Out)	209	209	209	209	213	213	213	213	209	209	209	209	209	209	211
192 Firm Surplus Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
193 Total Firm Obligations	7625	7535	7145	6884	8344	8963	8683	8102	7702	6903	6855	6982	7468	7756	7708
Net Resources															
194 Hydro	6746	5997	5548	5593	7473	7127	5806	5572	5898	4565	4357	6492	8570	6898	6319
195 Regulated Hydro - Net	6381	5636	5206	5284	7213	6952	5689	5441	5665	4127	3912	5770	7859	6488	5967
196 Independent Hydro - Net	362	358	340	307	257	172	113	128	230	435	442	719	708	407	349
197 Small Hydro - Net	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
198 Non-Hydro Renewable	25.0	37.5	34.9	28.0	40.2	30.6	16.4	27.1	31.2	55.7	42.3	45.2	44.7	43.7	35.2
199 Wind - Net	25.0	37.5	34.9	28.0	40.2	30.6	16.4	27.1	31.2	55.7	42.3	45.2	44.7	43.7	35.2
200 Solar - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
201 Other - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
202 Thermal	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116
203 Nuclear - Net	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116
204 Coal - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Loads and Resources - Federal System
Operating Year: 2024 Water Year: 1937
2018 White Book Report Date: **12/1/2018** *Continued*

S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
205 Natural Gas - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
206 Petroleum - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
207 Biofuel - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
208 Cogeneration - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
209 Contract Purchases	169	167	165	161	173	168	167	165	163	161	160	169	171	170	167
210 Imports	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
211 Intra-Regional Transfers (In)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
212 Non-Federal CER	138	139	138	134	138	134	139	137	134	138	138	139	133	139	137
213 Slice Transmission Loss Return	30.1	26.6	25.5	26.4	34.6	33.1	27.6	26.7	27.8	21.6	20.7	29.2	37.7	30.5	29.1
214 Augmentation Purchases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
215 Reserves & Losses	-242	-219	-205	-207	-263	-252	-212	-205	-215	-176	-170	-236	-297	-247	-229
216 Operating Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
217 Balancing Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
218 Transmission Losses	-242	-219	-205	-207	-263	-252	-212	-205	-215	-176	-170	-236	-297	-247	-229
219 Total Net Resources	7814	7098	6659	6692	8540	8190	6894	6675	6993	5721	5506	7586	9604	7981	7408
220 Total Surplus/Deficit	190	-437	-487	-193	196	-774	-1,789	-1,427	-709	-1,182	-1,350	604	2,136	225	-300

Loads and Resources - Federal System
Operating Year: 2025 Water Year: 1937
2018 White Book Report Date: 12/1/2018

S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Firm Obligations															
221 Load Following	3615	3617	3238	3035	3531	4015	3955	3741	3298	3351	3351	3346	3545	3818	3541
222 Preference Customers	3178	3182	2854	2808	3365	3825	3776	3565	3095	2983	2983	2901	3072	3284	3225
223 Federal Agencies	125	125	118	119	148	173	168	162	140	124	124	117	119	129	137
224 USBR	312	311	266	108	18.2	17.7	9.97	14.0	63.0	244	244	329	354	405	179
225 Federal Diversity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
226 Tier 1 Block	383	383	628	530	849	853	926	870	829	425	425	152	21.0	336	565
227 Tier 1 Block	383	383	628	530	849	853	926	870	829	425	425	152	21.0	336	565
228 Slice	2883	2701	2587	2692	3334	3471	3175	2987	2928	2502	2456	2693	3128	2954	2935
229 Slice Block	1305	1305	1251	1308	1520	1734	1725	1587	1468	1370	1370	1326	1298	1355	1437
230 Slice Output from T1 System	1578	1396	1336	1383	1814	1737	1450	1400	1460	1133	1086	1368	1830	1599	1498
231 Direct Service Industries	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	12.0
232 Direct Service Industry	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	12.0
233 Contract Deliveries	722	812	664	664	668	668	668	668	664	664	664	664	664	685	676
234 Exports	513	602	454	454	454	454	454	454	454	454	454	454	454	476	465
235 Intra-Regional Transfers (Out)	209	209	209	209	213	213	213	213	209	209	209	209	209	209	211
236 Firm Surplus Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
237 Total Firm Obligations	7615	7525	7129	6933	8393	9019	8736	8277	7730	6953	6907	6867	7370	7806	7729
Net Resources															
238 Hydro	6746	5997	5548	5593	7473	7127	5806	5572	5898	4565	4357	6492	8596	6897	6323
239 Regulated Hydro - Net	6381	5636	5206	5284	7213	6952	5689	5441	5665	4127	3912	5770	7885	6488	5971
240 Independent Hydro - Net	362	358	340	307	257	172	113	128	230	435	442	719	708	407	349
241 Small Hydro - Net	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
242 Non-Hydro Renewable	22.6	33.8	31.5	25.3	36.2	27.6	14.8	24.4	28.1	50.2	42.3	45.2	44.7	43.7	33.0
243 Wind - Net	22.6	33.8	31.5	25.3	36.2	27.6	14.8	24.4	28.1	50.2	42.3	45.2	44.7	43.7	33.0
244 Solar - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
245 Other - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
246 Thermal	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	360	409	1116	994
247 Nuclear - Net	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	360	409	1116	994
248 Coal - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Loads and Resources - Federal System
Operating Year: 2025 Water Year: 1937
2018 White Book Report Date: 12/1/2018 *Continued*

S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
249 Natural Gas - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
250 Petroleum - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
251 Biofuel - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
252 Cogeneration - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
253 Contract Purchases	169	167	162	164	173	168	167	167	163	161	160	166	169	170	166
254 Imports	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
255 Intra-Regional Transfers (In)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
256 Non-Federal CER	138	139	135	136	138	134	139	139	134	138	138	139	133	139	137
257 Slice Transmission Loss Return	30.0	26.5	25.4	26.3	34.5	33.0	27.6	26.6	27.8	21.5	20.7	26.0	34.8	30.4	28.5
258 Augmentation Purchases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
259 Reserves & Losses	-242	-219	-205	-207	-262	-252	-212	-205	-215	-176	-170	-213	-277	-247	-225
260 Operating Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
261 Balancing Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
262 Transmission Losses	-242	-219	-205	-207	-262	-252	-212	-205	-215	-176	-170	-213	-277	-247	-225
263 Total Net Resources	7812	7094	6652	6692	8536	8187	6892	6674	6990	5715	5505	6850	8941	7980	7291
264 Total Surplus/Deficit	197	-430	-476	-242	142	-832	-1,844	-1,603	-740	-1,238	-1,402	-18	1,571	174	-438

Loads and Resources - Federal System
Operating Year: 2026 Water Year: 1937
2018 White Book Report Date: 12/1/2018

S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Firm Obligations															
265 Load Following	3644	3622	3254	3050	3547	4033	3972	3772	3332	3364	3364	3358	3557	3830	3558
266 Preference Customers	3210	3182	2868	2822	3381	3841	3793	3596	3129	2996	2996	2912	3083	3296	3242
267 Federal Agencies	127	126	119	119	148	173	169	162	141	124	124	117	119	129	137
268 USBR	308	315	266	108	18.2	17.7	9.97	14.0	63.0	244	244	329	354	405	179
269 Federal Diversity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
270 Tier 1 Block	382	380	625	529	847	851	925	868	827	424	424	151	21.0	336	564
271 Tier 1 Block	382	380	625	529	847	851	925	868	827	424	424	151	21.0	336	564
272 Slice	2903	2724	2609	2664	3301	3434	3138	2953	2896	2473	2426	2830	3248	2926	2938
273 Slice Block	1327	1327	1273	1280	1487	1697	1688	1553	1436	1340	1340	1297	1270	1326	1414
274 Slice Output from T1 System	1575	1397	1336	1383	1814	1737	1450	1400	1460	1133	1086	1532	1978	1599	1524
275 Direct Service Industries	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	12.0
276 Direct Service Industry	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	12.0
277 Contract Deliveries	740	795	664	664	667	668	468	468	464	464	464	464	464	485	560
278 Exports	530	586	454	454	454	454	454	454	454	454	454	454	454	476	465
279 Intra-Regional Transfers (Out)	209	209	209	209	213	213	13.4	13.4	9.44	9.44	9.44	9.44	9.44	9.44	94.6
280 Firm Surplus Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
281 Total Firm Obligations	7680	7534	7163	6919	8375	8997	8514	8072	7532	6737	6690	6814	7302	7588	7632
Net Resources															
282 Hydro	6746	5997	5548	5593	7473	7127	5806	5572	5898	4565	4357	6492	8570	6898	6321
283 Regulated Hydro - Net	6381	5636	5206	5284	7213	6952	5689	5441	5665	4127	3912	5770	7859	6488	5969
284 Independent Hydro - Net	362	358	340	307	257	172	113	128	230	435	442	719	708	407	349
285 Small Hydro - Net	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
286 Non-Hydro Renewable	22.6	33.8	31.5	25.3	36.2	27.6	14.8	24.4	28.1	50.2	42.3	45.2	44.7	43.7	33.0
287 Wind - Net	22.6	33.8	31.5	25.3	36.2	27.6	14.8	24.4	28.1	50.2	42.3	45.2	44.7	43.7	33.0
288 Solar - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
289 Other - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
290 Thermal	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116
291 Nuclear - Net	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116
292 Coal - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Loads and Resources - Federal System
Operating Year: 2026 Water Year: 1937
2018 White Book Report Date: **12/1/2018** *Continued*

S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
293 Natural Gas - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
294 Petroleum - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
295 Biofuel - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
296 Cogeneration - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
297 Contract Purchases	172	159	162	164	173	168	167	167	163	161	160	168	172	170	167
298 Imports	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
299 Intra-Regional Transfers (In)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
300 Non-Federal CER	141	132	136	136	137	134	139	139	134	138	138	138	133	139	137
301 Slice Transmission Loss Return	30.0	26.6	25.4	26.3	34.5	33.0	27.6	26.6	27.8	21.5	20.7	29.1	37.6	30.4	29.0
302 Augmentation Purchases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
303 Reserves & Losses	-242	-219	-205	-207	-262	-252	-212	-205	-215	-176	-170	-236	-297	-247	-229
304 Operating Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
305 Balancing Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
306 Transmission Losses	-242	-219	-205	-207	-262	-252	-212	-205	-215	-176	-170	-236	-297	-247	-229
307 Total Net Resources	7814	7087	6653	6692	8535	8187	6892	6674	6990	5715	5505	7586	9605	7981	7408
308 Total Surplus/Deficit	134	-447	-510	-227	160	-810	-1,622	-1,398	-541	-1,021	-1,185	771	2,303	392	-224

Loads and Resources - Federal System
Operating Year: 2027 Water Year: 1937
2018 White Book Report Date: 12/1/2018

S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Firm Obligations															
309 Load Following	3655	3634	3265	3065	3564	4050	3988	3789	3347	3379	3379	3371	3570	3844	3573
310 Preference Customers	3221	3193	2879	2837	3397	3858	3809	3613	3143	3010	3010	2924	3096	3310	3256
311 Federal Agencies	127	126	119	119	149	174	170	163	141	124	124	118	120	130	138
312 USBR	308	315	266	108	18.2	17.7	9.97	14.0	63.0	244	244	329	354	405	179
313 Federal Diversity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
314 Tier 1 Block	382	380	624	530	848	851	925	868	828	424	424	151	21.0	336	564
315 Tier 1 Block	382	380	624	530	848	851	925	868	828	424	424	151	21.0	336	564
316 Slice	2874	2696	2582	2689	3331	3468	3170	2981	2921	2493	2447	2684	3119	2946	2929
317 Slice Block	1299	1299	1246	1306	1517	1731	1722	1584	1465	1367	1367	1323	1295	1353	1434
318 Slice Output from T1 System	1575	1397	1336	1383	1814	1737	1448	1397	1456	1126	1080	1361	1824	1593	1495
319 Direct Service Industries	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	12.0
320 Direct Service Industry	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	12.0
321 Contract Deliveries	540	595	464	464	467	468	468	468	464	464	464	464	464	485	476
322 Exports	530	586	454	454	454	454	454	454	454	454	454	454	454	476	465
323 Intra-Regional Transfers (Out)	9.44	9.44	9.44	9.44	13.2	13.4	13.2	13.4	9.44	9.44	9.44	9.44	9.44	9.44	10.7
324 Firm Surplus Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
325 Total Firm Obligations	7463	7317	6946	6759	8222	8849	8563	8118	7572	6772	6726	6682	7186	7623	7553
Net Resources															
326 Hydro	6746	5997	5548	5593	7473	7127	5806	5572	5898	4565	4357	6492	8596	6897	6323
327 Regulated Hydro - Net	6381	5636	5206	5284	7213	6952	5689	5441	5665	4127	3912	5770	7885	6488	5971
328 Independent Hydro - Net	362	358	340	307	257	172	113	128	230	435	442	719	708	407	349
329 Small Hydro - Net	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
330 Non-Hydro Renewable	22.6	33.8	31.5	25.3	36.2	27.6	5.28	8.73	10.0	17.9	15.1	16.2	16.0	15.6	19.8
331 Wind - Net	22.6	33.8	31.5	25.3	36.2	27.6	5.28	8.73	10.0	17.9	15.1	16.2	16.0	15.6	19.8
332 Solar - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
333 Other - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
334 Thermal	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	360	409	1116	994
335 Nuclear - Net	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	360	409	1116	994
336 Coal - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Loads and Resources - Federal System
Operating Year: 2027 Water Year: 1937
2018 White Book Report Date: 12/1/2018 Continued

S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
337 Natural Gas - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
338 Petroleum - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
339 Biofuel - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
340 Cogeneration - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
341 Contract Purchases	172	159	164	161	173	168	167	168	164	160	160	163	171	169	166
342 Imports	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
343 Intra-Regional Transfers (In)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
344 Non-Federal CER	141	132	138	134	137	134	138	140	135	138	138	136	135	138	137
345 Slice Transmission Loss Return	30.0	26.6	25.4	26.3	34.5	33.0	27.5	26.6	27.7	21.4	20.5	25.9	34.7	30.3	28.4
346 Augmentation Purchases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
347 Reserves & Losses	-242	-219	-205	-207	-262	-252	-212	-205	-215	-175	-169	-212	-276	-246	-225
348 Operating Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
349 Balancing Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
350 Transmission Losses	-242	-219	-205	-207	-262	-252	-212	-205	-215	-175	-169	-212	-276	-246	-225
351 Total Net Resources	7814	7087	6655	6689	8535	8187	6882	6660	6974	5684	5479	6819	8915	7952	7278
352 Total Surplus/Deficit	351	-230	-291	-70	313	-661	-1,681	-1,458	-598	-1,088	-1,247	137	1,729	329	-275

Loads and Resources - Federal System
Operating Year: 2028 Water Year: 1937
2018 White Book Report Date: 12/1/2018

S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Firm Obligations															
353 Load Following	3643	3672	3277	3078	3579	4066	4007	3753	3363	3407	3380	3382	3581	3855	3583
354 Preference Customers	3200	3238	2891	2850	3412	3874	3827	3579	3158	3039	3010	2935	3107	3321	3266
355 Federal Agencies	126	128	120	120	149	175	170	160	142	125	125	118	120	130	138
356 USBR	316	306	266	108	18.2	17.7	9.97	13.9	63.0	243	245	329	354	405	179
357 Federal Diversity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
358 Tier 1 Block	379	382	624	530	849	852	926	840	829	426	423	152	21.0	336	563
359 Tier 1 Block	379	382	624	530	849	852	926	840	829	426	423	152	21.0	336	563
360 Slice	2901	2714	2602	2661	3298	3432	3139	2897	2894	2465	2425	2825	3244	2921	2931
361 Slice Block	1325	1325	1271	1282	1489	1699	1691	1501	1438	1342	1342	1299	1272	1328	1412
362 Slice Output from T1 System	1576	1389	1332	1379	1809	1733	1448	1396	1456	1123	1083	1526	1973	1593	1519
363 Direct Service Industries	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	12.0
364 Direct Service Industry	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	12.0
365 Contract Deliveries	504	629	464	464	468	468	468	468	464	482	446	464	464	485	476
366 Exports	494	620	454	454	454	454	454	454	454	472	436	454	454	476	465
367 Intra-Regional Transfers (Out)	9.44	9.44	9.44	9.44	13.3	13.4	13.2	13.5	9.44	9.44	9.44	9.44	9.44	9.44	10.7
368 Firm Surplus Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
369 Total Firm Obligations	7438	7409	6979	6745	8205	8830	8551	7969	7562	6791	6685	6834	7322	7610	7565
Net Resources															
370 Hydro	6746	5997	5548	5593	7473	7127	5806	5572	5898	4565	4357	6492	8570	6898	6319
371 Regulated Hydro - Net	6381	5636	5206	5284	7213	6952	5689	5441	5665	4127	3912	5770	7859	6488	5967
372 Independent Hydro - Net	362	358	340	307	257	172	113	128	230	435	442	719	708	407	349
373 Small Hydro - Net	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
374 Non-Hydro Renewable	8.06	12.1	11.2	1.45	0	0	0	0	0	0	0	0	0	0	1.90
375 Wind - Net	8.06	12.1	11.2	1.45	0	0	0	0	0	0	0	0	0	0	1.90
376 Solar - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
377 Other - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
378 Thermal	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116
379 Nuclear - Net	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116
380 Coal - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Loads and Resources - Federal System
Operating Year: 2028 Water Year: 1937
2018 White Book Report Date: 12/1/2018 *Continued*

S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
381 Natural Gas - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
382 Petroleum - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
383 Biofuel - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
384 Cogeneration - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
385 Contract Purchases	161	169	164	160	173	168	167	164	164	165	153	167	174	168	166
386 Imports	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
387 Intra-Regional Transfers (In)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
388 Non-Federal CER	130	142	138	133	138	134	138	136	135	143	132	137	135	137	136
389 Slice Transmission Loss Return	30.0	26.4	25.3	26.2	34.4	33.0	27.5	26.5	27.7	21.4	20.6	29.0	37.5	30.3	28.9
390 Augmentation Purchases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
391 Reserves & Losses	-241	-219	-205	-206	-261	-251	-212	-204	-214	-175	-168	-234	-296	-246	-228
392 Operating Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
393 Balancing Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
394 Transmission Losses	-241	-219	-205	-206	-261	-251	-212	-204	-214	-175	-168	-234	-296	-246	-228
395 Total Net Resources	7790	7075	6635	6665	8501	8161	6877	6648	6964	5671	5458	7541	9563	7937	7375
396 Total Surplus/Deficit	351	-334	-344	-80	295	-670	-1,674	-1,321	-597	-1,120	-1,227	707	2,241	327	-190

Loads and Resources - Federal System
Operating Year: 2029 Water Year: 1937
2018 White Book Report Date: 12/1/2018
S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Firm Obligations															
397 Load Following	3667	3670	3287	3091	3593	4082	4020	3806	3354	3390	3417	3390	3591	3865	3596
398 Preference Customers	3228	3232	2900	2863	3426	3889	3839	3628	3148	3020	3048	2943	3116	3330	3278
399 Federal Agencies	127	127	120	120	150	175	171	164	142	125	126	118	121	131	139
400 USBR	312	311	266	108	18.2	17.7	9.97	14.0	63.0	245	243	329	354	405	179
401 Federal Diversity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
402 Tier 1 Block	381	381	624	528	846	849	923	866	826	422	425	151	21.0	335	563
403 Tier 1 Block	381	381	624	528	846	849	923	866	826	422	425	151	21.0	335	563
404 Slice	2875	2692	2579	2678	3317	3454	3160	2972	2913	2488	2437	2676	3113	2939	2921
405 Slice Block	1301	1301	1247	1299	1508	1721	1712	1575	1457	1360	1360	1315	1288	1346	1427
406 Slice Output from T1 System	1574	1391	1332	1379	1809	1733	1448	1397	1456	1128	1078	1361	1824	1593	1493
407 Direct Service Industries	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	12.0
408 Direct Service Industry	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	12.0
409 Contract Deliveries	522	612	464	464	468	468	468	468	464	446	482	464	464	485	476
410 Exports	513	602	454	454	454	454	454	454	454	436	472	454	454	476	465
411 Intra-Regional Transfers (Out)	9.44	9.44	9.44	9.44	13.3	13.2	13.4	13.4	9.44	9.44	9.44	9.44	9.44	9.44	10.7
412 Firm Surplus Sale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
413 Total Firm Obligations	7458	7366	6966	6774	8236	8865	8582	8124	7568	6757	6773	6694	7200	7636	7567
Net Resources															
414 Hydro	6746	5997	5548	5593	7473	7127	5806	5572	5898	4565	4357	6492	8596	6897	6323
415 Regulated Hydro - Net	6381	5636	5206	5284	7213	6952	5689	5441	5665	4127	3912	5770	7885	6488	5971
416 Independent Hydro - Net	362	358	340	307	257	172	113	128	230	435	442	719	708	407	349
417 Small Hydro - Net	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
418 Non-Hydro Renewable	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
419 Wind - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
420 Solar - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
421 Other - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
422 Thermal	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	360	409	1116	994
423 Nuclear - Net	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	360	409	1116	994
424 Coal - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Loads and Resources - Federal System
Operating Year: 2029 Water Year: 1937
2018 White Book Report Date: 12/1/2018 *Continued*

S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
425 Natural Gas - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
426 Petroleum - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
427 Biofuel - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
428 Cogeneration - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
429 Contract Purchases	167	165	164	160	173	168	167	168	164	154	164	164	171	168	166
430 Imports	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
431 Intra-Regional Transfers (In)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
432 Non-Federal CER	136	137	138	133	138	134	139	140	135	132	143	137	135	137	137
433 Slice Transmission Loss Return	29.9	26.5	25.3	26.2	34.4	33.0	27.5	26.6	27.7	21.5	20.5	25.9	34.7	30.3	28.4
434 Augmentation Purchases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
435 Reserves & Losses	-241	-218	-204	-206	-261	-251	-212	-205	-214	-175	-169	-212	-276	-246	-224
436 Operating Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
437 Balancing Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
438 Transmission Losses	-241	-218	-204	-206	-261	-251	-212	-205	-214	-175	-169	-212	-276	-246	-224
439 Total Net Resources	7788	7059	6624	6664	8501	8160	6878	6652	6964	5661	5469	6804	8900	7936	7258
440 Total Surplus/Deficit	330	-307	-342	-110	264	-705	-1,705	-1,472	-604	-1,097	-1,304	110	1,700	300	-308

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Exhibit 24
Regional Report Surplus Deficit

Monthly Energy
Operating Year 2020 to 2029
Using 1937-Water Conditions

Loads and Resources - Pacific Northwest Region

Operating Year: 2020 Water Year: 1937

2018 White Book Report Date: 12/1/2018

S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Regional Loads															
1 Retail Loads	22581	22596	20639	20634	23423	25790	25484	24207	22272	21434	21434	20976	21592	23289	22696
2 Federal Agency	112	112	105	119	143	168	164	154	137	123	123	117	119	129	133
3 USBR	312	311	266	108	18.2	17.7	9.97	13.9	63.0	244	244	329	354	405	179
4 Cooperative	2282	2283	2014	1925	2214	2502	2472	2345	2112	2084	2084	2127	2316	2474	2239
5 Municipality	2386	2389	2292	2461	2840	3121	3139	3000	2719	2535	2535	2350	2329	2384	2629
6 Public Utility District	4185	4188	3896	4071	4706	5297	5266	4913	4499	4189	4189	3966	4026	4253	4439
7 Investor-Owned Utility	12898	12908	11661	11545	13097	14279	14027	13377	12338	11852	11852	11682	12042	13239	12672
8 Marketer	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
9 Direct-Service Industry	401	401	401	402	402	402	402	401	401	402	402	401	401	401	401
10 Federal Diversity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 Exports	1273	1473	1304	1064	1251	1103	816	983	1038	1423	1293	1338	1389	1505	1210
12 Canada	546	551	456	456	456	456	456	456	456	456	456	456	456	478	466
13 East Continental Divide	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
14 Inland Southwest	9.27	13.9	12.9	24.9	28.8	24.8	6.07	10.0	11.5	20.6	17.4	18.6	18.4	18.0	17.1
15 Pacific Southwest	716	908	834	581	765	621	353	516	569	945	818	862	913	1008	726
16 Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 Total Regional Loads	23854	24070	21943	21698	24675	26894	26300	25190	23310	22857	22727	22314	22981	24794	23906
Regional Resources															
18 Hydro	12233	10850	10005	10645	12176	12250	11359	9991	10224	9776	8757	12523	16877	13043	11661
19 Regulated Hydro - Net	10905	9531	8786	9574	11228	11255	10521	9082	9098	8172	7136	10512	14826	11494	10356
20 Independent Hydro - Net	1000	995	976	907	817	867	712	775	961	1320	1336	1605	1625	1141	1059
21 Small Hydro - Net	328	324	243	163	130	129	127	135	165	284	285	406	425	408	245
22 Non-Hydro Renewable	1538	2131	1990	1676	2238	1762	1059	1610	1818	2992	2587	2779	2772	2740	2089
23 Wind - Net	1189	1782	1654	1363	1954	1498	815	1338	1517	2662	2258	2420	2424	2360	1774
24 Solar - Net	173	173	159	135	106	86.7	78.1	93.9	124	152	152	181	190	205	140
25 Other - Net	176	176	176	178	178	178	166	178	178	177	177	178	157	175	175
26 Thermal	14915	15003	15077	15132	15307	15453	15423	15376	14412	14192	12433	10477	13039	14964	14408
27 Nuclear - Net	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116
28 Coal - Net	5332	5333	5336	5337	5335	5339	5339	5338	5204	4423	4226	3410	5142	5335	5063
29 Natural Gas - Net	6018	6106	6170	6230	6360	6438	6444	6381	6327	6207	5198	3814	4402	6101	5869
30 Petroleum - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31 Biofuel - Net	23.7	23.7	25.5	26.8	27.1	24.7	24.4	24.5	27.1	25.5	25.5	27.3	25.1	25.9	25.7

Loads and Resources - Pacific Northwest Region
Operating Year: 2020 Water Year: 1937
2018 White Book Report Date: **12/1/2018** *Continued*

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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
³² Cogeneration - Net	2425	2425	2429	2422	2470	2536	2499	2517	1737	2421	1867	2110	2353	2385	2334
³³ Imports	622	622	561	584	773	872	710	709	611	508	508	554	696	745	662
³⁴ Canada	20.8	20.8	15.8	22.0	38.9	49.3	62.3	70.8	62.7	30.2	30.2	28.9	38.6	27.0	38.8
³⁵ East of Continental Divide	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
³⁶ Inland Southwest	536	536	482	448	440	474	446	461	434	414	414	462	592	654	487
³⁷ Pacific Southwest	64.4	64.6	63.3	115	295	348	201	178	114	64.4	64.4	63.4	64.4	64.0	136
³⁸ Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
³⁹ Reserves & Losses	-870	-850	-821	-833	-906	-901	-848	-822	-804	-816	-721	-782	-991	-935	-856
⁴⁰ Operating Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
⁴¹ Balancing Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
⁴² Transmission Losses	-870	-850	-821	-833	-906	-901	-848	-822	-804	-816	-721	-782	-991	-935	-856
⁴³ Total Regional Resources	28438	27756	26811	27204	29588	29437	27703	26863	26261	26652	23564	25552	32391	30556	27964
⁴⁴ Total Surplus/Deficit	4585	3686	4869	5507	4914	2543	1403	1673	2951	3795	838	3238	9410	5762	4058

Loads and Resources - Pacific Northwest Region

Operating Year: 2021 Water Year: 1937

2018 White Book Report Date: 12/1/2018

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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Regional Loads															
45 Retail Loads	22884	22727	20878	20884	23677	26059	25744	24749	22508	21676	21676	21216	21834	23524	22959
46 Federal Agency	126	126	119	124	149	174	169	162	142	129	129	122	124	134	139
47 USBR	308	315	266	108	18.2	17.7	9.97	14.0	63.0	244	244	329	354	405	179
48 Cooperative	2393	2376	2126	2059	2347	2647	2595	2501	2236	2198	2198	2241	2429	2578	2362
49 Municipality	2406	2384	2310	2470	2848	3129	3147	3020	2726	2542	2542	2357	2336	2391	2638
50 Public Utility District	4234	4208	3932	4116	4753	5348	5339	5052	4547	4253	4253	4028	4092	4322	4498
51 Investor-Owned Utility	13012	12913	11720	11602	13157	14337	14078	13595	12388	11904	11904	11733	12093	13290	12737
52 Marketer	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
53 Direct-Service Industry	402	401	401	402	402	402	402	401	401	402	402	401	401	401	401
54 Federal Diversity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55 Exports	1204	1456	1266	980	1168	1021	747	914	969	1354	1224	1269	1320	1436	1143
56 Canada	514	571	439	439	439	439	439	439	439	439	439	439	439	460	450
57 East Continental Divide	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
58 Inland Southwest	9.27	13.9	12.9	10.4	14.9	11.3	6.07	10.0	11.5	20.6	17.4	18.6	18.4	18.0	13.6
59 Pacific Southwest	679	870	813	530	714	569	301	464	517	893	766	810	862	957	679
60 Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61 Total Regional Loads	24088	24183	22144	21864	24845	27080	26491	25663	23477	23030	22900	22485	23154	24960	24102
Regional Resources															
62 Hydro	11315	10373	9488	10647	12177	12250	11314	9939	10146	9694	8675	12502	16863	13033	11540
63 Regulated Hydro - Net	9987	9052	8265	9574	11228	11255	10521	9082	9098	8172	7136	10519	14833	11484	10259
64 Independent Hydro - Net	1000	995	976	907	817	867	667	723	883	1238	1254	1577	1605	1141	1035
65 Small Hydro - Net	328	326	247	165	131	129	127	135	165	284	285	406	425	408	246
66 Hon-Hydro Renewable	1616	2208	2064	1674	2234	1759	1058	1607	1815	2986	2583	2774	2762	2735	2099
67 Wind - Net	1254	1846	1717	1360	1950	1495	813	1335	1513	2656	2253	2414	2419	2355	1782
68 Solar - Net	186	186	171	136	107	87.2	78.5	94.4	124	153	153	181	191	205	143
69 Other - Net	176	176	176	178	178	178	166	177	178	177	177	178	152	175	174
70 Thermal	14996	15003	15077	15132	15345	14827	14305	14261	13165	13867	12114	10131	11251	13881	13778
71 Nuclear - Net	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	360	409	1116	994
72 Coal - Net	5332	5333	5336	5337	5335	4712	4224	4223	3959	4104	3907	3826	4029	4220	4546
73 Natural Gas - Net	6099	6106	6170	6230	6360	6438	6444	6381	6327	6207	5198	3792	4432	6101	5871
74 Petroleum - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75 Biofuel - Net	23.7	23.7	25.5	26.8	27.1	24.7	24.4	24.5	27.1	25.5	25.5	27.3	25.1	25.9	25.7

Loads and Resources - Pacific Northwest Region
Operating Year: 2021 Water Year: 1937
2018 White Book Report Date: **12/1/2018** *Continued*
S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
76 Cogeneration - Net	2425	2425	2429	2422	2507	2536	2497	2517	1736	2415	1867	2126	2356	2418	2341
77 Imports	627	626	565	587	775	875	712	711	614	511	511	557	701	688	660
78 Canada	20.8	20.8	15.8	22.0	38.9	49.3	62.3	70.8	62.7	30.2	30.2	28.9	38.6	27.0	38.8
79 East of Continental Divide	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80 Inland Southwest	542	542	485	451	442	477	449	463	437	417	417	465	598	661	491
81 Pacific Southwest	64.4	63.5	63.9	115	294	349	201	178	115	64.4	64.4	63.4	64.4	0	131
82 Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
83 Reserves & Losses	-848	-838	-808	-833	-907	-882	-813	-788	-764	-804	-709	-771	-938	-901	-834
84 Operating Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
85 Balancing Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
86 Transmission Losses	-848	-838	-808	-833	-907	-882	-813	-788	-764	-804	-709	-771	-938	-901	-834
87 Total Regional Resources	27707	27372	26386	27207	29624	28829	26575	25730	24976	26254	23173	25194	30639	29435	27243
88 Total Surplus/Deficit	3619	3189	4242	5343	4779	1749	84.3	67.2	1499	3224	273	2708	7485	4475	3141

Loads and Resources - Pacific Northwest Region

Operating Year: 2022 Water Year: 1937

2018 White Book Report Date: 12/1/2018

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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Regional Loads															
89 Retail Loads	22927	23145	21108	21107	23913	26290	26295	25319	23053	22181	22181	21725	22330	24028	23361
90 Federal Agency	131	132	124	130	155	179	175	168	147	135	135	128	130	140	145
91 USBR	316	306	266	108	18.2	17.7	9.97	14.0	63.0	244	244	329	354	405	179
92 Cooperative	2479	2503	2229	2155	2451	2742	2728	2645	2368	2333	2333	2382	2562	2715	2483
93 Municipality	2386	2416	2317	2475	2853	3134	3182	3054	2759	2574	2574	2389	2367	2422	2659
94 Public Utility District	4269	4305	3995	4182	4822	5422	5663	5379	4868	4531	4531	4305	4365	4598	4699
95 Investor-Owned Utility	12940	13077	11771	11651	13208	14388	14131	13654	12442	11959	11959	11787	12147	13343	12790
96 Marketer	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
97 Direct-Service Industry	401	402	401	402	402	402	402	401	401	402	402	401	401	401	401
98 Federal Diversity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
99 Exports	880	1200	994	886	1068	919	696	864	927	1311	1181	1232	1223	1227	1028
100 Canada	479	604	439	439	439	439	439	439	439	439	439	439	439	460	450
101 East Continental Divide	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
102 Inland Southwest	9.27	13.9	12.9	10.4	14.9	11.3	6.07	10.0	11.5	20.6	17.4	18.6	18.4	18.0	13.6
103 Pacific Southwest	390	581	541	436	613	468	250	414	476	851	724	774	765	748	563
104 Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
105 Total Regional Loads	23807	24345	22101	21993	24981	27208	26991	26183	23980	23493	23363	22957	23554	25256	24388
Regional Resources															
106 Hydro	11302	10373	9479	10614	12137	12205	11314	9939	10146	9694	8675	12502	16856	13033	11528
107 Regulated Hydro - Net	9974	9052	8265	9574	11228	11255	10521	9082	9098	8172	7136	10519	14826	11484	10258
108 Independent Hydro - Net	1000	995	967	874	778	822	667	723	883	1238	1254	1577	1605	1141	1024
109 Small Hydro - Net	328	326	247	165	131	129	127	135	165	284	285	406	425	408	246
110 Hon-Hydro Renewable	1614	2204	2061	1674	2234	1759	1058	1607	1815	2986	2583	2762	2762	2735	2098
111 Wind - Net	1252	1842	1714	1360	1950	1495	813	1335	1513	2656	2253	2414	2419	2355	1781
112 Solar - Net	186	186	171	136	107	87.2	78.5	94.4	124	153	153	181	191	205	143
113 Other - Net	176	177	176	178	178	178	166	177	178	177	177	167	152	175	173
114 Thermal	13880	13886	13924	14023	14228	14337	14190	14145	13351	12076	10690	10648	12051	13485	13302
115 Nuclear - Net	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116
116 Coal - Net	4217	4217	4221	4222	4219	4223	4109	4108	4026	2680	2484	3611	4123	3824	3958
117 Natural Gas - Net	6099	6106	6170	6230	6360	6438	6444	6381	6327	6207	5198	3777	4432	6101	5870
118 Petroleum - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
119 Biofuel - Net	23.7	23.7	25.5	26.8	27.1	24.7	24.4	24.5	27.1	25.5	25.5	27.3	25.1	25.9	25.7

Loads and Resources - Pacific Northwest Region
Operating Year: 2022 Water Year: 1937
2018 White Book Report Date: **12/1/2018** *Continued*

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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
120 Cogeneration - Net	2424	2424	2391	2428	2507	2535	2496	2516	1855	2048	1867	2116	2355	2417	2332
121 Imports	569	569	504	476	664	764	601	600	502	449	449	497	643	694	580
122 Canada	20.8	20.8	15.8	22.0	38.9	49.3	62.3	70.8	62.7	30.2	30.2	28.9	38.6	27.0	38.8
123 East of Continental Divide	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
124 Inland Southwest	548	548	488	454	445	480	451	466	440	419	419	468	605	667	494
125 Pacific Southwest	0	0	0	0	181	235	87.4	63.3	0	0	0	0	0	0	47.1
126 Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
127 Reserves & Losses	-813	-803	-771	-796	-869	-863	-807	-781	-767	-749	-665	-784	-960	-889	-817
128 Operating Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
129 Balancing Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
130 Transmission Losses	-813	-803	-771	-796	-869	-863	-807	-781	-767	-749	-665	-784	-960	-889	-817
131 Total Regional Resources	26551	26229	25195	25990	28395	28202	26356	25510	25048	24457	21732	25625	31352	29057	26691
132 Total Surplus/Deficit	2744	1884	3094	3997	3414	994	-635	-673	1067	964	-1631	2669	7798	3801	2303

Loads and Resources - Pacific Northwest Region

Operating Year: 2023 Water Year: 1937

2018 White Book Report Date: 12/1/2018

S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Regional Loads															
133 Retail Loads	23536	23551	21600	21585	24413	26810	26431	25448	23174	22395	22236	21843	22435	24142	23641
134 Federal Agency	137	137	130	129	154	179	174	167	147	134	133	127	129	139	145
135 USBR	312	311	266	108	18.2	17.7	9.97	14.0	63.0	243	245	329	354	405	179
136 Cooperative	2630	2631	2362	2267	2560	2849	2805	2713	2435	2418	2401	2446	2628	2789	2574
137 Municipality	2431	2434	2347	2506	2887	3170	3187	3059	2765	2594	2568	2396	2375	2431	2676
138 Public Utility District	4562	4565	4264	4466	5126	5748	5664	5377	4864	4543	4513	4300	4343	4579	4817
139 Investor-Owned Utility	13058	13068	11824	11703	13263	14441	14184	13712	12495	12057	11971	11840	12201	13396	12843
140 Marketer	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
141 Direct-Service Industry	401	401	401	402	402	402	402	401	401	402	401	401	401	401	401
142 Federal Diversity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
143 Exports	898	1183	994	886	1068	883	677	832	891	1264	1109	1174	1166	1171	998
144 Canada	497	587	439	439	439	439	439	439	439	456	421	439	439	460	450
145 East Continental Divide	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
146 Inland Southwest	9.27	13.9	12.9	10.4	14.9	11.3	6.07	10.0	11.5	20.6	17.4	18.6	18.4	18.0	13.6
147 Pacific Southwest	390	581	541	436	613	432	231	382	440	786	670	716	708	692	534
148 Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
149 Total Regional Loads	24434	24734	22593	22471	25481	27693	27108	26280	24065	23659	23345	23018	23600	25314	24639
Regional Resources															
150 Hydro	11302	10373	9479	10614	12137	12205	11314	9939	10146	9693	8675	12499	16857	13033	11528
151 Regulated Hydro - Net	9974	9052	8265	9574	11228	11255	10521	9082	9098	8172	7136	10516	14828	11484	10257
152 Independent Hydro - Net	1000	995	967	874	778	822	667	723	883	1238	1254	1577	1605	1141	1024
153 Small Hydro - Net	328	326	247	165	131	129	127	135	165	284	285	406	425	408	246
154 Hon-Hydro Renewable	1614	2204	2061	1674	2234	1759	1058	1607	1815	2986	2583	2762	2762	2735	2098
155 Wind - Net	1252	1842	1714	1360	1950	1495	813	1335	1513	2656	2253	2414	2419	2355	1781
156 Solar - Net	186	186	171	136	107	87.2	78.5	94.4	124	153	153	181	191	205	143
157 Other - Net	176	177	176	178	178	178	166	177	178	177	177	167	152	175	173
158 Thermal	13485	13492	13515	13569	13744	13889	13859	13812	12696	12646	10939	9697	11027	13402	12870
159 Nuclear - Net	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	360	409	1116	994
160 Coal - Net	3821	3822	3825	3826	3824	3828	3828	3827	3541	2926	2729	3431	3842	3824	3687
161 Natural Gas - Net	6099	6106	6119	6178	6307	6385	6391	6328	6274	6154	5198	3768	4398	6051	5830
162 Petroleum - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
163 Biofuel - Net	23.7	23.7	25.5	26.8	27.1	24.7	24.4	24.5	27.1	25.5	25.5	27.3	25.1	25.9	25.7

Loads and Resources - Pacific Northwest Region
Operating Year: 2023 Water Year: 1937
2018 White Book Report Date: **12/1/2018** *Continued*

S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
164 Cogeneration - Net	2425	2425	2429	2422	2470	2536	2499	2517	1737	2424	1870	2110	2353	2385	2334
165 Imports	575	574	507	479	667	767	603	602	505	452	452	500	649	702	584
166 Canada	20.8	20.8	15.8	22.0	38.9	49.3	62.3	70.8	62.7	30.2	30.2	28.9	38.6	27.0	38.8
167 East of Continental Divide	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
168 Inland Southwest	554	554	491	457	447	483	453	468	443	422	422	471	611	674	498
169 Pacific Southwest	0	0	0	0	181	235	87.4	63.3	0	0	0	0	0	0	47.1
170 Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
171 Reserves & Losses	-801	-791	-759	-782	-855	-850	-797	-771	-747	-766	-673	-756	-929	-887	-804
172 Operating Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
173 Balancing Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
174 Transmission Losses	-801	-791	-759	-782	-855	-850	-797	-771	-747	-766	-673	-756	-929	-887	-804
175 Total Regional Resources	26174	25852	24802	25553	27926	27771	26037	25189	24415	25013	21976	24702	30366	28984	26276
176 Total Surplus/Deficit	1741	1118	2209	3082	2445	77.8	-1071	-1091	350	1353	-1369	1684	6765	3671	1637

Loads and Resources - Pacific Northwest Region

Operating Year: 2024 Water Year: 1937

2018 White Book Report Date: 12/1/2018

S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Regional Loads															
177 Retail Loads	23634	23650	21700	21685	24512	26920	26563	25261	23307	22439	22439	21962	22575	24274	23739
178 Federal Agency	136	136	129	129	154	179	175	165	147	134	134	127	129	139	145
179 USBR	312	311	266	108	18.2	17.7	9.97	13.9	63.0	244	244	329	354	405	179
180 Cooperative	2694	2696	2431	2338	2627	2923	2874	2746	2510	2476	2476	2510	2691	2841	2639
181 Municipality	2439	2442	2355	2514	2893	3177	3194	3053	2772	2586	2586	2402	2381	2437	2683
182 Public Utility District	4537	4540	4236	4436	5098	5724	5669	5280	4864	4527	4527	4298	4363	4602	4803
183 Investor-Owned Utility	13111	13120	11878	11755	13317	14494	14235	13597	12546	12066	12066	11890	12252	13446	12884
184 Marketer	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
185 Direct-Service Industry	401	401	401	402	402	402	402	401	401	402	402	401	401	401	401
186 Federal Diversity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
187 Exports	869	1139	936	840	1002	869	669	819	876	1220	1104	1150	1142	1148	968
188 Canada	497	587	439	439	439	439	439	439	439	439	439	439	439	460	450
189 East Continental Divide	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
190 Inland Southwest	9.27	13.9	12.9	10.4	14.9	11.3	6.07	10.0	11.5	20.6	17.4	18.6	18.4	18.0	13.6
191 Pacific Southwest	361	538	484	390	548	417	223	369	425	760	647	692	684	669	504
192 Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
193 Total Regional Loads	24503	24789	22637	22526	25514	27789	27232	26080	24183	23659	23543	23112	23717	25422	24707
Regional Resources															
194 Hydro	11302	10373	9479	10614	12137	12205	11314	9939	10146	9693	8675	12492	16820	13033	11520
195 Regulated Hydro - Net	9974	9052	8265	9574	11228	11255	10521	9082	9098	8172	7136	10510	14790	11484	10251
196 Independent Hydro - Net	1000	995	967	874	778	822	667	723	883	1238	1254	1577	1605	1141	1023
197 Small Hydro - Net	328	326	247	165	131	129	127	135	165	284	285	406	425	408	246
198 Hon-Hydro Renewable	1614	2204	2061	1674	2234	1759	1058	1607	1815	2986	2583	2774	2767	2735	2098
199 Wind - Net	1252	1842	1714	1360	1950	1495	813	1335	1513	2656	2253	2414	2419	2355	1780
200 Solar - Net	186	186	171	136	107	87.2	78.5	94.4	124	153	153	181	191	205	143
201 Other - Net	176	177	176	178	178	178	166	178	178	177	177	178	157	175	175
202 Thermal	13435	13442	13515	13569	13781	13889	13856	13812	12952	13368	11667	10291	11707	13435	13062
203 Nuclear - Net	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116
204 Coal - Net	3821	3822	3825	3826	3824	3828	3828	3827	3799	3654	3457	3216	3842	3824	3751
205 Natural Gas - Net	6049	6055	6119	6178	6307	6385	6391	6328	6274	6154	5198	3805	4368	6051	5827
206 Petroleum - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
207 Biofuel - Net	23.7	23.7	25.5	26.8	27.1	24.7	24.4	24.5	27.1	25.5	25.5	27.3	25.1	25.9	25.7

Loads and Resources - Pacific Northwest Region
Operating Year: 2024 Water Year: 1937
2018 White Book Report Date: **12/1/2018** *Continued*

S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
208 Cogeneration - Net	2425	2425	2429	2422	2507	2536	2497	2517	1736	2418	1870	2127	2356	2418	2342
209 Imports	580	580	510	482	669	770	605	605	508	455	455	503	656	708	588
210 Canada	20.8	20.8	15.8	22.0	38.9	49.3	62.3	70.8	62.7	30.2	30.2	28.9	38.6	27.0	38.8
211 East of Continental Divide	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
212 Inland Southwest	560	559	494	460	449	485	456	471	445	425	425	474	617	681	502
213 Pacific Southwest	0	0	0	0	181	235	87.4	63.3	0	0	0	0	0	0	47.1
214 Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
215 Reserves & Losses	-800	-790	-759	-782	-856	-850	-797	-771	-755	-787	-694	-774	-949	-888	-810
216 Operating Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
217 Balancing Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
218 Transmission Losses	-800	-790	-759	-782	-856	-850	-797	-771	-755	-787	-694	-774	-949	-888	-810
219 Total Regional Resources	26131	25809	24805	25556	27965	27773	26037	25192	24666	25715	22685	25286	31001	29022	26457
220 Total Surplus/Deficit	1628	1020	2168	3030	2451	-15.1	-1195	-888	483	2057	-858	2174	7284	3600	1750

Loads and Resources - Pacific Northwest Region

Operating Year: 2025 Water Year: 1937

2018 White Book Report Date: 12/1/2018

S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Regional Loads															
221 Retail Loads	23763	23779	21822	21800	24631	27035	26681	25689	23391	22541	22541	22062	22673	24378	23869
222 Federal Agency	136	136	129	130	155	181	176	169	148	135	135	128	131	140	147
223 USBR	312	311	266	108	18.2	17.7	9.97	14.0	63.0	244	244	329	354	405	179
224 Cooperative	2746	2748	2478	2378	2668	2957	2903	2812	2529	2492	2492	2524	2705	2855	2670
225 Municipality	2445	2448	2361	2519	2897	3182	3199	3071	2777	2592	2592	2408	2387	2444	2689
226 Public Utility District	4557	4560	4255	4455	5119	5748	5701	5396	4874	4555	4555	4327	4390	4633	4832
227 Investor-Owned Utility	13160	13170	11929	11804	13368	14545	14285	13822	12595	12117	12117	11940	12302	13496	12946
228 Marketer	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
229 Direct-Service Industry	401	401	401	402	402	402	402	401	401	402	402	401	401	401	401
230 Federal Diversity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
231 Exports	872	1137	952	856	1018	884	685	835	892	1236	1120	1166	1158	1164	983
232 Canada	513	602	454	454	454	454	454	454	454	454	454	454	454	476	465
233 East Continental Divide	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
234 Inland Southwest	9.27	13.9	12.9	10.4	14.9	11.3	6.07	10.0	11.5	20.6	17.4	18.6	18.4	18.0	13.6
235 Pacific Southwest	349	520	484	390	548	417	223	369	425	760	647	692	684	669	503
236 Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
237 Total Regional Loads	24635	24915	22774	22656	25649	27919	27365	26524	24283	23776	23661	23228	23831	25541	24852
Regional Resources															
238 Hydro	11302	10373	9479	10614	12137	12205	11314	9939	10146	9693	8675	12499	16846	13032	11527
239 Regulated Hydro - Net	9974	9052	8265	9574	11228	11255	10521	9082	9098	8172	7136	10517	14817	11484	10257
240 Independent Hydro - Net	1000	995	967	874	778	822	667	723	883	1238	1254	1577	1605	1141	1024
241 Small Hydro - Net	328	326	247	165	131	129	127	135	165	284	285	406	425	408	246
242 Hon-Hydro Renewable	1614	2204	2061	1674	2234	1759	1058	1607	1815	2986	2583	2774	2762	2735	2099
243 Wind - Net	1252	1842	1714	1360	1950	1495	813	1335	1513	2656	2253	2414	2419	2355	1781
244 Solar - Net	186	186	171	136	107	87.2	78.5	94.4	124	153	153	181	191	205	143
245 Other - Net	177	177	176	178	178	178	166	177	178	177	177	178	152	175	174
246 Thermal	13434	13441	13477	13575	13780	13888	13856	13812	12853	12333	10999	9489	11029	13434	12854
247 Nuclear - Net	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	360	409	1116	994
248 Coal - Net	3821	3822	3825	3826	3824	3828	3828	3827	3580	2989	2792	3202	3842	3824	3676
249 Natural Gas - Net	6049	6055	6119	6178	6307	6385	6391	6328	6274	6154	5198	3783	4398	6051	5827
250 Petroleum - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
251 Biofuel - Net	23.7	23.7	25.5	26.8	27.1	24.7	24.4	24.5	27.1	25.5	25.5	27.3	25.1	25.9	25.7

Loads and Resources - Pacific Northwest Region
Operating Year: 2025 Water Year: 1937
2018 White Book Report Date: **12/1/2018** *Continued*

S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
252 Cogeneration - Net	2424	2424	2391	2428	2507	2535	2496	2516	1855	2048	1867	2116	2355	2417	2332
253 Imports	586	586	514	484	671	773	608	608	511	458	458	506	663	715	591
254 Canada	20.8	20.8	15.8	22.0	38.9	49.3	62.3	70.8	62.7	30.2	30.2	28.9	38.6	27.0	38.8
255 East of Continental Divide	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
256 Inland Southwest	565	565	498	462	452	488	458	473	448	428	428	477	624	688	506
257 Pacific Southwest	0	0	0	0	181	235	87.4	63.3	0	0	0	0	0	0	47.1
258 Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
259 Reserves & Losses	-800	-790	-758	-783	-856	-850	-797	-771	-752	-756	-675	-750	-930	-889	-804
260 Operating Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
261 Balancing Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
262 Transmission Losses	-800	-790	-758	-783	-856	-850	-797	-771	-752	-756	-675	-750	-930	-889	-804
263 Total Regional Resources	26136	25814	24772	25565	27967	27775	26039	25194	24573	24714	22040	24518	30370	29028	26267
264 Total Surplus/Deficit	1501	898	1998	2908	2318	-144	-1326	-1330	290	937	-1621	1290	6539	3487	1416

Loads and Resources - Pacific Northwest Region

Operating Year: 2026 Water Year: 1937

2018 White Book Report Date: 12/1/2018

S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Regional Loads															
265 Retail Loads	23956	23795	21924	21899	24734	27139	26795	25820	23520	22648	22648	22166	22782	24487	23978
266 Federal Agency	138	137	130	130	156	181	177	170	149	135	135	129	131	141	147
267 USBR	308	315	266	108	18.2	17.7	9.97	14.0	63.0	244	244	329	354	405	179
268 Cooperative	2770	2752	2491	2393	2683	2973	2920	2827	2544	2507	2507	2537	2718	2869	2685
269 Municipality	2465	2443	2367	2525	2903	3188	3206	3078	2784	2598	2598	2414	2393	2450	2695
270 Public Utility District	4603	4577	4285	4484	5149	5780	5744	5452	4932	4591	4591	4364	4430	4674	4871
271 Investor-Owned Utility	13266	13166	11978	11852	13419	14594	14333	13874	12643	12166	12166	11988	12350	13544	12995
272 Marketer	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
273 Direct-Service Industry	402	401	401	402	402	402	402	401	401	402	402	401	401	401	401
274 Federal Diversity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
275 Exports	890	1121	952	856	1018	884	685	835	892	1236	1120	1166	1158	1164	983
276 Canada	530	586	454	454	454	454	454	454	454	454	454	454	454	476	465
277 East Continental Divide	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
278 Inland Southwest	9.27	13.9	12.9	10.4	14.9	11.3	6.07	10.0	11.5	20.6	17.4	18.6	18.4	18.0	13.6
279 Pacific Southwest	349	520	484	390	548	417	223	369	425	760	647	692	684	669	503
280 Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
281 Total Regional Loads	24846	24916	22876	22755	25752	28023	27479	26655	24411	23884	23768	23332	23940	25650	24961
Regional Resources															
282 Hydro	11302	10373	9479	10614	12137	12205	11314	9939	10146	9693	8675	12492	16820	13033	11524
283 Regulated Hydro - Net	9974	9052	8265	9574	11228	11255	10521	9082	9098	8172	7136	10510	14790	11484	10254
284 Independent Hydro - Net	1000	995	967	874	778	822	667	723	883	1238	1254	1577	1605	1141	1024
285 Small Hydro - Net	328	326	247	165	131	129	127	135	165	284	285	406	425	408	246
286 Hon-Hydro Renewable	1614	2204	2061	1674	2234	1759	1058	1607	1815	2986	2583	2762	2762	2735	2098
287 Wind - Net	1252	1842	1714	1360	1950	1495	813	1335	1513	2656	2253	2414	2419	2355	1781
288 Solar - Net	186	186	171	136	107	87.2	78.5	94.4	124	153	153	181	191	205	143
289 Other - Net	177	177	176	178	178	178	166	177	178	177	177	167	152	175	173
290 Thermal	13435	13442	13515	13569	13744	13263	13112	13066	12184	11887	10180	9488	10987	12656	12502
291 Nuclear - Net	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116
292 Coal - Net	3821	3822	3825	3826	3824	3201	3082	3081	3029	2170	1974	2467	3095	3078	3201
293 Natural Gas - Net	6049	6055	6119	6178	6307	6385	6391	6328	6274	6154	5198	3768	4398	6051	5825
294 Petroleum - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
295 Biofuel - Net	23.7	23.7	25.5	26.8	27.1	24.7	24.4	24.5	27.1	25.5	25.5	27.3	25.1	25.9	25.7

Loads and Resources - Pacific Northwest Region
Operating Year: 2026 Water Year: 1937
2018 White Book Report Date: **12/1/2018** *Continued*

S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
296 Cogeneration - Net	2425	2425	2429	2422	2470	2536	2499	2517	1737	2421	1867	2110	2353	2385	2334
297 Imports	592	592	517	488	674	775	610	610	514	461	461	509	669	722	595
298 Canada	20.8	20.8	15.8	22.0	38.9	49.3	62.3	70.8	62.7	30.2	30.2	28.9	38.6	27.0	38.8
299 East of Continental Divide	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
300 Inland Southwest	571	571	501	466	454	491	461	476	451	430	430	480	631	695	509
301 Pacific Southwest	0	0	0	0	181	235	87.4	63.3	0	0	0	0	0	0	47.1
302 Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
303 Reserves & Losses	-800	-790	-759	-782	-855	-832	-775	-749	-732	-743	-650	-750	-928	-866	-794
304 Operating Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
305 Balancing Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
306 Transmission Losses	-800	-790	-759	-782	-855	-832	-775	-749	-732	-743	-650	-750	-928	-866	-794
307 Total Regional Resources	26142	25820	24812	25562	27933	27171	25320	24472	23927	24284	21248	24502	30311	28280	25926
308 Total Surplus/Deficit	1296	904	1936	2807	2181	-852	-2160	-2183	-484	401	-2520	1170	6371	2629	965

Loads and Resources - Pacific Northwest Region

Operating Year: 2027 Water Year: 1937

2018 White Book Report Date: 12/1/2018

S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Regional Loads															
309 Retail Loads	24064	23902	22026	21999	24838	27245	26891	25920	23612	22740	22740	22255	22872	24578	24075
310 Federal Agency	138	137	131	131	156	182	177	170	149	136	136	129	131	141	148
311 USBR	308	315	266	108	18.2	17.7	9.97	14.0	63.0	244	244	329	354	405	179
312 Cooperative	2784	2765	2504	2407	2698	2988	2934	2842	2558	2521	2521	2549	2730	2881	2699
313 Municipality	2472	2450	2373	2531	2909	3195	3212	3084	2790	2604	2604	2420	2400	2457	2701
314 Public Utility District	4644	4617	4319	4516	5182	5815	5772	5479	4956	4615	4615	4387	4454	4699	4900
315 Investor-Owned Utility	13313	13213	12027	11899	13468	14642	14380	13926	12691	12215	12215	12036	12398	13591	13043
316 Marketer	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
317 Direct-Service Industry	402	401	401	402	402	402	402	401	401	402	402	401	401	401	401
318 Federal Diversity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
319 Exports	890	1121	952	856	1018	884	685	835	892	1236	1120	1166	1158	1164	983
320 Canada	530	586	454	454	454	454	454	454	454	454	454	454	454	476	465
321 East Continental Divide	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
322 Inland Southwest	9.27	13.9	12.9	10.4	14.9	11.3	6.07	10.0	11.5	20.6	17.4	18.6	18.4	18.0	13.6
323 Pacific Southwest	349	520	484	390	548	417	223	369	425	760	647	692	684	669	503
324 Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
325 Total Regional Loads	24954	25023	22977	22855	25856	28129	27576	26755	24503	23975	23860	23421	24030	25742	25058
Regional Resources															
326 Hydro	11302	10373	9479	10614	12137	12205	11314	9939	10146	9693	8675	12499	16846	13032	11527
327 Regulated Hydro - Net	9974	9052	8265	9574	11228	11255	10521	9082	9098	8172	7136	10517	14817	11484	10257
328 Independent Hydro - Net	1000	995	967	874	778	822	667	723	883	1238	1254	1577	1605	1141	1024
329 Small Hydro - Net	328	326	247	165	131	129	127	135	165	284	285	406	425	408	246
330 Hon-Hydro Renewable	1614	2204	2061	1674	2234	1759	1058	1607	1815	2986	2583	2762	2762	2735	2098
331 Wind - Net	1252	1842	1714	1360	1950	1495	813	1335	1513	2656	2253	2414	2419	2355	1781
332 Solar - Net	186	186	171	136	107	87.2	78.5	94.4	124	153	153	181	191	205	143
333 Other - Net	177	177	176	178	178	178	166	177	178	177	177	167	152	175	173
334 Thermal	12688	12695	12768	12822	13035	13143	13110	13066	12053	12673	10972	9379	10283	12688	12235
335 Nuclear - Net	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	360	409	1116	994
336 Coal - Net	3075	3075	3079	3080	3077	3081	3082	3081	2900	2962	2765	3097	3095	3078	3049
337 Natural Gas - Net	6049	6055	6119	6178	6307	6385	6391	6328	6274	6154	5198	3768	4398	6051	5825
338 Petroleum - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
339 Biofuel - Net	23.7	23.7	25.5	26.8	27.1	24.7	24.4	24.5	27.1	25.5	25.5	27.3	25.1	25.9	25.7

Loads and Resources - Pacific Northwest Region
Operating Year: 2027 Water Year: 1937
2018 White Book Report Date: **12/1/2018** *Continued*
S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
340 Cogeneration - Net	2425	2425	2429	2422	2507	2536	2497	2517	1736	2415	1867	2126	2356	2418	2341
341 Imports	598	598	520	490	676	778	613	613	517	464	464	512	676	729	599
342 Canada	20.8	20.8	15.8	22.0	38.9	49.3	62.3	70.8	62.7	30.2	30.2	28.9	38.6	27.0	38.8
343 East of Continental Divide	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
344 Inland Southwest	577	577	504	468	457	494	463	479	454	433	433	483	637	702	513
345 Pacific Southwest	0	0	0	0	181	235	87.4	63.3	0	0	0	0	0	0	47.1
346 Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
347 Reserves & Losses	-778	-768	-737	-760	-834	-828	-775	-749	-729	-767	-674	-747	-908	-867	-786
348 Operating Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
349 Balancing Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
350 Transmission Losses	-778	-768	-737	-760	-834	-828	-775	-749	-729	-767	-674	-747	-908	-867	-786
351 Total Regional Resources	25423	25101	24090	24840	27248	27057	25320	24475	23803	25049	22019	24406	29659	28318	25672
352 Total Surplus/Deficit	470	78.5	1113	1985	1392	-1072	-2256	-2280	-701	1074	-1841	985	5630	2577	614

Loads and Resources - Pacific Northwest Region
Operating Year: 2028 Water Year: 1937
2018 White Book Report Date: 12/1/2018
S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Regional Loads															
353 Retail Loads	23954	24178	22110	22084	24960	27295	26941	25669	23646	22893	22731	22326	22947	24653	24128
354 Federal Agency	138	139	131	131	157	182	178	168	150	137	136	130	132	142	148
355 USBR	316	306	266	108	18.2	17.7	9.97	13.9	63.0	243	245	329	354	405	179
356 Cooperative	2773	2799	2515	2420	2712	3002	2948	2821	2571	2543	2525	2560	2742	2893	2709
357 Municipality	2451	2482	2379	2538	2951	3163	3202	3085	2766	2628	2601	2432	2413	2471	2706
358 Public Utility District	4633	4671	4338	4535	5200	5834	5769	5375	4953	4628	4598	4387	4454	4700	4901
359 Investor-Owned Utility	13237	13375	12075	11945	13516	14689	14428	13800	12738	12307	12220	12083	12446	13638	13079
360 Marketer	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
361 Direct-Service Industry	401	402	401	402	402	402	402	401	401	402	401	401	401	401	401
362 Federal Diversity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
363 Exports	854	1154	952	856	1018	884	685	835	892	1254	1102	1166	1158	1164	983
364 Canada	494	620	454	454	454	454	454	454	454	472	436	454	454	476	465
365 East Continental Divide	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
366 Inland Southwest	9.27	13.9	12.9	10.4	14.9	11.3	6.07	10.0	11.5	20.6	17.4	18.6	18.4	18.0	13.6
367 Pacific Southwest	349	520	484	390	548	417	223	369	425	760	647	692	684	669	503
368 Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
369 Total Regional Loads	24807	25333	23062	22940	25978	28179	27625	26503	24538	24146	23832	23492	24104	25817	25110
Regional Resources															
370 Hydro	11302	10373	9479	10614	12137	12205	11314	9939	10146	9693	8675	12492	16820	13033	11520
371 Regulated Hydro - Net	9974	9052	8265	9574	11228	11255	10521	9082	9098	8172	7136	10510	14790	11484	10251
372 Independent Hydro - Net	1000	995	967	874	778	822	667	723	883	1238	1254	1577	1605	1141	1023
373 Small Hydro - Net	328	326	247	165	131	129	127	135	165	284	285	406	425	408	246
374 Hon-Hydro Renewable	1614	2204	2061	1674	2234	1759	1058	1607	1815	2986	2583	2774	2758	2726	2096
375 Wind - Net	1252	1842	1714	1360	1950	1495	813	1335	1513	2656	2253	2414	2410	2346	1779
376 Solar - Net	186	186	171	136	107	87.2	78.5	94.4	124	153	153	181	191	205	143
377 Other - Net	177	177	176	178	178	178	166	178	177	177	177	178	157	175	175
378 Thermal	12687	12694	12731	12829	13034	13142	13109	13065	12343	11327	9993	9827	10959	12688	12257
379 Nuclear - Net	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116
380 Coal - Net	3075	3075	3079	3080	3077	3081	3082	3081	3071	1980	1783	2762	3095	3078	2955
381 Natural Gas - Net	6049	6055	6119	6178	6307	6385	6391	6328	6274	6154	5198	3805	4368	6051	5827
382 Petroleum - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
383 Biofuel - Net	23.7	23.7	25.5	26.8	27.1	24.7	24.4	24.5	27.1	25.5	25.5	27.3	25.1	25.9	25.7

Loads and Resources - Pacific Northwest Region

Operating Year: 2028 Water Year: 1937

2018 White Book Report Date: 12/1/2018 *Continued*

S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
³⁸⁴ Cogeneration - Net	2424	2424	2391	2428	2507	2535	2496	2516	1855	2051	1870	2116	2355	2417	2333
³⁸⁵ Imports	604	604	523	493	679	781	615	615	520	467	466	516	683	737	603
³⁸⁶ Canada	20.8	20.8	15.8	22.0	38.9	49.3	62.3	70.8	62.7	30.2	30.2	28.9	38.6	27.0	38.8
³⁸⁷ East of Continental Divide	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
³⁸⁸ Inland Southwest	583	583	507	472	459	496	466	481	457	436	436	487	644	710	517
³⁸⁹ Pacific Southwest	0	0	0	0	181	235	87.4	63.3	0	0	0	0	0	0	47.1
³⁹⁰ Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
³⁹¹ Reserves & Losses	-778	-768	-736	-761	-834	-828	-775	-749	-737	-727	-645	-761	-927	-867	-786
³⁹² Operating Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
³⁹³ Balancing Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
³⁹⁴ Transmission Losses	-778	-768	-736	-761	-834	-828	-775	-749	-737	-727	-645	-761	-927	-867	-786
³⁹⁵ Total Regional Resources	25428	25107	24057	24849	27250	27059	25322	24477	24086	23746	21071	24848	30292	28317	25689
³⁹⁶ Total Surplus/Deficit	621	-226	994	1909	1272	-1120	-2304	-2026	-451	-401	-2761	1356	6188	2500	579

Loads and Resources - Pacific Northwest Region

Operating Year: 2029 Water Year: 1937

2018 White Book Report Date: 12/1/2018

S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Regional Loads															
397 Retail Loads	24134	24150	22182	22145	25020	27354	27019	26083	23703	22808	22970	22402	23022	24730	24220
398 Federal Agency	139	139	132	132	157	183	178	171	150	136	137	130	132	142	149
399 USBR	312	311	266	108	18.2	17.7	9.97	14.0	63.0	245	243	329	354	405	179
400 Cooperative	2797	2799	2527	2433	2726	3016	2963	2885	2584	2539	2557	2572	2754	2906	2726
401 Municipality	2479	2482	2393	2543	2955	3167	3206	3105	2770	2606	2633	2437	2418	2476	2712
402 Public Utility District	4651	4654	4336	4532	5194	5827	5781	5473	4945	4608	4639	4399	4465	4712	4910
403 Investor-Owned Utility	13350	13360	12122	11991	13564	14737	14475	14029	12785	12268	12355	12130	12494	13685	13138
404 Marketer	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
405 Direct-Service Industry	401	401	401	402	402	402	402	401	401	401	402	401	401	401	401
406 Federal Diversity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
407 Exports	872	1137	952	856	1018	884	685	835	892	1217	1130	1158	1150	1156	981
408 Canada	513	602	454	454	454	454	454	454	454	436	472	454	454	476	465
409 East Continental Divide	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
410 Inland Southwest	9.27	13.9	12.9	10.4	14.9	11.3	6.07	10.0	11.5	20.6	17.4	18.6	18.4	18.0	13.6
411 Pacific Southwest	349	520	484	390	548	417	223	369	425	760	639	684	676	661	501
412 Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
413 Total Regional Loads	25007	25287	23134	23001	26038	28238	27703	26918	24594	24025	24100	23560	24171	25886	25200
Regional Resources															
414 Hydro	11302	10373	9479	10614	12137	12205	11314	9939	10146	9693	8675	12499	16846	13032	11527
415 Regulated Hydro - Net	9974	9052	8265	9574	11228	11255	10521	9082	9098	8172	7136	10517	14817	11484	10257
416 Independent Hydro - Net	1000	995	967	874	778	822	667	723	883	1238	1254	1577	1605	1141	1024
417 Small Hydro - Net	328	326	247	165	131	129	127	135	165	284	285	406	425	408	246
418 Hon-Hydro Renewable	1609	2198	2054	1669	2227	1754	1055	1602	1809	2976	2574	2765	2753	2726	2092
419 Wind - Net	1247	1835	1707	1355	1943	1489	810	1330	1508	2646	2244	2405	2410	2346	1775
420 Solar - Net	186	186	171	136	107	87.2	78.5	94.4	124	153	153	181	191	205	143
421 Other - Net	177	177	176	178	178	178	166	177	177	177	177	178	152	175	174
422 Thermal	12688	12695	12768	12822	12997	13143	13112	13066	12022	12213	10505	9070	10280	12656	12162
423 Nuclear - Net	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	360	409	1116	994
424 Coal - Net	3075	3075	3079	3080	3077	3081	3082	3081	2867	2492	2296	2789	3095	3078	2981
425 Natural Gas - Net	6049	6055	6119	6178	6307	6385	6391	6328	6274	6154	5198	3783	4398	6051	5827
426 Petroleum - Net	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
427 Biofuel - Net	23.7	23.7	25.5	26.8	27.1	24.7	24.4	24.5	27.1	25.5	25.5	27.3	25.1	25.9	25.7

Loads and Resources - Pacific Northwest Region

Operating Year: 2029 Water Year: 1937

2018 White Book Report Date: 12/1/2018 *Continued*

S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
428 Cogeneration - Net	2425	2425	2429	2422	2470	2536	2499	2517	1737	2424	1870	2111	2353	2385	2334
429 Imports	610	610	527	496	682	783	618	618	523	469	469	519	689	745	607
430 Canada	20.8	20.8	15.8	22.0	38.9	49.3	62.3	70.8	62.7	30.2	30.2	28.9	38.6	27.0	38.8
431 East of Continental Divide	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
432 Inland Southwest	589	589	511	474	462	499	468	484	460	439	439	490	650	718	521
433 Pacific Southwest	0	0	0	0	181	235	87.4	63.3	0	0	0	0	0	0	47.1
434 Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
435 Reserves & Losses	-778	-768	-737	-760	-833	-828	-775	-749	-728	-753	-660	-738	-908	-866	-784
436 Operating Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
437 Balancing Reserves	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
438 Transmission Losses	-778	-768	-737	-760	-833	-828	-775	-749	-728	-753	-660	-738	-908	-866	-784
439 Total Regional Resources	25431	25107	24090	24841	27210	27057	25324	24475	23772	24598	21564	24114	29661	28293	25604
440 Total Surplus/Deficit	425	-181	957	1840	1171	-1181	-2379	-2443	-822	573	-2537	555	5489	2407	403

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Exhibit 25
Regional Total Retail Load

Monthly Energy
Operating Year 2020 to 2029

Table A-1: Regional: Total Retail Loads

Operating Year 2020

2018 White Book Report Date: 12/1/2018

S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Firm Loads															
1 Federal Agency	112	112	105	119	143	168	164	154	137	123	123	117	119	129	133
2 USBR	312	311	266	108	18.2	17.7	9.97	13.9	63.0	244	244	329	354	405	179
3 Cooperative	2282	2283	2014	1925	2214	2502	2472	2345	2112	2084	2084	2127	2316	2474	2239
4 Municipality	2386	2389	2292	2461	2840	3121	3139	3000	2719	2535	2535	2350	2329	2384	2629
5 Public Utility District	4185	4188	3882	4071	4706	5297	5262	4889	4445	4156	4156	3966	4026	4253	4428
6 Investor-Owned Utility	12898	12908	11661	11545	13097	14279	14027	13377	12338	11852	11852	11682	12042	13239	12672
7 Marketer	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
8 Direct-Service Industry	401	401	401	402	402	402	402	401	401	402	402	401	401	401	401
9 Total Firm Loads	22581	22596	20625	20634	23423	25790	25480	24184	22218	21400	21400	20976	21592	23289	22685
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	112	112	105	119	143	168	164	154	137	123	123	117	119	129	133
13 USBR	312	311	266	108	18.2	17.7	9.97	13.9	63.0	244	244	329	354	405	179
14 Cooperative	2282	2283	2014	1925	2214	2502	2472	2345	2112	2084	2084	2127	2316	2474	2239
15 Municipality	2386	2389	2292	2461	2840	3121	3139	3000	2719	2535	2535	2350	2329	2384	2629
16 Public Utility District	4185	4188	3896	4071	4706	5297	5266	4913	4499	4189	4189	3966	4026	4253	4439
17 Investor-Owned Utility	12898	12908	11661	11545	13097	14279	14027	13377	12338	11852	11852	11682	12042	13239	12672
18 Marketer	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
19 Direct-Service Industry	401	401	401	402	402	402	402	401	401	402	402	401	401	401	401
20 Total Loads	22581	22596	20639	20634	23423	25790	25484	24207	22272	21434	21434	20976	21592	23289	22696

**Table A-1: Regional: Total Retail Loads
Operating Year 2021**

2018 White Book Report Date: 12/1/2018

S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Firm Loads															
1 Federal Agency	126	126	119	124	149	174	169	162	142	129	129	122	124	134	139
2 USBR	308	315	266	108	18.2	17.7	9.97	14.0	63.0	244	244	329	354	405	179
3 Cooperative	2393	2376	2126	2059	2347	2647	2595	2501	2236	2198	2198	2241	2429	2578	2362
4 Municipality	2406	2384	2310	2470	2848	3129	3147	3020	2726	2542	2542	2357	2336	2391	2638
5 Public Utility District	4234	4208	3917	4116	4753	5348	5336	5028	4493	4220	4220	4028	4092	4322	4488
6 Investor-Owned Utility	13012	12913	11720	11602	13157	14337	14078	13595	12388	11904	11904	11733	12093	13290	12737
7 Marketer	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
8 Direct-Service Industry	402	401	401	402	402	402	402	401	401	402	402	401	401	401	401
9 Total Firm Loads	22884	22727	20864	20884	23677	26059	25740	24725	22454	21643	21643	21216	21834	23524	22948
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	126	126	119	124	149	174	169	162	142	129	129	122	124	134	139
13 USBR	308	315	266	108	18.2	17.7	9.97	14.0	63.0	244	244	329	354	405	179
14 Cooperative	2393	2376	2126	2059	2347	2647	2595	2501	2236	2198	2198	2241	2429	2578	2362
15 Municipality	2406	2384	2310	2470	2848	3129	3147	3020	2726	2542	2542	2357	2336	2391	2638
16 Public Utility District	4234	4208	3932	4116	4753	5348	5339	5052	4547	4253	4253	4028	4092	4322	4498
17 Investor-Owned Utility	13012	12913	11720	11602	13157	14337	14078	13595	12388	11904	11904	11733	12093	13290	12737
18 Marketer	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
19 Direct-Service Industry	402	401	401	402	402	402	402	401	401	402	402	401	401	401	401
20 Total Loads	22884	22727	20878	20884	23677	26059	25744	24749	22508	21676	21676	21216	21834	23524	22959

Table A-1: Regional: Total Retail Loads

Operating Year 2022

2018 White Book Report Date: 12/1/2018

S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Firm Loads															
1 Federal Agency	131	132	124	130	155	179	175	168	147	135	135	128	130	140	145
2 USBR	316	306	266	108	18.2	17.7	9.97	14.0	63.0	244	244	329	354	405	179
3 Cooperative	2479	2503	2229	2155	2451	2742	2728	2645	2368	2333	2333	2382	2562	2715	2483
4 Municipality	2386	2416	2317	2475	2853	3134	3182	3054	2759	2574	2574	2389	2367	2422	2659
5 Public Utility District	4269	4305	3981	4182	4822	5422	5660	5355	4813	4497	4497	4305	4365	4598	4688
6 Investor-Owned Utility	12940	13077	11771	11651	13208	14388	14131	13654	12442	11959	11959	11787	12147	13343	12790
7 Marketer	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
8 Direct-Service Industry	401	402	401	402	402	402	402	401	401	402	402	401	401	401	401
9 Total Firm Loads	22927	23145	21093	21107	23913	26290	26292	25296	22999	22148	22148	21725	22330	24028	23350
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	131	132	124	130	155	179	175	168	147	135	135	128	130	140	145
13 USBR	316	306	266	108	18.2	17.7	9.97	14.0	63.0	244	244	329	354	405	179
14 Cooperative	2479	2503	2229	2155	2451	2742	2728	2645	2368	2333	2333	2382	2562	2715	2483
15 Municipality	2386	2416	2317	2475	2853	3134	3182	3054	2759	2574	2574	2389	2367	2422	2659
16 Public Utility District	4269	4305	3995	4182	4822	5422	5663	5379	4868	4531	4531	4305	4365	4598	4699
17 Investor-Owned Utility	12940	13077	11771	11651	13208	14388	14131	13654	12442	11959	11959	11787	12147	13343	12790
18 Marketer	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
19 Direct-Service Industry	401	402	401	402	402	402	402	401	401	402	402	401	401	401	401
20 Total Loads	22927	23145	21108	21107	23913	26290	26295	25319	23053	22181	22181	21725	22330	24028	23361

Table A-1: Regional: Total Retail Loads

Operating Year 2023

2018 White Book Report Date: 12/1/2018

S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Firm Loads															
1 Federal Agency	137	137	130	129	154	179	174	167	147	134	133	127	129	139	145
2 USBR	312	311	266	108	18.2	17.7	9.97	14.0	63.0	243	245	329	354	405	179
3 Cooperative	2630	2631	2362	2267	2560	2849	2805	2713	2435	2418	2401	2446	2628	2789	2574
4 Municipality	2431	2434	2347	2506	2887	3170	3187	3059	2765	2594	2568	2396	2375	2431	2676
5 Public Utility District	4562	4565	4250	4466	5126	5748	5661	5353	4810	4509	4479	4300	4343	4579	4806
6 Investor-Owned Utility	13058	13068	11824	11703	13263	14441	14184	13712	12495	12057	11971	11840	12201	13396	12843
7 Marketer	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
8 Direct-Service Industry	401	401	401	402	402	402	402	401	401	402	401	401	401	401	401
9 Total Firm Loads	23536	23551	21585	21585	24413	26810	26427	25424	23119	22361	22202	21843	22435	24142	23630
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	137	137	130	129	154	179	174	167	147	134	133	127	129	139	145
13 USBR	312	311	266	108	18.2	17.7	9.97	14.0	63.0	243	245	329	354	405	179
14 Cooperative	2630	2631	2362	2267	2560	2849	2805	2713	2435	2418	2401	2446	2628	2789	2574
15 Municipality	2431	2434	2347	2506	2887	3170	3187	3059	2765	2594	2568	2396	2375	2431	2676
16 Public Utility District	4562	4565	4264	4466	5126	5748	5664	5377	4864	4543	4513	4300	4343	4579	4817
17 Investor-Owned Utility	13058	13068	11824	11703	13263	14441	14184	13712	12495	12057	11971	11840	12201	13396	12843
18 Marketer	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
19 Direct-Service Industry	401	401	401	402	402	402	402	401	401	402	401	401	401	401	401
20 Total Loads	23536	23551	21600	21585	24413	26810	26431	25448	23174	22395	22236	21843	22435	24142	23641

Table A-1: Regional: Total Retail Loads

Operating Year 2024

2018 White Book Report Date: 12/1/2018

S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Firm Loads															
1 Federal Agency	136	136	129	129	154	179	175	165	147	134	134	127	129	139	145
2 USBR	312	311	266	108	18.2	17.7	9.97	13.9	63.0	244	244	329	354	405	179
3 Cooperative	2694	2696	2431	2338	2627	2923	2874	2746	2510	2476	2476	2510	2691	2841	2639
4 Municipality	2439	2442	2355	2514	2893	3177	3194	3053	2772	2586	2586	2402	2381	2437	2683
5 Public Utility District	4537	4540	4222	4436	5098	5724	5666	5256	4810	4493	4493	4298	4363	4602	4792
6 Investor-Owned Utility	13111	13120	11878	11755	13317	14494	14235	13597	12546	12066	12066	11890	12252	13446	12884
7 Marketer	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
8 Direct-Service Industry	401	401	401	402	402	402	402	401	401	402	402	401	401	401	401
9 Total Firm Loads	23634	23650	21686	21685	24512	26920	26560	25237	23253	22405	22405	21962	22575	24274	23728
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	136	136	129	129	154	179	175	165	147	134	134	127	129	139	145
13 USBR	312	311	266	108	18.2	17.7	9.97	13.9	63.0	244	244	329	354	405	179
14 Cooperative	2694	2696	2431	2338	2627	2923	2874	2746	2510	2476	2476	2510	2691	2841	2639
15 Municipality	2439	2442	2355	2514	2893	3177	3194	3053	2772	2586	2586	2402	2381	2437	2683
16 Public Utility District	4537	4540	4236	4436	5098	5724	5669	5280	4864	4527	4527	4298	4363	4602	4803
17 Investor-Owned Utility	13111	13120	11878	11755	13317	14494	14235	13597	12546	12066	12066	11890	12252	13446	12884
18 Marketer	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
19 Direct-Service Industry	401	401	401	402	402	402	402	401	401	402	402	401	401	401	401
20 Total Loads	23634	23650	21700	21685	24512	26920	26563	25261	23307	22439	22439	21962	22575	24274	23739

Table A-1: Regional: Total Retail Loads

Operating Year 2025

2018 White Book Report Date: 12/1/2018

S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Firm Loads															
1 Federal Agency	136	136	129	130	155	181	176	169	148	135	135	128	131	140	147
2 USBR	312	311	266	108	18.2	17.7	9.97	14.0	63.0	244	244	329	354	405	179
3 Cooperative	2746	2748	2478	2378	2668	2957	2903	2812	2529	2492	2492	2524	2705	2855	2670
4 Municipality	2445	2448	2361	2519	2897	3182	3199	3071	2777	2592	2592	2408	2387	2444	2689
5 Public Utility District	4557	4560	4240	4455	5119	5748	5698	5372	4819	4521	4521	4327	4390	4633	4822
6 Investor-Owned Utility	13160	13170	11929	11804	13368	14545	14285	13822	12595	12117	12117	11940	12302	13496	12946
7 Marketer	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
8 Direct-Service Industry	401	401	401	402	402	402	402	401	401	402	402	401	401	401	401
9 Total Firm Loads	23763	23779	21808	21800	24631	27035	26677	25665	23337	22507	22507	22062	22673	24378	23858
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	136	136	129	130	155	181	176	169	148	135	135	128	131	140	147
13 USBR	312	311	266	108	18.2	17.7	9.97	14.0	63.0	244	244	329	354	405	179
14 Cooperative	2746	2748	2478	2378	2668	2957	2903	2812	2529	2492	2492	2524	2705	2855	2670
15 Municipality	2445	2448	2361	2519	2897	3182	3199	3071	2777	2592	2592	2408	2387	2444	2689
16 Public Utility District	4557	4560	4255	4455	5119	5748	5701	5396	4874	4555	4555	4327	4390	4633	4832
17 Investor-Owned Utility	13160	13170	11929	11804	13368	14545	14285	13822	12595	12117	12117	11940	12302	13496	12946
18 Marketer	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
19 Direct-Service Industry	401	401	401	402	402	402	402	401	401	402	402	401	401	401	401
20 Total Loads	23763	23779	21822	21800	24631	27035	26681	25689	23391	22541	22541	22062	22673	24378	23869

Table A-1: Regional: Total Retail Loads

Operating Year 2026

2018 White Book Report Date: 12/1/2018

S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Firm Loads															
1 Federal Agency	138	137	130	130	156	181	177	170	149	135	135	129	131	141	147
2 USBR	308	315	266	108	18.2	17.7	9.97	14.0	63.0	244	244	329	354	405	179
3 Cooperative	2770	2752	2491	2393	2683	2973	2920	2827	2544	2507	2507	2537	2718	2869	2685
4 Municipality	2465	2443	2367	2525	2903	3188	3206	3078	2784	2598	2598	2414	2393	2450	2695
5 Public Utility District	4603	4577	4271	4484	5149	5780	5740	5428	4877	4558	4558	4364	4430	4674	4860
6 Investor-Owned Utility	13266	13166	11978	11852	13419	14594	14333	13874	12643	12166	12166	11988	12350	13544	12995
7 Marketer	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
8 Direct-Service Industry	402	401	401	402	402	402	402	401	401	402	402	401	401	401	401
9 Total Firm Loads	23956	23795	21909	21899	24734	27139	26791	25797	23465	22614	22614	22166	22782	24487	23967
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	138	137	130	130	156	181	177	170	149	135	135	129	131	141	147
13 USBR	308	315	266	108	18.2	17.7	9.97	14.0	63.0	244	244	329	354	405	179
14 Cooperative	2770	2752	2491	2393	2683	2973	2920	2827	2544	2507	2507	2537	2718	2869	2685
15 Municipality	2465	2443	2367	2525	2903	3188	3206	3078	2784	2598	2598	2414	2393	2450	2695
16 Public Utility District	4603	4577	4285	4484	5149	5780	5744	5452	4932	4591	4591	4364	4430	4674	4871
17 Investor-Owned Utility	13266	13166	11978	11852	13419	14594	14333	13874	12643	12166	12166	11988	12350	13544	12995
18 Marketer	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
19 Direct-Service Industry	402	401	401	402	402	402	402	401	401	402	402	401	401	401	401
20 Total Loads	23956	23795	21924	21899	24734	27139	26795	25820	23520	22648	22648	22166	22782	24487	23978

Table A-1: Regional: Total Retail Loads

Operating Year 2027

2018 White Book Report Date: 12/1/2018

S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Firm Loads															
1 Federal Agency	138	137	131	131	156	182	177	170	149	136	136	129	131	141	148
2 USBR	308	315	266	108	18.2	17.7	9.97	14.0	63.0	244	244	329	354	405	179
3 Cooperative	2784	2765	2504	2407	2698	2988	2934	2842	2558	2521	2521	2549	2730	2881	2699
4 Municipality	2472	2450	2373	2531	2909	3195	3212	3084	2790	2604	2604	2420	2400	2457	2701
5 Public Utility District	4644	4617	4305	4516	5182	5815	5768	5455	4902	4581	4581	4387	4454	4699	4889
6 Investor-Owned Utility	13313	13213	12027	11899	13468	14642	14380	13926	12691	12215	12215	12036	12398	13591	13043
7 Marketer	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
8 Direct-Service Industry	402	401	401	402	402	402	402	401	401	402	402	401	401	401	401
9 Total Firm Loads	24064	23902	22011	21999	24838	27245	26888	25896	23557	22706	22706	22255	22872	24578	24065
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	138	137	131	131	156	182	177	170	149	136	136	129	131	141	148
13 USBR	308	315	266	108	18.2	17.7	9.97	14.0	63.0	244	244	329	354	405	179
14 Cooperative	2784	2765	2504	2407	2698	2988	2934	2842	2558	2521	2521	2549	2730	2881	2699
15 Municipality	2472	2450	2373	2531	2909	3195	3212	3084	2790	2604	2604	2420	2400	2457	2701
16 Public Utility District	4644	4617	4319	4516	5182	5815	5772	5479	4956	4615	4615	4387	4454	4699	4900
17 Investor-Owned Utility	13313	13213	12027	11899	13468	14642	14380	13926	12691	12215	12215	12036	12398	13591	13043
18 Marketer	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
19 Direct-Service Industry	402	401	401	402	402	402	402	401	401	402	402	401	401	401	401
20 Total Loads	24064	23902	22026	21999	24838	27245	26891	25920	23612	22740	22740	22255	22872	24578	24075

Table A-1: Regional: Total Retail Loads

Operating Year 2028

2018 White Book Report Date: 12/1/2018

S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Firm Loads															
1 Federal Agency	138	139	131	131	157	182	178	168	150	137	136	130	132	142	148
2 USBR	316	306	266	108	18.2	17.7	9.97	13.9	63.0	243	245	329	354	405	179
3 Cooperative	2773	2799	2515	2420	2712	3002	2948	2821	2571	2543	2525	2560	2742	2893	2709
4 Municipality	2451	2482	2379	2538	2951	3163	3202	3085	2766	2628	2601	2432	2413	2471	2706
5 Public Utility District	4633	4671	4324	4535	5200	5834	5765	5351	4899	4594	4564	4387	4454	4700	4890
6 Investor-Owned Utility	13237	13375	12075	11945	13516	14689	14428	13800	12738	12307	12220	12083	12446	13638	13079
7 Marketer	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
8 Direct-Service Industry	401	402	401	402	402	402	402	401	401	402	401	401	401	401	401
9 Total Firm Loads	23954	24178	22096	22084	24960	27295	26937	25645	23592	22859	22697	22326	22947	24653	24117
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	138	139	131	131	157	182	178	168	150	137	136	130	132	142	148
13 USBR	316	306	266	108	18.2	17.7	9.97	13.9	63.0	243	245	329	354	405	179
14 Cooperative	2773	2799	2515	2420	2712	3002	2948	2821	2571	2543	2525	2560	2742	2893	2709
15 Municipality	2451	2482	2379	2538	2951	3163	3202	3085	2766	2628	2601	2432	2413	2471	2706
16 Public Utility District	4633	4671	4338	4535	5200	5834	5769	5375	4953	4628	4598	4387	4454	4700	4901
17 Investor-Owned Utility	13237	13375	12075	11945	13516	14689	14428	13800	12738	12307	12220	12083	12446	13638	13079
18 Marketer	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
19 Direct-Service Industry	401	402	401	402	402	402	402	401	401	402	401	401	401	401	401
20 Total Loads	23954	24178	22110	22084	24960	27295	26941	25669	23646	22893	22731	22326	22947	24653	24128

Table A-1: Regional: Total Retail Loads

Operating Year 2029

2018 White Book Report Date: 12/1/2018

S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Firm Loads															
1 Federal Agency	139	139	132	132	157	183	178	171	150	136	137	130	132	142	149
2 USBR	312	311	266	108	18.2	17.7	9.97	14.0	63.0	245	243	329	354	405	179
3 Cooperative	2797	2799	2527	2433	2726	3016	2963	2885	2584	2539	2557	2572	2754	2906	2726
4 Municipality	2479	2482	2393	2543	2955	3167	3206	3105	2770	2606	2633	2437	2418	2476	2712
5 Public Utility District	4651	4654	4322	4532	5194	5827	5777	5448	4890	4575	4605	4399	4465	4712	4899
6 Investor-Owned Utility	13350	13360	12122	11991	13564	14737	14475	14029	12785	12268	12355	12130	12494	13685	13138
7 Marketer	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
8 Direct-Service Industry	401	401	401	402	402	402	402	401	401	401	402	401	401	401	401
9 Total Firm Loads	24134	24150	22168	22145	25020	27354	27015	26059	23648	22774	22936	22402	23022	24730	24209
Non-Firm Loads															
10 Public Utility District	0	0	14.3	0	0	0	3.50	24.6	54.4	33.7	33.9	0	0	0	10.8
11 Total Non-Firm Loads	0	0	14.3	0	0	0	3.50	24.6	54.4	33.7	33.9	0	0	0	10.8
Total Regional Loads (Firm+Non-Firm)															
12 Federal Agency	139	139	132	132	157	183	178	171	150	136	137	130	132	142	149
13 USBR	312	311	266	108	18.2	17.7	9.97	14.0	63.0	245	243	329	354	405	179
14 Cooperative	2797	2799	2527	2433	2726	3016	2963	2885	2584	2539	2557	2572	2754	2906	2726
15 Municipality	2479	2482	2393	2543	2955	3167	3206	3105	2770	2606	2633	2437	2418	2476	2712
16 Public Utility District	4651	4654	4336	4532	5194	5827	5781	5473	4945	4608	4639	4399	4465	4712	4910
17 Investor-Owned Utility	13350	13360	12122	11991	13564	14737	14475	14029	12785	12268	12355	12130	12494	13685	13138
18 Marketer	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
19 Direct-Service Industry	401	401	401	402	402	402	402	401	401	401	402	401	401	401	401
20 Total Loads	24134	24150	22182	22145	25020	27354	27019	26083	23703	22808	22970	22402	23022	24730	24220

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Exhibit 26
Regional Exports

Monthly Energy
Operating Year 2020 to 2029

**Regional Exports
Operating Year 2020**

2018 White Book Report Date: 12/1/2018

S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Canada															
Contracts															
¹ BPA-P to BCHP Trty CEA	454	459	456	456	456	456	456	456	456	456	456	456	456	456	456
² BPA-P to BCHP NTSA Del	92.1	92.1	0	0	0	0	0	0	0	0	0	0	0	21.5	9.62
³ Total Exports to CAN	546	551	456	456	456	456	456	456	456	456	456	456	456	478	466
East Continental Divide															
Contracts															
⁴ 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
⁵ Total Exports to ECD	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Inland Southwest															
Contracts															
⁶ BPA-P to Other Entities	0	0	0	14.5	13.9	13.4	0	0	0	0	0	0	0	0	3.51
Transfer Services															
⁷ UAMP to UAMP TS PwrP	9.27	13.9	12.9	10.4	14.9	11.3	6.07	10.0	11.5	20.6	17.4	18.6	18.4	18.0	13.6
⁸ Total Exports to ISW	9.27	13.9	12.9	24.9	28.8	24.8	6.07	10.0	11.5	20.6	17.4	18.6	18.4	18.0	17.1
Pacific Southwest															
Contracts															
⁹ BPA-P to Other Entities	86.1	86.5	70.0	100.0	100.0	100.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	67.3
¹⁰ 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
¹¹ PSE to PG&E SNX Del	186	186	170	0	0	0	0	0	0	0	0	0	51.2	155	47.0
Transfer Services															
¹² BURB to BURB TS PwrP	1.60	2.41	2.24	1.80	2.58	1.96	1.05	1.74	2.00	3.57	3.01	3.22	3.18	3.11	2.35
¹³ GLEN to GLEN TS PwrP	7.24	10.9	10.1	8.11	11.6	8.86	4.74	7.83	9.01	16.1	13.6	14.5	14.3	14.0	10.6
¹⁴ LDWP to LDWP TS PwrP	68.9	103	96.0	77.2	111	84.3	45.1	74.6	85.7	153	129	138	136	133	101
¹⁵ MID to MID TS PwrP	15.9	23.8	22.1	17.8	25.5	19.4	10.4	17.2	19.8	35.4	29.8	31.8	31.5	30.8	23.2
¹⁶ Other Entities to Other Entities	60.2	90.3	83.9	67.4	96.6	73.7	39.4	65.2	74.9	134	113	121	119	117	88.0
¹⁷ PG&E to PG&E TS PwrP	59.2	88.9	82.6	66.3	95.1	72.5	38.8	64.1	73.7	132	111	119	117	115	86.6
¹⁸ SCE to SCE TS PwrP	136	204	190	152	218	166	89.0	147	169	303	255	273	269	263	199
¹⁹ 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
²⁰ TID to TID TS PwrP	22.0	33.0	30.6	24.6	35.3	26.9	14.4	23.8	27.4	48.9	41.2	44.1	43.6	42.6	32.1
²¹ Intertie Losses	21	26	24	17	22	18	10	15	17	28	24	25	27	29	21
²² Total Exports to PSW	716	908	834	581	765	621	353	516	569	945	818	862	913	1008	726

**Regional Exports
Operating Year 2020**

2018 White Book Report Date: **12/1/2018** *Continued*

S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Total Exports															
²³ Federal Entities	635	640	529	574	573	573	508	508	508	508	508	508	508	529	539
²⁴ Investor Owned Utilities	402	510	471	242	347	264	142	234	269	480	404	432	479	573	363
²⁵ Marketer	39.9	56.0	52.6	43.8	51.5	39.3	21.0	34.8	40.0	71.5	68.0	72.2	71.4	70.0	51.2
²⁶ Municipality	178	244	229	190	261	211	137	193	206	337	290	302	306	305	239
²⁷ Total Exports	1255	1450	1282	1050	1232	1088	807	970	1023	1397	1270	1314	1364	1478	1191

**Regional Exports
Operating Year 2021**

2018 White Book Report Date: 12/1/2018

S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Canada															
Contracts															
¹ BPA-P to BCHP Trty CEA	453	425	439	439	439	439	439	439	439	439	439	439	439	439	439
² BPA-P to BCHP NTSA Del	60.8	146	0	0	0	0	0	0	0	0	0	0	0	21.5	10.7
³ Total Exports to CAN	514	571	439	439	439	439	439	439	439	439	439	439	439	460	450
East Continental Divide															
Contracts															
⁴ 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
⁵ Total Exports to ECD	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Inland Southwest															
Transfer Services															
⁶ UAMP to UAMP TS PwrP	9.27	13.9	12.9	10.4	14.9	11.3	6.07	10.0	11.5	20.6	17.4	18.6	18.4	18.0	13.6
⁷ Total Exports to ISW	9.27	13.9	12.9	10.4	14.9	11.3	6.07	10.0	11.5	20.6	17.4	18.6	18.4	18.0	13.6
Pacific Southwest															
Contracts															
⁸ BPA-P to Other Entities	50.0	50.0	50.0	50.0	50.0	50.0	0	0	0	0	0	0	0	0	21.0
⁹ 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
¹⁰ PSE to PG&E SNX Del	186	186	170	0	0	0	0	0	0	0	0	0	51.2	155	47.1
Transfer Services															
¹¹ BURB to BURB TS PwrP	1.60	2.41	2.24	1.80	2.58	1.96	1.05	1.74	2.00	3.57	3.01	3.22	3.18	3.11	2.35
¹² GLEN to GLEN TS PwrP	7.24	10.9	10.1	8.11	11.6	8.86	4.74	7.83	9.01	16.1	13.6	14.5	14.3	14.0	10.6
¹³ LDWP to LDWP TS PwrP	68.9	103	96.0	77.2	111	84.3	45.1	74.6	85.7	153	129	138	136	133	101
¹⁴ MID to MID TS PwrP	15.9	23.8	22.1	17.8	25.5	19.4	10.4	17.2	19.8	35.4	29.8	31.8	31.5	30.8	23.2
¹⁵ Other Entities to Other Entities	60.2	90.3	83.9	67.4	96.6	73.7	39.4	65.2	74.9	134	113	121	119	117	88.1
¹⁶ PG&E to PG&E TS PwrP	59.2	88.9	82.6	66.3	95.1	72.5	38.8	64.1	73.7	132	111	119	117	115	86.6
¹⁷ SCE to SCE TS PwrP	136	204	190	152	218	166	89.0	147	169	303	255	273	269	263	199
¹⁸ 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
¹⁹ TID to TID TS PwrP	22.0	33.0	30.6	24.6	35.3	26.9	14.4	23.8	27.4	48.9	41.2	44.1	43.6	42.6	32.2
²⁰ Intertie Losses	20	25	24	15	21	17	9	14	15	26	22	24	25	28	20
²¹ Total Exports to PSW	679	870	813	530	714	569	301	464	517	893	766	810	862	957	679

**Regional Exports
Operating Year 2021**

2018 White Book Report Date: **12/1/2018** *Continued*

S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Total Exports															
²² Federal Entities	566	622	490	490	490	490	439	439	439	439	439	439	439	460	471
²³ Investor Owned Utilities	402	510	471	242	347	264	142	234	269	480	404	432	479	573	363
²⁴ Marketer	39.9	56.0	52.6	43.8	51.5	39.3	21.0	34.8	40.0	71.5	68.0	72.2	71.4	70.0	51.2
²⁵ Municipality	178	244	229	190	261	211	137	193	206	337	290	302	306	305	239
²⁶ Total Exports	1185	1432	1244	966	1149	1005	738	900	954	1328	1201	1245	1295	1408	1124

**Regional Exports
Operating Year 2022**

2018 White Book Report Date: 12/1/2018

S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Canada															
Contracts															
1 BPA-P to BCHP Trty CEA	419	458	439	439	439	439	439	439	439	439	439	439	439	439	439
2 BPA-P to BCHP NTSA Del	60.8	146	0	0	0	0	0	0	0	0	0	0	0	21.5	10.7
3 Total Exports to CAN	479	604	439	439	439	439	439	439	439	439	439	439	439	460	450
East Continental Divide															
Contracts															
4 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
5 Total Exports to ECD	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Inland Southwest															
Transfer Services															
6 UAMP to UAMP TS PwrP	9.27	13.9	12.9	10.4	14.9	11.3	6.07	10.0	11.5	20.6	17.4	18.6	18.4	18.0	13.6
7 Total Exports to ISW	9.27	13.9	12.9	10.4	14.9	11.3	6.07	10.0	11.5	20.6	17.4	18.6	18.4	18.0	13.6
Pacific Southwest															
Contracts															
8 BPA-P to Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 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
10 PSE to PG&E SNX Del	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Transfer Services															
11 BURB to BURB TS PwrP	1.60	2.41	2.24	1.80	2.58	1.96	1.05	1.74	2.00	3.57	3.01	3.22	3.18	3.11	2.35
12 GLEN to GLEN TS PwrP	7.24	10.9	10.1	8.11	11.6	8.86	4.74	7.83	9.01	16.1	13.6	14.5	14.3	14.0	10.6
13 LDWP to LDWP TS PwrP	68.9	103	96.0	77.2	111	84.3	45.1	74.6	85.7	153	129	138	136	133	101
14 MID to MID TS PwrP	15.9	23.8	22.1	17.8	25.5	19.4	10.4	17.2	19.8	35.4	29.8	31.8	31.5	30.8	23.2
15 Other Entities to Other Entities	60.2	90.3	83.9	67.4	96.6	73.7	39.4	65.2	74.9	134	113	121	119	117	88.1
16 PG&E to PG&E TS PwrP	59.2	88.9	82.6	66.3	95.1	72.5	38.8	64.1	73.7	132	111	119	117	115	86.6
17 SCE to SCE TS PwrP	136	204	190	152	218	166	89.0	147	169	303	255	273	269	263	199
18 TID to TID TS PwrP	22.0	33.0	30.6	24.6	35.3	26.9	14.4	23.8	27.4	48.9	41.2	44.1	43.6	42.6	32.2
19 Intertie Losses	11	17	16	13	18	14	7	12	14	25	21	23	22	22	16
20 Total Exports to PSW	390	581	541	436	613	468	250	414	476	851	724	774	765	748	563

Total Exports

**Regional Exports
Operating Year 2022**

2018 White Book Report Date: **12/1/2018** *Continued*

S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
²¹ Federal Entities	479	604	439	439	439	439	439	439	439	439	439	439	439	460	450
²² Investor Owned Utilities	216	324	301	242	347	264	142	234	269	480	404	432	428	418	316
²³ Marketer	39.9	56.0	52.6	43.8	51.5	39.3	21.0	34.8	40.0	71.5	68.0	72.2	71.4	70.0	51.2
²⁴ Municipality	133	199	185	149	213	163	87.0	144	165	296	249	266	263	257	194
²⁵ Total Exports	869	1183	978	874	1050	905	689	852	913	1287	1160	1210	1201	1206	1011

**Regional Exports
Operating Year 2023**

2018 White Book Report Date: 12/1/2018

S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Canada															
Contracts															
1 BPA-P to BCHP Trty CEA	437	441	439	439	439	439	439	439	439	456	421	439	439	439	439
2 BPA-P to BCHP NTSA Del	60.8	146	0	0	0	0	0	0	0	0	0	0	0	21.5	10.7
3 Total Exports to CAN	497	587	439	439	439	439	439	439	439	456	421	439	439	460	450
East Continental Divide															
Contracts															
4 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
5 Total Exports to ECD	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Inland Southwest															
Transfer Services															
6 UAMP to UAMP TS PwrP	9.27	13.9	12.9	10.4	14.9	11.3	6.07	10.0	11.5	20.6	17.4	18.6	18.4	18.0	13.6
7 Total Exports to ISW	9.27	13.9	12.9	10.4	14.9	11.3	6.07	10.0	11.5	20.6	17.4	18.6	18.4	18.0	13.6
Pacific Southwest															
Contracts															
8 BPA-P to Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 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
10 PSE to PG&E SNX Del	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Transfer Services															
11 BURB to BURB TS PwrP	1.60	2.41	2.24	1.80	2.58	1.96	1.05	1.74	2.00	3.57	3.01	3.22	3.18	3.11	2.35
12 GLEN to GLEN TS PwrP	7.24	10.9	10.1	8.11	11.6	8.86	4.74	7.83	9.01	16.1	13.6	14.5	14.3	14.0	10.6
13 LDWP to LDWP TS PwrP	68.9	103	96.0	77.2	111	84.3	45.1	74.6	85.7	153	129	138	136	133	101
14 MID to MID TS PwrP	15.9	23.8	22.1	17.8	25.5	19.4	10.4	17.2	19.8	35.4	29.8	31.8	31.5	30.8	23.2
15 Other Entities to Other Entities	60.2	90.3	83.9	67.4	96.6	73.7	39.4	65.2	74.9	134	113	121	119	117	88.1
16 PG&E to PG&E TS PwrP	59.2	88.9	82.6	66.3	95.1	38.0	20.3	33.6	38.6	69.1	58.2	62.2	61.5	60.1	58.1
17 SCE to SCE TS PwrP	136	204	190	152	218	166	89.0	147	169	303	255	273	269	263	199
18 TID to TID TS PwrP	22.0	33.0	30.6	24.6	35.3	26.9	14.4	23.8	27.4	48.9	41.2	44.1	43.6	42.6	32.2
19 Intertie Losses	11	17	16	13	18	13	7	11	13	23	20	21	21	20	16
20 Total Exports to PSW	390	581	541	436	613	432	231	382	440	786	670	716	708	692	534

Total Exports

**Regional Exports
Operating Year 2023**

2018 White Book Report Date: **12/1/2018** *Continued*

S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
²¹ Federal Entities	497	587	439	439	439	439	439	439	439	456	421	439	439	460	450
²² Investor Owned Utilities	216	324	301	242	347	230	123	204	234	418	351	376	372	363	287
²³ Marketer	39.9	56.0	52.6	43.8	51.5	39.3	21.0	34.8	40.0	71.5	68.0	72.2	71.4	70.0	51.2
²⁴ Municipality	133	199	185	149	213	163	87.0	144	165	296	249	266	263	257	194
²⁵ Total Exports	887	1166	978	874	1050	871	670	821	878	1241	1090	1153	1145	1151	983

**Regional Exports
Operating Year 2024**

2018 White Book Report Date: 12/1/2018

S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Canada															
Contracts															
1 BPA-P to BCHP Trty CEA	437	441	439	439	439	439	439	439	439	439	439	439	439	439	439
2 BPA-P to BCHP NTSA Del	60.8	146	0	0	0	0	0	0	0	0	0	0	0	21.5	10.7
3 Total Exports to CAN	497	587	439	439	439	439	439	439	439	439	439	439	439	460	450
East Continental Divide															
Contracts															
4 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
5 Total Exports to ECD	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Inland Southwest															
Transfer Services															
6 UAMP to UAMP TS PwrP	9.27	13.9	12.9	10.4	14.9	11.3	6.07	10.0	11.5	20.6	17.4	18.6	18.4	18.0	13.6
7 Total Exports to ISW	9.27	13.9	12.9	10.4	14.9	11.3	6.07	10.0	11.5	20.6	17.4	18.6	18.4	18.0	13.6
Pacific Southwest															
Contracts															
8 BPA-P to Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 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
10 PSE to PG&E SNX Del	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Transfer Services															
11 BURB to BURB TS PwrP	1.60	2.41	2.24	1.80	2.58	1.96	1.05	1.74	2.00	3.57	3.01	3.22	3.18	3.11	2.35
12 GLEN to GLEN TS PwrP	7.24	10.9	10.1	8.11	11.6	8.86	4.74	7.83	9.01	16.1	13.6	14.5	14.3	14.0	10.6
13 LDWP to LDWP TS PwrP	68.9	103	79.9	64.2	92.0	70.1	37.5	62.0	71.3	128	107	115	114	111	85.0
14 MID to MID TS PwrP	15.9	23.8	22.1	17.8	25.5	19.4	10.4	17.2	19.8	35.4	29.8	31.8	31.5	30.8	23.2
15 Other Entities to Other Entities	60.2	90.3	83.9	67.4	96.6	73.7	39.4	65.2	74.9	134	113	121	119	117	88.0
16 PG&E to PG&E TS PwrP	31.0	46.6	43.3	34.8	49.8	38.0	20.3	33.6	38.6	69.1	58.2	62.2	61.5	60.1	45.4
17 SCE to SCE TS PwrP	136	204	190	152	218	166	89.0	147	169	303	255	273	269	263	199
18 TID to TID TS PwrP	22.0	33.0	30.6	24.6	35.3	26.9	14.4	23.8	27.4	48.9	41.2	44.1	43.6	42.6	32.1
19 Intertie Losses	11	16	14	11	16	12	7	11	12	22	19	20	20	19	15
20 Total Exports to PSW	361	538	484	390	548	417	223	369	425	760	647	692	684	669	504

Total Exports

**Regional Exports
Operating Year 2024**

2018 White Book Report Date: **12/1/2018** *Continued*

S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
²¹ Federal Entities	497	587	439	439	439	439	439	439	439	439	439	439	439	460	450
²² Investor Owned Utilities	188	282	262	211	301	230	123	204	234	418	351	376	372	363	274
²³ Marketer	39.9	56.0	52.6	43.8	51.5	39.3	21.0	34.8	40.0	71.5	68.0	72.2	71.4	70.0	51.2
²⁴ Municipality	133	199	169	136	195	148	79.4	131	151	270	227	243	240	235	179
²⁵ Total Exports	858	1124	922	829	986	857	663	809	864	1198	1086	1130	1122	1129	954

**Regional Exports
Operating Year 2025**

2018 White Book Report Date: 12/1/2018

S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Canada															
Contracts															
1 BPA-P to BCHP Trty CEA	452	456	454	454	454	454	454	454	454	454	454	454	454	454	454
2 BPA-P to BCHP NTSA Del	60.8	146	0	0	0	0	0	0	0	0	0	0	0	21.5	10.7
3 Total Exports to CAN	513	602	454	454	454	454	454	454	454	454	454	454	454	476	465
East Continental Divide															
Contracts															
4 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
5 Total Exports to ECD	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Inland Southwest															
Transfer Services															
6 UAMP to UAMP TS PwrP	9.27	13.9	12.9	10.4	14.9	11.3	6.07	10.0	11.5	20.6	17.4	18.6	18.4	18.0	13.6
7 Total Exports to ISW	9.27	13.9	12.9	10.4	14.9	11.3	6.07	10.0	11.5	20.6	17.4	18.6	18.4	18.0	13.6
Pacific Southwest															
Contracts															
8 BPA-P to Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 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
10 PSE to PG&E SNX Del	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Transfer Services															
11 BURB to BURB TS PwrP	1.60	2.41	2.24	1.80	2.58	1.96	1.05	1.74	2.00	3.57	3.01	3.22	3.18	3.11	2.35
12 GLEN to GLEN TS PwrP	7.24	10.9	10.1	8.11	11.6	8.86	4.74	7.83	9.01	16.1	13.6	14.5	14.3	14.0	10.6
13 LDWP to LDWP TS PwrP	57.3	85.9	79.9	64.2	92.0	70.1	37.5	62.0	71.3	128	107	115	114	111	83.8
14 MID to MID TS PwrP	15.9	23.8	22.1	17.8	25.5	19.4	10.4	17.2	19.8	35.4	29.8	31.8	31.5	30.8	23.2
15 Other Entities to Other Entities	60.2	90.3	83.9	67.4	96.6	73.7	39.4	65.2	74.9	134	113	121	119	117	88.1
16 PG&E to PG&E TS PwrP	31.0	46.6	43.3	34.8	49.8	38.0	20.3	33.6	38.6	69.1	58.2	62.2	61.5	60.1	45.4
17 SCE to SCE TS PwrP	136	204	190	152	218	166	89.0	147	169	303	255	273	269	263	199
18 TID to TID TS PwrP	22.0	33.0	30.6	24.6	35.3	26.9	14.4	23.8	27.4	48.9	41.2	44.1	43.6	42.6	32.2
19 Intertie Losses	10	15	14	11	16	12	7	11	12	22	19	20	20	19	15
20 Total Exports to PSW	349	520	484	390	548	417	223	369	425	760	647	692	684	669	503

Total Exports

**Regional Exports
Operating Year 2025**

2018 White Book Report Date: **12/1/2018** *Continued*

S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
²¹ Federal Entities	513	602	454	454	454	454	454	454	454	454	454	454	454	476	465
²² Investor Owned Utilities	188	282	262	211	301	230	123	204	234	418	351	376	372	363	275
²³ Marketer	39.9	56.0	52.6	43.8	51.5	39.3	21.0	34.8	40.0	71.5	68.0	72.2	71.4	70.0	51.2
²⁴ Municipality	121	182	169	136	195	148	79.4	131	151	270	227	243	240	235	177
²⁵ Total Exports	862	1122	938	845	1002	872	678	824	879	1213	1101	1145	1138	1144	968

**Regional Exports
Operating Year 2026**

2018 White Book Report Date: 12/1/2018

S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Canada															
Contracts															
1 BPA-P to BCHP Trty CEA	469	440	454	454	454	454	454	454	454	454	454	454	454	454	454
2 BPA-P to BCHP NTSA Del	60.8	146	0	0	0	0	0	0	0	0	0	0	0	21.5	10.7
3 Total Exports to CAN	530	586	454	454	454	454	454	454	454	454	454	454	454	476	465
East Continental Divide															
Contracts															
4 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
5 Total Exports to ECD	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Inland Southwest															
Transfer Services															
6 UAMP to UAMP TS PwrP	9.27	13.9	12.9	10.4	14.9	11.3	6.07	10.0	11.5	20.6	17.4	18.6	18.4	18.0	13.6
7 Total Exports to ISW	9.27	13.9	12.9	10.4	14.9	11.3	6.07	10.0	11.5	20.6	17.4	18.6	18.4	18.0	13.6
Pacific Southwest															
Contracts															
8 BPA-P to Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 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
10 PSE to PG&E SNX Del	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Transfer Services															
11 BURB to BURB TS PwrP	1.60	2.41	2.24	1.80	2.58	1.96	1.05	1.74	2.00	3.57	3.01	3.22	3.18	3.11	2.35
12 GLEN to GLEN TS PwrP	7.24	10.9	10.1	8.11	11.6	8.86	4.74	7.83	9.01	16.1	13.6	14.5	14.3	14.0	10.6
13 LDWP to LDWP TS PwrP	57.3	85.9	79.9	64.2	92.0	70.1	37.5	62.0	71.3	128	107	115	114	111	83.8
14 MID to MID TS PwrP	15.9	23.8	22.1	17.8	25.5	19.4	10.4	17.2	19.8	35.4	29.8	31.8	31.5	30.8	23.2
15 Other Entities to Other Entities	60.2	90.3	83.9	67.4	96.6	73.7	39.4	65.2	74.9	134	113	121	119	117	88.1
16 PG&E to PG&E TS PwrP	31.0	46.6	43.3	34.8	49.8	38.0	20.3	33.6	38.6	69.1	58.2	62.2	61.5	60.1	45.4
17 SCE to SCE TS PwrP	136	204	190	152	218	166	89.0	147	169	303	255	273	269	263	199
18 TID to TID TS PwrP	22.0	33.0	30.6	24.6	35.3	26.9	14.4	23.8	27.4	48.9	41.2	44.1	43.6	42.6	32.2
19 Intertie Losses	10	15	14	11	16	12	7	11	12	22	19	20	20	19	15
20 Total Exports to PSW	349	520	484	390	548	417	223	369	425	760	647	692	684	669	503

Total Exports

**Regional Exports
Operating Year 2026**

2018 White Book Report Date: **12/1/2018** *Continued*

S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
²¹ Federal Entities	530	586	454	454	454	454	454	454	454	454	454	454	454	476	465
²² Investor Owned Utilities	188	282	262	211	301	230	123	204	234	418	351	376	372	363	275
²³ Marketer	39.9	56.0	52.6	43.8	51.5	39.3	21.0	34.8	40.0	71.5	68.0	72.2	71.4	70.0	51.2
²⁴ Municipality	121	182	169	136	195	148	79.4	131	151	270	227	243	240	235	177
²⁵ Total Exports	880	1105	938	845	1002	872	678	824	879	1213	1101	1145	1138	1144	968

**Regional Exports
Operating Year 2027**

2018 White Book Report Date: 12/1/2018

S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Canada															
Contracts															
1 BPA-P to BCHP Trty CEA	469	440	454	454	454	454	454	454	454	454	454	454	454	454	454
2 BPA-P to BCHP NTSA Del	60.8	146	0	0	0	0	0	0	0	0	0	0	0	21.5	10.7
3 Total Exports to CAN	530	586	454	454	454	454	454	454	454	454	454	454	454	476	465
East Continental Divide															
Contracts															
4 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
5 Total Exports to ECD	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Inland Southwest															
Transfer Services															
6 UAMP to UAMP TS PwrP	9.27	13.9	12.9	10.4	14.9	11.3	6.07	10.0	11.5	20.6	17.4	18.6	18.4	18.0	13.6
7 Total Exports to ISW	9.27	13.9	12.9	10.4	14.9	11.3	6.07	10.0	11.5	20.6	17.4	18.6	18.4	18.0	13.6
Pacific Southwest															
Contracts															
8 BPA-P to Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 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
10 PSE to PG&E SNX Del	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Transfer Services															
11 BURB to BURB TS PwrP	1.60	2.41	2.24	1.80	2.58	1.96	1.05	1.74	2.00	3.57	3.01	3.22	3.18	3.11	2.35
12 GLEN to GLEN TS PwrP	7.24	10.9	10.1	8.11	11.6	8.86	4.74	7.83	9.01	16.1	13.6	14.5	14.3	14.0	10.6
13 LDWP to LDWP TS PwrP	57.3	85.9	79.9	64.2	92.0	70.1	37.5	62.0	71.3	128	107	115	114	111	83.8
14 MID to MID TS PwrP	15.9	23.8	22.1	17.8	25.5	19.4	10.4	17.2	19.8	35.4	29.8	31.8	31.5	30.8	23.2
15 Other Entities to Other Entities	60.2	90.3	83.9	67.4	96.6	73.7	39.4	65.2	74.9	134	113	121	119	117	88.1
16 PG&E to PG&E TS PwrP	31.0	46.6	43.3	34.8	49.8	38.0	20.3	33.6	38.6	69.1	58.2	62.2	61.5	60.1	45.4
17 SCE to SCE TS PwrP	136	204	190	152	218	166	89.0	147	169	303	255	273	269	263	199
18 TID to TID TS PwrP	22.0	33.0	30.6	24.6	35.3	26.9	14.4	23.8	27.4	48.9	41.2	44.1	43.6	42.6	32.2
19 Intertie Losses	10	15	14	11	16	12	7	11	12	22	19	20	20	19	15
20 Total Exports to PSW	349	520	484	390	548	417	223	369	425	760	647	692	684	669	503

Total Exports

**Regional Exports
Operating Year 2027**

2018 White Book Report Date: **12/1/2018** *Continued*

S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
²¹ Federal Entities	530	586	454	454	454	454	454	454	454	454	454	454	454	476	465
²² Investor Owned Utilities	188	282	262	211	301	230	123	204	234	418	351	376	372	363	275
²³ Marketer	39.9	56.0	52.6	43.8	51.5	39.3	21.0	34.8	40.0	71.5	68.0	72.2	71.4	70.0	51.2
²⁴ Municipality	121	182	169	136	195	148	79.4	131	151	270	227	243	240	235	177
²⁵ Total Exports	880	1105	938	845	1002	872	678	824	879	1213	1101	1145	1138	1144	968

**Regional Exports
Operating Year 2028**

2018 White Book Report Date: 12/1/2018

S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Canada															
Contracts															
¹ BPA-P to BCHP Trty CEA	433	474	454	454	454	454	454	454	454	472	436	454	454	454	454
² BPA-P to BCHP NTSA Del	60.8	146	0	0	0	0	0	0	0	0	0	0	0	21.5	10.7
³ Total Exports to CAN	494	620	454	454	454	454	454	454	454	472	436	454	454	476	465
East Continental Divide															
Contracts															
⁴ 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
⁵ Total Exports to ECD	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Inland Southwest															
Transfer Services															
⁶ UAMP to UAMP TS PwrP	9.27	13.9	12.9	10.4	14.9	11.3	6.07	10.0	11.5	20.6	17.4	18.6	18.4	18.0	13.6
⁷ Total Exports to ISW	9.27	13.9	12.9	10.4	14.9	11.3	6.07	10.0	11.5	20.6	17.4	18.6	18.4	18.0	13.6
Pacific Southwest															
Contracts															
⁸ BPA-P to Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
⁹ 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
¹⁰ PSE to PG&E SNX Del	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Transfer Services															
¹¹ BURB to BURB TS PwrP	1.60	2.41	2.24	1.80	2.58	1.96	1.05	1.74	2.00	3.57	3.01	3.22	3.18	3.11	2.35
¹² GLEN to GLEN TS PwrP	7.24	10.9	10.1	8.11	11.6	8.86	4.74	7.83	9.01	16.1	13.6	14.5	14.3	14.0	10.6
¹³ LDWP to LDWP TS PwrP	57.3	85.9	79.9	64.2	92.0	70.1	37.5	62.0	71.3	128	107	115	114	111	83.8
¹⁴ MID to MID TS PwrP	15.9	23.8	22.1	17.8	25.5	19.4	10.4	17.2	19.8	35.4	29.8	31.8	31.5	30.8	23.2
¹⁵ Other Entities to Other Entities	60.2	90.3	83.9	67.4	96.6	73.7	39.4	65.2	74.9	134	113	121	119	117	88.0
¹⁶ PG&E to PG&E TS PwrP	31.0	46.6	43.3	34.8	49.8	38.0	20.3	33.6	38.6	69.1	58.2	62.2	61.5	60.1	45.4
¹⁷ SCE to SCE TS PwrP	136	204	190	152	218	166	89.0	147	169	303	255	273	269	263	199
¹⁸ TID to TID TS PwrP	22.0	33.0	30.6	24.6	35.3	26.9	14.4	23.8	27.4	48.9	41.2	44.1	43.6	42.6	32.1
¹⁹ Intertie Losses	10	15	14	11	16	12	7	11	12	22	19	20	20	19	15
²⁰ Total Exports to PSW	349	520	484	390	548	417	223	369	425	760	647	692	684	669	503

Total Exports

**Regional Exports
Operating Year 2028**

2018 White Book Report Date: **12/1/2018** *Continued*

S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
²¹ Federal Entities	494	620	454	454	454	454	454	454	454	472	436	454	454	476	465
²² Investor Owned Utilities	188	282	262	211	301	230	123	204	234	418	351	376	372	363	274
²³ Marketer	39.9	56.0	52.6	43.8	51.5	39.3	21.0	34.8	40.0	71.5	68.0	72.2	71.4	70.0	51.2
²⁴ Municipality	121	182	169	136	195	148	79.4	131	151	270	227	243	240	235	177
²⁵ Total Exports	843	1139	938	845	1002	872	678	824	879	1232	1083	1145	1138	1144	968

**Regional Exports
Operating Year 2029**

2018 White Book Report Date: 12/1/2018

S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Canada															
Contracts															
¹ BPA-P to BCHP Trty CEA	452	456	454	454	454	454	454	454	454	436	472	454	454	454	454
² BPA-P to BCHP NTSA Del	60.8	146	0	0	0	0	0	0	0	0	0	0	0	21.5	10.7
³ Total Exports to CAN	513	602	454	454	454	454	454	454	454	436	472	454	454	476	465
East Continental Divide															
Contracts															
⁴ 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
⁵ Total Exports to ECD	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Inland Southwest															
Transfer Services															
⁶ UAMP to UAMP TS PwrP	9.27	13.9	12.9	10.4	14.9	11.3	6.07	10.0	11.5	20.6	17.4	18.6	18.4	18.0	13.6
⁷ Total Exports to ISW	9.27	13.9	12.9	10.4	14.9	11.3	6.07	10.0	11.5	20.6	17.4	18.6	18.4	18.0	13.6
Pacific Southwest															
Contracts															
⁸ BPA-P to Other Entities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
⁹ MCQC to BURB PwrS LTFirm	7.81	7.81	7.81	7.81	0	0	0	0	0	0	0	0	0	0	1.97
¹⁰ PSE to PG&E SNX Del	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Transfer Services															
¹¹ BURB to BURB TS PwrP	1.60	2.41	2.24	1.80	2.58	1.96	1.05	1.74	2.00	3.57	3.01	3.22	3.18	3.11	2.35
¹² GLEN to GLEN TS PwrP	7.24	10.9	10.1	8.11	11.6	8.86	4.74	7.83	9.01	16.1	13.6	14.5	14.3	14.0	10.6
¹³ LDWP to LDWP TS PwrP	57.3	85.9	79.9	64.2	92.0	70.1	37.5	62.0	71.3	128	107	115	114	111	83.8
¹⁴ MID to MID TS PwrP	15.9	23.8	22.1	17.8	25.5	19.4	10.4	17.2	19.8	35.4	29.8	31.8	31.5	30.8	23.2
¹⁵ Other Entities to Other Entities	60.2	90.3	83.9	67.4	96.6	73.7	39.4	65.2	74.9	134	113	121	119	117	88.1
¹⁶ PG&E to PG&E TS PwrP	31.0	46.6	43.3	34.8	49.8	38.0	20.3	33.6	38.6	69.1	58.2	62.2	61.5	60.1	45.4
¹⁷ SCE to SCE TS PwrP	136	204	190	152	218	166	89.0	147	169	303	255	273	269	263	199
¹⁸ TID to TID TS PwrP	22.0	33.0	30.6	24.6	35.3	26.9	14.4	23.8	27.4	48.9	41.2	44.1	43.6	42.6	32.2
¹⁹ Intertie Losses	10	15	14	11	16	12	7	11	12	22	19	20	20	19	15
²⁰ Total Exports to PSW	349	520	484	390	548	417	223	369	425	760	639	684	676	661	501

Total Exports

**Regional Exports
Operating Year 2029**

2018 White Book Report Date: **12/1/2018** *Continued*

S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
²¹ Federal Entities	513	602	454	454	454	454	454	454	454	436	472	454	454	476	465
²² Investor Owned Utilities	188	282	262	211	301	230	123	204	234	418	351	376	372	363	275
²³ Marketer	39.9	56.0	52.6	43.8	51.5	39.3	21.0	34.8	40.0	71.5	60.1	64.3	63.6	62.2	48.9
²⁴ Municipality	121	182	169	136	195	148	79.4	131	151	270	227	243	240	235	177
²⁵ Total Exports	862	1122	938	845	1002	872	678	824	879	1195	1111	1138	1130	1136	966

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Exhibit 27
Regional Imports

Monthly Energy
Operating Year 2020 to 2029

Regional Imports
Operating Year 2020
2018 White Book Report Date: 12/1/2018

S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Canada															
Contracts															
1 BCHP to SCL PwrS LTFirm	18.0	18.0	13.0	19.0	35.0	45.0	58.0	67.0	59.0	27.0	27.0	26.0	36.0	24.0	35.5
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 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
4 Total Imports From CAN	20.8	20.8	15.8	22.0	38.9	49.3	62.3	70.8	62.7	30.2	30.2	28.9	38.6	27.0	38.8
Inland Southwest															
Transfer Services															
5 RMP to RMP TS PwrP	536	536	482	448	440	474	446	461	434	414	414	462	592	654	487
6 Total Imports From ISW	536	536	482	448	440	474	446	461	434	414	414	462	592	654	487
Pacific Southwest															
Contracts															
7 Other Entities to Other Entities	64.4	64.6	63.3	115	114	113	114	114	114	64.4	64.4	63.4	64.4	64.0	89.0
8 PG&E to PSE SNX Ret	0	0	0	0	181	235	87.4	63.3	0	0	0	0	0	0	47.1
9 Total Imports From PSW	64.4	64.6	63.3	115	295	348	201	178	114	64.4	64.4	63.4	64.4	64.0	136
Total Imports															
10 Federal Entities	65.4	65.6	64.3	116	115	114	115	115	115	65.4	65.4	64.4	65.4	65.0	90.0
11 Investor Owned Utilities	538	538	483	450	623	713	537	527	437	416	416	464	594	656	537
12 Municipality	18.0	18.0	13.0	19.0	35.0	45.0	58.0	67.0	59.0	27.0	27.0	26.0	36.0	24.0	35.5
13 Total Imports	622	622	561	584	773	872	710	709	611	508	508	554	696	745	662

Regional Imports
Operating Year 2021
2018 White Book Report Date: 12/1/2018

S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Canada															
Contracts															
1 BCHP to SCL PwrS LTFirm	18.0	18.0	13.0	19.0	35.0	45.0	58.0	67.0	59.0	27.0	27.0	26.0	36.0	24.0	35.4
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 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
4 Total Imports From CAN	20.8	20.8	15.8	22.0	38.9	49.3	62.3	70.8	62.7	30.2	30.2	28.9	38.6	27.0	38.8
Inland Southwest															
Transfer Services															
5 RMP to RMP TS PwrP	542	542	485	451	442	477	449	463	437	417	417	465	598	661	491
6 Total Imports From ISW	542	542	485	451	442	477	449	463	437	417	417	465	598	661	491
Pacific Southwest															
Contracts															
7 Other Entities to Other Entities	64.4	63.5	63.9	115	113	114	113	114	115	64.4	64.4	63.4	64.4	0	83.5
8 PG&E to PSE SNX Ret	0	0	0	0	181	235	87.4	63.3	0	0	0	0	0	0	47.1
9 Total Imports From PSW	64.4	63.5	63.9	115	294	349	201	178	115	64.4	64.4	63.4	64.4	0	131
Total Imports															
10 Federal Entities	65.4	64.5	64.9	116	114	115	114	115	116	65.4	65.4	64.4	65.4	1.00	84.5
11 Investor Owned Utilities	544	544	487	453	626	715	539	529	439	419	419	467	600	663	540
12 Municipality	18.0	18.0	13.0	19.0	35.0	45.0	58.0	67.0	59.0	27.0	27.0	26.0	36.0	24.0	35.4
13 Total Imports	627	626	565	587	775	875	712	711	614	511	511	557	701	688	660

Regional Imports
Operating Year 2022
2018 White Book Report Date: 12/1/2018
S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Canada															
Contracts															
1 BCHP to SCL PwrS LTFirm	18.0	18.0	13.0	19.0	35.0	45.0	58.0	67.0	59.0	27.0	27.0	26.0	36.0	24.0	35.4
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 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
4 Total Imports From CAN	20.8	20.8	15.8	22.0	38.9	49.3	62.3	70.8	62.7	30.2	30.2	28.9	38.6	27.0	38.8
Inland Southwest															
Transfer Services															
5 RMP to RMP TS PwrP	548	548	488	454	445	480	451	466	440	419	419	468	605	667	494
6 Total Imports From ISW	548	548	488	454	445	480	451	466	440	419	419	468	605	667	494
Pacific Southwest															
Contracts															
7 PG&E to PSE SNX Ret	0	0	0	0	181	235	87.4	63.3	0	0	0	0	0	0	47.1
8 Total Imports From PSW	0	0	0	0	181	235	87.4	63.3	0	0	0	0	0	0	47.1
Total Imports															
9 Federal Entities	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
10 Investor Owned Utilities	550	550	490	456	628	718	542	532	442	421	421	470	606	669	544
11 Municipality	18.0	18.0	13.0	19.0	35.0	45.0	58.0	67.0	59.0	27.0	27.0	26.0	36.0	24.0	35.4
12 Total Imports	569	569	504	476	664	764	601	600	502	449	449	497	643	694	580

Regional Imports
Operating Year 2023
2018 White Book Report Date: 12/1/2018
S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Canada															
Contracts															
1 BCHP to SCL PwrS LTFirm	18.0	18.0	13.0	19.0	35.0	45.0	58.0	67.0	59.0	27.0	27.0	26.0	36.0	24.0	35.4
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 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
4 Total Imports From CAN	20.8	20.8	15.8	22.0	38.9	49.3	62.3	70.8	62.7	30.2	30.2	28.9	38.6	27.0	38.8
Inland Southwest															
Transfer Services															
5 RMP to RMP TS PwrP	554	554	491	457	447	483	453	468	443	422	422	471	611	674	498
6 Total Imports From ISW	554	554	491	457	447	483	453	468	443	422	422	471	611	674	498
Pacific Southwest															
Contracts															
7 PG&E to PSE SNX Ret	0	0	0	0	181	235	87.4	63.3	0	0	0	0	0	0	47.1
8 Total Imports From PSW	0	0	0	0	181	235	87.4	63.3	0	0	0	0	0	0	47.1
Total Imports															
9 Federal Entities	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
10 Investor Owned Utilities	556	555	493	459	631	721	544	534	445	424	424	473	612	677	548
11 Municipality	18.0	18.0	13.0	19.0	35.0	45.0	58.0	67.0	59.0	27.0	27.0	26.0	36.0	24.0	35.4
12 Total Imports	575	574	507	479	667	767	603	602	505	452	452	500	649	702	584

Regional Imports
Operating Year 2024
2018 White Book Report Date: 12/1/2018
S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Canada															
Contracts															
1 BCHP to SCL PwrS LTFirm	18.0	18.0	13.0	19.0	35.0	45.0	58.0	67.0	59.0	27.0	27.0	26.0	36.0	24.0	35.5
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 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
4 Total Imports From CAN	20.8	20.8	15.8	22.0	38.9	49.3	62.3	70.8	62.7	30.2	30.2	28.9	38.6	27.0	38.8
Inland Southwest															
Transfer Services															
5 RMP to RMP TS PwrP	560	559	494	460	449	485	456	471	445	425	425	474	617	681	502
6 Total Imports From ISW	560	559	494	460	449	485	456	471	445	425	425	474	617	681	502
Pacific Southwest															
Contracts															
7 PG&E to PSE SNX Ret	0	0	0	0	181	235	87.4	63.3	0	0	0	0	0	0	47.1
8 Total Imports From PSW	0	0	0	0	181	235	87.4	63.3	0	0	0	0	0	0	47.1
Total Imports															
9 Federal Entities	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
10 Investor Owned Utilities	561	561	496	462	633	724	546	537	448	427	427	476	619	683	551
11 Municipality	18.0	18.0	13.0	19.0	35.0	45.0	58.0	67.0	59.0	27.0	27.0	26.0	36.0	24.0	35.5
12 Total Imports	580	580	510	482	669	770	605	605	508	455	455	503	656	708	588

Regional Imports
Operating Year 2025
2018 White Book Report Date: 12/1/2018
S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Canada															
Contracts															
1 BCHP to SCL PwrS LTFirm	18.0	18.0	13.0	19.0	35.0	45.0	58.0	67.0	59.0	27.0	27.0	26.0	36.0	24.0	35.4
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 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
4 Total Imports From CAN	20.8	20.8	15.8	22.0	38.9	49.3	62.3	70.8	62.7	30.2	30.2	28.9	38.6	27.0	38.8
Inland Southwest															
Transfer Services															
5 RMP to RMP TS PwrP	565	565	498	462	452	488	458	473	448	428	428	477	624	688	506
6 Total Imports From ISW	565	565	498	462	452	488	458	473	448	428	428	477	624	688	506
Pacific Southwest															
Contracts															
7 PG&E to PSE SNX Ret	0	0	0	0	181	235	87.4	63.3	0	0	0	0	0	0	47.1
8 Total Imports From PSW	0	0	0	0	181	235	87.4	63.3	0	0	0	0	0	0	47.1
Total Imports															
9 Federal Entities	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
10 Investor Owned Utilities	567	567	500	464	635	727	549	540	451	430	430	479	626	690	555
11 Municipality	18.0	18.0	13.0	19.0	35.0	45.0	58.0	67.0	59.0	27.0	27.0	26.0	36.0	24.0	35.4
12 Total Imports	586	586	514	484	671	773	608	608	511	458	458	506	663	715	591

Regional Imports
Operating Year 2026
2018 White Book Report Date: 12/1/2018
S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Canada															
Contracts															
1 BCHP to SCL PwrS LTFirm	18.0	18.0	13.0	19.0	35.0	45.0	58.0	67.0	59.0	27.0	27.0	26.0	36.0	24.0	35.4
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 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
4 Total Imports From CAN	20.8	20.8	15.8	22.0	38.9	49.3	62.3	70.8	62.7	30.2	30.2	28.9	38.6	27.0	38.8
Inland Southwest															
Transfer Services															
5 RMP to RMP TS PwrP	571	571	501	466	454	491	461	476	451	430	430	480	631	695	509
6 Total Imports From ISW	571	571	501	466	454	491	461	476	451	430	430	480	631	695	509
Pacific Southwest															
Contracts															
7 PG&E to PSE SNX Ret	0	0	0	0	181	235	87.4	63.3	0	0	0	0	0	0	47.1
8 Total Imports From PSW	0	0	0	0	181	235	87.4	63.3	0	0	0	0	0	0	47.1
Total Imports															
9 Federal Entities	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
10 Investor Owned Utilities	573	573	503	468	638	729	551	542	454	433	433	482	632	697	559
11 Municipality	18.0	18.0	13.0	19.0	35.0	45.0	58.0	67.0	59.0	27.0	27.0	26.0	36.0	24.0	35.4
12 Total Imports	592	592	517	488	674	775	610	610	514	461	461	509	669	722	595

Regional Imports
Operating Year 2027
2018 White Book Report Date: 12/1/2018
S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Canada															
Contracts															
1 BCHP to SCL PwrS LTFirm	18.0	18.0	13.0	19.0	35.0	45.0	58.0	67.0	59.0	27.0	27.0	26.0	36.0	24.0	35.4
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 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
4 Total Imports From CAN	20.8	20.8	15.8	22.0	38.9	49.3	62.3	70.8	62.7	30.2	30.2	28.9	38.6	27.0	38.8
Inland Southwest															
Transfer Services															
5 RMP to RMP TS PwrP	577	577	504	468	457	494	463	479	454	433	433	483	637	702	513
6 Total Imports From ISW	577	577	504	468	457	494	463	479	454	433	433	483	637	702	513
Pacific Southwest															
Contracts															
7 PG&E to PSE SNX Ret	0	0	0	0	181	235	87.4	63.3	0	0	0	0	0	0	47.1
8 Total Imports From PSW	0	0	0	0	181	235	87.4	63.3	0	0	0	0	0	0	47.1
Total Imports															
9 Federal Entities	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
10 Investor Owned Utilities	579	579	506	470	640	732	554	545	457	436	436	485	639	704	562
11 Municipality	18.0	18.0	13.0	19.0	35.0	45.0	58.0	67.0	59.0	27.0	27.0	26.0	36.0	24.0	35.4
12 Total Imports	598	598	520	490	676	778	613	613	517	464	464	512	676	729	599

Regional Imports
Operating Year 2028
2018 White Book Report Date: 12/1/2018
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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Canada															
Contracts															
1 BCHP to SCL PwrS LTFirm	18.0	18.0	13.0	19.0	35.0	45.0	58.0	67.0	59.0	27.0	27.0	26.0	36.0	24.0	35.5
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 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
4 Total Imports From CAN	20.8	20.8	15.8	22.0	38.9	49.3	62.3	70.8	62.7	30.2	30.2	28.9	38.6	27.0	38.8
Inland Southwest															
Transfer Services															
5 RMP to RMP TS PwrP	583	583	507	472	459	496	466	481	457	436	436	487	644	710	517
6 Total Imports From ISW	583	583	507	472	459	496	466	481	457	436	436	487	644	710	517
Pacific Southwest															
Contracts															
7 PG&E to PSE SNX Ret	0	0	0	0	181	235	87.4	63.3	0	0	0	0	0	0	47.1
8 Total Imports From PSW	0	0	0	0	181	235	87.4	63.3	0	0	0	0	0	0	47.1
Total Imports															
9 Federal Entities	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
10 Investor Owned Utilities	585	585	509	473	643	735	556	547	460	439	438	489	646	712	566
11 Municipality	18.0	18.0	13.0	19.0	35.0	45.0	58.0	67.0	59.0	27.0	27.0	26.0	36.0	24.0	35.5
12 Total Imports	604	604	523	493	679	781	615	615	520	467	466	516	683	737	603

Regional Imports
Operating Year 2029
2018 White Book Report Date: 12/1/2018
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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Canada															
Contracts															
1 BCHP to SCL PwrS LTFirm	18.0	18.0	13.0	19.0	35.0	45.0	58.0	67.0	59.0	27.0	27.0	26.0	36.0	24.0	35.4
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 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
4 Total Imports From CAN	20.8	20.8	15.8	22.0	38.9	49.3	62.3	70.8	62.7	30.2	30.2	28.9	38.6	27.0	38.8
Inland Southwest															
Transfer Services															
5 RMP to RMP TS PwrP	589	589	511	474	462	499	468	484	460	439	439	490	650	718	521
6 Total Imports From ISW	589	589	511	474	462	499	468	484	460	439	439	490	650	718	521
Pacific Southwest															
Contracts															
7 PG&E to PSE SNX Ret	0	0	0	0	181	235	87.4	63.3	0	0	0	0	0	0	47.1
8 Total Imports From PSW	0	0	0	0	181	235	87.4	63.3	0	0	0	0	0	0	47.1
Total Imports															
9 Federal Entities	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
10 Investor Owned Utilities	591	591	513	476	646	737	559	550	463	441	441	492	652	720	570
11 Municipality	18.0	18.0	13.0	19.0	35.0	45.0	58.0	67.0	59.0	27.0	27.0	26.0	36.0	24.0	35.4
12 Total Imports	610	610	527	496	682	783	618	618	523	469	469	519	689	745	607

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Exhibit 28
Regional Intra-Regional Transfers

Monthly Energy
Operating Year 2020 to 2029

Regional: Intra-Regional Transfers
Operating Year 2020
2018 White Book Report Date: 12/1/2018
S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Intra-Regional Transfers															
Contracts	412	412	393	250	247	244	171	169	165	205	205	215	231	231	245
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 ESI PwrS LTFirm	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	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44
5 BPA-P to Other Entities	125	125	125	125	125	125	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	81.4
6 BPA-P to PPL NSP RIn	5.37	5.37	4.26	4.42	5.27	3.68	3.24	2.68	2.25	4.73	4.73	5.05	4.97	6.35	4.36
7 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
8 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
9 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
10 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
11 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
12 Other Entities to BPA-P	144	144	142	0	0	0	0	0	0	28.9	28.9	26.9	28.9	28.0	33.2
13 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
14 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
15 PGE to PPL PwrS LTFirm	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.90	1.00	1.00	1.00	1.00	1.00	1.00	0.99
16 PPL to BPA-P NSP SOut	4.13	4.12	4.57	5.11	3.80	3.24	2.50	2.40	4.58	5.22	5.22	4.81	6.56	5.37	4.36
17 SCL to POPD PwrS LTFirm	40.6	40.6	42.6	42.9	41.8	39.5	41.8	42.0	39.5	42.1	42.1	39.2	43.3	41.7	41.4
18 Total Intra-Regional Transfers	412	412	393	250	247	244	171	169	165	205	205	215	231	231	245
Intra-Regional Contracts Out															
19 Federal Entities	140	140	139	139	144	142	66.6	66.1	61.7	64.2	64.2	64.5	64.4	65.8	96.4
20 Investor Owned Utilities	19.4	19.4	19.0	19.1	13.9	13.4	12.9	12.7	14.9	19.0	19.0	19.1	21.3	20.7	17.1
21 Marketer	169	169	167	25.0	25.0	25.0	25.0	25.0	25.0	53.9	53.9	51.9	53.9	53.0	58.2
22 Municipality	56.4	56.4	44.1	44.1	43.0	40.7	43.0	43.2	40.7	43.3	43.3	52.3	63.0	62.7	48.1
23 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
24 Total Regional Contracts Out	412	412	393	250	247	244	171	169	165	205	205	215	231	231	245
Intra-Regional Contracts In															
25 Federal Entities	169	169	167	25.7	20.7	20.1	19.4	19.3	21.5	54.7	54.7	52.3	56.1	54.0	56.6
26 Investor Owned Utilities	33.8	33.8	15.4	13.3	16.8	16.7	16.8	15.0	11.0	16.0	16.0	30.6	38.4	40.9	22.1
27 Marketer	140	140	140	140	140	140	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	96.1
28 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
29 Public Utility District	65.6	65.6	67.6	67.9	66.8	64.5	66.8	67.0	64.5	67.1	67.1	64.2	68.3	66.7	66.4
30 Total Regional Contracts In	412	412	393	250	247	244	171	169	165	205	205	215	231	231	245

Regional: Intra-Regional Transfers
Operating Year 2021
2018 White Book Report Date: 12/1/2018
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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Intra-Regional Transfers															
Contracts	222	220	204	170	163	162	315	314	308	345	345	355	370	341	272
1 AVWP to BPA-P Setl WNP3 Rtn	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 BPA-P to AVWP Setl WNP3 Del	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 BPA-P to BPA-T Ops IntrlAgmt	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44
4 BPA-P to Other Entities	50.0	50.0	50.0	50.0	50.0	50.0	0	0	0	0	0	0	0	0	21.0
5 BPA-P to PGE CapS Surp	0	0	0	0	0	0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	58.1
6 BPA-P to PPL NSP RIn	5.37	5.36	4.28	4.41	0	0	0	0	0	0	0	0	0	0	1.18
7 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
8 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
9 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
10 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
11 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
12 Other Entities to BPA-P	28.9	27.1	27.8	0	0	0	0	0	0	28.9	28.9	26.9	28.9	0	11.7
13 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
14 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
15 PGE to PPL PwrS LTFirm	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.90	1.00	1.00	1.00	1.00	1.00	1.00	0.99
16 PPL to BPA-P NSP SOut	4.12	4.15	4.56	0	0	0	0	0	0	0	0	0	0	0	0.73
17 SCL to POPD PwrS LTFirm	40.6	40.6	42.6	42.9	41.8	39.5	41.8	42.0	39.5	42.1	42.1	39.2	43.3	41.7	41.4
18 Total Intra-Regional Transfers	222	220	204	170	163	162	315	314	308	345	345	355	370	341	272
Intra-Regional Contracts Out															
19 Federal Entities	64.8	64.8	63.7	63.8	63.2	63.4	213	213	209	209	209	209	209	209	149
20 Investor Owned Utilities	19.4	19.4	18.9	14.0	10.1	10.2	10.4	10.3	10.3	13.8	13.8	14.3	14.7	15.3	13.5
21 Marketer	53.9	52.1	52.8	25.0	25.0	25.0	25.0	25.0	25.0	53.9	53.9	51.9	53.9	25.0	36.7
22 Municipality	56.4	56.4	44.1	44.1	43.0	40.7	43.0	43.2	40.7	43.3	43.3	52.3	63.0	62.7	48.1
23 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
24 Total Regional Contracts Out	222	220	204	170	163	162	315	314	308	345	345	355	370	341	272
Intra-Regional Contracts In															
25 Federal Entities	53.6	51.9	53.0	20.6	16.9	16.9	16.9	16.9	16.9	49.5	49.5	47.5	49.5	20.6	31.5
26 Investor Owned Utilities	33.8	33.8	15.4	13.3	11.3	13.1	213	212	209	211	211	226	233	235	135
27 Marketer	64.7	64.7	64.7	64.7	64.7	64.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	35.7
28 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
29 Public Utility District	65.6	65.6	67.6	67.9	66.8	64.5	66.8	67.0	64.5	67.1	67.1	64.2	68.3	66.7	66.4

Regional: Intra-Regional Transfers
Operating Year 2022
2018 White Book Report Date: 12/1/2018
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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Intra-Regional Transfers															
Contracts	334	334	317	315	313	312	315	314	308	317	317	328	341	341	321
1 AVWP to BPA-P Setl WNP3 Rtn	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 BPA-P to AVWP Setl WNP3 Del	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 BPA-P to BPA-T Ops IntrlAgmt	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44
4 BPA-P to PGE CapS Surp	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
5 BPA-P to PPL NSP RIn	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 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
7 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
8 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
9 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
10 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
11 Other Entities to BPA-P	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12 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
13 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
14 PGE to PPL PwrS LTFirm	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.90	1.00	1.00	1.00	1.00	1.00	1.00	0.99
15 PPL to BPA-P NSP SOut	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 SCL to POPD PwrS LTFirm	40.6	40.6	42.6	42.9	41.8	39.5	41.8	42.0	39.5	42.1	42.1	39.2	43.3	41.7	41.4
17 Total Intra-Regional Transfers	334	334	317	315	313	312	315	314	308	317	317	328	341	341	321
Intra-Regional Contracts Out															
18 Federal Entities	209	209	209	209	213	213	213	213	209	209	209	209	209	209	211
19 Investor Owned Utilities	15.3	15.3	14.4	14.0	10.1	10.2	10.4	10.3	10.3	13.8	13.8	14.3	14.7	15.3	12.8
20 Marketer	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 Municipality	56.4	56.4	44.1	44.1	43.0	40.7	43.0	43.2	40.7	43.3	43.3	52.3	63.0	62.7	48.1
22 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
23 Total Regional Contracts Out	334	334	317	315	313	312	315	314	308	317	317	328	341	341	321
Intra-Regional Contracts In															
24 Federal Entities	20.6	20.6	20.6	20.6	16.9	16.9	16.9	16.9	16.9	20.6	20.6	20.6	20.6	20.6	19.1
25 Investor Owned Utilities	228	228	211	209	211	213	213	212	209	211	211	226	233	235	218
26 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
27 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
28 Public Utility District	65.6	65.6	67.6	67.9	66.8	64.5	66.8	67.0	64.5	67.1	67.1	64.2	68.3	66.7	66.4
29 Total Regional Contracts In	334	334	317	315	313	312	315	314	308	317	317	328	341	341	321

Regional: Intra-Regional Transfers
Operating Year 2023
2018 White Book Report Date: 12/1/2018
S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Intra-Regional Transfers															
Contracts	334	334	317	315	313	312	315	314	308	317	317	328	341	341	321
1 AVWP to BPA-P Setl WNP3 Rtn	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 BPA-P to AVWP Setl WNP3 Del	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 BPA-P to BPA-T Ops IntrlAgmt	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44
4 BPA-P to PGE CapS Surp	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
5 BPA-P to PPL NSP RIn	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 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
7 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
8 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
9 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
10 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
11 Other Entities to BPA-P	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12 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
13 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
14 PGE to PPL PwrS LTFirm	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.90	1.00	1.00	1.00	1.00	1.00	1.00	0.99
15 PPL to BPA-P NSP SOut	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 SCL to POPD PwrS LTFirm	40.6	40.6	42.6	42.9	41.8	39.5	41.8	42.0	39.5	42.1	42.1	39.2	43.3	41.7	41.4
17 Total Intra-Regional Transfers	334	334	317	315	313	312	315	314	308	317	317	328	341	341	321
Intra-Regional Contracts Out															
18 Federal Entities	209	209	209	209	213	213	213	213	209	209	209	209	209	209	211
19 Investor Owned Utilities	15.3	15.3	14.4	14.0	10.1	10.2	10.4	10.3	10.3	13.8	13.8	14.3	14.7	15.3	12.8
20 Marketer	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 Municipality	56.4	56.4	44.1	44.1	43.0	40.7	43.0	43.2	40.7	43.3	43.3	52.3	63.0	62.7	48.1
22 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
23 Total Regional Contracts Out	334	334	317	315	313	312	315	314	308	317	317	328	341	341	321
Intra-Regional Contracts In															
24 Federal Entities	20.6	20.6	20.6	20.6	16.9	16.9	16.9	16.9	16.9	20.6	20.6	20.6	20.6	20.6	19.1
25 Investor Owned Utilities	228	228	211	209	211	213	213	212	209	211	211	226	233	235	218
26 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
27 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
28 Public Utility District	65.6	65.6	67.6	67.9	66.8	64.5	66.8	67.0	64.5	67.1	67.1	64.2	68.3	66.7	66.4
29 Total Regional Contracts In	334	334	317	315	313	312	315	314	308	317	317	328	341	341	321

Regional: Intra-Regional Transfers
Operating Year 2024
2018 White Book Report Date: 12/1/2018
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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Intra-Regional Transfers															
Contracts	334	334	317	315	313	312	315	314	308	317	317	328	341	341	321
1 AVWP to BPA-P Setl WNP3 Rtn	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 BPA-P to AVWP Setl WNP3 Del	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 BPA-P to BPA-T Ops IntrlAgmt	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44
4 BPA-P to PGE CapS Surp	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
5 BPA-P to PPL NSP RIn	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 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
7 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
8 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
9 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
10 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
11 Other Entities to BPA-P	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12 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
13 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
14 PGE to PPL PwrS LTFirm	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.90	1.00	1.00	1.00	1.00	1.00	1.00	0.99
15 PPL to BPA-P NSP SOut	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 SCL to POPD PwrS LTFirm	40.6	40.6	42.6	42.9	41.8	39.5	41.8	42.0	39.5	42.1	42.1	39.2	43.3	41.7	41.4
17 Total Intra-Regional Transfers	334	334	317	315	313	312	315	314	308	317	317	328	341	341	321
Intra-Regional Contracts Out															
18 Federal Entities	209	209	209	209	213	213	213	213	209	209	209	209	209	209	211
19 Investor Owned Utilities	15.3	15.3	14.4	14.0	10.1	10.2	10.4	10.3	10.3	13.8	13.8	14.3	14.7	15.3	12.8
20 Marketer	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 Municipality	56.4	56.4	44.1	44.1	43.0	40.7	43.0	43.2	40.7	43.3	43.3	52.3	63.0	62.7	48.1
22 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
23 Total Regional Contracts Out	334	334	317	315	313	312	315	314	308	317	317	328	341	341	321
Intra-Regional Contracts In															
24 Federal Entities	20.6	20.6	20.6	20.6	16.9	16.9	16.9	16.9	16.9	20.6	20.6	20.6	20.6	20.6	19.1
25 Investor Owned Utilities	228	228	211	209	211	213	214	212	209	211	211	226	233	235	218
26 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
27 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
28 Public Utility District	65.6	65.6	67.6	67.9	66.8	64.5	66.8	67.0	64.5	67.1	67.1	64.2	68.3	66.7	66.4
29 Total Regional Contracts In	334	334	317	315	313	312	315	314	308	317	317	328	341	341	321

Regional: Intra-Regional Transfers
Operating Year 2025
2018 White Book Report Date: 12/1/2018
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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Intra-Regional Transfers															
Contracts	334	334	317	315	313	312	315	314	308	317	317	328	341	341	321
1 AVWP to BPA-P Setl WNP3 Rtn	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 BPA-P to AVWP Setl WNP3 Del	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 BPA-P to BPA-T Ops IntrlAgmt	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44
4 BPA-P to PGE CapS Surp	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
5 BPA-P to PPL NSP RIn	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 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
7 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
8 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
9 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
10 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
11 Other Entities to BPA-P	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12 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
13 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
14 PGE to PPL PwrS LTFirm	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.90	1.00	1.00	1.00	1.00	1.00	1.00	0.99
15 PPL to BPA-P NSP SOut	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 SCL to POPD PwrS LTFirm	40.6	40.6	42.6	42.9	41.8	39.5	41.8	42.0	39.5	42.1	42.1	39.2	43.3	41.7	41.4
17 Total Intra-Regional Transfers	334	334	317	315	313	312	315	314	308	317	317	328	341	341	321
Intra-Regional Contracts Out															
18 Federal Entities	209	209	209	209	213	213	213	213	209	209	209	209	209	209	211
19 Investor Owned Utilities	15.3	15.3	14.4	14.0	10.1	10.2	10.4	10.3	10.3	13.8	13.8	14.3	14.7	15.3	12.8
20 Marketer	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 Municipality	56.4	56.4	44.1	44.1	43.0	40.7	43.0	43.2	40.7	43.3	43.3	52.3	63.0	62.7	48.1
22 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
23 Total Regional Contracts Out	334	334	317	315	313	312	315	314	308	317	317	328	341	341	321
Intra-Regional Contracts In															
24 Federal Entities	20.6	20.6	20.6	20.6	16.9	16.9	16.9	16.9	16.9	20.6	20.6	20.6	20.6	20.6	19.1
25 Investor Owned Utilities	228	228	211	209	211	213	214	212	209	211	211	226	233	235	218
26 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
27 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
28 Public Utility District	65.6	65.6	67.6	67.9	66.8	64.5	66.8	67.0	64.5	67.1	67.1	64.2	68.3	66.7	66.4
29 Total Regional Contracts In	334	334	317	315	313	312	315	314	308	317	317	328	341	341	321

Regional: Intra-Regional Transfers
Operating Year 2026
2018 White Book Report Date: 12/1/2018
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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Intra-Regional Transfers															
Contracts	334	334	317	315	313	312	115	114	108	117	117	128	141	141	205
1 AVWP to BPA-P Setl WNP3 Rtn	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 BPA-P to AVWP Setl WNP3 Del	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 BPA-P to BPA-T Ops IntrlAgmt	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44
4 BPA-P to PGE CapS Surp	100.0	100.0	100.0	100.0	100.0	100.0	0	0	0	0	0	0	0	0	41.9
	100.0	100.0	100.0	100.0	100.0	100.0	0	0	0	0	0	0	0	0	41.9
5 BPA-P to PPL NSP RIn	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 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
7 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
8 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
9 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
10 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
11 Other Entities to BPA-P	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12 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
13 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
14 PGE to PPL PwrS LTFirm	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.90	1.00	1.00	1.00	1.00	1.00	1.00	0.99
15 PPL to BPA-P NSP SOut	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 SCL to POPD PwrS LTFirm	40.6	40.6	42.6	42.9	41.8	39.5	41.8	42.0	39.5	42.1	42.1	39.2	43.3	41.7	41.4
17 Total Intra-Regional Transfers	334	334	317	315	313	312	115	114	108	117	117	128	141	141	205
Intra-Regional Contracts Out															
18 Federal Entities	209	209	209	209	213	213	13.4	13.4	9.44	9.44	9.44	9.44	9.44	9.44	94.6
19 Investor Owned Utilities	15.3	15.3	14.4	14.0	10.1	10.2	10.4	10.3	10.3	13.8	13.8	14.3	14.7	15.3	12.8
20 Marketer	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 Municipality	56.4	56.4	44.1	44.1	43.0	40.7	43.0	43.2	40.7	43.3	43.3	52.3	63.0	62.7	48.1
22 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
23 Total Regional Contracts Out	334	334	317	315	313	312	115	114	108	117	117	128	141	141	205
Intra-Regional Contracts In															
24 Federal Entities	20.6	20.6	20.6	20.6	16.9	16.9	16.9	16.9	16.9	20.6	20.6	20.6	20.6	20.6	19.1
25 Investor Owned Utilities	228	228	211	209	211	213	13.5	12.1	8.80	11.3	11.3	25.5	33.4	34.6	102
26 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
27 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
28 Public Utility District	65.6	65.6	67.6	67.9	66.8	64.5	66.8	67.0	64.5	67.1	67.1	64.2	68.3	66.7	66.4
29 Total Regional Contracts In	334	334	317	315	313	312	115	114	108	117	117	128	141	141	205

Regional: Intra-Regional Transfers
Operating Year 2027
2018 White Book Report Date: 12/1/2018
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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Intra-Regional Transfers															
Contracts	134	134	117	115	113	112	115	114	108	117	117	128	141	141	121
1 AVWP to BPA-P Setl WNP3 Rtn	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 BPA-P to AVWP Setl WNP3 Del	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 BPA-P to BPA-T Ops IntrlAgmt	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44
4 BPA-P to PPL NSP RIn	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 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
6 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
7 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
8 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
9 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
10 Other Entities to BPA-P	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 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
12 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
13 PGE to PPL PwrS LTFirm	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.90	1.00	1.00	1.00	1.00	1.00	1.00	0.99
14 PPL to BPA-P NSP SOut	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 SCL to POPD PwrS LTFirm	40.6	40.6	42.6	42.9	41.8	39.5	41.8	42.0	39.5	42.1	42.1	39.2	43.3	41.7	41.4
16 Total Intra-Regional Transfers	134	134	117	115	113	112	115	114	108	117	117	128	141	141	121
Intra-Regional Contracts Out															
17 Federal Entities	9.44	9.44	9.44	9.44	13.2	13.4	13.2	13.4	9.44	9.44	9.44	9.44	9.44	9.44	10.7
18 Investor Owned Utilities	15.3	15.3	14.4	14.0	10.1	10.2	10.4	10.3	10.3	13.8	13.8	14.3	14.7	15.3	12.8
19 Marketer	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
20 Municipality	56.4	56.4	44.1	44.1	43.0	40.7	43.0	43.2	40.7	43.3	43.3	52.3	63.0	62.7	48.1
21 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
22 Total Regional Contracts Out	134	134	117	115	113	112	115	114	108	117	117	128	141	141	121
Intra-Regional Contracts In															
23 Federal Entities	20.6	20.6	20.6	20.6	16.9	16.9	16.9	16.9	16.9	20.6	20.6	20.6	20.6	20.6	19.1
24 Investor Owned Utilities	28.4	28.4	11.2	8.90	11.3	13.1	13.4	12.3	8.80	11.3	11.3	25.5	33.4	34.6	17.7
25 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
26 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
27 Public Utility District	65.6	65.6	67.6	67.9	66.8	64.5	66.8	67.0	64.5	67.1	67.1	64.2	68.3	66.7	66.4
28 Total Regional Contracts In	134	134	117	115	113	112	115	114	108	117	117	128	141	141	121

Regional: Intra-Regional Transfers
Operating Year 2028
2018 White Book Report Date: 12/1/2018
S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Intra-Regional Transfers															
Contracts	134	134	117	115	113	112	115	114	108	117	117	128	141	141	121
1 AVWP to BPA-P Setl WNP3 Rtn	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 BPA-P to AVWP Setl WNP3 Del	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 BPA-P to BPA-T Ops IntrlAgmt	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44
4 BPA-P to PPL NSP RIn	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 BPA-P to PSE Ops UBkr Repl	0	0	0	0	3.89	3.92	3.77	4.03	0	0	0	0	0	0	1.29
6 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
7 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
8 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
9 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
10 Other Entities to BPA-P	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 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
12 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
13 PGE to PPL PwrS LTFirm	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.90	1.00	1.00	1.00	1.00	1.00	1.00	0.99
14 PPL to BPA-P NSP SOut	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 SCL to POPD PwrS LTFirm	40.6	40.6	42.6	42.9	41.8	39.5	41.8	42.0	39.5	42.1	42.1	39.2	43.3	41.7	41.4
16 Total Intra-Regional Transfers	134	134	117	115	113	112	115	114	108	117	117	128	141	141	121
Intra-Regional Contracts Out															
17 Federal Entities	9.44	9.44	9.44	9.44	13.3	13.4	13.2	13.5	9.44	9.44	9.44	9.44	9.44	9.44	10.7
18 Investor Owned Utilities	15.3	15.3	14.4	14.0	10.1	10.2	10.4	10.3	10.3	13.8	13.8	14.3	14.7	15.3	12.8
19 Marketer	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
20 Municipality	56.4	56.4	44.1	44.1	43.0	40.7	43.0	43.2	40.7	43.3	43.3	52.3	63.0	62.7	48.1
21 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
22 Total Regional Contracts Out	134	134	117	115	113	112	115	114	108	117	117	128	141	141	121
Intra-Regional Contracts In															
23 Federal Entities	20.6	20.6	20.6	20.6	16.9	16.9	16.9	16.9	16.9	20.6	20.6	20.6	20.6	20.6	19.1
24 Investor Owned Utilities	28.4	28.4	11.2	8.90	11.5	13.1	13.4	12.3	8.80	11.3	11.3	25.5	33.4	34.6	17.7
25 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
26 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
27 Public Utility District	65.6	65.6	67.6	67.9	66.8	64.5	66.8	67.0	64.5	67.1	67.1	64.2	68.3	66.7	66.4
28 Total Regional Contracts In	134	134	117	115	113	112	115	114	108	117	117	128	141	141	121

Regional: Intra-Regional Transfers
Operating Year 2029
2018 White Book Report Date: 12/1/2018
S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Intra-Regional Transfers															
Contracts	134	134	117	115	113	112	115	114	108	117	117	128	141	141	121
1 AVWP to BPA-P Setl WNP3 Rtn	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 BPA-P to AVWP Setl WNP3 Del	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 BPA-P to BPA-T Ops IntrlAgmt	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44	9.44
4 BPA-P to PPL NSP RIn	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 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
6 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
7 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
8 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
9 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
10 Other Entities to BPA-P	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 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
12 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
13 PGE to PPL PwrS LTFirm	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.90	1.00	1.00	1.00	1.00	1.00	1.00	0.99
14 PPL to BPA-P NSP SOut	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 SCL to POPD PwrS LTFirm	40.6	40.6	42.6	42.9	41.8	39.5	41.8	42.0	39.5	42.1	42.1	39.2	43.3	41.7	41.4
16 Total Intra-Regional Transfers	134	134	117	115	113	112	115	114	108	117	117	128	141	141	121
Intra-Regional Contracts Out															
17 Federal Entities	9.44	9.44	9.44	9.44	13.3	13.2	13.4	13.4	9.44	9.44	9.44	9.44	9.44	9.44	10.7
18 Investor Owned Utilities	15.3	15.3	14.4	14.0	10.1	10.2	10.4	10.3	10.3	13.8	13.8	14.3	14.7	15.3	12.8
19 Marketer	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
20 Municipality	56.4	56.4	44.1	44.1	43.0	40.7	43.0	43.2	40.7	43.3	43.3	52.3	63.0	62.7	48.1
21 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
22 Total Regional Contracts Out	134	134	117	115	113	112	115	114	108	117	117	128	141	141	121
Intra-Regional Contracts In															
23 Federal Entities	20.6	20.6	20.6	20.6	16.9	16.9	16.9	16.9	16.9	20.6	20.6	20.6	20.6	20.6	19.1
24 Investor Owned Utilities	28.4	28.4	11.2	8.90	11.5	13.0	13.5	12.3	8.80	11.3	11.3	25.5	33.4	34.6	17.7
25 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
26 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
27 Public Utility District	65.6	65.6	67.6	67.9	66.8	64.5	66.8	67.0	64.5	67.1	67.1	64.2	68.3	66.7	66.4
28 Total Regional Contracts In	134	134	117	115	113	112	115	114	108	117	117	128	141	141	121

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Exhibit 29
BPA Sales to Preference and Legacy Customers

Monthly Energy
Operating Year 2020 to 2029
Using 1937-Water Conditions

BPA Sales to Preference and Legacy Customers
Operating Year 2020 Water Year: 1937
2018 White Book Report Date: 12/1/2018

S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Pacific Northwest															
1 DSI Obligation	87.0	87.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	18.4
2 Direct Service Industry	87.0	87.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	18.4
3 Load Following	3313	3317	2988	2821	3395	3873	3824	3571	3146	2997	2997	2920	3093	3310	3271
4 Cooperative	2015	2017	1753	1522	1807	2092	2045	1915	1676	1635	1635	1669	1848	1997	1832
5 Municipality	521	522	480	486	594	663	670	623	545	515	515	476	484	519	548
6 Public Utility District	676	677	662	706	858	957	952	888	797	735	735	669	653	677	769
7 Federal Entities	101	101	93.4	108	136	161	156	146	129	112	112	106	108	118	123
8 Slice Block	1222	1222	1169	1159	1356	1559	1553	1373	1312	1216	1216	1179	1155	1210	1289
9 Municipality	283	283	284	268	317	385	381	352	354	313	313	266	256	281	312
10 Public Utility District	940	940	885	891	1039	1174	1171	1021	958	904	904	913	899	930	977
11 Slice Output from T1 System	1712	1508	1464	1386	1819	1740	1451	1402	1463	1346	1240	1603	2152	1607	1582
12 Municipality	400	352	342	329	431	413	344	332	347	319	294	380	510	381	374
13 Public Utility District	1313	1156	1122	1058	1387	1327	1107	1069	1116	1027	946	1223	1642	1226	1208
14 Tier 1 Block	352	352	597	539	889	888	976	887	871	427	427	152	21.2	346	578
15 Municipality	340	340	573	488	800	787	854	776	770	385	385	122	0	293	515
16 Public Utility District	12.0	12.0	24.0	50.7	89.5	101	122	111	101	42.4	42.4	29.7	21.2	53.4	63.1
17 Tier 2 - Short Term	0.97	0.97	0.97	2.95	2.95	2.95	2.95	2.95	2.95	2.95	2.95	2.95	2.95	2.95	2.62
18 Municipality	0.97	0.97	0.97	2.95	2.95	2.95	2.95	2.95	2.95	2.95	2.95	2.95	2.95	2.95	2.62
19 USBR Obligation	312	311	266	108	18.2	17.7	9.97	13.9	63.0	244	244	329	354	405	179
20 USBR	312	311	266	108	18.2	17.7	9.97	13.9	63.0	244	244	329	354	405	179
Total Power Sales Contracts															
21 Cooperative	2015	2017	1753	1522	1807	2092	2045	1915	1676	1635	1635	1669	1848	1997	1832
22 Direct Service Industry	87.0	87.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	18.4
23 Federal Entities	101	101	93.4	108	136	161	156	146	129	112	112	106	108	118	123
24 Municipality	1544	1497	1680	1574	2145	2251	2252	2086	2018	1534	1509	1248	1254	1477	1751
25 Public Utility District	2940	2785	2693	2705	3374	3559	3352	3089	2972	2708	2627	2834	3215	2886	3017
26 USBR	312	311	266	108	18.2	17.7	9.97	13.9	63.0	244	244	329	354	405	179
27 Total Power Sales Contracts	6999	6798	6497	6028	7492	8093	7828	7262	6869	6245	6139	6198	6790	6893	6920

BPA Sales to Preference and Legacy Customers
Operating Year 2021 Water Year: 1937
2018 White Book Report Date: 12/1/2018 *Continued*

S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Pacific Northwest															
1 DSI Obligation	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	12.0
2 Direct Service Industry	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	12.0
3 Load Following	3235	3208	2891	2838	3414	3893	3842	3622	3143	3014	3014	2934	3108	3326	3269
4 Cooperative	1915	1900	1641	1528	1815	2101	2052	1957	1681	1642	1642	1674	1854	2003	1821
5 Municipality	519	513	474	489	597	666	673	632	547	517	517	478	486	521	549
6 Public Utility District	685	680	667	709	861	960	955	879	780	737	737	670	655	679	769
7 Federal Entities	115	114	108	113	141	166	162	154	134	118	118	111	113	123	130
8 Slice Block	1182	1182	1126	1191	1392	1598	1591	1459	1346	1250	1250	1211	1187	1243	1314
9 Municipality	275	275	277	269	318	387	383	367	355	314	314	267	258	282	313
10 Public Utility District	907	907	850	922	1074	1211	1208	1092	990	936	936	944	929	960	1002
11 Slice Output from T1 System	1602	1449	1344	1390	1820	1744	1453	1405	1467	1244	1094	1610	2084	1608	1552
12 Municipality	380	344	319	330	432	414	345	333	348	295	260	382	494	381	368
13 Public Utility District	1222	1105	1025	1060	1389	1330	1109	1072	1119	949	835	1228	1590	1226	1184
14 Tier 1 Block	392	390	645	540	889	888	976	919	871	428	428	152	21.1	347	587
15 Municipality	349	347	586	489	802	789	857	806	772	386	386	122	0	294	519
16 Public Utility District	43.5	43.5	59.2	50.2	87.6	99.0	120	113	98.9	42.1	42.1	29.6	21.1	52.9	67.8
17 Tier 2 - Short Term	2.95	2.95	2.95	4.08	4.08	4.08	4.08	4.08	4.08	4.08	4.08	4.08	4.08	4.08	3.89
18 Municipality	2.95	2.95	2.95	4.08	4.08	4.08	4.08	4.08	4.08	4.08	4.08	4.08	4.08	4.08	3.89
19 USBR Obligation	308	315	266	108	18.2	17.7	9.97	14.0	63.0	244	244	329	354	405	179
20 USBR	308	315	266	108	18.2	17.7	9.97	14.0	63.0	244	244	329	354	405	179
Total Power Sales Contracts															
21 Cooperative	1915	1900	1641	1528	1815	2101	2052	1957	1681	1642	1642	1674	1854	2003	1821
22 Direct Service Industry	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	12.0
23 Federal Entities	115	114	108	113	141	166	162	154	134	118	118	111	113	123	130
24 Municipality	1525	1481	1659	1581	2153	2260	2262	2141	2027	1516	1480	1254	1242	1482	1753
25 Public Utility District	2858	2735	2601	2741	3411	3600	3391	3155	2988	2664	2550	2872	3195	2918	3023
26 USBR	308	315	266	108	18.2	17.7	9.97	14.0	63.0	244	244	329	354	405	179
27 Total Power Sales Contracts	6733	6558	6287	6083	7550	8157	7889	7434	6906	6196	6046	6253	6770	6943	6918

BPA Sales to Preference and Legacy Customers
Operating Year 2022 Water Year: 1937
2018 White Book Report Date: 12/1/2018 *Continued*

S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Pacific Northwest															
1 DSI Obligation	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	12.0
2 Direct Service Industry	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	12.0
3 Load Following	3216	3254	2905	2865	3443	3923	3899	3694	3215	3067	3067	2984	3157	3377	3313
4 Cooperative	1903	1924	1647	1541	1829	2116	2064	1968	1693	1654	1654	1685	1865	2015	1832
5 Municipality	514	522	476	488	597	666	703	661	574	543	543	503	510	545	565
6 Public Utility District	680	688	669	718	870	969	966	904	809	747	747	680	664	688	780
7 Federal Entities	119	121	113	118	147	172	167	161	140	123	123	116	118	128	135
8 Slice Block	1214	1214	1158	1290	1499	1710	1701	1564	1447	1350	1350	1307	1279	1336	1404
9 Municipality	276	276	278	273	322	392	388	371	360	318	318	271	261	286	316
10 Public Utility District	938	938	880	1017	1176	1318	1312	1193	1087	1032	1032	1036	1018	1049	1088
11 Slice Output from T1 System	1602	1445	1343	1390	1823	1745	1454	1406	1468	1143	1096	1539	1995	1606	1535
12 Municipality	380	343	318	330	432	414	345	333	348	271	260	365	473	381	364
13 Public Utility District	1222	1102	1024	1060	1390	1331	1109	1073	1120	872	836	1174	1522	1225	1171
14 Tier 1 Block	390	393	646	541	891	890	978	920	872	429	429	152	21.1	347	588
15 Municipality	347	350	588	490	803	791	858	808	774	386	386	123	0	294	521
16 Public Utility District	42.9	42.9	58.1	50.1	87.2	98.7	119	112	98.5	42.1	42.1	29.5	21.1	52.8	67.5
17 Tier 2 - Short Term	4.08	4.08	4.08	6.91	6.91	6.91	6.91	6.91	6.91	6.91	6.91	6.91	6.91	6.91	6.43
18 Municipality	4.08	4.08	4.08	6.91	6.91	6.91	6.91	6.91	6.91	6.91	6.91	6.91	6.91	6.91	6.43
19 USBR Obligation	316	306	266	108	18.2	17.7	9.97	14.0	63.0	244	244	329	354	405	179
20 USBR	316	306	266	108	18.2	17.7	9.97	14.0	63.0	244	244	329	354	405	179
Total Power Sales Contracts															
21 Cooperative	1903	1924	1647	1541	1829	2116	2064	1968	1693	1654	1654	1685	1865	2015	1832
22 Direct Service Industry	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	12.0
23 Federal Entities	119	121	113	118	147	172	167	161	140	123	123	116	118	128	135
24 Municipality	1521	1495	1664	1588	2162	2269	2301	2180	2062	1525	1514	1269	1251	1514	1772
25 Public Utility District	2883	2770	2631	2844	3523	3717	3507	3282	3115	2693	2656	2920	3225	3016	3106
26 USBR	316	306	266	108	18.2	17.7	9.97	14.0	63.0	244	244	329	354	405	179
27 Total Power Sales Contracts	6755	6628	6334	6212	7692	8304	8061	7617	7085	6252	6204	6331	6826	7089	7037

BPA Sales to Preference and Legacy Customers
Operating Year 2023 Water Year: 1937
2018 White Book Report Date: 12/1/2018 *Continued*

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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Pacific Northwest															
1 DSI Obligation	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	12.0
2 Direct Service Industry	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	12.0
3 Load Following	3284	3288	2955	2905	3488	3971	3918	3712	3231	3098	3071	3000	3173	3393	3342
4 Cooperative	1925	1926	1658	1550	1839	2126	2074	1978	1702	1671	1655	1692	1872	2022	1842
5 Municipality	541	542	499	512	625	695	702	661	573	547	541	504	511	547	576
6 Public Utility District	693	694	678	726	879	978	975	914	818	758	752	688	673	697	789
7 Federal Entities	125	125	118	117	146	171	167	160	139	122	122	115	117	127	135
8 Slice Block	1308	1308	1255	1313	1525	1740	1731	1592	1473	1374	1374	1330	1302	1360	1442
9 Municipality	280	280	282	279	329	400	396	379	367	324	324	276	266	292	322
10 Public Utility District	1028	1028	973	1034	1197	1341	1335	1214	1106	1050	1050	1054	1036	1068	1119
11 Slice Output from T1 System	1583	1403	1343	1387	1818	1742	1453	1403	1465	1134	1092	1372	1838	1603	1503
12 Municipality	376	333	318	329	431	413	345	333	347	269	259	325	436	380	356
13 Public Utility District	1208	1070	1024	1058	1387	1329	1108	1070	1118	865	833	1047	1402	1222	1146
14 Tier 1 Block	392	392	647	537	876	876	959	902	857	429	426	152	21.1	343	581
15 Municipality	349	350	589	490	803	791	858	808	774	388	385	123	0	294	521
16 Public Utility District	42.8	42.8	57.9	46.8	72.4	85.6	101	94.1	83.1	41.1	41.1	29.5	21.1	49.1	60.2
17 Tier 2 - Short Term	6.91	6.91	6.91	8.01	8.01	8.01	8.01	8.01	8.01	8.01	8.01	8.01	8.01	8.01	7.82
18 Municipality	6.91	6.91	6.91	8.01	8.01	8.01	8.01	8.01	8.01	8.01	8.01	8.01	8.01	8.01	7.82
19 USBR Obligation	312	311	266	108	18.2	17.7	9.97	14.0	63.0	243	245	329	354	405	179
20 USBR	312	311	266	108	18.2	17.7	9.97	14.0	63.0	243	245	329	354	405	179
Total Power Sales Contracts															
21 Cooperative	1925	1926	1658	1550	1839	2126	2074	1978	1702	1671	1655	1692	1872	2022	1842
22 Direct Service Industry	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	12.0
23 Federal Entities	125	125	118	117	146	171	167	160	139	122	122	115	117	127	135
24 Municipality	1553	1511	1696	1618	2196	2307	2309	2188	2069	1536	1518	1237	1221	1521	1783
25 Public Utility District	2972	2835	2734	2865	3535	3733	3519	3292	3124	2714	2676	2819	3132	3036	3115
26 USBR	312	311	266	108	18.2	17.7	9.97	14.0	63.0	243	245	329	354	405	179
27 Total Power Sales Contracts	6898	6720	6484	6270	7746	8367	8091	7643	7109	6298	6228	6204	6708	7123	7066

BPA Sales to Preference and Legacy Customers
Operating Year 2024 Water Year: 1937
2018 White Book Report Date: 12/1/2018 *Continued*

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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Pacific Northwest															
1 DSI Obligation	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	12.0
2 Direct Service Industry	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	12.0
3 Load Following	3300	3304	2970	2918	3503	3986	3934	3677	3246	3097	3097	3010	3183	3405	3353
4 Cooperative	1932	1934	1665	1554	1844	2131	2079	1950	1706	1668	1668	1694	1875	2026	1844
5 Municipality	542	543	500	514	627	697	705	656	575	544	544	504	510	547	577
6 Public Utility District	702	702	687	734	886	987	984	914	826	763	763	696	680	705	797
7 Federal Entities	124	124	117	117	146	171	167	157	139	122	122	115	118	127	135
8 Slice Block	1331	1331	1277	1286	1494	1705	1696	1506	1443	1346	1346	1303	1276	1333	1417
9 Municipality	286	286	287	274	323	392	389	359	360	319	319	271	261	287	317
10 Public Utility District	1046	1046	990	1012	1171	1313	1307	1147	1083	1028	1028	1032	1014	1046	1099
11 Slice Output from T1 System	1582	1400	1340	1387	1818	1741	1454	1403	1464	1137	1090	1536	1982	1603	1528
12 Municipality	375	332	318	329	431	413	345	333	347	270	258	364	470	380	362
13 Public Utility District	1207	1068	1022	1058	1387	1328	1109	1071	1117	868	831	1172	1512	1223	1165
14 Tier 1 Block	388	389	639	533	855	858	933	846	835	426	426	152	21.1	338	568
15 Municipality	349	350	589	491	804	791	858	780	774	387	387	123	0	294	519
16 Public Utility District	39.0	39.0	50.1	42.1	50.9	66.8	74.4	65.8	60.9	39.6	39.6	29.6	21.1	43.8	48.7
17 Tier 2 - Short Term	8.01	8.01	8.01	8.39	8.39	8.39	8.39	8.39	8.39	8.39	8.39	8.39	8.39	8.39	8.32
18 Municipality	8.01	8.01	8.01	8.39	8.39	8.39	8.39	8.39	8.39	8.39	8.39	8.39	8.39	8.39	8.32
19 USBR Obligation	312	311	266	108	18.2	17.7	9.97	13.9	63.0	244	244	329	354	405	179
20 USBR	312	311	266	108	18.2	17.7	9.97	13.9	63.0	244	244	329	354	405	179
Total Power Sales Contracts															
21 Cooperative	1932	1934	1665	1554	1844	2131	2079	1950	1706	1668	1668	1694	1875	2026	1844
22 Direct Service Industry	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	12.0
23 Federal Entities	124	124	117	117	146	171	167	157	139	122	122	115	118	127	135
24 Municipality	1560	1518	1703	1615	2193	2302	2305	2137	2064	1527	1516	1270	1250	1516	1784
25 Public Utility District	2993	2855	2749	2846	3496	3694	3474	3197	3086	2698	2662	2930	3228	3017	3110
26 USBR	312	311	266	108	18.2	17.7	9.97	13.9	63.0	244	244	329	354	405	179
27 Total Power Sales Contracts	6934	6755	6513	6253	7708	8328	8047	7467	7071	6271	6224	6351	6836	7103	7064

BPA Sales to Preference and Legacy Customers
Operating Year 2025 Water Year: 1937
2018 White Book Report Date: 12/1/2018 *Continued*

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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Pacific Northwest															
1 DSI Obligation	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	12.0
2 Direct Service Industry	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	12.0
3 Load Following	3311	3315	2980	2937	3522	4007	3954	3736	3245	3116	3116	3027	3201	3423	3371
4 Cooperative	1935	1937	1668	1561	1852	2140	2088	1995	1714	1676	1676	1700	1881	2033	1853
5 Municipality	542	543	500	515	628	699	706	664	576	546	546	506	513	549	578
6 Public Utility District	709	710	694	742	895	996	992	916	815	771	771	704	688	712	802
7 Federal Entities	125	125	118	119	148	173	168	162	140	124	124	117	119	129	137
8 Slice Block	1305	1305	1251	1308	1520	1734	1725	1587	1468	1370	1370	1326	1298	1355	1437
9 Municipality	281	281	282	279	328	399	396	379	366	324	324	276	266	292	322
10 Public Utility District	1024	1024	969	1030	1192	1335	1330	1208	1101	1046	1046	1050	1032	1064	1115
11 Slice Output from T1 System	1578	1396	1336	1383	1814	1737	1450	1400	1460	1133	1086	1368	1830	1599	1498
12 Municipality	374	331	317	328	430	412	344	332	346	269	258	324	434	379	355
13 Public Utility District	1204	1065	1019	1055	1384	1325	1106	1068	1114	864	829	1043	1396	1220	1143
14 Tier 1 Block	383	383	628	530	849	853	926	870	829	425	425	152	21.0	336	565
15 Municipality	349	350	589	489	801	789	856	806	772	385	385	122	0	294	520
16 Public Utility District	33.6	33.6	38.9	41.3	47.6	63.8	70.2	64.1	57.4	39.3	39.3	29.5	21.0	42.9	45.7
17 Tier 2 - Short Term	8.39	8.39	8.39	9.56	9.56	9.56	9.56	9.56	9.56	9.56	9.56	9.56	9.56	9.56	9.36
18 Municipality	8.39	8.39	8.39	9.56	9.56	9.56	9.56	9.56	9.56	9.56	9.56	9.56	9.56	9.56	9.36
19 USBR Obligation	312	311	266	108	18.2	17.7	9.97	14.0	63.0	244	244	329	354	405	179
20 USBR	312	311	266	108	18.2	17.7	9.97	14.0	63.0	244	244	329	354	405	179
Total Power Sales Contracts															
21 Cooperative	1935	1937	1668	1561	1852	2140	2088	1995	1714	1676	1676	1700	1881	2033	1853
22 Direct Service Industry	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	12.0
23 Federal Entities	125	125	118	119	148	173	168	162	140	124	124	117	119	129	137
24 Municipality	1555	1513	1697	1620	2197	2308	2312	2190	2070	1533	1523	1238	1222	1523	1785
25 Public Utility District	2971	2833	2721	2869	3518	3720	3498	3256	3087	2720	2684	2827	3137	3039	3106
26 USBR	312	311	266	108	18.2	17.7	9.97	14.0	63.0	244	244	329	354	405	179
27 Total Power Sales Contracts	6909	6730	6482	6289	7745	8370	8088	7628	7086	6309	6263	6223	6725	7140	7072

BPA Sales to Preference and Legacy Customers
Operating Year 2026 Water Year: 1937
2018 White Book Report Date: 12/1/2018 *Continued*

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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Pacific Northwest															
1 DSI Obligation	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	12.0
2 Direct Service Industry	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	12.0
3 Load Following	3346	3317	2997	2952	3540	4026	3973	3769	3280	3131	3131	3039	3214	3436	3389
4 Cooperative	1951	1935	1674	1567	1859	2147	2095	2002	1721	1682	1682	1705	1886	2038	1860
5 Municipality	548	542	502	515	629	700	708	665	577	546	546	506	512	549	579
6 Public Utility District	721	715	702	750	904	1005	1001	939	842	779	779	712	696	720	813
7 Federal Entities	127	126	119	119	148	173	169	162	141	124	124	117	119	129	137
8 Slice Block	1327	1327	1273	1280	1487	1697	1688	1553	1436	1340	1340	1297	1270	1326	1414
9 Municipality	286	286	287	273	321	391	388	371	359	317	317	270	260	286	317
10 Public Utility District	1042	1042	986	1007	1166	1306	1301	1182	1077	1023	1023	1027	1009	1041	1097
11 Slice Output from T1 System	1575	1397	1336	1383	1814	1737	1450	1400	1460	1133	1086	1532	1978	1599	1524
12 Municipality	374	331	317	328	430	412	344	332	346	269	258	363	469	379	361
13 Public Utility District	1202	1066	1019	1055	1384	1325	1106	1068	1114	864	829	1169	1509	1220	1163
14 Tier 1 Block	382	380	625	529	847	851	925	868	827	424	424	151	21.0	336	564
15 Municipality	350	348	588	488	800	787	854	804	770	385	385	122	0	293	519
16 Public Utility District	32.7	32.7	37.1	41.2	47.5	63.6	70.1	64.0	57.3	39.2	39.2	29.4	21.0	42.8	45.4
17 Tier 2 - Short Term	9.56	9.56	9.56	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.7
18 Municipality	9.56	9.56	9.56	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.7
19 USBR Obligation	308	315	266	108	18.2	17.7	9.97	14.0	63.0	244	244	329	354	405	179
20 USBR	308	315	266	108	18.2	17.7	9.97	14.0	63.0	244	244	329	354	405	179
Total Power Sales Contracts															
21 Cooperative	1951	1935	1674	1567	1859	2147	2095	2002	1721	1682	1682	1705	1886	2038	1860
22 Direct Service Industry	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	12.0
23 Federal Entities	127	126	119	119	148	173	169	162	141	124	124	117	119	129	137
24 Municipality	1566	1516	1703	1615	2191	2301	2304	2183	2063	1527	1516	1272	1253	1518	1787
25 Public Utility District	2997	2855	2744	2854	3501	3700	3478	3253	3090	2705	2670	2937	3235	3024	3119
26 USBR	308	315	266	108	18.2	17.7	9.97	14.0	63.0	244	244	329	354	405	179
27 Total Power Sales Contracts	6960	6758	6518	6277	7729	8351	8069	7626	7090	6295	6248	6372	6860	7125	7094

BPA Sales to Preference and Legacy Customers
Operating Year 2027 Water Year: 1937
2018 White Book Report Date: 12/1/2018 *Continued*

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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Pacific Northwest															
1 DSI Obligation	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	12.0
2 Direct Service Industry	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	12.0
3 Load Following	3359	3330	3009	2968	3558	4044	3991	3787	3296	3147	3147	3054	3228	3452	3405
4 Cooperative	1955	1939	1678	1574	1867	2155	2103	2011	1727	1689	1689	1710	1891	2043	1866
5 Municipality	548	542	502	517	631	703	710	668	579	547	547	508	514	551	581
6 Public Utility District	728	723	710	757	911	1012	1008	946	849	786	786	719	703	727	821
7 Federal Entities	127	126	119	119	149	174	170	163	141	124	124	118	120	130	138
8 Slice Block	1299	1299	1246	1306	1517	1731	1722	1584	1465	1367	1367	1323	1295	1353	1434
9 Municipality	280	280	281	279	328	399	396	378	366	324	324	275	266	292	322
10 Public Utility District	1019	1019	965	1028	1189	1332	1327	1206	1099	1043	1043	1048	1029	1061	1112
11 Slice Output from T1 System	1575	1397	1336	1383	1814	1737	1448	1397	1456	1126	1080	1361	1824	1593	1495
12 Municipality	374	331	317	328	430	412	343	331	345	267	256	323	433	378	355
13 Public Utility District	1202	1066	1019	1055	1384	1325	1104	1065	1111	859	824	1038	1392	1215	1141
14 Tier 1 Block	382	380	624	530	848	851	925	868	828	424	424	151	21.0	336	564
15 Municipality	349	347	587	488	800	787	854	804	770	385	385	122	0	293	518
16 Public Utility District	32.6	32.6	37.0	41.2	47.8	63.9	70.4	64.3	57.6	39.3	39.3	29.4	21.0	42.9	45.6
17 Tier 2 - Short Term	10.9	10.9	10.9	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	11.9
18 Municipality	10.9	10.9	10.9	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	11.9
19 USBR Obligation	308	315	266	108	18.2	17.7	9.97	14.0	63.0	244	244	329	354	405	179
20 USBR	308	315	266	108	18.2	17.7	9.97	14.0	63.0	244	244	329	354	405	179
Total Power Sales Contracts															
21 Cooperative	1955	1939	1678	1574	1867	2155	2103	2011	1727	1689	1689	1710	1891	2043	1866
22 Direct Service Industry	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	12.0
23 Federal Entities	127	126	119	119	149	174	170	163	141	124	124	118	120	130	138
24 Municipality	1561	1511	1697	1624	2201	2313	2316	2193	2072	1535	1524	1240	1225	1525	1787
25 Public Utility District	2982	2840	2731	2881	3532	3733	3509	3282	3116	2727	2693	2834	3145	3047	3119
26 USBR	308	315	266	108	18.2	17.7	9.97	14.0	63.0	244	244	329	354	405	179
27 Total Power Sales Contracts	6945	6743	6504	6319	7778	8405	8120	7674	7132	6332	6287	6242	6747	7162	7101

BPA Sales to Preference and Legacy Customers
Operating Year 2028 Water Year: 1937
2018 White Book Report Date: 12/1/2018 *Continued*

S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Pacific Northwest															
1 DSI Obligation	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	12.0
2 Direct Service Industry	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	12.0
3 Load Following	3338	3378	3023	2983	3574	4062	4010	3752	3313	3177	3148	3066	3241	3464	3418
4 Cooperative	1941	1963	1683	1580	1873	2162	2112	1984	1735	1705	1689	1716	1898	2050	1870
5 Municipality	543	551	504	519	633	705	712	664	581	552	546	509	516	553	583
6 Public Utility District	728	736	717	765	919	1020	1015	945	855	794	788	723	707	731	827
7 Federal Entities	126	128	120	120	149	175	170	160	142	125	125	118	120	130	138
8 Slice Block	1325	1325	1271	1282	1489	1699	1691	1501	1438	1342	1342	1299	1272	1328	1412
9 Municipality	286	286	287	274	322	392	389	359	360	318	318	270	261	287	317
10 Public Utility District	1039	1039	984	1008	1167	1307	1302	1143	1078	1024	1024	1028	1010	1042	1095
11 Slice Output from T1 System	1576	1389	1332	1379	1809	1733	1448	1396	1456	1123	1083	1526	1973	1593	1519
12 Municipality	374	329	316	327	429	411	343	331	345	266	257	362	468	378	360
13 Public Utility District	1202	1059	1016	1052	1380	1322	1104	1065	1111	857	826	1164	1505	1215	1159
14 Tier 1 Block	379	382	624	530	849	852	926	840	829	426	423	152	21.0	336	563
15 Municipality	346	349	587	489	800	788	855	777	771	387	383	122	0	293	517
16 Public Utility District	32.7	32.7	37.2	41.4	48.3	64.4	71.1	62.7	58.2	39.3	39.3	29.4	21.0	43.0	45.7
17 Tier 2 - Short Term	12.0	12.0	12.0	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.1
18 Municipality	12.0	12.0	12.0	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.1
19 USBR Obligation	316	306	266	108	18.2	17.7	9.97	13.9	63.0	243	245	329	354	405	179
20 USBR	316	306	266	108	18.2	17.7	9.97	13.9	63.0	243	245	329	354	405	179
Total Power Sales Contracts															
21 Cooperative	1941	1963	1683	1580	1873	2162	2112	1984	1735	1705	1689	1716	1898	2050	1870
22 Direct Service Industry	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	12.0
23 Federal Entities	126	128	120	120	149	175	170	160	142	125	125	118	120	130	138
24 Municipality	1561	1527	1705	1622	2198	2309	2313	2144	2070	1536	1518	1277	1258	1524	1790
25 Public Utility District	3003	2868	2754	2867	3514	3714	3493	3215	3103	2714	2677	2945	3243	3031	3126
26 USBR	316	306	266	108	18.2	17.7	9.97	13.9	63.0	243	245	329	354	405	179
27 Total Power Sales Contracts	6959	6804	6540	6308	7764	8389	8110	7528	7125	6336	6267	6397	6885	7151	7115

BPA Sales to Preference and Legacy Customers
Operating Year 2029 Water Year: 1937
2018 White Book Report Date: 12/1/2018 *Continued*

S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Pacific Northwest															
1 DSI Obligation	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	12.0
2 Direct Service Industry	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	12.0
3 Load Following	3369	3373	3034	2998	3590	4079	4024	3807	3305	3159	3188	3076	3251	3475	3431
4 Cooperative	1958	1960	1689	1587	1882	2171	2119	2030	1741	1695	1712	1720	1902	2055	1880
5 Municipality	549	550	505	522	637	710	717	673	584	549	555	513	520	557	586
6 Public Utility District	735	736	719	768	921	1023	1018	940	838	790	796	725	708	732	826
7 Federal Entities	127	127	120	120	150	175	171	164	142	125	126	118	121	131	139
8 Slice Block	1301	1301	1247	1299	1508	1721	1712	1575	1457	1360	1360	1315	1288	1346	1427
9 Municipality	281	281	282	277	326	396	394	376	364	322	322	274	264	290	320
10 Public Utility District	1020	1020	966	1022	1182	1324	1319	1199	1093	1038	1038	1042	1024	1056	1107
11 Slice Output from T1 System	1574	1391	1332	1379	1809	1733	1448	1397	1456	1128	1078	1361	1824	1593	1493
12 Municipality	373	330	316	327	429	411	343	331	345	268	256	323	433	378	354
13 Public Utility District	1201	1061	1016	1052	1380	1322	1105	1065	1111	861	822	1038	1392	1215	1139
14 Tier 1 Block	381	381	624	528	846	849	923	866	826	422	425	151	21.0	335	563
15 Municipality	348	348	587	487	798	786	853	803	769	382	385	122	0	292	518
16 Public Utility District	32.9	32.9	37.5	41.1	47.4	63.5	69.9	63.8	57.2	39.2	39.2	29.4	21.0	42.7	45.4
17 Tier 2 - Short Term	13.4	13.4	13.4	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.4
18 Municipality	13.4	13.4	13.4	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.4
19 USBR Obligation	312	311	266	108	18.2	17.7	9.97	14.0	63.0	245	243	329	354	405	179
20 USBR	312	311	266	108	18.2	17.7	9.97	14.0	63.0	245	243	329	354	405	179
Total Power Sales Contracts															
21 Cooperative	1958	1960	1689	1587	1882	2171	2119	2030	1741	1695	1712	1720	1902	2055	1880
22 Direct Service Industry	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	12.0
23 Federal Entities	127	127	120	120	150	175	171	164	142	125	126	118	121	131	139
24 Municipality	1564	1521	1703	1628	2205	2318	2321	2198	2076	1536	1533	1246	1232	1532	1793
25 Public Utility District	2989	2850	2738	2883	3531	3733	3511	3268	3099	2728	2695	2834	3145	3046	3118
26 USBR	312	311	266	108	18.2	17.7	9.97	14.0	63.0	245	243	329	354	405	179
27 Total Power Sales Contracts	6962	6782	6529	6339	7798	8426	8144	7685	7134	6341	6320	6259	6766	7180	7120

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Exhibit 30
Regional Regulated Hydro

Monthly Energy
Operating Year 2020 to 2029
Using 1937-Water Conditions

Regional: Regulated Hydro
Operating Year 2020 Water Year: 1937
2018 White Book Report Date: 12/1/2018

S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Regulated Hydro															
1 Albeni Falls Hydroelectric	16.8	16.6	17.1	35.7	16.7	16.0	17.2	12.6	12.0	14.9	17.5	28.3	34.7	33.2	21.4
2 Alder Hydroelectric	37.1	14.7	0	11.9	0	0	35.5	12.4	24.7	30.3	0	26.7	37.0	48.7	19.9
3 Bonneville	180	138	438	412	538	539	460	458	472	309	136	237	433	198	380
4 Boundary	164	149	204	474	249	257	287	190	180	211	225	620	757	422	335
5 Box Canyon Dam	31.5	28.9	37.7	77.3	44.9	46.2	51.0	35.4	33.5	38.7	41.5	85.4	82.5	67.7	52.8
6 Brownlee	156	159	172	155	162	167	204	167	221	203	205	229	196	175	184
7 Cabinet Gorge	44.2	39.8	34.4	65.1	54.4	72.8	92.7	52.1	42.0	70.6	65.2	197	220	118	88.3
8 Chelan Lake	39.1	20.2	12.0	31.0	24.2	20.5	64.5	62.4	21.2	61.7	4.00	3.00	65.5	67.1	36.0
9 Chief Joseph	1463	1236	923	934	1290	1249	984	893	858	847	870	1202	1689	1270	1125
10 Cushman 1	36.4	30.5	3.25	0.99	0.84	2.59	10.6	4.55	2.58	2.86	3.05	3.33	3.70	32.6	8.53
11 Cushman 2	67.3	61.8	0.03	0	0	0.49	25.1	7.61	0.36	0.20	0.20	0.13	0.10	63.9	13.7
12 Diablo	75.3	56.5	34.3	64.5	60.4	89.6	157	143	35.5	57.6	66.6	40.7	93.0	94.4	78.1
13 Dworshak	439	337	183	61.3	60.9	60.7	60.5	60.3	60.3	60.5	61.6	67.5	170	440	140
14 Faraday	6.98	6.50	6.55	6.71	5.01	13.4	8.55	14.3	27.1	34.9	36.7	35.6	32.3	11.7	17.0
15 Gorge	87.9	67.6	42.9	74.8	70.0	106	167	152	47.9	72.7	81.5	58.9	118	141	94.3
16 Grand Coulee	2591	2151	1609	1652	2299	2180	1704	1572	1492	1424	1440	2059	3024	2261	1972
17 Hells Canyon	124	129	143	130	133	133	161	133	176	160	168	190	161	137	149
18 Hungry Horse	61.1	60.9	70.4	79.0	83.8	84.5	85.9	85.2	83.3	63.4	25.9	43.2	58.4	110	74.2
19 Ice Harbor	149	146	116	90.0	108	113	115	123	180	67.3	65.7	64.7	65.3	147	111
20 John Day	686	582	703	662	918	894	738	728	782	430	383	380	796	696	694
21 Kerr	44.9	44.9	44.9	91.1	83.7	109	151	73.2	46.4	86.2	51.7	151	178	138	98.6
22 La Grande	62.9	31.9	0	24.7	0	0	59.4	28.7	55.2	61.5	0	43.2	54.9	62.9	34.1
23 Libby	186	185	186	92.7	257	173	86.5	85.8	85.1	84.6	84.6	483	261	198	182
24 Little Falls	9.49	9.31	11.3	12.4	10.7	14.0	16.7	11.4	17.9	27.0	25.0	24.5	26.7	16.8	16.5
25 Little Goose	120	138	128	93.7	111	113	119	111	176	82.2	79.6	213	139	149	130
26 Long Lake	25.8	25.3	30.1	32.7	28.6	36.4	41.6	28.5	44.2	72.5	72.5	72.5	72.5	42.9	44.0
27 Lower Baker	58.5	19.9	16.6	55.6	15.8	21.2	40.2	11.2	14.4	28.7	20.1	34.0	69.4	70.6	34.5
28 Lower Granite	80.3	138	133	100	110	112	117	110	175	82.4	80.3	112	80.3	91.3	111
29 Lower Monumental	133	153	124	96.7	112	117	120	130	190	85.4	87.8	303	215	99.2	145
30 Mayfield	27.0	20.2	40.8	55.4	55.4	55.4	163	71.5	69.9	69.9	69.9	8.36	120	95.1	69.0
31 McNary	300	271	482	449	592	576	480	473	487	268	272	267	299	302	413
32 Merwin	19.7	17.0	16.7	116	15.0	43.1	80.6	35.0	65.5	109	60.5	28.8	64.7	46.8	51.4
33 Monroe Street	6.93	7.14	9.67	10.1	8.98	11.4	9.37	8.43	13.0	13.7	13.7	13.7	13.7	12.5	11.0
34 Mossyrock	50.1	38.4	71.8	88.4	88.1	64.8	254	56.4	52.4	46.0	41.0	0	224	180	97.4
35 Nine Mile	7.04	7.04	8.96	9.45	8.40	10.7	8.51	8.30	14.9	14.6	12.2	11.8	14.2	12.4	10.7
36 North Fork	7.85	7.32	7.37	7.55	5.64	15.0	9.61	16.1	30.5	47.1	41.3	47.1	37.6	13.1	20.1
37 Noxon Rapids	54.6	54.3	44.5	89.3	74.0	101	132	70.6	55.7	102	82.8	291	326	164	125
38 Oak Grove	21.0	20.2	19.8	26.1	14.1	16.0	24.1	17.7	24.5	33.7	33.7	33.7	33.7	25.0	24.1
39 Oxbow	64.4	66.8	74.1	67.3	68.5	67.6	82.1	67.3	87.9	79.7	79.7	88.2	75.5	69.7	74.5
40 Pelton	39.6	39.6	42.1	43.0	41.1	37.4	34.9	38.7	40.5	44.6	49.1	41.1	42.1	43.6	40.9

Regional: Regulated Hydro
Operating Year 2020 Water Year: 1937
2018 White Book Report Date: 12/1/2018 *Continued*

S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
41 Pelton Rereq	8.09	6.98	8.69	8.88	8.43	7.56	6.96	7.86	8.30	9.28	10.3	8.43	8.68	9.02	8.34
42 Post Falls	1.80	2.05	4.09	5.11	4.00	6.40	4.93	3.95	10.4	15.7	11.3	11.3	15.7	6.13	7.28
43 Priest Rapids	451	416	366	374	511	507	416	372	349	347	192	350	655	383	415
44 River Mill	4.45	4.15	4.18	4.28	3.20	8.53	5.45	9.14	17.3	21.2	19.7	19.7	21.3	7.45	10.4
45 Rock Island	325	332	293	298	363	357	317	291	277	278	258	329	393	310	319
46 Rocky Reach	697	627	496	505	683	663	541	492	465	465	461	655	901	637	597
47 Ross	53.7	39.5	24.0	64.7	66.3	94.3	169	133	26.9	42.1	47.8	23.0	60.8	113	72.0
48 Round Butte	84.0	84.0	90.1	91.9	86.8	77.5	71.6	80.5	84.9	94.9	106	87.2	89.9	93.4	86.5
49 Swift 1	31.0	26.3	13.5	183	0.02	25.2	72.1	25.7	45.0	154	0.02	27.4	143	67.8	59.2
50 Swift 2	9.02	7.67	3.93	63.1	0.01	10.9	31.7	12.2	20.5	69.0	0.01	9.81	41.5	19.2	21.4
51 The Dalles	493	418	564	525	717	726	601	598	613	308	308	303	631	503	545
52 Thompson Falls	30.5	29.3	29.1	42.2	40.5	46.5	54.8	37.7	31.6	43.8	38.3	83.1	79.6	62.0	48.2
53 Upper Baker	29.8	23.6	15.9	64.5	0	40.6	9.79	9.17	6.65	44.9	0	40.1	58.8	65.8	30.2
54 Upper Falls	4.34	4.52	7.25	7.82	6.44	8.90	6.89	5.84	10.1	8.96	8.33	8.02	8.86	9.89	7.77
55 Wanapum	452	388	312	318	481	473	363	321	298	296	178	351	698	394	389
56 Wells	436	379	304	306	418	405	321	290	279	268	262	368	530	390	357
57 Yale	22.7	19.3	10.5	133	21.5	61.3	70.4	32.2	60.3	106	81.0	0	108	53.6	55.5
Total Regulated Hydro															
58 Federal Entities	6897	5969	5677	5284	7213	6952	5689	5441	5665	4127	3912	5763	7894	6498	6044
59 Investor Owned Utilities	1384	1286	1212	1811	1393	1638	1799	1317	1526	1958	1560	2198	2729	1894	1719
60 Marketer	632	592	501	511	659	641	495	457	436	440	396	540	753	537	546
61 Municipality	742	580	477	917	676	755	1393	858	549	648	567	886	1591	1324	892
62 Public Utility District	1251	1104	919	1051	1288	1269	1145	1009	922	999	700	1126	1859	1241	1154
63 Total Regulated Hydro	10905	9531	8786	9574	11228	11255	10521	9082	9098	8172	7136	10512	14826	11494	10356

Regional: Regulated Hydro
Operating Year 2021 Water Year: 1937
2018 White Book Report Date: 12/1/2018

S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Regulated Hydro															
1 Albeni Falls Hydroelectric	18.6	16.9	19.4	35.7	16.7	16.0	17.2	12.6	12.0	14.9	17.5	35.5	43.8	36.9	23.4
2 Alder Hydroelectric	37.1	14.7	0	11.9	0	0	35.5	12.4	24.7	30.3	0	26.7	37.0	48.7	19.9
3 Bonneville	145	138	410	412	538	539	460	458	472	309	136	237	433	198	376
4 Boundary	164	149	182	474	249	257	287	190	180	211	225	620	757	422	334
5 Box Canyon Dam	31.5	28.9	34.1	77.3	44.9	46.2	51.0	35.4	33.5	38.7	41.5	85.4	82.5	67.7	52.5
6 Brownlee	156	159	172	155	162	167	204	167	221	203	205	229	196	175	184
7 Cabinet Gorge	44.2	39.8	35.2	65.1	54.4	72.8	92.7	52.1	42.0	70.6	65.2	197	220	118	88.5
8 Chelan Lake	39.1	20.2	6.43	31.0	24.2	20.5	64.5	62.4	21.2	61.7	4.00	3.00	65.5	67.1	35.5
9 Chief Joseph	1362	1202	819	934	1290	1249	984	893	858	847	870	1202	1689	1270	1112
10 Cushman 1	21.4	12.7	1.33	0.99	0.84	2.59	10.6	4.55	2.58	2.86	3.05	3.33	3.70	32.6	6.98
11 Cushman 2	51.2	31.4	0	0	0	0.49	25.1	7.61	0.36	0.20	0.20	0.13	0.10	63.9	11.7
12 Diablo	27.8	50.6	74.4	64.5	60.4	89.6	157	143	35.5	57.6	66.6	40.7	93.0	94.4	79.1
13 Dworshak	439	337	183	61.3	60.9	60.7	60.5	60.3	60.3	60.5	61.6	67.5	170	427	139
14 Faraday	6.98	6.50	7.23	6.71	5.01	13.4	8.55	14.3	27.1	34.9	36.7	35.6	32.3	11.7	17.0
15 Gorge	37.2	61.5	85.6	74.8	70.0	106	167	152	47.9	72.7	81.5	58.9	118	141	95.3
16 Grand Coulee	2408	2095	1421	1652	2299	2180	1704	1572	1492	1424	1440	2059	3024	2261	1947
17 Hells Canyon	124	129	143	130	133	133	161	133	176	160	168	190	161	137	149
18 Hungry Horse	61.1	60.9	70.4	79.0	83.8	84.5	85.9	85.2	83.3	63.4	25.9	43.2	58.4	110	74.1
19 Ice Harbor	114	100	125	90.0	108	113	115	123	180	67.3	65.7	64.7	65.3	147	109
20 John Day	647	569	652	662	918	894	738	728	782	430	383	380	796	696	688
21 Kerr	44.9	44.9	44.9	91.1	83.7	109	151	73.2	46.4	86.2	51.7	151	178	138	98.6
22 La Grande	62.9	31.9	0	24.7	0	0	59.4	28.7	55.2	61.5	0	43.2	54.9	62.9	34.1
23 Libby	168	167	142	92.7	257	173	86.5	85.8	85.1	84.6	84.6	483	261	198	177
24 Little Falls	9.49	9.31	11.7	12.4	10.7	14.0	16.7	11.4	17.9	27.0	25.0	24.5	26.7	16.8	16.5
25 Little Goose	120	105	130	93.7	111	113	119	111	176	82.2	79.6	213	137	149	129
26 Long Lake	25.8	25.3	31.1	32.7	28.6	36.4	41.6	28.5	44.2	72.5	72.5	72.5	72.5	42.9	44.1
27 Lower Baker	33.1	19.9	16.9	55.6	15.8	21.2	40.2	11.2	14.4	28.7	20.1	34.0	69.4	70.6	33.5
28 Lower Granite	80.3	80.3	133	100	110	112	117	110	175	82.4	80.3	112	80.3	91.2	109
29 Lower Monumental	84.5	84.5	131	96.7	112	117	120	130	190	85.4	87.8	303	215	99.2	140
30 Mayfield	27.0	20.2	40.8	55.4	55.4	55.4	163	71.5	69.9	69.9	69.9	8.36	120	95.1	69.0
31 McNary	282	272	446	449	592	576	480	473	487	268	272	267	299	302	409
32 Merwin	19.7	17.0	21.0	116	15.0	43.1	80.6	35.0	65.5	109	60.5	28.8	64.7	46.8	51.9
33 Monroe Street	6.93	7.14	9.67	10.1	8.98	11.4	9.37	8.43	13.0	13.7	13.7	13.7	13.7	12.5	11.0
34 Mossyrock	50.1	38.4	71.8	88.4	88.1	64.8	254	56.4	52.4	46.0	41.0	0	224	180	97.5
35 Nine Mile	7.04	7.04	8.96	9.45	8.40	10.7	8.51	8.30	14.9	14.6	12.2	11.8	14.2	12.4	10.7
36 North Fork	7.85	7.32	8.13	7.55	5.64	15.0	9.61	16.1	30.5	47.1	41.3	47.1	37.6	13.1	20.2
37 Noxon Rapids	54.6	54.3	45.7	89.3	74.0	101	132	70.6	55.7	102	82.8	291	326	164	125
38 Oak Grove	21.0	20.2	25.3	26.1	14.1	16.0	24.1	17.7	24.5	33.7	33.7	33.7	33.7	25.0	24.6
39 Oxbow	64.4	66.8	74.1	67.3	68.5	67.6	82.1	67.3	87.9	79.7	79.7	88.2	75.5	69.7	74.5
40 Pelton	39.6	39.6	42.9	43.0	41.1	37.4	34.9	38.7	40.5	44.6	49.1	41.1	42.1	43.6	41.0

Regional: Regulated Hydro
Operating Year 2021 Water Year: 1937
2018 White Book Report Date: 12/1/2018 *Continued*

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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
41 Pelton Rereq	8.09	8.09	8.85	8.88	8.43	7.56	6.96	7.86	8.30	9.28	10.3	8.43	8.68	9.02	8.40
42 Post Falls	1.80	2.05	4.09	5.11	4.00	6.40	4.93	3.95	10.4	15.7	11.3	11.3	15.7	6.13	7.29
43 Priest Rapids	386	389	323	374	511	507	416	372	349	347	192	350	655	383	408
44 River Mill	4.45	4.15	4.61	4.28	3.20	8.53	5.45	9.14	17.3	21.2	19.7	19.7	21.3	7.45	10.5
45 Rock Island	311	328	264	298	363	357	317	291	277	278	258	329	393	310	316
46 Rocky Reach	652	610	439	505	683	663	541	492	465	465	461	655	901	637	590
47 Ross	0	33.1	68.6	64.7	66.3	94.3	169	133	26.9	42.1	47.8	23.0	60.8	113	73.0
48 Round Butte	84.0	84.0	91.7	91.9	86.8	77.5	71.6	80.5	84.9	94.9	106	87.2	89.9	93.4	86.6
49 Swift 1	31.0	26.3	31.8	183	0.02	25.2	72.1	25.7	45.0	154	0.02	27.4	143	67.8	60.8
50 Swift 2	9.02	7.67	9.47	63.1	0.01	10.9	31.7	12.2	20.5	69.0	0.01	9.81	41.5	19.2	21.9
51 The Dalles	465	408	524	525	717	726	601	598	613	308	308	303	631	503	540
52 Thompson Falls	30.5	29.3	29.1	42.2	40.5	46.5	54.8	37.7	31.6	43.8	38.3	83.1	79.6	62.0	48.3
53 Upper Baker	29.8	23.6	20.8	64.5	0	40.6	9.79	9.17	6.65	44.9	0	40.1	58.8	65.8	30.7
54 Upper Falls	4.34	4.52	7.25	7.82	6.44	8.90	6.89	5.84	10.1	8.96	8.33	8.02	8.86	9.89	7.78
55 Wanapum	397	366	267	318	481	473	363	321	298	296	178	351	698	394	382
56 Wells	408	369	269	306	418	405	321	290	279	268	262	368	530	390	353
57 Yale	22.7	19.3	25.9	133	21.5	61.3	70.4	32.2	60.3	106	81.0	0	108	53.6	56.8
Total Regulated Hydro															
58 Federal Entities	6394	5636	5206	5284	7213	6952	5689	5441	5665	4127	3912	5770	7901	6488	5973
59 Investor Owned Utilities	1318	1272	1223	1811	1393	1638	1799	1317	1526	1958	1560	2198	2729	1894	1718
60 Marketer	540	528	416	470	606	590	495	457	436	440	396	540	753	537	521
61 Municipality	549	510	573	917	676	755	1393	858	549	648	567	886	1591	1324	889
62 Public Utility District	1186	1107	848	1092	1340	1320	1145	1009	922	999	700	1126	1859	1241	1158
63 Total Regulated Hydro	9987	9052	8265	9574	11228	11255	10521	9082	9098	8172	7136	10519	14833	11484	10259

Regional: Regulated Hydro
Operating Year 2022 Water Year: 1937
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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Regulated Hydro															
1 Albeni Falls Hydroelectric	18.6	16.9	19.4	35.7	16.7	16.0	17.2	12.6	12.0	14.9	17.5	35.5	43.8	36.9	23.4
2 Alder Hydroelectric	37.1	14.7	0	11.9	0	0	35.5	12.4	24.7	30.3	0	26.7	37.0	48.7	19.9
3 Bonneville	145	138	410	412	538	539	460	458	472	309	136	237	433	198	376
4 Boundary	164	149	182	474	249	257	287	190	180	211	225	620	757	422	334
5 Box Canyon Dam	31.5	28.9	34.1	77.3	44.9	46.2	51.0	35.4	33.5	38.7	41.5	85.4	82.5	67.7	52.5
6 Brownlee	156	159	172	155	162	167	204	167	221	203	205	229	196	175	184
7 Cabinet Gorge	44.2	39.8	35.2	65.1	54.4	72.8	92.7	52.1	42.0	70.6	65.2	197	220	118	88.5
8 Chelan Lake	39.1	20.2	6.43	31.0	24.2	20.5	64.5	62.4	21.2	61.7	4.00	3.00	65.5	67.1	35.5
9 Chief Joseph	1362	1202	819	934	1290	1249	984	893	858	847	870	1202	1689	1270	1112
10 Cushman 1	21.4	12.7	1.33	0.99	0.84	2.59	10.6	4.55	2.58	2.86	3.05	3.33	3.70	32.6	6.98
11 Cushman 2	51.2	31.4	0	0	0	0.49	25.1	7.61	0.36	0.20	0.20	0.13	0.10	63.9	11.7
12 Diablo	27.8	50.6	74.4	64.5	60.4	89.6	157	143	35.5	57.6	66.6	40.7	93.0	94.4	79.1
13 Dworshak	425	337	183	61.3	60.9	60.7	60.5	60.3	60.3	60.5	61.6	67.5	170	427	139
14 Faraday	6.98	6.50	7.23	6.71	5.01	13.4	8.55	14.3	27.1	34.9	36.7	35.6	32.3	11.7	17.0
15 Gorge	37.2	61.5	85.6	74.8	70.0	106	167	152	47.9	72.7	81.5	58.9	118	141	95.3
16 Grand Coulee	2408	2095	1421	1652	2299	2180	1704	1572	1492	1424	1440	2059	3024	2261	1947
17 Hells Canyon	124	129	143	130	133	133	161	133	176	160	168	190	161	137	149
18 Hungry Horse	61.1	60.9	70.4	79.0	83.8	84.5	85.9	85.2	83.3	63.4	25.9	43.2	58.4	110	74.1
19 Ice Harbor	114	100	125	90.0	108	113	115	123	180	67.3	65.7	64.7	65.3	147	109
20 John Day	647	569	652	662	918	894	738	728	782	430	383	380	796	696	688
21 Kerr	44.9	44.9	44.9	91.1	83.7	109	151	73.2	46.4	86.2	51.7	151	178	138	98.6
22 La Grande	62.9	31.9	0	24.7	0	0	59.4	28.7	55.2	61.5	0	43.2	54.9	62.9	34.1
23 Libby	168	167	142	92.7	257	173	86.5	85.8	85.1	84.6	84.6	483	261	198	177
24 Little Falls	9.49	9.31	11.7	12.4	10.7	14.0	16.7	11.4	17.9	27.0	25.0	24.5	26.7	16.8	16.5
25 Little Goose	120	105	130	93.7	111	113	119	111	176	82.2	79.6	213	129	149	128
26 Long Lake	25.8	25.3	31.1	32.7	28.6	36.4	41.6	28.5	44.2	72.5	72.5	72.5	72.5	42.9	44.1
27 Lower Baker	33.1	19.9	16.9	55.6	15.8	21.2	40.2	11.2	14.4	28.7	20.1	34.0	69.4	70.6	33.5
28 Lower Granite	80.3	80.3	133	100	110	112	117	110	175	82.4	80.3	112	80.3	91.1	109
29 Lower Monumental	84.5	84.5	131	96.7	112	117	120	130	190	85.4	87.8	303	215	99.2	140
30 Mayfield	27.0	20.2	40.8	55.4	55.4	55.4	163	71.5	69.9	69.9	69.9	8.36	120	95.1	69.0
31 McNary	282	272	446	449	592	576	480	473	487	268	272	267	299	302	409
32 Merwin	19.7	17.0	21.0	116	15.0	43.1	80.6	35.0	65.5	109	60.5	28.8	64.7	46.8	51.9
33 Monroe Street	6.93	7.14	9.67	10.1	8.98	11.4	9.37	8.43	13.0	13.7	13.7	13.7	13.7	12.5	11.0
34 Mossyrock	50.1	38.4	71.8	88.4	88.1	64.8	254	56.4	52.4	46.0	41.0	0	224	180	97.5
35 Nine Mile	7.04	7.04	8.96	9.45	8.40	10.7	8.51	8.30	14.9	14.6	12.2	11.8	14.2	12.4	10.7
36 North Fork	7.85	7.32	8.13	7.55	5.64	15.0	9.61	16.1	30.5	47.1	41.3	47.1	37.6	13.1	20.2
37 Noxon Rapids	54.6	54.3	45.7	89.3	74.0	101	132	70.6	55.7	102	82.8	291	326	164	125
38 Oak Grove	21.0	20.2	25.3	26.1	14.1	16.0	24.1	17.7	24.5	33.7	33.7	33.7	33.7	25.0	24.6
39 Oxbow	64.4	66.8	74.1	67.3	68.5	67.6	82.1	67.3	87.9	79.7	79.7	88.2	75.5	69.7	74.5
40 Pelton	39.6	39.6	42.9	43.0	41.1	37.4	34.9	38.7	40.5	44.6	49.1	41.1	42.1	43.6	41.0

Regional: Regulated Hydro
Operating Year 2022 Water Year: 1937
2018 White Book Report Date: 12/1/2018 *Continued*

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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
41 Pelton Rereq	8.09	8.09	8.85	8.88	8.43	7.56	6.96	7.86	8.30	9.28	10.3	8.43	8.68	9.02	8.40
42 Post Falls	1.80	2.05	4.09	5.11	4.00	6.40	4.93	3.95	10.4	15.7	11.3	11.3	15.7	6.13	7.29
43 Priest Rapids	386	389	323	374	511	507	416	372	349	347	192	350	655	383	408
44 River Mill	4.45	4.15	4.61	4.28	3.20	8.53	5.45	9.14	17.3	21.2	19.7	19.7	21.3	7.45	10.5
45 Rock Island	311	328	264	298	363	357	317	291	277	278	258	329	393	310	316
46 Rocky Reach	652	610	439	505	683	663	541	492	465	465	461	655	901	637	590
47 Ross	0	33.1	68.6	64.7	66.3	94.3	169	133	26.9	42.1	47.8	23.0	60.8	113	73.0
48 Round Butte	84.0	84.0	91.7	91.9	86.8	77.5	71.6	80.5	84.9	94.9	106	87.2	89.9	93.4	86.6
49 Swift 1	31.0	26.3	31.8	183	0.02	25.2	72.1	25.7	45.0	154	0.02	27.4	143	67.8	60.8
50 Swift 2	9.02	7.67	9.47	63.1	0.01	10.9	31.7	12.2	20.5	69.0	0.01	9.81	41.5	19.2	21.9
51 The Dalles	465	408	524	525	717	726	601	598	613	308	308	303	631	503	540
52 Thompson Falls	30.5	29.3	29.1	42.2	40.5	46.5	54.8	37.7	31.6	43.8	38.3	83.1	79.6	62.0	48.3
53 Upper Baker	29.8	23.6	20.8	64.5	0	40.6	9.79	9.17	6.65	44.9	0	40.1	58.8	65.8	30.7
54 Upper Falls	4.34	4.52	7.25	7.82	6.44	8.90	6.89	5.84	10.1	8.96	8.33	8.02	8.86	9.89	7.78
55 Wanapum	397	366	267	318	481	473	363	321	298	296	178	351	698	394	382
56 Wells	408	369	269	306	418	405	321	290	279	268	262	368	530	390	353
57 Yale	22.7	19.3	25.9	133	21.5	61.3	70.4	32.2	60.3	106	81.0	0	108	53.6	56.8
Total Regulated Hydro															
58 Federal Entities	6381	5636	5206	5284	7213	6952	5689	5441	5665	4127	3912	5770	7894	6488	5971
59 Investor Owned Utilities	1318	1272	1223	1811	1393	1638	1799	1317	1526	1958	1560	2198	2729	1894	1718
60 Marketer	540	528	416	470	606	590	452	417	399	403	360	490	688	489	495
61 Municipality	549	510	573	917	676	755	1393	858	549	648	567	886	1591	1324	889
62 Public Utility District	1186	1107	848	1092	1340	1320	1188	1048	959	1036	736	1175	1923	1288	1185
63 Total Regulated Hydro	9974	9052	8265	9574	11228	11255	10521	9082	9098	8172	7136	10519	14826	11484	10258

Regional: Regulated Hydro
Operating Year 2023 Water Year: 1937
2018 White Book Report Date: 12/1/2018

S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Regulated Hydro															
1 Albeni Falls Hydroelectric	18.6	16.9	19.4	35.7	16.7	16.0	17.2	12.6	12.0	14.9	17.5	35.5	43.8	36.9	23.4
2 Alder Hydroelectric	37.1	14.7	0	11.9	0	0	35.5	12.4	24.7	30.3	0	26.7	37.0	48.7	19.9
3 Bonneville	145	138	410	412	538	539	460	458	472	309	136	237	433	198	376
4 Boundary	164	149	182	474	249	257	287	190	180	211	225	620	757	422	334
5 Box Canyon Dam	31.5	28.9	34.1	77.3	44.9	46.2	51.0	35.4	33.5	38.7	41.5	85.4	82.5	67.7	52.5
6 Brownlee	156	159	172	155	162	167	204	167	221	203	205	229	196	175	184
7 Cabinet Gorge	44.2	39.8	35.2	65.1	54.4	72.8	92.7	52.1	42.0	70.6	65.2	197	220	118	88.5
8 Chelan Lake	39.1	20.2	6.43	31.0	24.2	20.5	64.5	62.4	21.2	61.7	4.00	3.00	65.5	67.1	35.5
9 Chief Joseph	1362	1202	819	934	1290	1249	984	893	858	847	870	1202	1689	1270	1112
10 Cushman 1	21.4	12.7	1.33	0.99	0.84	2.59	10.6	4.55	2.58	2.86	3.05	3.33	3.70	32.6	6.98
11 Cushman 2	51.2	31.4	0	0	0	0.49	25.1	7.61	0.36	0.20	0.20	0.13	0.10	63.9	11.7
12 Diablo	27.8	50.6	74.4	64.5	60.4	89.6	157	143	35.5	57.6	66.6	40.7	93.0	94.4	79.1
13 Dworshak	425	337	183	61.3	60.9	60.7	60.5	60.3	60.3	60.5	61.6	67.5	170	427	139
14 Faraday	6.98	6.50	7.23	6.71	5.01	13.4	8.55	14.3	27.1	34.9	36.7	35.6	32.3	11.7	17.0
15 Gorge	37.2	61.5	85.6	74.8	70.0	106	167	152	47.9	72.7	81.5	58.9	118	141	95.3
16 Grand Coulee	2408	2095	1421	1652	2299	2180	1704	1572	1492	1424	1440	2059	3024	2261	1947
17 Hells Canyon	124	129	143	130	133	133	161	133	176	160	168	190	161	137	149
18 Hungry Horse	61.1	60.9	70.4	79.0	83.8	84.5	85.9	85.2	83.3	63.4	25.9	43.2	58.4	110	74.1
19 Ice Harbor	114	100	125	90.0	108	113	115	123	180	67.3	65.7	64.7	65.3	147	109
20 John Day	647	569	652	662	918	894	738	728	782	430	383	380	796	696	688
21 Kerr	44.9	44.9	44.9	91.1	83.7	109	151	73.2	46.4	86.2	51.7	151	178	138	98.6
22 La Grande	62.9	31.9	0	24.7	0	0	59.4	28.7	55.2	61.5	0	43.2	54.9	62.9	34.1
23 Libby	168	167	142	92.7	257	173	86.5	85.8	85.1	84.6	84.6	483	261	198	177
24 Little Falls	9.49	9.31	11.7	12.4	10.7	14.0	16.7	11.4	17.9	27.0	25.0	24.5	26.7	16.8	16.5
25 Little Goose	120	105	130	93.7	111	113	119	111	176	82.2	79.6	213	131	149	129
26 Long Lake	25.8	25.3	31.1	32.7	28.6	36.4	41.6	28.5	44.2	72.5	72.5	72.5	72.5	42.9	44.1
27 Lower Baker	33.1	19.9	16.9	55.6	15.8	21.2	40.2	11.2	14.4	28.7	20.1	34.0	69.4	70.6	33.5
28 Lower Granite	80.3	80.3	133	100	110	112	117	110	175	82.4	80.3	112	80.3	91.3	109
29 Lower Monumental	84.5	84.5	131	96.7	112	117	120	130	190	85.4	87.8	303	215	99.2	140
30 Mayfield	27.0	20.2	40.8	55.4	55.4	55.4	163	71.5	69.9	69.9	69.9	8.36	120	95.1	69.0
31 McNary	282	272	446	449	592	576	480	473	487	268	272	267	299	302	409
32 Merwin	19.7	17.0	21.0	116	15.0	43.1	80.6	35.0	65.5	109	60.5	28.8	64.7	46.8	51.9
33 Monroe Street	6.93	7.14	9.67	10.1	8.98	11.4	9.37	8.43	13.0	13.7	13.7	13.7	13.7	12.5	11.0
34 Mossyrock	50.1	38.4	71.8	88.4	88.1	64.8	254	56.4	52.4	46.0	41.0	0	224	180	97.5
35 Nine Mile	7.04	7.04	8.96	9.45	8.40	10.7	8.51	8.30	14.9	14.6	12.2	11.8	14.2	12.4	10.7
36 North Fork	7.85	7.32	8.13	7.55	5.64	15.0	9.61	16.1	30.5	47.1	41.3	47.1	37.6	13.1	20.2
37 Noxon Rapids	54.6	54.3	45.7	89.3	74.0	101	132	70.6	55.7	102	82.8	291	326	164	125
38 Oak Grove	21.0	20.2	25.3	26.1	14.1	16.0	24.1	17.7	24.5	33.7	33.7	33.7	33.7	25.0	24.6
39 Oxbow	64.4	66.8	74.1	67.3	68.5	67.6	82.1	67.3	87.9	79.7	79.7	88.2	75.5	69.7	74.5
40 Pelton	39.6	39.6	42.9	43.0	41.1	37.4	34.9	38.7	40.5	44.6	49.1	41.1	42.1	43.6	41.0

Regional: Regulated Hydro
Operating Year 2023 Water Year: 1937
2018 White Book Report Date: 12/1/2018 *Continued*

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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
41 Pelton Rereq	8.09	8.09	8.85	8.88	8.43	7.56	6.96	7.86	8.30	9.28	10.3	8.43	8.68	9.02	8.40
42 Post Falls	1.80	2.05	4.09	5.11	4.00	6.40	4.93	3.95	10.4	15.7	11.3	11.3	15.7	6.13	7.29
43 Priest Rapids	386	389	323	374	511	507	416	372	349	347	192	350	655	383	408
44 River Mill	4.45	4.15	4.61	4.28	3.20	8.53	5.45	9.14	17.3	21.2	19.7	19.7	21.3	7.45	10.5
45 Rock Island	311	328	264	298	363	357	317	291	277	278	258	329	393	310	316
46 Rocky Reach	652	610	439	505	683	663	541	492	465	465	461	655	901	637	590
47 Ross	0	33.1	68.6	64.7	66.3	94.3	169	133	26.9	42.1	47.8	23.0	60.8	113	73.0
48 Round Butte	84.0	84.0	91.7	91.9	86.8	77.5	71.6	80.5	84.9	94.9	106	87.2	89.9	93.4	86.6
49 Swift 1	31.0	26.3	31.8	183	0.02	25.2	72.1	25.7	45.0	154	0.02	27.4	143	67.8	60.8
50 Swift 2	9.02	7.67	9.47	63.1	0.01	10.9	31.7	12.2	20.5	69.0	0.01	9.81	41.5	19.2	21.9
51 The Dalles	465	408	524	525	717	726	601	598	613	308	308	303	631	503	540
52 Thompson Falls	30.5	29.3	29.1	42.2	40.5	46.5	54.8	37.7	31.6	43.8	38.3	83.1	79.6	62.0	48.3
53 Upper Baker	29.8	23.6	20.8	64.5	0	40.6	9.79	9.17	6.65	44.9	0	40.1	58.8	65.8	30.7
54 Upper Falls	4.34	4.52	7.25	7.82	6.44	8.90	6.89	5.84	10.1	8.96	8.33	8.02	8.86	9.89	7.78
55 Wanapum	397	366	267	318	481	473	363	321	298	296	178	348	698	394	382
56 Wells	408	369	269	306	418	405	321	290	279	268	262	368	530	390	353
57 Yale	22.7	19.3	25.9	133	21.5	61.3	70.4	32.2	60.3	106	81.0	0	108	53.6	56.8
Total Regulated Hydro															
58 Federal Entities	6381	5636	5206	5284	7213	6952	5689	5441	5665	4127	3912	5770	7896	6488	5972
59 Investor Owned Utilities	1318	1272	1223	1811	1393	1638	1799	1317	1526	1958	1560	2197	2729	1894	1718
60 Marketer	491	481	381	430	554	539	366	339	324	329	289	392	558	395	423
61 Municipality	549	510	573	917	676	755	1393	858	549	648	567	886	1591	1324	889
62 Public Utility District	1234	1154	883	1132	1393	1371	1274	1126	1034	1110	808	1271	2053	1383	1256
63 Total Regulated Hydro	9974	9052	8265	9574	11228	11255	10521	9082	9098	8172	7136	10516	14828	11484	10257

Regional: Regulated Hydro
Operating Year 2024 Water Year: 1937
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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Regulated Hydro															
1 Albeni Falls Hydroelectric	18.6	16.9	19.4	35.7	16.7	16.0	17.2	12.6	12.0	14.9	17.5	35.5	43.8	36.9	23.4
2 Alder Hydroelectric	37.1	14.7	0	11.9	0	0	35.5	12.4	24.7	30.3	0	26.7	37.0	48.7	19.9
3 Bonneville	145	138	410	412	538	539	460	458	472	309	136	237	433	198	376
4 Boundary	164	149	182	474	249	257	287	190	180	211	225	620	757	422	333
5 Box Canyon Dam	31.5	28.9	34.1	77.3	44.9	46.2	51.0	35.4	33.5	38.7	41.5	85.4	82.5	67.7	52.5
6 Brownlee	156	159	172	155	162	167	204	167	221	203	205	229	196	175	184
7 Cabinet Gorge	44.2	39.8	35.2	65.1	54.4	72.8	92.7	52.1	42.0	70.6	65.2	197	220	118	88.4
8 Chelan Lake	39.1	20.2	6.43	31.0	24.2	20.5	64.5	62.4	21.2	61.7	4.00	3.00	65.5	67.1	35.6
9 Chief Joseph	1362	1202	819	934	1290	1249	984	893	858	847	870	1202	1689	1270	1111
10 Cushman 1	21.4	12.7	1.33	0.99	0.84	2.59	10.6	4.55	2.58	2.86	3.05	3.33	3.70	32.6	6.98
11 Cushman 2	51.2	31.4	0	0	0	0.49	25.1	7.61	0.36	0.20	0.20	0.13	0.10	63.9	11.7
12 Diablo	27.8	50.6	74.4	64.5	60.4	89.6	157	143	35.5	57.6	66.6	40.7	93.0	94.4	79.2
13 Dworshak	425	337	183	61.3	60.9	60.7	60.5	60.3	60.3	60.5	61.6	67.5	170	427	138
14 Faraday	6.98	6.50	7.23	6.71	5.01	13.4	8.55	14.3	27.1	34.9	36.7	35.6	32.3	11.7	17.0
15 Gorge	37.2	61.5	85.6	74.8	70.0	106	167	152	47.9	72.7	81.5	58.9	118	141	95.4
16 Grand Coulee	2408	2095	1421	1652	2299	2180	1704	1572	1492	1424	1440	2059	3024	2261	1946
17 Hells Canyon	124	129	143	130	133	133	161	133	176	160	168	190	161	137	149
18 Hungry Horse	61.1	60.9	70.4	79.0	83.8	84.5	85.9	85.2	83.3	63.4	25.9	43.2	58.4	110	74.2
19 Ice Harbor	114	100	125	90.0	108	113	115	123	180	67.3	65.7	64.7	65.3	147	109
20 John Day	647	569	652	662	918	894	738	728	782	430	383	380	796	696	688
21 Kerr	44.9	44.9	44.9	91.1	83.7	109	151	73.2	46.4	86.2	51.7	151	178	138	98.6
22 La Grande	62.9	31.9	0	24.7	0	0	59.4	28.7	55.2	61.5	0	43.2	54.9	62.9	34.1
23 Libby	168	167	142	92.7	257	173	86.5	85.8	85.1	84.6	84.6	483	261	198	177
24 Little Falls	9.49	9.31	11.7	12.4	10.7	14.0	16.7	11.4	17.9	27.0	25.0	24.5	26.7	16.8	16.5
25 Little Goose	120	105	130	93.7	111	113	119	111	176	82.2	79.6	213	94.0	149	126
26 Long Lake	25.8	25.3	31.1	32.7	28.6	36.4	41.6	28.5	44.2	72.5	72.5	72.5	72.5	42.9	44.1
27 Lower Baker	33.1	19.9	16.9	55.6	15.8	21.2	40.2	11.2	14.4	28.7	20.1	34.0	69.4	70.6	33.5
28 Lower Granite	80.3	80.3	133	100	110	112	117	110	175	82.4	80.3	112	80.3	91.2	109
29 Lower Monumental	84.5	84.5	131	96.7	112	117	120	130	190	85.4	87.8	303	215	99.2	140
30 Mayfield	27.0	20.2	40.8	55.4	55.4	55.4	163	71.5	69.9	69.9	69.9	8.36	120	95.1	69.0
31 McNary	282	272	446	449	592	576	480	473	487	268	272	267	299	302	410
32 Merwin	19.7	17.0	21.0	116	15.0	43.1	80.6	35.0	65.5	109	60.5	28.8	64.7	46.8	51.8
33 Monroe Street	6.93	7.14	9.67	10.1	8.98	11.4	9.37	8.43	13.0	13.7	13.7	13.7	13.7	12.5	11.0
34 Mossyrock	50.1	38.4	71.8	88.4	88.1	64.8	254	56.4	52.4	46.0	41.0	0	224	180	97.4
35 Nine Mile	7.04	7.04	8.96	9.45	8.40	10.7	8.51	8.30	14.9	14.6	12.2	11.8	14.2	12.4	10.7
36 North Fork	7.85	7.32	8.13	7.55	5.64	15.0	9.61	16.1	30.5	47.1	41.3	47.1	37.6	13.1	20.2
37 Noxon Rapids	54.6	54.3	45.7	89.3	74.0	101	132	70.6	55.7	102	82.8	291	326	164	125
38 Oak Grove	21.0	20.2	25.3	26.1	14.1	16.0	24.1	17.7	24.5	33.7	33.7	33.7	33.7	25.0	24.6
39 Oxbow	64.4	66.8	74.1	67.3	68.5	67.6	82.1	67.3	87.9	79.7	79.7	88.2	75.5	69.7	74.5
40 Pelton	39.6	39.6	42.9	43.0	41.1	37.4	34.9	38.7	40.5	44.6	49.1	41.1	42.1	43.6	41.0

Regional: Regulated Hydro
Operating Year 2024 Water Year: 1937
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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
41 Pelton Rereq	8.09	8.09	8.85	8.88	8.43	7.56	6.96	7.86	8.30	9.28	10.3	8.43	8.68	9.02	8.40
42 Post Falls	1.80	2.05	4.09	5.11	4.00	6.40	4.93	3.95	10.4	15.7	11.3	11.3	15.7	6.13	7.28
43 Priest Rapids	386	389	323	374	511	507	416	372	349	347	192	350	655	383	408
44 River Mill	4.45	4.15	4.61	4.28	3.20	8.53	5.45	9.14	17.3	21.2	19.7	19.7	21.3	7.45	10.5
45 Rock Island	311	328	264	298	363	357	317	291	277	278	258	329	393	310	316
46 Rocky Reach	652	610	439	505	683	663	541	492	465	465	461	655	901	637	590
47 Ross	0	33.1	68.6	64.7	66.3	94.3	169	133	26.9	42.1	47.8	23.0	60.8	113	73.2
48 Round Butte	84.0	84.0	91.7	91.9	86.8	77.5	71.6	80.5	84.9	94.9	106	87.2	89.9	93.4	86.6
49 Swift 1	31.0	26.3	31.8	183	0.02	25.2	72.1	25.7	45.0	154	0.02	27.4	143	67.8	60.7
50 Swift 2	9.02	7.67	9.47	63.1	0.01	10.9	31.7	12.2	20.5	69.0	0.01	9.81	41.5	19.2	21.8
51 The Dalles	465	408	524	525	717	726	601	598	613	308	308	303	631	503	540
52 Thompson Falls	30.5	29.3	29.1	42.2	40.5	46.5	54.8	37.7	31.6	43.8	38.3	83.1	79.6	62.0	48.2
53 Upper Baker	29.8	23.6	20.8	64.5	0	40.6	9.79	9.17	6.65	44.9	0	40.1	58.8	65.8	30.6
54 Upper Falls	4.34	4.52	7.25	7.82	6.44	8.90	6.89	5.84	10.1	8.96	8.33	8.02	8.86	9.89	7.77
55 Wanapum	397	366	267	318	481	473	363	321	298	296	178	341	698	394	381
56 Wells	408	369	269	306	418	405	321	290	279	268	262	368	530	390	353
57 Yale	22.7	19.3	25.9	133	21.5	61.3	70.4	32.2	60.3	106	81.0	0	108	53.6	56.8
Total Regulated Hydro															
58 Federal Entities	6381	5636	5206	5284	7213	6952	5689	5441	5665	4127	3912	5770	7859	6488	5967
59 Investor Owned Utilities	1318	1272	1223	1811	1393	1638	1799	1317	1526	1958	1560	2197	2729	1894	1717
60 Marketer	395	387	310	350	449	437	366	339	324	329	289	391	558	395	385
61 Municipality	549	510	573	917	676	755	1393	858	549	648	567	885	1591	1324	889
62 Public Utility District	1331	1247	953	1212	1497	1473	1274	1126	1034	1110	808	1267	2053	1383	1293
63 Total Regulated Hydro	9974	9052	8265	9574	11228	11255	10521	9082	9098	8172	7136	10510	14790	11484	10251

Regional: Regulated Hydro
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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Regulated Hydro															
1 Albeni Falls Hydroelectric	18.6	16.9	19.4	35.7	16.7	16.0	17.2	12.6	12.0	14.9	17.5	35.5	43.8	36.9	23.4
2 Alder Hydroelectric	37.1	14.7	0	11.9	0	0	35.5	12.4	24.7	30.3	0	26.7	37.0	48.7	19.9
3 Bonneville	145	138	410	412	538	539	460	458	472	309	136	237	433	198	376
4 Boundary	164	149	182	474	249	257	287	190	180	211	225	620	757	422	334
5 Box Canyon Dam	31.5	28.9	34.1	77.3	44.9	46.2	51.0	35.4	33.5	38.7	41.5	85.4	82.5	67.7	52.5
6 Brownlee	156	159	172	155	162	167	204	167	221	203	205	229	196	175	184
7 Cabinet Gorge	44.2	39.8	35.2	65.1	54.4	72.8	92.7	52.1	42.0	70.6	65.2	197	220	118	88.5
8 Chelan Lake	39.1	20.2	6.43	31.0	24.2	20.5	64.5	62.4	21.2	61.7	4.00	3.00	65.5	67.1	35.5
9 Chief Joseph	1362	1202	819	934	1290	1249	984	893	858	847	870	1202	1689	1270	1112
10 Cushman 1	21.4	12.7	1.33	0.99	0.84	2.59	10.6	4.55	2.58	2.86	3.05	3.33	3.70	32.6	6.98
11 Cushman 2	51.2	31.4	0	0	0	0.49	25.1	7.61	0.36	0.20	0.20	0.13	0.10	63.9	11.7
12 Diablo	27.8	50.6	74.4	64.5	60.4	89.6	157	143	35.5	57.6	66.6	40.7	93.0	94.4	79.1
13 Dworshak	425	337	183	61.3	60.9	60.7	60.5	60.3	60.3	60.5	61.6	67.5	170	427	139
14 Faraday	6.98	6.50	7.23	6.71	5.01	13.4	8.55	14.3	27.1	34.9	36.7	35.6	32.3	11.7	17.0
15 Gorge	37.2	61.5	85.6	74.8	70.0	106	167	152	47.9	72.7	81.5	58.9	118	141	95.3
16 Grand Coulee	2408	2095	1421	1652	2299	2180	1704	1572	1492	1424	1440	2059	3024	2261	1947
17 Hells Canyon	124	129	143	130	133	133	161	133	176	160	168	190	161	137	149
18 Hungry Horse	61.1	60.9	70.4	79.0	83.8	84.5	85.9	85.2	83.3	63.4	25.9	43.2	58.4	110	74.1
19 Ice Harbor	114	100	125	90.0	108	113	115	123	180	67.3	65.7	64.7	65.3	147	109
20 John Day	647	569	652	662	918	894	738	728	782	430	383	380	796	696	688
21 Kerr	44.9	44.9	44.9	91.1	83.7	109	151	73.2	46.4	86.2	51.7	151	178	138	98.6
22 La Grande	62.9	31.9	0	24.7	0	0	59.4	28.7	55.2	61.5	0	43.2	54.9	62.9	34.1
23 Libby	168	167	142	92.7	257	173	86.5	85.8	85.1	84.6	84.6	483	261	198	177
24 Little Falls	9.49	9.31	11.7	12.4	10.7	14.0	16.7	11.4	17.9	27.0	25.0	24.5	26.7	16.8	16.5
25 Little Goose	120	105	130	93.7	111	113	119	111	176	82.2	79.6	213	120	149	128
26 Long Lake	25.8	25.3	31.1	32.7	28.6	36.4	41.6	28.5	44.2	72.5	72.5	72.5	72.5	42.9	44.1
27 Lower Baker	33.1	19.9	16.9	55.6	15.8	21.2	40.2	11.2	14.4	28.7	20.1	34.0	69.4	70.6	33.5
28 Lower Granite	80.3	80.3	133	100	110	112	117	110	175	82.4	80.3	112	80.3	90.8	109
29 Lower Monumental	84.5	84.5	131	96.7	112	117	120	130	190	85.4	87.8	303	215	99.2	140
30 Mayfield	27.0	20.2	40.8	55.4	55.4	55.4	163	71.5	69.9	69.9	69.9	8.36	120	95.1	69.0
31 McNary	282	272	446	449	592	576	480	473	487	268	272	267	299	302	409
32 Merwin	19.7	17.0	21.0	116	15.0	43.1	80.6	35.0	65.5	109	60.5	28.8	64.7	46.8	51.9
33 Monroe Street	6.93	7.14	9.67	10.1	8.98	11.4	9.37	8.43	13.0	13.7	13.7	13.7	13.7	12.5	11.0
34 Mossyrock	50.1	38.4	71.8	88.4	88.1	64.8	254	56.4	52.4	46.0	41.0	0	224	180	97.5
35 Nine Mile	7.04	7.04	8.96	9.45	8.40	10.7	8.51	8.30	14.9	14.6	12.2	11.8	14.2	12.4	10.7
36 North Fork	7.85	7.32	8.13	7.55	5.64	15.0	9.61	16.1	30.5	47.1	41.3	47.1	37.6	13.1	20.2
37 Noxon Rapids	54.6	54.3	45.7	89.3	74.0	101	132	70.6	55.7	102	82.8	291	326	164	125
38 Oak Grove	21.0	20.2	25.3	26.1	14.1	16.0	24.1	17.7	24.5	33.7	33.7	33.7	33.7	25.0	24.6
39 Oxbow	64.4	66.8	74.1	67.3	68.5	67.6	82.1	67.3	87.9	79.7	79.7	88.2	75.5	69.7	74.5
40 Pelton	39.6	39.6	42.9	43.0	41.1	37.4	34.9	38.7	40.5	44.6	49.1	41.1	42.1	43.6	41.0

Regional: Regulated Hydro
Operating Year 2025 Water Year: 1937
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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
41 Pelton Rereq	8.09	8.09	8.85	8.88	8.43	7.56	6.96	7.86	8.30	9.28	10.3	8.43	8.68	9.02	8.40
42 Post Falls	1.80	2.05	4.09	5.11	4.00	6.40	4.93	3.95	10.4	15.7	11.3	11.3	15.7	6.13	7.29
43 Priest Rapids	386	389	323	374	511	507	416	372	349	347	192	350	655	383	408
44 River Mill	4.45	4.15	4.61	4.28	3.20	8.53	5.45	9.14	17.3	21.2	19.7	19.7	21.3	7.45	10.5
45 Rock Island	311	328	264	298	363	357	317	291	277	278	258	329	393	310	316
46 Rocky Reach	652	610	439	505	683	663	541	492	465	465	461	655	901	637	590
47 Ross	0	33.1	68.6	64.7	66.3	94.3	169	133	26.9	42.1	47.8	23.0	60.8	113	73.0
48 Round Butte	84.0	84.0	91.7	91.9	86.8	77.5	71.6	80.5	84.9	94.9	106	87.2	89.9	93.4	86.6
49 Swift 1	31.0	26.3	31.8	183	0.02	25.2	72.1	25.7	45.0	154	0.02	27.4	143	67.8	60.8
50 Swift 2	9.02	7.67	9.47	63.1	0.01	10.9	31.7	12.2	20.5	69.0	0.01	9.81	41.5	19.2	21.9
51 The Dalles	465	408	524	525	717	726	601	598	613	308	308	303	631	503	540
52 Thompson Falls	30.5	29.3	29.1	42.2	40.5	46.5	54.8	37.7	31.6	43.8	38.3	83.1	79.6	62.0	48.3
53 Upper Baker	29.8	23.6	20.8	64.5	0	40.6	9.79	9.17	6.65	44.9	0	40.1	58.8	65.8	30.7
54 Upper Falls	4.34	4.52	7.25	7.82	6.44	8.90	6.89	5.84	10.1	8.96	8.33	8.02	8.86	9.89	7.78
55 Wanapum	397	366	267	318	481	473	363	321	298	296	178	348	698	394	382
56 Wells	408	369	269	306	418	405	321	290	279	268	262	368	530	390	353
57 Yale	22.7	19.3	25.9	133	21.5	61.3	70.4	32.2	60.3	106	81.0	0	108	53.6	56.8
Total Regulated Hydro															
58 Federal Entities	6381	5636	5206	5284	7213	6952	5689	5441	5665	4127	3912	5770	7885	6488	5971
59 Investor Owned Utilities	1318	1272	1223	1811	1393	1638	1799	1317	1526	1958	1560	2198	2729	1894	1718
60 Marketer	395	387	310	350	449	437	366	339	324	329	289	392	558	395	385
61 Municipality	549	510	573	917	676	755	1393	858	549	648	567	886	1591	1324	889
62 Public Utility District	1331	1247	953	1212	1497	1473	1274	1126	1034	1110	808	1271	2053	1383	1294
63 Total Regulated Hydro	9974	9052	8265	9574	11228	11255	10521	9082	9098	8172	7136	10517	14817	11484	10257

Regional: Regulated Hydro
Operating Year 2026 Water Year: 1937
2018 White Book Report Date: 12/1/2018

S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Regulated Hydro															
1 Albeni Falls Hydroelectric	18.6	16.9	19.4	35.7	16.7	16.0	17.2	12.6	12.0	14.9	17.5	35.5	43.8	36.9	23.4
2 Alder Hydroelectric	37.1	14.7	0	11.9	0	0	35.5	12.4	24.7	30.3	0	26.7	37.0	48.7	19.9
3 Bonneville	145	138	410	412	538	539	460	458	472	309	136	237	433	198	376
4 Boundary	164	149	182	474	249	257	287	190	180	211	225	620	757	422	334
5 Box Canyon Dam	31.5	28.9	34.1	77.3	44.9	46.2	51.0	35.4	33.5	38.7	41.5	85.4	82.5	67.7	52.5
6 Brownlee	156	159	172	155	162	167	204	167	221	203	205	229	196	175	184
7 Cabinet Gorge	44.2	39.8	35.2	65.1	54.4	72.8	92.7	52.1	42.0	70.6	65.2	197	220	118	88.5
8 Chelan Lake	39.1	20.2	6.43	31.0	24.2	20.5	64.5	62.4	21.2	61.7	4.00	3.00	65.5	67.1	35.5
9 Chief Joseph	1362	1202	819	934	1290	1249	984	893	858	847	870	1202	1689	1270	1112
10 Cushman 1	21.4	12.7	1.33	0.99	0.84	2.59	10.6	4.55	2.58	2.86	3.05	3.33	3.70	32.6	6.98
11 Cushman 2	51.2	31.4	0	0	0	0.49	25.1	7.61	0.36	0.20	0.20	0.13	0.10	63.9	11.7
12 Diablo	27.8	50.6	74.4	64.5	60.4	89.6	157	143	35.5	57.6	66.6	40.7	93.0	94.4	79.1
13 Dworshak	425	337	183	61.3	60.9	60.7	60.5	60.3	60.3	60.5	61.6	67.5	170	427	139
14 Faraday	6.98	6.50	7.23	6.71	5.01	13.4	8.55	14.3	27.1	34.9	36.7	35.6	32.3	11.7	17.0
15 Gorge	37.2	61.5	85.6	74.8	70.0	106	167	152	47.9	72.7	81.5	58.9	118	141	95.3
16 Grand Coulee	2408	2095	1421	1652	2299	2180	1704	1572	1492	1424	1440	2059	3024	2261	1947
17 Hells Canyon	124	129	143	130	133	133	161	133	176	160	168	190	161	137	149
18 Hungry Horse	61.1	60.9	70.4	79.0	83.8	84.5	85.9	85.2	83.3	63.4	25.9	43.2	58.4	110	74.1
19 Ice Harbor	114	100	125	90.0	108	113	115	123	180	67.3	65.7	64.7	65.3	147	109
20 John Day	647	569	652	662	918	894	738	728	782	430	383	380	796	696	688
21 Kerr	44.9	44.9	44.9	91.1	83.7	109	151	73.2	46.4	86.2	51.7	151	178	138	98.6
22 La Grande	62.9	31.9	0	24.7	0	0	59.4	28.7	55.2	61.5	0	43.2	54.9	62.9	34.1
23 Libby	168	167	142	92.7	257	173	86.5	85.8	85.1	84.6	84.6	483	261	198	177
24 Little Falls	9.49	9.31	11.7	12.4	10.7	14.0	16.7	11.4	17.9	27.0	25.0	24.5	26.7	16.8	16.5
25 Little Goose	120	105	130	93.7	111	113	119	111	176	82.2	79.6	213	94.0	149	126
26 Long Lake	25.8	25.3	31.1	32.7	28.6	36.4	41.6	28.5	44.2	72.5	72.5	72.5	72.5	42.9	44.1
27 Lower Baker	33.1	19.9	16.9	55.6	15.8	21.2	40.2	11.2	14.4	28.7	20.1	34.0	69.4	70.6	33.5
28 Lower Granite	80.3	80.3	133	100	110	112	117	110	175	82.4	80.3	112	80.3	91.2	109
29 Lower Monumental	84.5	84.5	131	96.7	112	117	120	130	190	85.4	87.8	303	215	99.2	140
30 Mayfield	27.0	20.2	40.8	55.4	55.4	55.4	163	71.5	69.9	69.9	69.9	8.36	120	95.1	69.0
31 McNary	282	272	446	449	592	576	480	473	487	268	272	267	299	302	409
32 Merwin	19.7	17.0	21.0	116	15.0	43.1	80.6	35.0	65.5	109	60.5	28.8	64.7	46.8	51.9
33 Monroe Street	6.93	7.14	9.67	10.1	8.98	11.4	9.37	8.43	13.0	13.7	13.7	13.7	13.7	12.5	11.0
34 Mossyrock	50.1	38.4	71.8	88.4	88.1	64.8	254	56.4	52.4	46.0	41.0	0	224	180	97.5
35 Nine Mile	7.04	7.04	8.96	9.45	8.40	10.7	8.51	8.30	14.9	14.6	12.2	11.8	14.2	12.4	10.7
36 North Fork	7.85	7.32	8.13	7.55	5.64	15.0	9.61	16.1	30.5	47.1	41.3	47.1	37.6	13.1	20.2
37 Noxon Rapids	54.6	54.3	45.7	89.3	74.0	101	132	70.6	55.7	102	82.8	291	326	164	125
38 Oak Grove	21.0	20.2	25.3	26.1	14.1	16.0	24.1	17.7	24.5	33.7	33.7	33.7	33.7	25.0	24.6
39 Oxbow	64.4	66.8	74.1	67.3	68.5	67.6	82.1	67.3	87.9	79.7	79.7	88.2	75.5	69.7	74.5
40 Pelton	39.6	39.6	42.9	43.0	41.1	37.4	34.9	38.7	40.5	44.6	49.1	41.1	42.1	43.6	41.0

Regional: Regulated Hydro
Operating Year 2026 Water Year: 1937
2018 White Book Report Date: 12/1/2018 *Continued*

S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
41 Pelton Rereq	8.09	8.09	8.85	8.88	8.43	7.56	6.96	7.86	8.30	9.28	10.3	8.43	8.68	9.02	8.40
42 Post Falls	1.80	2.05	4.09	5.11	4.00	6.40	4.93	3.95	10.4	15.7	11.3	11.3	15.7	6.13	7.29
43 Priest Rapids	386	389	323	374	511	507	416	372	349	347	192	350	655	383	408
44 River Mill	4.45	4.15	4.61	4.28	3.20	8.53	5.45	9.14	17.3	21.2	19.7	19.7	21.3	7.45	10.5
45 Rock Island	311	328	264	298	363	357	317	291	277	278	258	329	393	310	316
46 Rocky Reach	652	610	439	505	683	663	541	492	465	465	461	655	901	637	590
47 Ross	0	33.1	68.6	64.7	66.3	94.3	169	133	26.9	42.1	47.8	23.0	60.8	113	73.0
48 Round Butte	84.0	84.0	91.7	91.9	86.8	77.5	71.6	80.5	84.9	94.9	106	87.2	89.9	93.4	86.6
49 Swift 1	31.0	26.3	31.8	183	0.02	25.2	72.1	25.7	45.0	154	0.02	27.4	143	67.8	60.8
50 Swift 2	9.02	7.67	9.47	63.1	0.01	10.9	31.7	12.2	20.5	69.0	0.01	9.81	41.5	19.2	21.9
51 The Dalles	465	408	524	525	717	726	601	598	613	308	308	303	631	503	540
52 Thompson Falls	30.5	29.3	29.1	42.2	40.5	46.5	54.8	37.7	31.6	43.8	38.3	83.1	79.6	62.0	48.3
53 Upper Baker	29.8	23.6	20.8	64.5	0	40.6	9.79	9.17	6.65	44.9	0	40.1	58.8	65.8	30.7
54 Upper Falls	4.34	4.52	7.25	7.82	6.44	8.90	6.89	5.84	10.1	8.96	8.33	8.02	8.86	9.89	7.78
55 Wanapum	397	366	267	318	481	473	363	321	298	296	178	341	698	394	381
56 Wells	408	369	269	306	418	405	321	290	279	268	262	368	530	390	353
57 Yale	22.7	19.3	25.9	133	21.5	61.3	70.4	32.2	60.3	106	81.0	0	108	53.6	56.8
Total Regulated Hydro															
58 Federal Entities	6381	5636	5206	5284	7213	6952	5689	5441	5665	4127	3912	5770	7859	6488	5969
59 Investor Owned Utilities	1318	1272	1223	1811	1393	1638	1799	1317	1526	1958	1560	2197	2729	1894	1718
60 Marketer	395	387	310	350	449	437	366	339	324	329	289	391	558	395	385
61 Municipality	549	510	573	917	676	755	1393	858	549	648	567	885	1591	1324	889
62 Public Utility District	1331	1247	953	1212	1497	1473	1274	1126	1034	1110	808	1267	2053	1383	1294
63 Total Regulated Hydro	9974	9052	8265	9574	11228	11255	10521	9082	9098	8172	7136	10510	14790	11484	10254

Regional: Regulated Hydro
Operating Year 2027 Water Year: 1937
2018 White Book Report Date: 12/1/2018

S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Regulated Hydro															
1 Albeni Falls Hydroelectric	18.6	16.9	19.4	35.7	16.7	16.0	17.2	12.6	12.0	14.9	17.5	35.5	43.8	36.9	23.4
2 Alder Hydroelectric	37.1	14.7	0	11.9	0	0	35.5	12.4	24.7	30.3	0	26.7	37.0	48.7	19.9
3 Bonneville	145	138	410	412	538	539	460	458	472	309	136	237	433	198	376
4 Boundary	164	149	182	474	249	257	287	190	180	211	225	620	757	422	334
5 Box Canyon Dam	31.5	28.9	34.1	77.3	44.9	46.2	51.0	35.4	33.5	38.7	41.5	85.4	82.5	67.7	52.5
6 Brownlee	156	159	172	155	162	167	204	167	221	203	205	229	196	175	184
7 Cabinet Gorge	44.2	39.8	35.2	65.1	54.4	72.8	92.7	52.1	42.0	70.6	65.2	197	220	118	88.5
8 Chelan Lake	39.1	20.2	6.43	31.0	24.2	20.5	64.5	62.4	21.2	61.7	4.00	3.00	65.5	67.1	35.5
9 Chief Joseph	1362	1202	819	934	1290	1249	984	893	858	847	870	1202	1689	1270	1112
10 Cushman 1	21.4	12.7	1.33	0.99	0.84	2.59	10.6	4.55	2.58	2.86	3.05	3.33	3.70	32.6	6.98
11 Cushman 2	51.2	31.4	0	0	0	0.49	25.1	7.61	0.36	0.20	0.20	0.13	0.10	63.9	11.7
12 Diablo	27.8	50.6	74.4	64.5	60.4	89.6	157	143	35.5	57.6	66.6	40.7	93.0	94.4	79.1
13 Dworshak	425	337	183	61.3	60.9	60.7	60.5	60.3	60.3	60.5	61.6	67.5	170	427	139
14 Faraday	6.98	6.50	7.23	6.71	5.01	13.4	8.55	14.3	27.1	34.9	36.7	35.6	32.3	11.7	17.0
15 Gorge	37.2	61.5	85.6	74.8	70.0	106	167	152	47.9	72.7	81.5	58.9	118	141	95.3
16 Grand Coulee	2408	2095	1421	1652	2299	2180	1704	1572	1492	1424	1440	2059	3024	2261	1947
17 Hells Canyon	124	129	143	130	133	133	161	133	176	160	168	190	161	137	149
18 Hungry Horse	61.1	60.9	70.4	79.0	83.8	84.5	85.9	85.2	83.3	63.4	25.9	43.2	58.4	110	74.1
19 Ice Harbor	114	100	125	90.0	108	113	115	123	180	67.3	65.7	64.7	65.3	147	109
20 John Day	647	569	652	662	918	894	738	728	782	430	383	380	796	696	688
21 Kerr	44.9	44.9	44.9	91.1	83.7	109	151	73.2	46.4	86.2	51.7	151	178	138	98.6
22 La Grande	62.9	31.9	0	24.7	0	0	59.4	28.7	55.2	61.5	0	43.2	54.9	62.9	34.1
23 Libby	168	167	142	92.7	257	173	86.5	85.8	85.1	84.6	84.6	483	261	198	177
24 Little Falls	9.49	9.31	11.7	12.4	10.7	14.0	16.7	11.4	17.9	27.0	25.0	24.5	26.7	16.8	16.5
25 Little Goose	120	105	130	93.7	111	113	119	111	176	82.2	79.6	213	120	149	128
26 Long Lake	25.8	25.3	31.1	32.7	28.6	36.4	41.6	28.5	44.2	72.5	72.5	72.5	72.5	42.9	44.1
27 Lower Baker	33.1	19.9	16.9	55.6	15.8	21.2	40.2	11.2	14.4	28.7	20.1	34.0	69.4	70.6	33.5
28 Lower Granite	80.3	80.3	133	100	110	112	117	110	175	82.4	80.3	112	80.3	90.8	109
29 Lower Monumental	84.5	84.5	131	96.7	112	117	120	130	190	85.4	87.8	303	215	99.2	140
30 Mayfield	27.0	20.2	40.8	55.4	55.4	55.4	163	71.5	69.9	69.9	69.9	8.36	120	95.1	69.0
31 McNary	282	272	446	449	592	576	480	473	487	268	272	267	299	302	409
32 Merwin	19.7	17.0	21.0	116	15.0	43.1	80.6	35.0	65.5	109	60.5	28.8	64.7	46.8	51.9
33 Monroe Street	6.93	7.14	9.67	10.1	8.98	11.4	9.37	8.43	13.0	13.7	13.7	13.7	13.7	12.5	11.0
34 Mossyrock	50.1	38.4	71.8	88.4	88.1	64.8	254	56.4	52.4	46.0	41.0	0	224	180	97.5
35 Nine Mile	7.04	7.04	8.96	9.45	8.40	10.7	8.51	8.30	14.9	14.6	12.2	11.8	14.2	12.4	10.7
36 North Fork	7.85	7.32	8.13	7.55	5.64	15.0	9.61	16.1	30.5	47.1	41.3	47.1	37.6	13.1	20.2
37 Noxon Rapids	54.6	54.3	45.7	89.3	74.0	101	132	70.6	55.7	102	82.8	291	326	164	125
38 Oak Grove	21.0	20.2	25.3	26.1	14.1	16.0	24.1	17.7	24.5	33.7	33.7	33.7	33.7	25.0	24.6
39 Oxbow	64.4	66.8	74.1	67.3	68.5	67.6	82.1	67.3	87.9	79.7	79.7	88.2	75.5	69.7	74.5
40 Pelton	39.6	39.6	42.9	43.0	41.1	37.4	34.9	38.7	40.5	44.6	49.1	41.1	42.1	43.6	41.0

Regional: Regulated Hydro
Operating Year 2027 Water Year: 1937
2018 White Book Report Date: 12/1/2018 *Continued*

S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
41 Pelton Rereq	8.09	8.09	8.85	8.88	8.43	7.56	6.96	7.86	8.30	9.28	10.3	8.43	8.68	9.02	8.40
42 Post Falls	1.80	2.05	4.09	5.11	4.00	6.40	4.93	3.95	10.4	15.7	11.3	11.3	15.7	6.13	7.29
43 Priest Rapids	386	389	323	374	511	507	416	372	349	347	192	350	655	383	408
44 River Mill	4.45	4.15	4.61	4.28	3.20	8.53	5.45	9.14	17.3	21.2	19.7	19.7	21.3	7.45	10.5
45 Rock Island	311	328	264	298	363	357	317	291	277	278	258	329	393	310	316
46 Rocky Reach	652	610	439	505	683	663	541	492	465	465	461	655	901	637	590
47 Ross	0	33.1	68.6	64.7	66.3	94.3	169	133	26.9	42.1	47.8	23.0	60.8	113	73.0
48 Round Butte	84.0	84.0	91.7	91.9	86.8	77.5	71.6	80.5	84.9	94.9	106	87.2	89.9	93.4	86.6
49 Swift 1	31.0	26.3	31.8	183	0.02	25.2	72.1	25.7	45.0	154	0.02	27.4	143	67.8	60.8
50 Swift 2	9.02	7.67	9.47	63.1	0.01	10.9	31.7	12.2	20.5	69.0	0.01	9.81	41.5	19.2	21.9
51 The Dalles	465	408	524	525	717	726	601	598	613	308	308	303	631	503	540
52 Thompson Falls	30.5	29.3	29.1	42.2	40.5	46.5	54.8	37.7	31.6	43.8	38.3	83.1	79.6	62.0	48.3
53 Upper Baker	29.8	23.6	20.8	64.5	0	40.6	9.79	9.17	6.65	44.9	0	40.1	58.8	65.8	30.7
54 Upper Falls	4.34	4.52	7.25	7.82	6.44	8.90	6.89	5.84	10.1	8.96	8.33	8.02	8.86	9.89	7.78
55 Wanapum	397	366	267	318	481	473	363	321	298	296	178	348	698	394	382
56 Wells	408	369	269	306	418	405	321	290	279	268	262	368	530	390	353
57 Yale	22.7	19.3	25.9	133	21.5	61.3	70.4	32.2	60.3	106	81.0	0	108	53.6	56.8
Total Regulated Hydro															
58 Federal Entities	6381	5636	5206	5284	7213	6952	5689	5441	5665	4127	3912	5770	7885	6488	5971
59 Investor Owned Utilities	1318	1272	1223	1811	1393	1638	1799	1317	1526	1958	1560	2198	2729	1894	1718
60 Marketer	395	387	310	350	449	437	366	339	324	329	289	392	558	395	385
61 Municipality	549	510	573	917	676	755	1393	858	549	648	567	886	1591	1324	889
62 Public Utility District	1331	1247	953	1212	1497	1473	1274	1126	1034	1110	808	1271	2053	1383	1294
63 Total Regulated Hydro	9974	9052	8265	9574	11228	11255	10521	9082	9098	8172	7136	10517	14817	11484	10257

Regional: Regulated Hydro
Operating Year 2028 Water Year: 1937
2018 White Book Report Date: 12/1/2018

S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Regulated Hydro															
1 Albeni Falls Hydroelectric	18.6	16.9	19.4	35.7	16.7	16.0	17.2	12.6	12.0	14.9	17.5	35.5	43.8	36.9	23.4
2 Alder Hydroelectric	37.1	14.7	0	11.9	0	0	35.5	12.4	24.7	30.3	0	26.7	37.0	48.7	19.9
3 Bonneville	145	138	410	412	538	539	460	458	472	309	136	237	433	198	376
4 Boundary	164	149	182	474	249	257	287	190	180	211	225	620	757	422	333
5 Box Canyon Dam	31.5	28.9	34.1	77.3	44.9	46.2	51.0	35.4	33.5	38.7	41.5	85.4	82.5	67.7	52.5
6 Brownlee	156	159	172	155	162	167	204	167	221	203	205	229	196	175	184
7 Cabinet Gorge	44.2	39.8	35.2	65.1	54.4	72.8	92.7	52.1	42.0	70.6	65.2	197	220	118	88.4
8 Chelan Lake	39.1	20.2	6.43	31.0	24.2	20.5	64.5	62.4	21.2	61.7	4.00	3.00	65.5	67.1	35.6
9 Chief Joseph	1362	1202	819	934	1290	1249	984	893	858	847	870	1202	1689	1270	1111
10 Cushman 1	21.4	12.7	1.33	0.99	0.84	2.59	10.6	4.55	2.58	2.86	3.05	3.33	3.70	32.6	6.98
11 Cushman 2	51.2	31.4	0	0	0	0.49	25.1	7.61	0.36	0.20	0.20	0.13	0.10	63.9	11.7
12 Diablo	27.8	50.6	74.4	64.5	60.4	89.6	157	143	35.5	57.6	66.6	40.7	93.0	94.4	79.2
13 Dworshak	425	337	183	61.3	60.9	60.7	60.5	60.3	60.3	60.5	61.6	67.5	170	427	138
14 Faraday	6.98	6.50	7.23	6.71	5.01	13.4	8.55	14.3	27.1	34.9	36.7	35.6	32.3	11.7	17.0
15 Gorge	37.2	61.5	85.6	74.8	70.0	106	167	152	47.9	72.7	81.5	58.9	118	141	95.4
16 Grand Coulee	2408	2095	1421	1652	2299	2180	1704	1572	1492	1424	1440	2059	3024	2261	1946
17 Hells Canyon	124	129	143	130	133	133	161	133	176	160	168	190	161	137	149
18 Hungry Horse	61.1	60.9	70.4	79.0	83.8	84.5	85.9	85.2	83.3	63.4	25.9	43.2	58.4	110	74.2
19 Ice Harbor	114	100	125	90.0	108	113	115	123	180	67.3	65.7	64.7	65.3	147	109
20 John Day	647	569	652	662	918	894	738	728	782	430	383	380	796	696	688
21 Kerr	44.9	44.9	44.9	91.1	83.7	109	151	73.2	46.4	86.2	51.7	151	178	138	98.6
22 La Grande	62.9	31.9	0	24.7	0	0	59.4	28.7	55.2	61.5	0	43.2	54.9	62.9	34.1
23 Libby	168	167	142	92.7	257	173	86.5	85.8	85.1	84.6	84.6	483	261	198	177
24 Little Falls	9.49	9.31	11.7	12.4	10.7	14.0	16.7	11.4	17.9	27.0	25.0	24.5	26.7	16.8	16.5
25 Little Goose	120	105	130	93.7	111	113	119	111	176	82.2	79.6	213	94.0	149	126
26 Long Lake	25.8	25.3	31.1	32.7	28.6	36.4	41.6	28.5	44.2	72.5	72.5	72.5	72.5	42.9	44.1
27 Lower Baker	33.1	19.9	16.9	55.6	15.8	21.2	40.2	11.2	14.4	28.7	20.1	34.0	69.4	70.6	33.5
28 Lower Granite	80.3	80.3	133	100	110	112	117	110	175	82.4	80.3	112	80.3	91.2	109
29 Lower Monumental	84.5	84.5	131	96.7	112	117	120	130	190	85.4	87.8	303	215	99.2	140
30 Mayfield	27.0	20.2	40.8	55.4	55.4	55.4	163	71.5	69.9	69.9	69.9	8.36	120	95.1	69.0
31 McNary	282	272	446	449	592	576	480	473	487	268	272	267	299	302	410
32 Merwin	19.7	17.0	21.0	116	15.0	43.1	80.6	35.0	65.5	109	60.5	28.8	64.7	46.8	51.8
33 Monroe Street	6.93	7.14	9.67	10.1	8.98	11.4	9.37	8.43	13.0	13.7	13.7	13.7	13.7	12.5	11.0
34 Mossyrock	50.1	38.4	71.8	88.4	88.1	64.8	254	56.4	52.4	46.0	41.0	0	224	180	97.4
35 Nine Mile	7.04	7.04	8.96	9.45	8.40	10.7	8.51	8.30	14.9	14.6	12.2	11.8	14.2	12.4	10.7
36 North Fork	7.85	7.32	8.13	7.55	5.64	15.0	9.61	16.1	30.5	47.1	41.3	47.1	37.6	13.1	20.2
37 Noxon Rapids	54.6	54.3	45.7	89.3	74.0	101	132	70.6	55.7	102	82.8	291	326	164	125
38 Oak Grove	21.0	20.2	25.3	26.1	14.1	16.0	24.1	17.7	24.5	33.7	33.7	33.7	33.7	25.0	24.6
39 Oxbow	64.4	66.8	74.1	67.3	68.5	67.6	82.1	67.3	87.9	79.7	79.7	88.2	75.5	69.7	74.5
40 Pelton	39.6	39.6	42.9	43.0	41.1	37.4	34.9	38.7	40.5	44.6	49.1	41.1	42.1	43.6	41.0

Regional: Regulated Hydro
Operating Year 2028 Water Year: 1937
2018 White Book Report Date: 12/1/2018 *Continued*

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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
41 Pelton Rereq	8.09	8.09	8.85	8.88	8.43	7.56	6.96	7.86	8.30	9.28	10.3	8.43	8.68	9.02	8.40
42 Post Falls	1.80	2.05	4.09	5.11	4.00	6.40	4.93	3.95	10.4	15.7	11.3	11.3	15.7	6.13	7.28
43 Priest Rapids	386	389	323	374	511	507	416	372	349	347	192	350	655	383	408
44 River Mill	4.45	4.15	4.61	4.28	3.20	8.53	5.45	9.14	17.3	21.2	19.7	19.7	21.3	7.45	10.5
45 Rock Island	311	328	264	298	363	357	317	291	277	278	258	329	393	310	316
46 Rocky Reach	652	610	439	505	683	663	541	492	465	465	461	655	901	637	590
47 Ross	0	33.1	68.6	64.7	66.3	94.3	169	133	26.9	42.1	47.8	23.0	60.8	113	73.2
48 Round Butte	84.0	84.0	91.7	91.9	86.8	77.5	71.6	80.5	84.9	94.9	106	87.2	89.9	93.4	86.6
49 Swift 1	31.0	26.3	31.8	183	0.02	25.2	72.1	25.7	45.0	154	0.02	27.4	143	67.8	60.7
50 Swift 2	9.02	7.67	9.47	63.1	0.01	10.9	31.7	12.2	20.5	69.0	0.01	9.81	41.5	19.2	21.8
51 The Dalles	465	408	524	525	717	726	601	598	613	308	308	303	631	503	540
52 Thompson Falls	30.5	29.3	29.1	42.2	40.5	46.5	54.8	37.7	31.6	43.8	38.3	83.1	79.6	62.0	48.2
53 Upper Baker	29.8	23.6	20.8	64.5	0	40.6	9.79	9.17	6.65	44.9	0	40.1	58.8	65.8	30.6
54 Upper Falls	4.34	4.52	7.25	7.82	6.44	8.90	6.89	5.84	10.1	8.96	8.33	8.02	8.86	9.89	7.77
55 Wanapum	397	366	267	318	481	473	363	321	298	296	178	341	698	394	381
56 Wells	408	369	269	306	418	405	321	290	279	268	262	368	530	390	353
57 Yale	22.7	19.3	25.9	133	21.5	61.3	70.4	32.2	60.3	106	81.0	0	108	53.6	56.8
Total Regulated Hydro															
58 Federal Entities	6381	5636	5206	5284	7213	6952	5689	5441	5665	4127	3912	5770	7859	6488	5967
59 Investor Owned Utilities	1318	1272	1223	1811	1393	1638	1799	1317	1526	1958	1560	2197	2729	1894	1717
60 Marketer	395	387	310	350	449	437	366	339	324	329	289	391	558	395	385
61 Municipality	549	510	573	917	676	755	1393	858	549	648	567	885	1591	1324	889
62 Public Utility District	1331	1247	953	1212	1497	1473	1274	1126	1034	1110	808	1267	2053	1383	1293
63 Total Regulated Hydro	9974	9052	8265	9574	11228	11255	10521	9082	9098	8172	7136	10510	14790	11484	10251

Regional: Regulated Hydro
Operating Year 2029 Water Year: 1937
2018 White Book Report Date: 12/1/2018

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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Regulated Hydro															
1 Albeni Falls Hydroelectric	18.6	16.9	19.4	35.7	16.7	16.0	17.2	12.6	12.0	14.9	17.5	35.5	43.8	36.9	23.4
2 Alder Hydroelectric	37.1	14.7	0	11.9	0	0	35.5	12.4	24.7	30.3	0	26.7	37.0	48.7	19.9
3 Bonneville	145	138	410	412	538	539	460	458	472	309	136	237	433	198	376
4 Boundary	164	149	182	474	249	257	287	190	180	211	225	620	757	422	334
5 Box Canyon Dam	31.5	28.9	34.1	77.3	44.9	46.2	51.0	35.4	33.5	38.7	41.5	85.4	82.5	67.7	52.5
6 Brownlee	156	159	172	155	162	167	204	167	221	203	205	229	196	175	184
7 Cabinet Gorge	44.2	39.8	35.2	65.1	54.4	72.8	92.7	52.1	42.0	70.6	65.2	197	220	118	88.5
8 Chelan Lake	39.1	20.2	6.43	31.0	24.2	20.5	64.5	62.4	21.2	61.7	4.00	3.00	65.5	67.1	35.5
9 Chief Joseph	1362	1202	819	934	1290	1249	984	893	858	847	870	1202	1689	1270	1112
10 Cushman 1	21.4	12.7	1.33	0.99	0.84	2.59	10.6	4.55	2.58	2.86	3.05	3.33	3.70	32.6	6.98
11 Cushman 2	51.2	31.4	0	0	0	0.49	25.1	7.61	0.36	0.20	0.20	0.13	0.10	63.9	11.7
12 Diablo	27.8	50.6	74.4	64.5	60.4	89.6	157	143	35.5	57.6	66.6	40.7	93.0	94.4	79.1
13 Dworshak	425	337	183	61.3	60.9	60.7	60.5	60.3	60.3	60.5	61.6	67.5	170	427	139
14 Faraday	6.98	6.50	7.23	6.71	5.01	13.4	8.55	14.3	27.1	34.9	36.7	35.6	32.3	11.7	17.0
15 Gorge	37.2	61.5	85.6	74.8	70.0	106	167	152	47.9	72.7	81.5	58.9	118	141	95.3
16 Grand Coulee	2408	2095	1421	1652	2299	2180	1704	1572	1492	1424	1440	2059	3024	2261	1947
17 Hells Canyon	124	129	143	130	133	133	161	133	176	160	168	190	161	137	149
18 Hungry Horse	61.1	60.9	70.4	79.0	83.8	84.5	85.9	85.2	83.3	63.4	25.9	43.2	58.4	110	74.1
19 Ice Harbor	114	100	125	90.0	108	113	115	123	180	67.3	65.7	64.7	65.3	147	109
20 John Day	647	569	652	662	918	894	738	728	782	430	383	380	796	696	688
21 Kerr	44.9	44.9	44.9	91.1	83.7	109	151	73.2	46.4	86.2	51.7	151	178	138	98.6
22 La Grande	62.9	31.9	0	24.7	0	0	59.4	28.7	55.2	61.5	0	43.2	54.9	62.9	34.1
23 Libby	168	167	142	92.7	257	173	86.5	85.8	85.1	84.6	84.6	483	261	198	177
24 Little Falls	9.49	9.31	11.7	12.4	10.7	14.0	16.7	11.4	17.9	27.0	25.0	24.5	26.7	16.8	16.5
25 Little Goose	120	105	130	93.7	111	113	119	111	176	82.2	79.6	213	120	149	128
26 Long Lake	25.8	25.3	31.1	32.7	28.6	36.4	41.6	28.5	44.2	72.5	72.5	72.5	72.5	42.9	44.1
27 Lower Baker	33.1	19.9	16.9	55.6	15.8	21.2	40.2	11.2	14.4	28.7	20.1	34.0	69.4	70.6	33.5
28 Lower Granite	80.3	80.3	133	100	110	112	117	110	175	82.4	80.3	112	80.3	90.8	109
29 Lower Monumental	84.5	84.5	131	96.7	112	117	120	130	190	85.4	87.8	303	215	99.2	140
30 Mayfield	27.0	20.2	40.8	55.4	55.4	55.4	163	71.5	69.9	69.9	69.9	8.36	120	95.1	69.0
31 McNary	282	272	446	449	592	576	480	473	487	268	272	267	299	302	409
32 Merwin	19.7	17.0	21.0	116	15.0	43.1	80.6	35.0	65.5	109	60.5	28.8	64.7	46.8	51.9
33 Monroe Street	6.93	7.14	9.67	10.1	8.98	11.4	9.37	8.43	13.0	13.7	13.7	13.7	13.7	12.5	11.0
34 Mossyrock	50.1	38.4	71.8	88.4	88.1	64.8	254	56.4	52.4	46.0	41.0	0	224	180	97.5
35 Nine Mile	7.04	7.04	8.96	9.45	8.40	10.7	8.51	8.30	14.9	14.6	12.2	11.8	14.2	12.4	10.7
36 North Fork	7.85	7.32	8.13	7.55	5.64	15.0	9.61	16.1	30.5	47.1	41.3	47.1	37.6	13.1	20.2
37 Noxon Rapids	54.6	54.3	45.7	89.3	74.0	101	132	70.6	55.7	102	82.8	291	326	164	125
38 Oak Grove	21.0	20.2	25.3	26.1	14.1	16.0	24.1	17.7	24.5	33.7	33.7	33.7	33.7	25.0	24.6
39 Oxbow	64.4	66.8	74.1	67.3	68.5	67.6	82.1	67.3	87.9	79.7	79.7	88.2	75.5	69.7	74.5
40 Pelton	39.6	39.6	42.9	43.0	41.1	37.4	34.9	38.7	40.5	44.6	49.1	41.1	42.1	43.6	41.0

Regional: Regulated Hydro
Operating Year 2029 Water Year: 1937
2018 White Book Report Date: 12/1/2018 *Continued*

S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
41 Pelton Rereq	8.09	8.09	8.85	8.88	8.43	7.56	6.96	7.86	8.30	9.28	10.3	8.43	8.68	9.02	8.40
42 Post Falls	1.80	2.05	4.09	5.11	4.00	6.40	4.93	3.95	10.4	15.7	11.3	11.3	15.7	6.13	7.29
43 Priest Rapids	386	389	323	374	511	507	416	372	349	347	192	350	655	383	408
44 River Mill	4.45	4.15	4.61	4.28	3.20	8.53	5.45	9.14	17.3	21.2	19.7	19.7	21.3	7.45	10.5
45 Rock Island	311	328	264	298	363	357	317	291	277	278	258	329	393	310	316
46 Rocky Reach	652	610	439	505	683	663	541	492	465	465	461	655	901	637	590
47 Ross	0	33.1	68.6	64.7	66.3	94.3	169	133	26.9	42.1	47.8	23.0	60.8	113	73.0
48 Round Butte	84.0	84.0	91.7	91.9	86.8	77.5	71.6	80.5	84.9	94.9	106	87.2	89.9	93.4	86.6
49 Swift 1	31.0	26.3	31.8	183	0.02	25.2	72.1	25.7	45.0	154	0.02	27.4	143	67.8	60.8
50 Swift 2	9.02	7.67	9.47	63.1	0.01	10.9	31.7	12.2	20.5	69.0	0.01	9.81	41.5	19.2	21.9
51 The Dalles	465	408	524	525	717	726	601	598	613	308	308	303	631	503	540
52 Thompson Falls	30.5	29.3	29.1	42.2	40.5	46.5	54.8	37.7	31.6	43.8	38.3	83.1	79.6	62.0	48.3
53 Upper Baker	29.8	23.6	20.8	64.5	0	40.6	9.79	9.17	6.65	44.9	0	40.1	58.8	65.8	30.7
54 Upper Falls	4.34	4.52	7.25	7.82	6.44	8.90	6.89	5.84	10.1	8.96	8.33	8.02	8.86	9.89	7.78
55 Wanapum	397	366	267	318	481	473	363	321	298	296	178	348	698	394	382
56 Wells	408	369	269	306	418	405	321	290	279	268	262	368	530	390	353
57 Yale	22.7	19.3	25.9	133	21.5	61.3	70.4	32.2	60.3	106	81.0	0	108	53.6	56.8
Total Regulated Hydro															
58 Federal Entities	6381	5636	5206	5284	7213	6952	5689	5441	5665	4127	3912	5770	7885	6488	5971
59 Investor Owned Utilities	1318	1272	1171	1752	1312	1559	1737	1261	1472	1906	1509	2126	2626	1818	1656
60 Marketer	395	387	310	350	449	437	366	339	324	329	289	392	558	395	385
61 Municipality	549	510	573	917	676	755	1393	858	549	648	567	886	1591	1324	889
62 Public Utility District	1331	1247	1005	1271	1578	1552	1336	1183	1088	1162	859	1343	2156	1458	1356
63 Total Regulated Hydro	9974	9052	8265	9574	11228	11255	10521	9082	9098	8172	7136	10517	14817	11484	10257

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Exhibit 31
Regional Independent Hydro

Monthly Energy
Operating Year 2020 to 2029
Using 1937-Water Conditions

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Regional: Independent Hydro
Operating Year 2020 Water Year: 1937
2018 White Book Report Date: 12/1/2018

S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Independent Hydro															
1 American Falls Hydroelectric	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	5.84	5.84	8.70	10.8	13.0	6.45	3.86	5.84	5.84	8.70	14.5	19.9	19.6	7.07	9.86
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	24.2	21.6	16.2	26.7	23.3	8.71	6.40	6.19	13.0	29.0	29.0	29.0	29.0	16.7	18.9
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	24.5	24.3	36.1	42.8	45.6	19.7	11.4	18.1	20.1	34.9	64.3	106	90.7	30.3	41.2
21 Dexter	5.28	6.73	8.83	12.4	15.7	3.80	3.37	4.72	4.72	11.7	12.3	16.5	16.6	5.95	9.21
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	5.14	5.14	6.44	6.49	7.56	13.0	4.15	9.19	20.8	22.5	23.0	23.0	23.0	6.17	12.3
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	15.3	15.6	19.2	19.3	19.3	30.3	7.73	0.37	32.9	88.5	44.8	57.9	48.8	9.57	27.3
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 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
31 Hills Creek	6.51	6.50	25.2	22.8	26.9	4.86	3.84	4.59	5.19	27.7	31.3	35.0	35.0	13.9	17.7
32 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
33 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
34 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
35 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
36 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
37 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
38 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
39 Lake Creek (MT)	2.00	2.00	1.38	1.47	2.00	2.02	2.08	2.39	3.03	4.50	4.50	4.50	4.50	3.68	2.79
40 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

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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
41 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
42 Lookout Point	21.3	26.8	34.5	45.2	47.3	8.78	7.79	11.5	14.7	44.8	50.5	86.7	75.0	24.2	35.6
43 Lost Creek	43.8	38.7	23.5	37.0	19.0	18.8	18.5	13.0	13.6	14.6	15.7	56.4	56.4	46.4	30.0
44 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
45 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
46 McNary Fishway	8.83	8.83	9.36	9.42	8.75	8.00	5.91	5.89	8.41	9.43	9.43	9.27	8.59	9.31	8.44
47 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
48 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
49 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
50 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
51 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
52 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
53 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
54 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
55 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
56 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
57 Powerdale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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
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 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
65 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
66 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
67 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
68 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
69 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
70 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
71 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
72 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
73 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
74 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
75 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
76 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
77 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
78 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
79 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
80 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

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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Total Independent Hydro															
81 Cooperative	6.06	6.06	4.04	3.78	4.34	4.34	4.65	5.14	5.66	7.16	7.16	8.63	9.29	8.36	5.95
82 Federal Entities	362	358	340	307	257	172	113	128	230	435	442	719	708	407	349
83 Investor Owned Utilities	507	501	513	488	451	500	452	508	556	685	691	626	616	539	536
84 Marketer	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
85 Municipality	71.3	65.0	77.0	65.7	66.9	91.5	94.7	102	105	90.1	92.7	90.3	112	85.8	87.5
86 Public Utility District	53.3	65.2	42.3	41.3	36.6	98.5	47.4	30.6	62.9	91.5	91.5	125	152	97.2	73.9
87 Total Independent Hydro	1000	995	976	907	817	867	712	775	961	1320	1336	1605	1625	1141	1059

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Regional: Independent Hydro
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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Independent Hydro															
1 American Falls Hydroelectric	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	5.84	5.84	8.70	10.8	13.0	6.45	3.86	5.84	5.84	8.70	14.5	19.9	19.6	7.07	9.88
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	24.2	21.6	16.2	26.7	23.3	8.71	6.40	6.19	13.0	29.0	29.0	29.0	29.0	16.7	19.0
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	24.5	24.3	36.1	42.8	45.6	19.7	11.4	18.1	20.1	34.9	64.3	106	90.7	30.3	41.3
21 Dexter	5.28	6.73	8.83	12.4	15.7	3.80	3.37	4.72	4.72	11.7	12.3	16.5	16.6	5.95	9.22
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	5.14	5.14	6.44	6.49	7.56	13.0	4.15	9.19	20.8	22.5	23.0	23.0	23.0	6.17	12.3
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	15.3	15.6	19.2	19.3	19.3	30.3	7.73	0.37	32.9	88.5	44.8	57.9	48.8	9.57	27.4
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 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
31 Hills Creek	6.51	6.50	25.2	22.8	26.9	4.86	3.84	4.59	5.19	27.7	31.3	35.0	35.0	13.9	17.8
32 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
33 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
34 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
35 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
36 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
37 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
38 John Boyle	0	0	9.28	33.2	39.6	44.7	0	0	0	0	0	0	0	0	10.6
39 Lake Creek (MT)	2.00	2.00	1.38	1.47	2.00	2.02	2.08	2.39	3.03	4.50	4.50	4.50	4.50	3.68	2.79
40 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

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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
41 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
42 Lookout Point	21.3	26.8	34.5	45.2	47.3	8.78	7.79	11.5	14.7	44.8	50.5	86.7	75.0	24.2	35.7
43 Lost Creek	43.8	38.7	23.5	37.0	19.0	18.8	18.5	13.0	13.6	14.6	15.7	56.4	56.4	46.4	30.1
44 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
45 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
46 McNary Fishway	8.83	8.83	9.36	9.42	8.75	8.00	5.91	5.89	8.41	9.43	9.43	9.27	8.59	9.31	8.45
47 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
48 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
49 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
50 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
51 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
52 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
53 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
54 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
55 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
56 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
57 Powerdale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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
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 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
65 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
66 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
67 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
68 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
69 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
70 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
71 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
72 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
73 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
74 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
75 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
76 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
77 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
78 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
79 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
80 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

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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Total Independent Hydro															
81 Cooperative	6.06	6.06	4.04	3.78	4.34	4.34	4.65	5.14	5.66	7.16	7.16	8.63	9.29	8.36	5.96
82 Federal Entities	362	358	340	307	257	172	113	128	230	435	442	719	708	407	349
83 Investor Owned Utilities	507	501	513	488	451	500	406	456	478	603	609	598	595	539	511
84 Marketer	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
85 Municipality	71.3	65.0	77.0	65.7	66.9	91.5	94.7	102	105	90.1	92.7	90.3	112	85.8	87.5
86 Public Utility District	53.3	65.2	42.3	41.3	36.6	98.5	47.4	30.6	62.9	91.5	91.5	125	152	97.2	74.0
87 Total Independent Hydro	1000	995	976	907	817	867	667	723	883	1238	1254	1577	1605	1141	1035

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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Independent Hydro															
1 American Falls Hydroelectric	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	5.84	5.84	8.70	10.8	13.0	6.45	3.86	5.84	5.84	8.70	14.5	19.9	19.6	7.07	9.88
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	24.2	21.6	16.2	26.7	23.3	8.71	6.40	6.19	13.0	29.0	29.0	29.0	29.0	16.7	19.0
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	24.5	24.3	36.1	42.8	45.6	19.7	11.4	18.1	20.1	34.9	64.3	106	90.7	30.3	41.3
21 Dexter	5.28	6.73	8.83	12.4	15.7	3.80	3.37	4.72	4.72	11.7	12.3	16.5	16.6	5.95	9.22
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	5.14	5.14	6.44	6.49	7.56	13.0	4.15	9.19	20.8	22.5	23.0	23.0	23.0	6.17	12.3
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	15.3	15.6	19.2	19.3	19.3	30.3	7.73	0.37	32.9	88.5	44.8	57.9	48.8	9.57	27.4
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 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
31 Hills Creek	6.51	6.50	25.2	22.8	26.9	4.86	3.84	4.59	5.19	27.7	31.3	35.0	35.0	13.9	17.8
32 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
33 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
34 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
35 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
36 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
37 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
38 John Boyle	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39 Lake Creek (MT)	2.00	2.00	1.38	1.47	2.00	2.02	2.08	2.39	3.03	4.50	4.50	4.50	4.50	3.68	2.79
40 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

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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
41 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
42 Lookout Point	21.3	26.8	34.5	45.2	47.3	8.78	7.79	11.5	14.7	44.8	50.5	86.7	75.0	24.2	35.7
43 Lost Creek	43.8	38.7	23.5	37.0	19.0	18.8	18.5	13.0	13.6	14.6	15.7	56.4	56.4	46.4	30.1
44 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
45 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
46 McNary Fishway	8.83	8.83	9.36	9.42	8.75	8.00	5.91	5.89	8.41	9.43	9.43	9.27	8.59	9.31	8.45
47 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
48 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
49 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
50 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
51 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
52 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
53 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
54 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
55 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
56 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
57 Powerdale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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
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 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
65 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
66 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
67 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
68 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
69 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
70 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
71 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
72 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
73 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
74 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
75 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
76 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
77 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
78 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
79 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
80 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

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Operating Year 2022 Water Year: 1937
2018 White Book Report Date: 12/1/2018 *Continued*

S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Total Independent Hydro															
81 Cooperative	6.06	6.06	4.04	3.78	4.34	4.34	4.65	5.14	5.66	7.16	7.16	8.63	9.29	8.36	5.96
82 Federal Entities	362	358	340	307	257	172	113	128	230	435	442	719	708	407	349
83 Investor Owned Utilities	507	501	504	455	412	455	406	456	478	603	609	598	595	539	501
84 Marketer	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
85 Municipality	71.3	65.0	77.0	65.7	66.9	91.5	94.7	102	105	90.1	92.7	90.3	112	85.8	87.5
86 Public Utility District	53.3	65.2	42.3	41.3	36.6	98.5	47.4	30.6	62.9	91.5	91.5	125	152	97.2	74.0
87 Total Independent Hydro	1000	995	967	874	778	822	667	723	883	1238	1254	1577	1605	1141	1024

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Regional: Independent Hydro
Operating Year 2023 Water Year: 1937
2018 White Book Report Date: 12/1/2018

S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Independent Hydro															
1 American Falls Hydroelectric	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	5.84	5.84	8.70	10.8	13.0	6.45	3.86	5.84	5.84	8.70	14.5	19.9	19.6	7.07	9.88
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	24.2	21.6	16.2	26.7	23.3	8.71	6.40	6.19	13.0	29.0	29.0	29.0	29.0	16.7	19.0
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	24.5	24.3	36.1	42.8	45.6	19.7	11.4	18.1	20.1	34.9	64.3	106	90.7	30.3	41.3
21 Dexter	5.28	6.73	8.83	12.4	15.7	3.80	3.37	4.72	4.72	11.7	12.3	16.5	16.6	5.95	9.22
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	5.14	5.14	6.44	6.49	7.56	13.0	4.15	9.19	20.8	22.5	23.0	23.0	23.0	6.17	12.3
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	15.3	15.6	19.2	19.3	19.3	30.3	7.73	0.37	32.9	88.5	44.8	57.9	48.8	9.57	27.4
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 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
31 Hills Creek	6.51	6.50	25.2	22.8	26.9	4.86	3.84	4.59	5.19	27.7	31.3	35.0	35.0	13.9	17.8
32 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
33 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
34 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
35 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
36 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
37 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
38 John Boyle	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39 Lake Creek (MT)	2.00	2.00	1.38	1.47	2.00	2.02	2.08	2.39	3.03	4.50	4.50	4.50	4.50	3.68	2.79
40 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

Regional: Independent Hydro
Operating Year 2023 Water Year: 1937
2018 White Book Report Date: 12/1/2018 *Continued*

S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
41 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
42 Lookout Point	21.3	26.8	34.5	45.2	47.3	8.78	7.79	11.5	14.7	44.8	50.5	86.7	75.0	24.2	35.7
43 Lost Creek	43.8	38.7	23.5	37.0	19.0	18.8	18.5	13.0	13.6	14.6	15.7	56.4	56.4	46.4	30.1
44 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
45 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
46 McNary Fishway	8.83	8.83	9.36	9.42	8.75	8.00	5.91	5.89	8.41	9.43	9.43	9.27	8.59	9.31	8.45
47 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
48 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
49 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
50 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
51 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
52 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
53 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
54 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
55 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
56 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
57 Powerdale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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
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 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
65 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
66 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
67 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
68 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
69 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
70 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
71 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
72 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
73 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
74 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
75 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
76 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
77 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
78 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
79 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
80 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

Regional: Independent Hydro
Operating Year 2023 Water Year: 1937
2018 White Book Report Date: 12/1/2018 *Continued*

S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Total Independent Hydro															
81 Cooperative	6.06	6.06	4.04	3.78	4.34	4.34	4.65	5.14	5.66	7.16	7.16	8.63	9.29	8.36	5.96
82 Federal Entities	362	358	340	307	257	172	113	128	230	435	442	719	708	407	349
83 Investor Owned Utilities	507	501	504	455	412	455	406	456	478	603	609	598	595	539	501
84 Marketer	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
85 Municipality	71.3	65.0	77.0	65.7	66.9	91.5	94.7	102	105	90.1	92.7	90.3	112	85.8	87.5
86 Public Utility District	53.3	65.2	42.3	41.3	36.6	98.5	47.4	30.6	62.9	91.5	91.5	125	152	97.2	74.0
87 Total Independent Hydro	1000	995	967	874	778	822	667	723	883	1238	1254	1577	1605	1141	1024

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Regional: Independent Hydro
Operating Year 2024 Water Year: 1937
2018 White Book Report Date: 12/1/2018

S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Independent Hydro															
1 American Falls Hydroelectric	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	5.84	5.84	8.70	10.8	13.0	6.45	3.86	5.84	5.84	8.70	14.5	19.9	19.6	7.07	9.86
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	24.2	21.6	16.2	26.7	23.3	8.71	6.40	6.19	13.0	29.0	29.0	29.0	29.0	16.7	18.9
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	24.5	24.3	36.1	42.8	45.6	19.7	11.4	18.1	20.1	34.9	64.3	106	90.7	30.3	41.2
21 Dexter	5.28	6.73	8.83	12.4	15.7	3.80	3.37	4.72	4.72	11.7	12.3	16.5	16.6	5.95	9.21
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	5.14	5.14	6.44	6.49	7.56	13.0	4.15	9.19	20.8	22.5	23.0	23.0	23.0	6.17	12.3
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	15.3	15.6	19.2	19.3	19.3	30.3	7.73	0.37	32.9	88.5	44.8	57.9	48.8	9.57	27.3
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 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
31 Hills Creek	6.51	6.50	25.2	22.8	26.9	4.86	3.84	4.59	5.19	27.7	31.3	35.0	35.0	13.9	17.7
32 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
33 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
34 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
35 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
36 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
37 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
38 John Boyle	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39 Lake Creek (MT)	2.00	2.00	1.38	1.47	2.00	2.02	2.08	2.39	3.03	4.50	4.50	4.50	4.50	3.68	2.79
40 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

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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
41 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
42 Lookout Point	21.3	26.8	34.5	45.2	47.3	8.78	7.79	11.5	14.7	44.8	50.5	86.7	75.0	24.2	35.6
43 Lost Creek	43.8	38.7	23.5	37.0	19.0	18.8	18.5	13.0	13.6	14.6	15.7	56.4	56.4	46.4	30.0
44 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
45 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
46 McNary Fishway	8.83	8.83	9.36	9.42	8.75	8.00	5.91	5.89	8.41	9.43	9.43	9.27	8.59	9.31	8.44
47 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
48 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
49 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
50 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
51 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
52 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
53 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
54 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
55 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
56 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
57 Powerdale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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
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 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
65 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
66 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
67 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
68 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
69 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
70 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
71 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
72 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
73 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
74 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
75 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
76 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
77 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
78 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
79 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
80 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

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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Total Independent Hydro															
81 Cooperative	6.06	6.06	4.04	3.78	4.34	4.34	4.65	5.14	5.66	7.16	7.16	8.63	9.29	8.36	5.95
82 Federal Entities	362	358	340	307	257	172	113	128	230	435	442	719	708	407	349
83 Investor Owned Utilities	507	501	504	455	412	455	406	456	478	603	609	598	595	539	500
84 Marketer	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
85 Municipality	71.3	65.0	77.0	65.7	66.9	91.5	94.7	102	105	90.1	92.7	90.3	112	85.8	87.5
86 Public Utility District	53.3	65.2	42.3	41.3	36.6	98.5	47.4	30.6	62.9	91.5	91.5	125	152	97.2	73.9
87 Total Independent Hydro	1000	995	967	874	778	822	667	723	883	1238	1254	1577	1605	1141	1023

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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Independent Hydro															
1 American Falls Hydroelectric	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	5.84	5.84	8.70	10.8	13.0	6.45	3.86	5.84	5.84	8.70	14.5	19.9	19.6	7.07	9.88
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	24.2	21.6	16.2	26.7	23.3	8.71	6.40	6.19	13.0	29.0	29.0	29.0	29.0	16.7	19.0
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	24.5	24.3	36.1	42.8	45.6	19.7	11.4	18.1	20.1	34.9	64.3	106	90.7	30.3	41.3
21 Dexter	5.28	6.73	8.83	12.4	15.7	3.80	3.37	4.72	4.72	11.7	12.3	16.5	16.6	5.95	9.22
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	5.14	5.14	6.44	6.49	7.56	13.0	4.15	9.19	20.8	22.5	23.0	23.0	23.0	6.17	12.3
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	15.3	15.6	19.2	19.3	19.3	30.3	7.73	0.37	32.9	88.5	44.8	57.9	48.8	9.57	27.4
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 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
31 Hills Creek	6.51	6.50	25.2	22.8	26.9	4.86	3.84	4.59	5.19	27.7	31.3	35.0	35.0	13.9	17.8
32 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
33 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
34 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
35 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
36 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
37 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
38 John Boyle	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39 Lake Creek (MT)	2.00	2.00	1.38	1.47	2.00	2.02	2.08	2.39	3.03	4.50	4.50	4.50	4.50	3.68	2.79
40 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

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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
41 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
42 Lookout Point	21.3	26.8	34.5	45.2	47.3	8.78	7.79	11.5	14.7	44.8	50.5	86.7	75.0	24.2	35.7
43 Lost Creek	43.8	38.7	23.5	37.0	19.0	18.8	18.5	13.0	13.6	14.6	15.7	56.4	56.4	46.4	30.1
44 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
45 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
46 McNary Fishway	8.83	8.83	9.36	9.42	8.75	8.00	5.91	5.89	8.41	9.43	9.43	9.27	8.59	9.31	8.45
47 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
48 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
49 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
50 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
51 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
52 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
53 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
54 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
55 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
56 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
57 Powerdale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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
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 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
65 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
66 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
67 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
68 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
69 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
70 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
71 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
72 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
73 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
74 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
75 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
76 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
77 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
78 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
79 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
80 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

Regional: Independent Hydro
Operating Year 2025 Water Year: 1937
2018 White Book Report Date: 12/1/2018 *Continued*

S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Total Independent Hydro															
81 Cooperative	6.06	6.06	4.04	3.78	4.34	4.34	4.65	5.14	5.66	7.16	7.16	8.63	9.29	8.36	5.96
82 Federal Entities	362	358	340	307	257	172	113	128	230	435	442	719	708	407	349
83 Investor Owned Utilities	507	501	504	455	412	455	406	456	478	603	609	598	595	539	501
84 Marketer	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
85 Municipality	71.3	65.0	77.0	65.7	66.9	91.5	94.7	102	105	90.1	92.7	90.3	112	85.8	87.5
86 Public Utility District	53.3	65.2	42.3	41.3	36.6	98.5	47.4	30.6	62.9	91.5	91.5	125	152	97.2	74.0
87 Total Independent Hydro	1000	995	967	874	778	822	667	723	883	1238	1254	1577	1605	1141	1024

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Regional: Independent Hydro
Operating Year 2026 Water Year: 1937
2018 White Book Report Date: 12/1/2018

S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Independent Hydro															
1 American Falls Hydroelectric	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	5.84	5.84	8.70	10.8	13.0	6.45	3.86	5.84	5.84	8.70	14.5	19.9	19.6	7.07	9.88
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	24.2	21.6	16.2	26.7	23.3	8.71	6.40	6.19	13.0	29.0	29.0	29.0	29.0	16.7	19.0
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	24.5	24.3	36.1	42.8	45.6	19.7	11.4	18.1	20.1	34.9	64.3	106	90.7	30.3	41.3
21 Dexter	5.28	6.73	8.83	12.4	15.7	3.80	3.37	4.72	4.72	11.7	12.3	16.5	16.6	5.95	9.22
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	5.14	5.14	6.44	6.49	7.56	13.0	4.15	9.19	20.8	22.5	23.0	23.0	23.0	6.17	12.3
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	15.3	15.6	19.2	19.3	19.3	30.3	7.73	0.37	32.9	88.5	44.8	57.9	48.8	9.57	27.4
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 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
31 Hills Creek	6.51	6.50	25.2	22.8	26.9	4.86	3.84	4.59	5.19	27.7	31.3	35.0	35.0	13.9	17.8
32 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
33 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
34 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
35 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
36 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
37 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
38 John Boyle	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39 Lake Creek (MT)	2.00	2.00	1.38	1.47	2.00	2.02	2.08	2.39	3.03	4.50	4.50	4.50	4.50	3.68	2.79
40 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

Regional: Independent Hydro
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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
41 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
42 Lookout Point	21.3	26.8	34.5	45.2	47.3	8.78	7.79	11.5	14.7	44.8	50.5	86.7	75.0	24.2	35.7
43 Lost Creek	43.8	38.7	23.5	37.0	19.0	18.8	18.5	13.0	13.6	14.6	15.7	56.4	56.4	46.4	30.1
44 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
45 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
46 McNary Fishway	8.83	8.83	9.36	9.42	8.75	8.00	5.91	5.89	8.41	9.43	9.43	9.27	8.59	9.31	8.45
47 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
48 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
49 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
50 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
51 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
52 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
53 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
54 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
55 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
56 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
57 Powerdale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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
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 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
65 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
66 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
67 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
68 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
69 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
70 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
71 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
72 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
73 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
74 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
75 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
76 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
77 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
78 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
79 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
80 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

Regional: Independent Hydro
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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Total Independent Hydro															
81 Cooperative	6.06	6.06	4.04	3.78	4.34	4.34	4.65	5.14	5.66	7.16	7.16	8.63	9.29	8.36	5.96
82 Federal Entities	362	358	340	307	257	172	113	128	230	435	442	719	708	407	349
83 Investor Owned Utilities	507	501	504	455	412	455	406	456	478	603	609	598	595	539	501
84 Marketer	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
85 Municipality	71.3	65.0	77.0	65.7	66.9	91.5	94.7	102	105	90.1	92.7	90.3	112	85.8	87.5
86 Public Utility District	53.3	65.2	42.3	41.3	36.6	98.5	47.4	30.6	62.9	91.5	91.5	125	152	97.2	74.0
87 Total Independent Hydro	1000	995	967	874	778	822	667	723	883	1238	1254	1577	1605	1141	1024

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Regional: Independent Hydro
Operating Year 2027 Water Year: 1937
2018 White Book Report Date: 12/1/2018

S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Independent Hydro															
1 American Falls Hydroelectric	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	5.84	5.84	8.70	10.8	13.0	6.45	3.86	5.84	5.84	8.70	14.5	19.9	19.6	7.07	9.88
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	24.2	21.6	16.2	26.7	23.3	8.71	6.40	6.19	13.0	29.0	29.0	29.0	29.0	16.7	19.0
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	24.5	24.3	36.1	42.8	45.6	19.7	11.4	18.1	20.1	34.9	64.3	106	90.7	30.3	41.3
21 Dexter	5.28	6.73	8.83	12.4	15.7	3.80	3.37	4.72	4.72	11.7	12.3	16.5	16.6	5.95	9.22
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	5.14	5.14	6.44	6.49	7.56	13.0	4.15	9.19	20.8	22.5	23.0	23.0	23.0	6.17	12.3
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	15.3	15.6	19.2	19.3	19.3	30.3	7.73	0.37	32.9	88.5	44.8	57.9	48.8	9.57	27.4
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 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
31 Hills Creek	6.51	6.50	25.2	22.8	26.9	4.86	3.84	4.59	5.19	27.7	31.3	35.0	35.0	13.9	17.8
32 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
33 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
34 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
35 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
36 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
37 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
38 John Boyle	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39 Lake Creek (MT)	2.00	2.00	1.38	1.47	2.00	2.02	2.08	2.39	3.03	4.50	4.50	4.50	4.50	3.68	2.79
40 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

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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
41 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
42 Lookout Point	21.3	26.8	34.5	45.2	47.3	8.78	7.79	11.5	14.7	44.8	50.5	86.7	75.0	24.2	35.7
43 Lost Creek	43.8	38.7	23.5	37.0	19.0	18.8	18.5	13.0	13.6	14.6	15.7	56.4	56.4	46.4	30.1
44 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
45 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
46 McNary Fishway	8.83	8.83	9.36	9.42	8.75	8.00	5.91	5.89	8.41	9.43	9.43	9.27	8.59	9.31	8.45
47 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
48 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
49 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
50 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
51 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
52 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
53 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
54 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
55 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
56 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
57 Powerdale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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
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 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
65 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
66 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
67 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
68 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
69 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
70 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
71 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
72 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
73 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
74 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
75 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
76 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
77 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
78 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
79 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
80 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

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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Total Independent Hydro															
81 Cooperative	6.06	6.06	4.04	3.78	4.34	4.34	4.65	5.14	5.66	7.16	7.16	8.63	9.29	8.36	5.96
82 Federal Entities	362	358	340	307	257	172	113	128	230	435	442	719	708	407	349
83 Investor Owned Utilities	507	501	504	455	412	455	406	456	478	603	609	598	595	539	501
84 Marketer	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
85 Municipality	71.3	65.0	77.0	65.7	66.9	91.5	94.7	102	105	90.1	92.7	90.3	112	85.8	87.5
86 Public Utility District	53.3	65.2	42.3	41.3	36.6	98.5	47.4	30.6	62.9	91.5	91.5	125	152	97.2	74.0
87 Total Independent Hydro	1000	995	967	874	778	822	667	723	883	1238	1254	1577	1605	1141	1024

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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Independent Hydro															
1 American Falls Hydroelectric	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	5.84	5.84	8.70	10.8	13.0	6.45	3.86	5.84	5.84	8.70	14.5	19.9	19.6	7.07	9.86
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	24.2	21.6	16.2	26.7	23.3	8.71	6.40	6.19	13.0	29.0	29.0	29.0	29.0	16.7	18.9
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	24.5	24.3	36.1	42.8	45.6	19.7	11.4	18.1	20.1	34.9	64.3	106	90.7	30.3	41.2
21 Dexter	5.28	6.73	8.83	12.4	15.7	3.80	3.37	4.72	4.72	11.7	12.3	16.5	16.6	5.95	9.21
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	5.14	5.14	6.44	6.49	7.56	13.0	4.15	9.19	20.8	22.5	23.0	23.0	23.0	6.17	12.3
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	15.3	15.6	19.2	19.3	19.3	30.3	7.73	0.37	32.9	88.5	44.8	57.9	48.8	9.57	27.3
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 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
31 Hills Creek	6.51	6.50	25.2	22.8	26.9	4.86	3.84	4.59	5.19	27.7	31.3	35.0	35.0	13.9	17.7
32 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
33 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
34 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
35 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
36 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
37 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
38 John Boyle	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39 Lake Creek (MT)	2.00	2.00	1.38	1.47	2.00	2.02	2.08	2.39	3.03	4.50	4.50	4.50	4.50	3.68	2.79
40 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

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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
41 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
42 Lookout Point	21.3	26.8	34.5	45.2	47.3	8.78	7.79	11.5	14.7	44.8	50.5	86.7	75.0	24.2	35.6
43 Lost Creek	43.8	38.7	23.5	37.0	19.0	18.8	18.5	13.0	13.6	14.6	15.7	56.4	56.4	46.4	30.0
44 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
45 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
46 McNary Fishway	8.83	8.83	9.36	9.42	8.75	8.00	5.91	5.89	8.41	9.43	9.43	9.27	8.59	9.31	8.44
47 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
48 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
49 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
50 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
51 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
52 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
53 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
54 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
55 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
56 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
57 Powerdale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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
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 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
65 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
66 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
67 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
68 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
69 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
70 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
71 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
72 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
73 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
74 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
75 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
76 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
77 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
78 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
79 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
80 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

Regional: Independent Hydro
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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Total Independent Hydro															
81 Cooperative	6.06	6.06	4.04	3.78	4.34	4.34	4.65	5.14	5.66	7.16	7.16	8.63	9.29	8.36	5.95
82 Federal Entities	362	358	340	307	257	172	113	128	230	435	442	719	708	407	349
83 Investor Owned Utilities	507	501	504	455	412	455	406	456	478	603	609	598	595	539	500
84 Marketer	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
85 Municipality	71.3	65.0	77.0	65.7	66.9	91.5	94.7	102	105	90.1	92.7	90.3	112	85.8	87.5
86 Public Utility District	53.3	65.2	42.3	41.3	36.6	98.5	47.4	30.6	62.9	91.5	91.5	125	152	97.2	73.9
87 Total Independent Hydro	1000	995	967	874	778	822	667	723	883	1238	1254	1577	1605	1141	1023

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Regional: Independent Hydro
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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Independent Hydro															
1 American Falls Hydroelectric	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	5.84	5.84	8.70	10.8	13.0	6.45	3.86	5.84	5.84	8.70	14.5	19.9	19.6	7.07	9.88
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	24.2	21.6	16.2	26.7	23.3	8.71	6.40	6.19	13.0	29.0	29.0	29.0	29.0	16.7	19.0
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	24.5	24.3	36.1	42.8	45.6	19.7	11.4	18.1	20.1	34.9	64.3	106	90.7	30.3	41.3
21 Dexter	5.28	6.73	8.83	12.4	15.7	3.80	3.37	4.72	4.72	11.7	12.3	16.5	16.6	5.95	9.22
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	5.14	5.14	6.44	6.49	7.56	13.0	4.15	9.19	20.8	22.5	23.0	23.0	23.0	6.17	12.3
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	15.3	15.6	19.2	19.3	19.3	30.3	7.73	0.37	32.9	88.5	44.8	57.9	48.8	9.57	27.4
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 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
31 Hills Creek	6.51	6.50	25.2	22.8	26.9	4.86	3.84	4.59	5.19	27.7	31.3	35.0	35.0	13.9	17.8
32 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
33 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
34 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
35 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
36 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
37 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
38 John Boyle	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39 Lake Creek (MT)	2.00	2.00	1.38	1.47	2.00	2.02	2.08	2.39	3.03	4.50	4.50	4.50	4.50	3.68	2.79
40 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

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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
41 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
42 Lookout Point	21.3	26.8	34.5	45.2	47.3	8.78	7.79	11.5	14.7	44.8	50.5	86.7	75.0	24.2	35.7
43 Lost Creek	43.8	38.7	23.5	37.0	19.0	18.8	18.5	13.0	13.6	14.6	15.7	56.4	56.4	46.4	30.1
44 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
45 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
46 McNary Fishway	8.83	8.83	9.36	9.42	8.75	8.00	5.91	5.89	8.41	9.43	9.43	9.27	8.59	9.31	8.45
47 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
48 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
49 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
50 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
51 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
52 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
53 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
54 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
55 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
56 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
57 Powerdale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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
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 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
65 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
66 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
67 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
68 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
69 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
70 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
71 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
72 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
73 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
74 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
75 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
76 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
77 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
78 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
79 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
80 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

Regional: Independent Hydro
Operating Year 2029 Water Year: 1937
2018 White Book Report Date: 12/1/2018 *Continued*

S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Total Independent Hydro															
81 Cooperative	6.06	6.06	4.04	3.78	4.34	4.34	4.65	5.14	5.66	7.16	7.16	8.63	9.29	8.36	5.96
82 Federal Entities	362	358	340	307	257	172	113	128	230	435	442	719	708	407	349
83 Investor Owned Utilities	507	501	504	455	412	455	406	456	478	603	609	598	595	539	501
84 Marketer	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
85 Municipality	71.3	65.0	77.0	65.7	66.9	91.5	94.7	102	105	90.1	92.7	90.3	112	85.8	87.5
86 Public Utility District	53.3	65.2	42.3	41.3	36.6	98.5	47.4	30.6	62.9	91.5	91.5	125	152	97.2	74.0
87 Total Independent Hydro	1000	995	967	874	778	822	667	723	883	1238	1254	1577	1605	1141	1024

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Exhibit 32
Regional Small Hydro

Monthly Energy
Operating Year 2020 to 2029
Using 1937-Water Conditions

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Regional: Small Hydro
Operating Year 2020 Water Year: 1937
2018 White Book Report Date: 12/1/2018

S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Small Hydro															
1 Albany-Millersburg Hydroelectric	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 Biqq'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	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
13 Birch Creek (Gooding, ID)	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
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 Canyon	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 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
18 Briqqs 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
19 Briqqs 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
20 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
21 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
22 Burr & Bouchard	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 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
24 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
25 Calligan 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
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 C-Drop Hydro	1.09	0.78	0.10	0	0	0	0	0	0	0.53	0.53	1.09	1.09	1.09	0.40
31 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
32 Central Oregon Siphon	1.99	1.99	2.20	2.25	2.73	3.17	3.60	3.52	3.81	3.56	3.56	3.60	3.57	2.75	3.06
33 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
34 Chester Hydroelectric Plant	0.25	0.25	0.25	0.12	0.32	0.70	0.52	0.59	0.52	0.74	0.74	1.00	1.06	0.40	0.54
35 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
36 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
37 Cornelius	0	0	0	0	0	0.02	0.01	0.01	0.01	0	0	0	0	0	0
38 Cowiche	0.39	0.39	0.28	0.30	0.37	0.42	0.45	0.42	0.45	0.49	0.49	0.54	0.56	0.48	0.43
39 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
40 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

Regional: Small Hydro
Operating Year 2020 Water Year: 1937
2018 White Book Report Date: 12/1/2018 *Continued*

S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
41 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
42 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
43 D. Wiggins	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44 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
45 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
46 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
47 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
48 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
49 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
50 Ebey Hill (Kevin Duncan)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51 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
52 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
53 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
54 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
55 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
56 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
57 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
58 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
59 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
60 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
61 Flying W	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
62 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
63 Foray	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64 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
65 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
66 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
67 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
68 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
69 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
70 Hancock 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
71 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
72 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
73 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
74 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
75 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
76 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
77 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
78 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
79 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
80 Juniper Ridge Hydro	0.89	0.89	0.97	1.01	1.23	1.42	1.78	1.82	2.01	1.80	1.80	1.75	1.59	1.35	1.47
81 Kasel-Witherspoon	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

Regional: Small Hydro
Operating Year 2020 Water Year: 1937
2018 White Book Report Date: 12/1/2018 *Continued*

S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
82 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
83 Koma Kulshan	4.36	4.36	3.08	3.35	4.09	4.68	4.92	4.67	4.92	5.46	5.46	6.00	6.38	5.43	4.78
84 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
85 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
86 Lacombe	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
87 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
88 Lake Osweego	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
89 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
90 Le Moyne	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
91 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
92 Lilliwaup Falls	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69
93 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
94 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
95 Little Wood River Ranch	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
96 Little Wood River Reservoir	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
97 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
98 Low Line Midway	2.00	2.00	0	0	0	0	0	0	0	0	0	0	2.00	2.00	0.50
99 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
100 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
101 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
102 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
103 Macks Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
104 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
105 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
106 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
107 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
108 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
109 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
110 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
111 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
112 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
113 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
114 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
115 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
116 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
117 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
118 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
119 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
120 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
121 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
122 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

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123 North Gooding Main	1.30	1.30	1.30	1.30	0	0	0	0	0	0	1.30	1.30	1.30	1.30	0.71
124 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
125 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
126 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
127 Orchard Avenue	0.33	0.33	0.23	0.25	0.31	0.35	0.37	0.35	0.37	0.41	0.41	0.44	0.47	0.40	0.36
128 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
129 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
130 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
131 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
132 Phillips Ranch	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
133 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
134 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
135 Poderosa	0.63	0.63	0.47	0.16	0.05	0.05	0.05	0.05	0.05	0.17	0.17	0.45	0.65	0.63	0.28
136 Port Townsend Mill	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
137 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
138 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
139 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
140 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
141 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
142 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
143 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
144 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
145 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
146 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
147 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
148 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
149 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
150 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
151 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
152 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
153 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
154 Skookumchuck	0.42	0.42	0.28	0.30	0.36	0.42	0.50	0.48	0.52	0.57	0.57	0.60	0.60	0.55	0.47
155 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
156 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
157 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
158 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
159 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
160 Spring Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
161 Stayton Hydro	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
162 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
163 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

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164 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
165 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
166 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
167 Syqitowicz 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
168 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
169 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
170 Tieton Dam (Yakima)	0.65	0.65	0.49	0.14	0	0	0	0	0	0.02	0.02	0.58	0.32	0.25	0.21
171 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
172 Twin Falls (WA)	8.39	8.39	5.88	6.35	7.75	8.92	9.26	8.75	9.27	10.4	10.4	11.5	12.2	10.5	9.09
173 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
174 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
175 Walla Walla	1.32	1.32	0.93	1.01	1.23	1.41	1.47	1.39	1.45	1.62	1.62	1.78	1.89	1.61	1.42
176 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
177 Watson Hydro	0.32	0.25	0.32	0.25	0.27	0	0	0	0.58	0.30	0.60	0.71	0.71	0.54	0.34
178 Weeks Falls	1.43	1.43	1.00	1.08	1.32	1.51	1.58	1.49	1.58	1.78	1.78	1.97	2.10	1.80	1.55
179 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
180 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
181 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
182 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
183 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
184 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
185 Yakama Drop 2	0.23	0.23	0.16	0.18	0.21	0.24	0.27	0.25	0.27	0.31	0.31	0.36	0.39	0.33	0.27
186 Yakama Drop 3	0.11	0.11	0.07	0.08	0.09	0.10	0.13	0.13	0.13	0.14	0.14	0.17	0.20	0.17	0.13
187 Youngs Creek	0.07	0.07	0.53	1.65	3.29	2.73	2.92	3.14	4.52	4.65	4.65	2.49	0.56	0.17	2.22
188 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															
189 Cooperative	1.80	1.80	1.41	1.36	1.78	2.33	2.22	2.21	2.19	2.59	2.59	3.00	3.17	2.24	2.19
190 Direct Service Industry	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
191 Federal Entities	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
192 Investor Owned Utilities	166	164	135	109	113	111	109	116	135	173	174	209	209	187	148
193 Marketer	0.65	0.65	0.49	0.14	0	0	0	0	0	0.02	0.02	0.58	0.32	0.25	0.21
194 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
195 Public Utility District	19.0	19.0	14.1	12.7	9.66	9.14	9.39	9.58	12.2	21.9	21.9	22.8	22.0	21.3	15.3
196 Total Small Hydro	328	324	243	163	130	129	127	135	165	284	285	406	425	408	245

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Small Hydro															
1 Albany-Millersburg Hydroelectric	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 Biqq'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	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
13 Birch Creek (Gooding, ID)	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
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 Canyon	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 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
18 Briqqs 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
19 Briqqs 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
20 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
21 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
22 Burr & Bouchard	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 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
24 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
25 Calligan 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
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 C-Drop Hydro	1.09	0.78	0.10	0	0	0	0	0	0	0.53	0.53	1.09	1.09	1.09	0.41
31 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
32 Central Oregon Siphon	1.99	1.99	2.20	2.25	2.73	3.17	3.60	3.52	3.81	3.56	3.56	3.60	3.57	2.75	3.06
33 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
34 Chester Hydroelectric Plant	0.25	0.25	0.25	0.12	0.32	0.70	0.52	0.59	0.52	0.74	0.74	1.00	1.06	0.40	0.54
35 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
36 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
37 Cornelius	0	0	0	0	0	0.02	0.01	0.01	0.01	0	0	0	0	0	0
38 Cowiche	0.39	0.39	0.28	0.30	0.37	0.42	0.45	0.42	0.45	0.49	0.49	0.54	0.56	0.48	0.43
39 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
40 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

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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
41 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
42 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
43 D. Wiggins	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44 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
45 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
46 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
47 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
48 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
49 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
50 Ebey Hill (Kevin Duncan)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51 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
52 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
53 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
54 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
55 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
56 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
57 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
58 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
59 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
60 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
61 Flying W	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
62 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
63 Foray	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64 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
65 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
66 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
67 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
68 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
69 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
70 Hancock 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
71 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
72 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
73 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
74 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
75 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
76 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
77 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
78 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
79 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
80 Juniper Ridge Hydro	0.89	0.89	0.97	1.01	1.23	1.42	1.78	1.82	2.01	1.80	1.80	1.75	1.59	1.35	1.47
81 Kasel-Witherspoon	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

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82 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
83 Koma Kulshan	4.36	4.36	3.08	3.35	4.09	4.68	4.92	4.67	4.92	5.46	5.46	6.00	6.38	5.43	4.78
84 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
85 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
86 Lacombe	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
87 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
88 Lake Osweego	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
89 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
90 Le Moyne	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
91 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
92 Lilliwaup Falls	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69
93 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
94 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
95 Little Wood River Ranch	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
96 Little Wood River Reservoir	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
97 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
98 Low Line Midway	2.00	2.00	0	0	0	0	0	0	0	0	0	0	2.00	2.00	0.50
99 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
100 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
101 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
102 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
103 Macks Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
104 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
105 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
106 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
107 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
108 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
109 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
110 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
111 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
112 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
113 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
114 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
115 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
116 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
117 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
118 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
119 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
120 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
121 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
122 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

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123 North Gooding Main	1.30	1.30	1.30	1.30	0	0	0	0	0	0	1.30	1.30	1.30	1.30	0.71
124 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
125 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
126 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
127 Orchard Avenue	0.33	0.33	0.23	0.25	0.31	0.35	0.37	0.35	0.37	0.41	0.41	0.44	0.47	0.40	0.36
128 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
129 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
130 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
131 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
132 Phillips Ranch	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
133 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
134 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
135 Poderosa	0.63	0.63	0.47	0.16	0.05	0.05	0.05	0.05	0.05	0.17	0.17	0.45	0.65	0.63	0.29
136 Port Townsend Mill	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
137 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
138 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
139 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
140 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
141 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
142 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
143 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
144 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
145 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
146 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
147 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
148 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
149 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
150 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
151 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
152 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
153 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
154 Skookumchuck	0.42	0.42	0.28	0.30	0.36	0.42	0.50	0.48	0.52	0.57	0.57	0.60	0.60	0.55	0.47
155 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
156 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
157 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
158 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
159 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
160 Spring Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
161 Stayton Hydro	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
162 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
163 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

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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
164 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
165 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
166 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
167 Syqitowicz 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
168 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
169 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
170 Tieton Dam (Yakima)	0.65	0.65	0.49	0.14	0	0	0	0	0	0.02	0.02	0.58	0.32	0.25	0.21
171 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
172 Twin Falls (WA)	8.39	8.39	5.88	6.35	7.75	8.92	9.26	8.75	9.27	10.4	10.4	11.5	12.2	10.5	9.10
173 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
174 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
175 Walla Walla	1.32	1.32	0.93	1.01	1.23	1.41	1.47	1.39	1.45	1.62	1.62	1.78	1.89	1.61	1.42
176 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
177 Watson Hydro	0.32	0.25	0.32	0.25	0.27	0	0	0	0.58	0.30	0.60	0.71	0.71	0.54	0.34
178 Weeks Falls	1.43	1.43	1.00	1.08	1.32	1.51	1.58	1.49	1.58	1.78	1.78	1.97	2.10	1.80	1.55
179 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
180 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
181 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
182 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
183 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
184 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
185 Yakama Drop 2	0.23	0.23	0.16	0.18	0.21	0.24	0.27	0.25	0.27	0.31	0.31	0.36	0.39	0.33	0.27
186 Yakama Drop 3	0.11	0.11	0.07	0.08	0.09	0.10	0.13	0.13	0.13	0.14	0.14	0.17	0.20	0.17	0.13
187 Youngs Creek	0.07	0.07	0.53	1.65	3.29	2.73	2.92	3.14	4.52	4.65	4.65	2.49	0.56	0.17	2.22
188 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															
189 Cooperative	1.80	1.80	1.41	1.36	1.78	2.33	2.22	2.21	2.19	2.59	2.59	3.00	3.17	2.24	2.19
190 Direct Service Industry	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
191 Federal Entities	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
192 Investor Owned Utilities	166	165	139	111	114	111	109	116	135	173	174	209	209	187	148
193 Marketer	0.65	0.65	0.49	0.14	0	0	0	0	0	0.02	0.02	0.58	0.32	0.25	0.21
194 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
195 Public Utility District	19.0	19.0	14.1	12.7	9.66	9.14	9.39	9.58	12.2	21.9	21.9	22.8	22.0	21.3	15.3
196 Total Small Hydro	328	326	247	165	131	129	127	135	165	284	285	406	425	408	246

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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Small Hydro															
1 Albany-Millersburg Hydroelectric	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 Biqq'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	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
13 Birch Creek (Gooding, ID)	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
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 Canyon	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 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
18 Briqqs 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
19 Briqqs 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
20 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
21 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
22 Burr & Bouchard	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 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
24 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
25 Calligan 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
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 C-Drop Hydro	1.09	0.78	0.10	0	0	0	0	0	0	0.53	0.53	1.09	1.09	1.09	0.41
31 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
32 Central Oregon Siphon	1.99	1.99	2.20	2.25	2.73	3.17	3.60	3.52	3.81	3.56	3.56	3.60	3.57	2.75	3.06
33 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
34 Chester Hydroelectric Plant	0.25	0.25	0.25	0.12	0.32	0.70	0.52	0.59	0.52	0.74	0.74	1.00	1.06	0.40	0.54
35 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
36 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
37 Cornelius	0	0	0	0	0	0.02	0.01	0.01	0.01	0	0	0	0	0	0
38 Cowiche	0.39	0.39	0.28	0.30	0.37	0.42	0.45	0.42	0.45	0.49	0.49	0.54	0.56	0.48	0.43
39 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
40 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

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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
41 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
42 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
43 D. Wiggins	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44 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
45 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
46 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
47 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
48 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
49 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
50 Ebey Hill (Kevin Duncan)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51 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
52 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
53 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
54 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
55 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
56 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
57 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
58 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
59 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
60 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
61 Flying W	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
62 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
63 Foray	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64 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
65 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
66 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
67 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
68 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
69 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
70 Hancock 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
71 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
72 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
73 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
74 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
75 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
76 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
77 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
78 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
79 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
80 Juniper Ridge Hydro	0.89	0.89	0.97	1.01	1.23	1.42	1.78	1.82	2.01	1.80	1.80	1.75	1.59	1.35	1.47
81 Kasel-Witherspoon	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

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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
82 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
83 Koma Kulshan	4.36	4.36	3.08	3.35	4.09	4.68	4.92	4.67	4.92	5.46	5.46	6.00	6.38	5.43	4.78
84 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
85 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
86 Lacombe	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
87 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
88 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
89 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
90 Le Moyne	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
91 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
92 Lilliwaup Falls	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69
93 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
94 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
95 Little Wood River Ranch	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
96 Little Wood River Reservoir	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
97 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
98 Low Line Midway	2.00	2.00	0	0	0	0	0	0	0	0	0	0	2.00	2.00	0.50
99 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
100 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
101 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
102 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
103 Macks Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
104 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
105 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
106 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
107 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
108 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
109 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
110 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
111 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
112 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
113 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
114 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
115 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
116 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
117 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
118 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
119 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
120 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
121 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
122 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

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123 North Gooding Main	1.30	1.30	1.30	1.30	0	0	0	0	0	0	1.30	1.30	1.30	1.30	0.71
124 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
125 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
126 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
127 Orchard Avenue	0.33	0.33	0.23	0.25	0.31	0.35	0.37	0.35	0.37	0.41	0.41	0.44	0.47	0.40	0.36
128 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
129 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
130 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
131 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
132 Phillips Ranch	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
133 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
134 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
135 Poderosa	0.63	0.63	0.47	0.16	0.05	0.05	0.05	0.05	0.05	0.17	0.17	0.45	0.65	0.63	0.29
136 Port Townsend Mill	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
137 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
138 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
139 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
140 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
141 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
142 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
143 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
144 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
145 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
146 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
147 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
148 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
149 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
150 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
151 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
152 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
153 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
154 Skookumchuck	0.42	0.42	0.28	0.30	0.36	0.42	0.50	0.48	0.52	0.57	0.57	0.60	0.60	0.55	0.47
155 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
156 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
157 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
158 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
159 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
160 Spring Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
161 Stayton Hydro	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
162 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
163 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

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164 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
165 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
166 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
167 Syqitowicz 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
168 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
169 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
170 Tieton Dam (Yakima)	0.65	0.65	0.49	0.14	0	0	0	0	0	0.02	0.02	0.58	0.32	0.25	0.21
171 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
172 Twin Falls (WA)	8.39	8.39	5.88	6.35	7.75	8.92	9.26	8.75	9.27	10.4	10.4	11.5	12.2	10.5	9.10
173 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
174 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
175 Walla Walla	1.32	1.32	0.93	1.01	1.23	1.41	1.47	1.39	1.45	1.62	1.62	1.78	1.89	1.61	1.42
176 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
177 Watson Hydro	0.32	0.25	0.32	0.25	0.27	0	0	0	0.58	0.30	0.60	0.71	0.71	0.54	0.34
178 Weeks Falls	1.43	1.43	1.00	1.08	1.32	1.51	1.58	1.49	1.58	1.78	1.78	1.97	2.10	1.80	1.55
179 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
180 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
181 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
182 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
183 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
184 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
185 Yakama Drop 2	0.23	0.23	0.16	0.18	0.21	0.24	0.27	0.25	0.27	0.31	0.31	0.36	0.39	0.33	0.27
186 Yakama Drop 3	0.11	0.11	0.07	0.08	0.09	0.10	0.13	0.13	0.13	0.14	0.14	0.17	0.20	0.17	0.13
187 Youngs Creek	0.07	0.07	0.53	1.65	3.29	2.73	2.92	3.14	4.52	4.65	4.65	2.49	0.56	0.17	2.22
188 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															
189 Cooperative	1.80	1.80	1.41	1.36	1.78	2.33	2.22	2.21	2.19	2.59	2.59	3.00	3.17	2.24	2.19
190 Direct Service Industry	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
191 Federal Entities	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
192 Investor Owned Utilities	166	165	139	111	114	111	109	116	135	173	174	209	209	187	148
193 Marketer	0.65	0.65	0.49	0.14	0	0	0	0	0	0.02	0.02	0.58	0.32	0.25	0.21
194 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
195 Public Utility District	19.0	19.0	14.1	12.7	9.66	9.14	9.39	9.58	12.2	21.9	21.9	22.8	22.0	21.3	15.3
196 Total Small Hydro	328	326	247	165	131	129	127	135	165	284	285	406	425	408	246

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Small Hydro															
1 Albany-Millersburg Hydroelectric	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 Biqq'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	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
13 Birch Creek (Gooding, ID)	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
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 Canyon	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 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
18 Briqqs 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
19 Briqqs 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
20 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
21 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
22 Burr & Bouchard	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 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
24 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
25 Calligan 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
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 C-Drop Hydro	1.09	0.78	0.10	0	0	0	0	0	0	0.53	0.53	1.09	1.09	1.09	0.41
31 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
32 Central Oregon Siphon	1.99	1.99	2.20	2.25	2.73	3.17	3.60	3.52	3.81	3.56	3.56	3.60	3.57	2.75	3.06
33 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
34 Chester Hydroelectric Plant	0.25	0.25	0.25	0.12	0.32	0.70	0.52	0.59	0.52	0.74	0.74	1.00	1.06	0.40	0.54
35 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
36 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
37 Cornelius	0	0	0	0	0	0.02	0.01	0.01	0.01	0	0	0	0	0	0
38 Cowiche	0.39	0.39	0.28	0.30	0.37	0.42	0.45	0.42	0.45	0.49	0.49	0.54	0.56	0.48	0.43
39 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
40 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

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41 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
42 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
43 D. Wiggins	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44 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
45 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
46 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
47 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
48 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
49 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
50 Ebey Hill (Kevin Duncan)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51 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
52 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
53 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
54 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
55 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
56 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
57 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
58 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
59 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
60 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
61 Flying W	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
62 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
63 Foray	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64 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
65 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
66 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
67 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
68 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
69 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
70 Hancock 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
71 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
72 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
73 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
74 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
75 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
76 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
77 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
78 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
79 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
80 Juniper Ridge Hydro	0.89	0.89	0.97	1.01	1.23	1.42	1.78	1.82	2.01	1.80	1.80	1.75	1.59	1.35	1.47
81 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

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82 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
83 Koma Kulshan	4.36	4.36	3.08	3.35	4.09	4.68	4.92	4.67	4.92	5.46	5.46	6.00	6.38	5.43	4.78
84 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
85 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
86 Lacombe	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
87 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
88 Lake Osweego	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
89 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
90 Le Moyne	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
91 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
92 Lilliwaup Falls	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69
93 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
94 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
95 Little Wood River Ranch	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
96 Little Wood River Reservoir	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
97 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
98 Low Line Midway	2.00	2.00	0	0	0	0	0	0	0	0	0	0	2.00	2.00	0.50
99 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
100 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
101 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
102 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
103 Macks Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
104 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
105 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
106 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
107 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
108 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
109 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
110 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
111 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
112 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
113 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
114 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
115 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
116 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
117 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
118 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
119 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
120 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
121 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
122 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

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123 North Gooding Main	1.30	1.30	1.30	1.30	0	0	0	0	0	0	1.30	1.30	1.30	1.30	0.71
124 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
125 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
126 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
127 Orchard Avenue	0.33	0.33	0.23	0.25	0.31	0.35	0.37	0.35	0.37	0.41	0.41	0.44	0.47	0.40	0.36
128 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
129 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
130 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
131 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
132 Phillips Ranch	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
133 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
134 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
135 Poderosa	0.63	0.63	0.47	0.16	0.05	0.05	0.05	0.05	0.05	0.17	0.17	0.45	0.65	0.63	0.29
136 Port Townsend Mill	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
137 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
138 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
139 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
140 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
141 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
142 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
143 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
144 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
145 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
146 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
147 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
148 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
149 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
150 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
151 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
152 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
153 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
154 Skookumchuck	0.42	0.42	0.28	0.30	0.36	0.42	0.50	0.48	0.52	0.57	0.57	0.60	0.60	0.55	0.47
155 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
156 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
157 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
158 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
159 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
160 Spring Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
161 Stayton Hydro	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
162 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
163 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

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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
164 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
165 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
166 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
167 Syqitowicz 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
168 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
169 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
170 Tieton Dam (Yakima)	0.65	0.65	0.49	0.14	0	0	0	0	0	0.02	0.02	0.58	0.32	0.25	0.21
171 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
172 Twin Falls (WA)	8.39	8.39	5.88	6.35	7.75	8.92	9.26	8.75	9.27	10.4	10.4	11.5	12.2	10.5	9.10
173 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
174 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
175 Walla Walla	1.32	1.32	0.93	1.01	1.23	1.41	1.47	1.39	1.45	1.62	1.62	1.78	1.89	1.61	1.42
176 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
177 Watson Hydro	0.32	0.25	0.32	0.25	0.27	0	0	0	0.58	0.30	0.60	0.71	0.71	0.54	0.34
178 Weeks Falls	1.43	1.43	1.00	1.08	1.32	1.51	1.58	1.49	1.58	1.78	1.78	1.97	2.10	1.80	1.55
179 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
180 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
181 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
182 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
183 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
184 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
185 Yakama Drop 2	0.23	0.23	0.16	0.18	0.21	0.24	0.27	0.25	0.27	0.31	0.31	0.36	0.39	0.33	0.27
186 Yakama Drop 3	0.11	0.11	0.07	0.08	0.09	0.10	0.13	0.13	0.13	0.14	0.14	0.17	0.20	0.17	0.13
187 Youngs Creek	0.07	0.07	0.53	1.65	3.29	2.73	2.92	3.14	4.52	4.65	4.65	2.49	0.56	0.17	2.22
188 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															
189 Cooperative	1.80	1.80	1.41	1.36	1.78	2.33	2.22	2.21	2.19	2.59	2.59	3.00	3.17	2.24	2.19
190 Direct Service Industry	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
191 Federal Entities	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
192 Investor Owned Utilities	166	165	139	111	114	111	109	116	135	173	174	209	209	187	148
193 Marketer	0.65	0.65	0.49	0.14	0	0	0	0	0	0.02	0.02	0.58	0.32	0.25	0.21
194 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
195 Public Utility District	19.0	19.0	14.1	12.7	9.66	9.14	9.39	9.58	12.2	21.9	21.9	22.8	22.0	21.3	15.3
196 Total Small Hydro	328	326	247	165	131	129	127	135	165	284	285	406	425	408	246

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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Small Hydro															
1 Albany-Millersburg Hydroelectric	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 Biqq'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	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
13 Birch Creek (Gooding, ID)	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
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 Canyon	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 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
18 Briqqs 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
19 Briqqs 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
20 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
21 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
22 Burr & Bouchard	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 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
24 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
25 Calligan 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
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 C-Drop Hydro	1.09	0.78	0.10	0	0	0	0	0	0	0.53	0.53	1.09	1.09	1.09	0.40
31 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
32 Central Oregon Siphon	1.99	1.99	2.20	2.25	2.73	3.17	3.60	3.52	3.81	3.56	3.56	3.60	3.57	2.75	3.06
33 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
34 Chester Hydroelectric Plant	0.25	0.25	0.25	0.12	0.32	0.70	0.52	0.59	0.52	0.74	0.74	1.00	1.06	0.40	0.54
35 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
36 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
37 Cornelius	0	0	0	0	0	0.02	0.01	0.01	0.01	0	0	0	0	0	0
38 Cowiche	0.39	0.39	0.28	0.30	0.37	0.42	0.45	0.42	0.45	0.49	0.49	0.54	0.56	0.48	0.43
39 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
40 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

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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
41 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
42 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
43 D. Wiggins	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44 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
45 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
46 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
47 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
48 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
49 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
50 Ebey Hill (Kevin Duncan)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51 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
52 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
53 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
54 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
55 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
56 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
57 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
58 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
59 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
60 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
61 Flying W	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
62 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
63 Foray	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64 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
65 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
66 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
67 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
68 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
69 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
70 Hancock 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
71 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
72 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
73 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
74 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
75 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
76 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
77 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
78 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
79 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
80 Juniper Ridge Hydro	0.89	0.89	0.97	1.01	1.23	1.42	1.78	1.82	2.01	1.80	1.80	1.75	1.59	1.35	1.47
81 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

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82 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
83 Koma Kulshan	4.36	4.36	3.08	3.35	4.09	4.68	4.92	4.67	4.92	5.46	5.46	6.00	6.38	5.43	4.78
84 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
85 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
86 Lacombe	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
87 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
88 Lake Osweego	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
89 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
90 Le Moyne	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
91 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
92 Lilliwaup Falls	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69
93 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
94 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
95 Little Wood River Ranch	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
96 Little Wood River Reservoir	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
97 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
98 Low Line Midway	2.00	2.00	0	0	0	0	0	0	0	0	0	0	2.00	2.00	0.50
99 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
100 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
101 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
102 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
103 Macks Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
104 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
105 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
106 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
107 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
108 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
109 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
110 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
111 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
112 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
113 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
114 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
115 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
116 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
117 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
118 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
119 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
120 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
121 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
122 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

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123 North Gooding Main	1.30	1.30	1.30	1.30	0	0	0	0	0	0	1.30	1.30	1.30	1.30	0.71
124 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
125 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
126 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
127 Orchard Avenue	0.33	0.33	0.23	0.25	0.31	0.35	0.37	0.35	0.37	0.41	0.41	0.44	0.47	0.40	0.36
128 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
129 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
130 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
131 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
132 Phillips Ranch	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
133 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
134 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
135 Poderosa	0.63	0.63	0.47	0.16	0.05	0.05	0.05	0.05	0.05	0.17	0.17	0.45	0.65	0.63	0.28
136 Port Townsend Mill	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
137 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
138 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
139 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
140 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
141 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
142 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
143 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
144 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
145 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
146 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
147 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
148 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
149 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
150 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
151 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
152 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
153 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
154 Skookumchuck	0.42	0.42	0.28	0.30	0.36	0.42	0.50	0.48	0.52	0.57	0.57	0.60	0.60	0.55	0.47
155 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
156 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
157 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
158 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
159 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
160 Spring Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
161 Stayton Hydro	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
162 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
163 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

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164 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
165 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
166 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
167 Syqitowicz 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
168 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
169 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
170 Tieton Dam (Yakima)	0.65	0.65	0.49	0.14	0	0	0	0	0	0.02	0.02	0.58	0.32	0.25	0.21
171 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
172 Twin Falls (WA)	8.39	8.39	5.88	6.35	7.75	8.92	9.26	8.75	9.27	10.4	10.4	11.5	12.2	10.5	9.09
173 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
174 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
175 Walla Walla	1.32	1.32	0.93	1.01	1.23	1.41	1.47	1.39	1.45	1.62	1.62	1.78	1.89	1.61	1.42
176 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
177 Watson Hydro	0.32	0.25	0.32	0.25	0.27	0	0	0	0.58	0.30	0.60	0.71	0.71	0.54	0.34
178 Weeks Falls	1.43	1.43	1.00	1.08	1.32	1.51	1.58	1.49	1.58	1.78	1.78	1.97	2.10	1.80	1.55
179 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
180 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
181 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
182 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
183 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
184 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
185 Yakama Drop 2	0.23	0.23	0.16	0.18	0.21	0.24	0.27	0.25	0.27	0.31	0.31	0.36	0.39	0.33	0.27
186 Yakama Drop 3	0.11	0.11	0.07	0.08	0.09	0.10	0.13	0.13	0.13	0.14	0.14	0.17	0.20	0.17	0.13
187 Youngs Creek	0.07	0.07	0.53	1.65	3.29	2.73	2.92	3.14	4.52	4.65	4.65	2.49	0.56	0.17	2.22
188 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															
189 Cooperative	1.80	1.80	1.41	1.36	1.78	2.33	2.22	2.21	2.19	2.59	2.59	3.00	3.17	2.24	2.19
190 Direct Service Industry	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
191 Federal Entities	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
192 Investor Owned Utilities	166	165	139	111	114	111	109	116	135	173	174	209	209	187	148
193 Marketer	0.65	0.65	0.49	0.14	0	0	0	0	0	0.02	0.02	0.58	0.32	0.25	0.21
194 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
195 Public Utility District	19.0	19.0	14.1	12.7	9.66	9.14	9.39	9.58	12.2	21.9	21.9	22.8	22.0	21.3	15.3
196 Total Small Hydro	328	326	247	165	131	129	127	135	165	284	285	406	425	408	246

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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Small Hydro															
1 Albany-Millersburg Hydroelectric	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 Biqq'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	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
13 Birch Creek (Gooding, ID)	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
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 Canyon	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 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
18 Briqqs 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
19 Briqqs 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
20 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
21 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
22 Burr & Bouchard	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 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
24 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
25 Calligan 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
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 C-Drop Hydro	1.09	0.78	0.10	0	0	0	0	0	0	0.53	0.53	1.09	1.09	1.09	0.41
31 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
32 Central Oregon Siphon	1.99	1.99	2.20	2.25	2.73	3.17	3.60	3.52	3.81	3.56	3.56	3.60	3.57	2.75	3.06
33 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
34 Chester Hydroelectric Plant	0.25	0.25	0.25	0.12	0.32	0.70	0.52	0.59	0.52	0.74	0.74	1.00	1.06	0.40	0.54
35 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
36 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
37 Cornelius	0	0	0	0	0	0.02	0.01	0.01	0.01	0	0	0	0	0	0
38 Cowiche	0.39	0.39	0.28	0.30	0.37	0.42	0.45	0.42	0.45	0.49	0.49	0.54	0.56	0.48	0.43
39 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
40 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

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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
41 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
42 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
43 D. Wiggins	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44 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
45 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
46 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
47 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
48 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
49 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
50 Ebey Hill (Kevin Duncan)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51 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
52 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
53 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
54 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
55 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
56 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
57 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
58 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
59 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
60 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
61 Flying W	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
62 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
63 Foray	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64 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
65 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
66 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
67 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
68 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
69 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
70 Hancock 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
71 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
72 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
73 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
74 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
75 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
76 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
77 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
78 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
79 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
80 Juniper Ridge Hydro	0.89	0.89	0.97	1.01	1.23	1.42	1.78	1.82	2.01	1.80	1.80	1.75	1.59	1.35	1.47
81 Kasel-Witherspoon	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

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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
82 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
83 Koma Kulshan	4.36	4.36	3.08	3.35	4.09	4.68	4.92	4.67	4.92	5.46	5.46	6.00	6.38	5.43	4.78
84 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
85 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
86 Lacombe	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
87 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
88 Lake Osweego	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
89 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
90 Le Moyne	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
91 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
92 Lilliwaup Falls	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69
93 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
94 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
95 Little Wood River Ranch	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
96 Little Wood River Reservoir	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
97 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
98 Low Line Midway	2.00	2.00	0	0	0	0	0	0	0	0	0	0	2.00	2.00	0.50
99 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
100 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
101 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
102 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
103 Macks Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
104 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
105 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
106 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
107 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
108 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
109 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
110 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
111 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
112 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
113 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
114 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
115 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
116 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
117 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
118 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
119 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
120 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
121 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
122 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

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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
123 North Gooding Main	1.30	1.30	1.30	1.30	0	0	0	0	0	0	1.30	1.30	1.30	1.30	0.71
124 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
125 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
126 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
127 Orchard Avenue	0.33	0.33	0.23	0.25	0.31	0.35	0.37	0.35	0.37	0.41	0.41	0.44	0.47	0.40	0.36
128 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
129 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
130 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
131 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
132 Phillips Ranch	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
133 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
134 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
135 Poderosa	0.63	0.63	0.47	0.16	0.05	0.05	0.05	0.05	0.05	0.17	0.17	0.45	0.65	0.63	0.29
136 Port Townsend Mill	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
137 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
138 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
139 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
140 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
141 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
142 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
143 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
144 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
145 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
146 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
147 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
148 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
149 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
150 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
151 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
152 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
153 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
154 Skookumchuck	0.42	0.42	0.28	0.30	0.36	0.42	0.50	0.48	0.52	0.57	0.57	0.60	0.60	0.55	0.47
155 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
156 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
157 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
158 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
159 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
160 Spring Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
161 Stayton Hydro	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
162 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
163 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

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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
164 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
165 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
166 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
167 Syqitowicz 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
168 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
169 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
170 Tieton Dam (Yakima)	0.65	0.65	0.49	0.14	0	0	0	0	0	0.02	0.02	0.58	0.32	0.25	0.21
171 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
172 Twin Falls (WA)	8.39	8.39	5.88	6.35	7.75	8.92	9.26	8.75	9.27	10.4	10.4	11.5	12.2	10.5	9.10
173 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
174 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
175 Walla Walla	1.32	1.32	0.93	1.01	1.23	1.41	1.47	1.39	1.45	1.62	1.62	1.78	1.89	1.61	1.42
176 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
177 Watson Hydro	0.32	0.25	0.32	0.25	0.27	0	0	0	0.58	0.30	0.60	0.71	0.71	0.54	0.34
178 Weeks Falls	1.43	1.43	1.00	1.08	1.32	1.51	1.58	1.49	1.58	1.78	1.78	1.97	2.10	1.80	1.55
179 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
180 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
181 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
182 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
183 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
184 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
185 Yakama Drop 2	0.23	0.23	0.16	0.18	0.21	0.24	0.27	0.25	0.27	0.31	0.31	0.36	0.39	0.33	0.27
186 Yakama Drop 3	0.11	0.11	0.07	0.08	0.09	0.10	0.13	0.13	0.13	0.14	0.14	0.17	0.20	0.17	0.13
187 Youngs Creek	0.07	0.07	0.53	1.65	3.29	2.73	2.92	3.14	4.52	4.65	4.65	2.49	0.56	0.17	2.22
188 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															
189 Cooperative	1.80	1.80	1.41	1.36	1.78	2.33	2.22	2.21	2.19	2.59	2.59	3.00	3.17	2.24	2.19
190 Direct Service Industry	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
191 Federal Entities	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
192 Investor Owned Utilities	166	165	139	111	114	111	109	116	135	173	174	209	209	187	148
193 Marketer	0.65	0.65	0.49	0.14	0	0	0	0	0	0.02	0.02	0.58	0.32	0.25	0.21
194 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
195 Public Utility District	19.0	19.0	14.1	12.7	9.66	9.14	9.39	9.58	12.2	21.9	21.9	22.8	22.0	21.3	15.3
196 Total Small Hydro	328	326	247	165	131	129	127	135	165	284	285	406	425	408	246

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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Small Hydro															
1 Albany-Millersburg Hydroelectric	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 Biqq'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	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
13 Birch Creek (Gooding, ID)	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
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 Canyon	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 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
18 Briqqs 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
19 Briqqs 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
20 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
21 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
22 Burr & Bouchard	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 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
24 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
25 Calligan 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
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 C-Drop Hydro	1.09	0.78	0.10	0	0	0	0	0	0	0.53	0.53	1.09	1.09	1.09	0.41
31 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
32 Central Oregon Siphon	1.99	1.99	2.20	2.25	2.73	3.17	3.60	3.52	3.81	3.56	3.56	3.60	3.57	2.75	3.06
33 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
34 Chester Hydroelectric Plant	0.25	0.25	0.25	0.12	0.32	0.70	0.52	0.59	0.52	0.74	0.74	1.00	1.06	0.40	0.54
35 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
36 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
37 Cornelius	0	0	0	0	0	0.02	0.01	0.01	0.01	0	0	0	0	0	0
38 Cowiche	0.39	0.39	0.28	0.30	0.37	0.42	0.45	0.42	0.45	0.49	0.49	0.54	0.56	0.48	0.43
39 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
40 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

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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
41 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
42 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
43 D. Wiggins	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44 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
45 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
46 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
47 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
48 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
49 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
50 Ebey Hill (Kevin Duncan)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51 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
52 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
53 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
54 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
55 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
56 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
57 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
58 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
59 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
60 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
61 Flying W	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
62 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
63 Foray	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64 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
65 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
66 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
67 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
68 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
69 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
70 Hancock 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
71 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
72 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
73 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
74 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
75 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
76 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
77 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
78 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
79 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
80 Juniper Ridge Hydro	0.89	0.89	0.97	1.01	1.23	1.42	1.78	1.82	2.01	1.80	1.80	1.75	1.59	1.35	1.47
81 Kasel-Witherspoon	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

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82 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
83 Koma Kulshan	4.36	4.36	3.08	3.35	4.09	4.68	4.92	4.67	4.92	5.46	5.46	6.00	6.38	5.43	4.78
84 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
85 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
86 Lacombe	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
87 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
88 Lake Osweego	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
89 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
90 Le Moyne	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
91 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
92 Lilliwaup Falls	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69
93 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
94 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
95 Little Wood River Ranch	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
96 Little Wood River Reservoir	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
97 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
98 Low Line Midway	2.00	2.00	0	0	0	0	0	0	0	0	0	0	2.00	2.00	0.50
99 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
100 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
101 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
102 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
103 Macks Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
104 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
105 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
106 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
107 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
108 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
109 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
110 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
111 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
112 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
113 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
114 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
115 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
116 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
117 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
118 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
119 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
120 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
121 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
122 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

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123 North Gooding Main	1.30	1.30	1.30	1.30	0	0	0	0	0	0	1.30	1.30	1.30	1.30	0.71
124 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
125 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
126 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
127 Orchard Avenue	0.33	0.33	0.23	0.25	0.31	0.35	0.37	0.35	0.37	0.41	0.41	0.44	0.47	0.40	0.36
128 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
129 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
130 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
131 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
132 Phillips Ranch	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
133 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
134 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
135 Poderosa	0.63	0.63	0.47	0.16	0.05	0.05	0.05	0.05	0.05	0.17	0.17	0.45	0.65	0.63	0.29
136 Port Townsend Mill	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
137 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
138 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
139 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
140 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
141 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
142 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
143 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
144 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
145 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
146 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
147 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
148 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
149 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
150 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
151 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
152 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
153 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
154 Skookumchuck	0.42	0.42	0.28	0.30	0.36	0.42	0.50	0.48	0.52	0.57	0.57	0.60	0.60	0.55	0.47
155 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
156 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
157 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
158 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
159 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
160 Spring Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
161 Stayton Hydro	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
162 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
163 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

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164 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
165 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
166 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
167 Syqitowicz 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
168 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
169 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
170 Tieton Dam (Yakima)	0.65	0.65	0.49	0.14	0	0	0	0	0	0.02	0.02	0.58	0.32	0.25	0.21
171 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
172 Twin Falls (WA)	8.39	8.39	5.88	6.35	7.75	8.92	9.26	8.75	9.27	10.4	10.4	11.5	12.2	10.5	9.10
173 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
174 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
175 Walla Walla	1.32	1.32	0.93	1.01	1.23	1.41	1.47	1.39	1.45	1.62	1.62	1.78	1.89	1.61	1.42
176 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
177 Watson Hydro	0.32	0.25	0.32	0.25	0.27	0	0	0	0.58	0.30	0.60	0.71	0.71	0.54	0.34
178 Weeks Falls	1.43	1.43	1.00	1.08	1.32	1.51	1.58	1.49	1.58	1.78	1.78	1.97	2.10	1.80	1.55
179 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
180 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
181 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
182 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
183 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
184 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
185 Yakama Drop 2	0.23	0.23	0.16	0.18	0.21	0.24	0.27	0.25	0.27	0.31	0.31	0.36	0.39	0.33	0.27
186 Yakama Drop 3	0.11	0.11	0.07	0.08	0.09	0.10	0.13	0.13	0.13	0.14	0.14	0.17	0.20	0.17	0.13
187 Youngs Creek	0.07	0.07	0.53	1.65	3.29	2.73	2.92	3.14	4.52	4.65	4.65	2.49	0.56	0.17	2.22
188 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															
189 Cooperative	1.80	1.80	1.41	1.36	1.78	2.33	2.22	2.21	2.19	2.59	2.59	3.00	3.17	2.24	2.19
190 Direct Service Industry	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
191 Federal Entities	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
192 Investor Owned Utilities	166	165	139	111	114	111	109	116	135	173	174	209	209	187	148
193 Marketer	0.65	0.65	0.49	0.14	0	0	0	0	0	0.02	0.02	0.58	0.32	0.25	0.21
194 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
195 Public Utility District	19.0	19.0	14.1	12.7	9.66	9.14	9.39	9.58	12.2	21.9	21.9	22.8	22.0	21.3	15.3
196 Total Small Hydro	328	326	247	165	131	129	127	135	165	284	285	406	425	408	246

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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Small Hydro															
1 Albany-Millersburg Hydroelectric	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 Biqq'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	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
13 Birch Creek (Gooding, ID)	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
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 Canyon	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 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
18 Briqqs 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
19 Briqqs 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
20 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
21 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
22 Burr & Bouchard	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 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
24 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
25 Calligan 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
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 C-Drop Hydro	1.09	0.78	0.10	0	0	0	0	0	0	0.53	0.53	1.09	1.09	1.09	0.41
31 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
32 Central Oregon Siphon	1.99	1.99	2.20	2.25	2.73	3.17	3.60	3.52	3.81	3.56	3.56	3.60	3.57	2.75	3.06
33 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
34 Chester Hydroelectric Plant	0.25	0.25	0.25	0.12	0.32	0.70	0.52	0.59	0.52	0.74	0.74	1.00	1.06	0.40	0.54
35 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
36 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
37 Cornelius	0	0	0	0	0	0.02	0.01	0.01	0.01	0	0	0	0	0	0
38 Cowiche	0.39	0.39	0.28	0.30	0.37	0.42	0.45	0.42	0.45	0.49	0.49	0.54	0.56	0.48	0.43
39 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
40 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

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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
41 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
42 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
43 D. Wiggins	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44 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
45 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
46 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
47 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
48 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
49 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
50 Ebey Hill (Kevin Duncan)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51 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
52 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
53 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
54 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
55 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
56 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
57 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
58 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
59 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
60 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
61 Flying W	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
62 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
63 Foray	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64 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
65 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
66 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
67 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
68 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
69 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
70 Hancock 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
71 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
72 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
73 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
74 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
75 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
76 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
77 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
78 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
79 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
80 Juniper Ridge Hydro	0.89	0.89	0.97	1.01	1.23	1.42	1.78	1.82	2.01	1.80	1.80	1.75	1.59	1.35	1.47
81 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

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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
82 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
83 Koma Kulshan	4.36	4.36	3.08	3.35	4.09	4.68	4.92	4.67	4.92	5.46	5.46	6.00	6.38	5.43	4.78
84 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
85 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
86 Lacombe	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
87 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
88 Lake Osweego	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
89 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
90 Le Moyne	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
91 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
92 Lilliwaup Falls	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69
93 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
94 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
95 Little Wood River Ranch	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
96 Little Wood River Reservoir	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
97 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
98 Low Line Midway	2.00	2.00	0	0	0	0	0	0	0	0	0	0	2.00	2.00	0.50
99 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
100 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
101 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
102 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
103 Macks Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
104 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
105 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
106 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
107 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
108 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
109 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
110 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
111 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
112 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
113 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
114 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
115 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
116 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
117 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
118 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
119 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
120 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
121 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
122 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

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123 North Gooding Main	1.30	1.30	1.30	1.30	0	0	0	0	0	0	1.30	1.30	1.30	1.30	0.71
124 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
125 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
126 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
127 Orchard Avenue	0.33	0.33	0.23	0.25	0.31	0.35	0.37	0.35	0.37	0.41	0.41	0.44	0.47	0.40	0.36
128 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
129 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
130 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
131 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
132 Phillips Ranch	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
133 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
134 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
135 Poderosa	0.63	0.63	0.47	0.16	0.05	0.05	0.05	0.05	0.05	0.17	0.17	0.45	0.65	0.63	0.29
136 Port Townsend Mill	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
137 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
138 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
139 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
140 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
141 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
142 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
143 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
144 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
145 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
146 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
147 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
148 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
149 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
150 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
151 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
152 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
153 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
154 Skookumchuck	0.42	0.42	0.28	0.30	0.36	0.42	0.50	0.48	0.52	0.57	0.57	0.60	0.60	0.55	0.47
155 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
156 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
157 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
158 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
159 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
160 Spring Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
161 Stayton Hydro	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
162 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
163 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

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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
164 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
165 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
166 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
167 Syqitowicz 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
168 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
169 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
170 Tieton Dam (Yakima)	0.65	0.65	0.49	0.14	0	0	0	0	0	0.02	0.02	0.58	0.32	0.25	0.21
171 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
172 Twin Falls (WA)	8.39	8.39	5.88	6.35	7.75	8.92	9.26	8.75	9.27	10.4	10.4	11.5	12.2	10.5	9.10
173 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
174 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
175 Walla Walla	1.32	1.32	0.93	1.01	1.23	1.41	1.47	1.39	1.45	1.62	1.62	1.78	1.89	1.61	1.42
176 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
177 Watson Hydro	0.32	0.25	0.32	0.25	0.27	0	0	0	0.58	0.30	0.60	0.71	0.71	0.54	0.34
178 Weeks Falls	1.43	1.43	1.00	1.08	1.32	1.51	1.58	1.49	1.58	1.78	1.78	1.97	2.10	1.80	1.55
179 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
180 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
181 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
182 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
183 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
184 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
185 Yakama Drop 2	0.23	0.23	0.16	0.18	0.21	0.24	0.27	0.25	0.27	0.31	0.31	0.36	0.39	0.33	0.27
186 Yakama Drop 3	0.11	0.11	0.07	0.08	0.09	0.10	0.13	0.13	0.13	0.14	0.14	0.17	0.20	0.17	0.13
187 Youngs Creek	0.07	0.07	0.53	1.65	3.29	2.73	2.92	3.14	4.52	4.65	4.65	2.49	0.56	0.17	2.22
188 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															
189 Cooperative	1.80	1.80	1.41	1.36	1.78	2.33	2.22	2.21	2.19	2.59	2.59	3.00	3.17	2.24	2.19
190 Direct Service Industry	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
191 Federal Entities	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
192 Investor Owned Utilities	166	165	139	111	114	111	109	116	135	173	174	209	209	187	148
193 Marketer	0.65	0.65	0.49	0.14	0	0	0	0	0	0.02	0.02	0.58	0.32	0.25	0.21
194 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
195 Public Utility District	19.0	19.0	14.1	12.7	9.66	9.14	9.39	9.58	12.2	21.9	21.9	22.8	22.0	21.3	15.3
196 Total Small Hydro	328	326	247	165	131	129	127	135	165	284	285	406	425	408	246

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Small Hydro															
1 Albany-Millersburg Hydroelectric	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 Biqq'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	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
13 Birch Creek (Gooding, ID)	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
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 Canyon	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 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
18 Briqqs 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
19 Briqqs 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
20 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
21 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
22 Burr & Bouchard	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 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
24 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
25 Calligan 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
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 C-Drop Hydro	1.09	0.78	0.10	0	0	0	0	0	0	0.53	0.53	1.09	1.09	1.09	0.40
31 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
32 Central Oregon Siphon	1.99	1.99	2.20	2.25	2.73	3.17	3.60	3.52	3.81	3.56	3.56	3.60	3.57	2.75	3.06
33 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
34 Chester Hydroelectric Plant	0.25	0.25	0.25	0.12	0.32	0.70	0.52	0.59	0.52	0.74	0.74	1.00	1.06	0.40	0.54
35 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
36 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
37 Cornelius	0	0	0	0	0	0.02	0.01	0.01	0.01	0	0	0	0	0	0
38 Cowiche	0.39	0.39	0.28	0.30	0.37	0.42	0.45	0.42	0.45	0.49	0.49	0.54	0.56	0.48	0.43
39 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
40 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

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41 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
42 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
43 D. Wiggins	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44 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
45 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
46 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
47 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
48 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
49 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
50 Ebey Hill (Kevin Duncan)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51 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
52 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
53 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
54 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
55 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
56 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
57 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
58 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
59 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
60 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
61 Flying W	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
62 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
63 Foray	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64 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
65 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
66 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
67 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
68 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
69 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
70 Hancock 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
71 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
72 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
73 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
74 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
75 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
76 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
77 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
78 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
79 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
80 Juniper Ridge Hydro	0.89	0.89	0.97	1.01	1.23	1.42	1.78	1.82	2.01	1.80	1.80	1.75	1.59	1.35	1.47
81 Kasel-Witherspoon	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

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82 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
83 Koma Kulshan	4.36	4.36	3.08	3.35	4.09	4.68	4.92	4.67	4.92	5.46	5.46	6.00	6.38	5.43	4.78
84 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
85 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
86 Lacombe	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
87 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
88 Lake Osweego	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
89 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
90 Le Moyne	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
91 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
92 Lilliwaup Falls	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69
93 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
94 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
95 Little Wood River Ranch	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
96 Little Wood River Reservoir	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
97 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
98 Low Line Midway	2.00	2.00	0	0	0	0	0	0	0	0	0	0	2.00	2.00	0.50
99 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
100 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
101 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
102 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
103 Macks Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
104 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
105 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
106 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
107 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
108 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
109 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
110 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
111 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
112 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
113 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
114 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
115 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
116 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
117 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
118 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
119 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
120 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
121 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
122 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

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123 North Gooding Main	1.30	1.30	1.30	1.30	0	0	0	0	0	0	1.30	1.30	1.30	1.30	0.71
124 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
125 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
126 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
127 Orchard Avenue	0.33	0.33	0.23	0.25	0.31	0.35	0.37	0.35	0.37	0.41	0.41	0.44	0.47	0.40	0.36
128 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
129 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
130 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
131 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
132 Phillips Ranch	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
133 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
134 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
135 Poderosa	0.63	0.63	0.47	0.16	0.05	0.05	0.05	0.05	0.05	0.17	0.17	0.45	0.65	0.63	0.28
136 Port Townsend Mill	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
137 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
138 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
139 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
140 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
141 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
142 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
143 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
144 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
145 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
146 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
147 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
148 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
149 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
150 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
151 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
152 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
153 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
154 Skookumchuck	0.42	0.42	0.28	0.30	0.36	0.42	0.50	0.48	0.52	0.57	0.57	0.60	0.60	0.55	0.47
155 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
156 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
157 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
158 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
159 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
160 Spring Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
161 Stayton Hydro	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
162 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
163 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

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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
164 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
165 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
166 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
167 Syqitowicz 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
168 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
169 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
170 Tieton Dam (Yakima)	0.65	0.65	0.49	0.14	0	0	0	0	0	0.02	0.02	0.58	0.32	0.25	0.21
171 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
172 Twin Falls (WA)	8.39	8.39	5.88	6.35	7.75	8.92	9.26	8.75	9.27	10.4	10.4	11.5	12.2	10.5	9.09
173 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
174 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
175 Walla Walla	1.32	1.32	0.93	1.01	1.23	1.41	1.47	1.39	1.45	1.62	1.62	1.78	1.89	1.61	1.42
176 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
177 Watson Hydro	0.32	0.25	0.32	0.25	0.27	0	0	0	0.58	0.30	0.60	0.71	0.71	0.54	0.34
178 Weeks Falls	1.43	1.43	1.00	1.08	1.32	1.51	1.58	1.49	1.58	1.78	1.78	1.97	2.10	1.80	1.55
179 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
180 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
181 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
182 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
183 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
184 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
185 Yakama Drop 2	0.23	0.23	0.16	0.18	0.21	0.24	0.27	0.25	0.27	0.31	0.31	0.36	0.39	0.33	0.27
186 Yakama Drop 3	0.11	0.11	0.07	0.08	0.09	0.10	0.13	0.13	0.13	0.14	0.14	0.17	0.20	0.17	0.13
187 Youngs Creek	0.07	0.07	0.53	1.65	3.29	2.73	2.92	3.14	4.52	4.65	4.65	2.49	0.56	0.17	2.22
188 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															
189 Cooperative	1.80	1.80	1.41	1.36	1.78	2.33	2.22	2.21	2.19	2.59	2.59	3.00	3.17	2.24	2.19
190 Direct Service Industry	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
191 Federal Entities	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
192 Investor Owned Utilities	166	165	139	111	114	111	109	116	135	173	174	209	209	187	148
193 Marketer	0.65	0.65	0.49	0.14	0	0	0	0	0	0.02	0.02	0.58	0.32	0.25	0.21
194 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
195 Public Utility District	19.0	19.0	14.1	12.7	9.66	9.14	9.39	9.58	12.2	21.9	21.9	22.8	22.0	21.3	15.3
196 Total Small Hydro	328	326	247	165	131	129	127	135	165	284	285	406	425	408	246

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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Small Hydro															
1 Albany-Millersburg Hydroelectric	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 Biqq'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	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
13 Birch Creek (Gooding, ID)	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
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 Canyon	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 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
18 Briqqs 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
19 Briqqs 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
20 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
21 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
22 Burr & Bouchard	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 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
24 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
25 Calligan 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
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 C-Drop Hydro	1.09	0.78	0.10	0	0	0	0	0	0	0.53	0.53	1.09	1.09	1.09	0.41
31 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
32 Central Oregon Siphon	1.99	1.99	2.20	2.25	2.73	3.17	3.60	3.52	3.81	3.56	3.56	3.60	3.57	2.75	3.06
33 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
34 Chester Hydroelectric Plant	0.25	0.25	0.25	0.12	0.32	0.70	0.52	0.59	0.52	0.74	0.74	1.00	1.06	0.40	0.54
35 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
36 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
37 Cornelius	0	0	0	0	0	0.02	0.01	0.01	0.01	0	0	0	0	0	0
38 Cowiche	0.39	0.39	0.28	0.30	0.37	0.42	0.45	0.42	0.45	0.49	0.49	0.54	0.56	0.48	0.43
39 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
40 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

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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
41 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
42 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
43 D. Wiggins	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44 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
45 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
46 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
47 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
48 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
49 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
50 Ebey Hill (Kevin Duncan)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51 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
52 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
53 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
54 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
55 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
56 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
57 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
58 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
59 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
60 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
61 Flying W	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
62 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
63 Foray	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64 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
65 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
66 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
67 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
68 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
69 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
70 Hancock 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
71 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
72 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
73 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
74 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
75 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
76 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
77 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
78 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
79 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
80 Juniper Ridge Hydro	0.89	0.89	0.97	1.01	1.23	1.42	1.78	1.82	2.01	1.80	1.80	1.75	1.59	1.35	1.47
81 Kasel-Witherspoon	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

Regional: Small Hydro
Operating Year 2029 Water Year: 1937
2018 White Book Report Date: 12/1/2018 *Continued*

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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
82 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
83 Koma Kulshan	4.36	4.36	3.08	3.35	4.09	4.68	4.92	4.67	4.92	5.46	5.46	6.00	6.38	5.43	4.78
84 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
85 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
86 Lacombe	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
87 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
88 Lake Osweego	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
89 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
90 Le Moyne	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
91 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
92 Lilliwaup Falls	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69
93 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
94 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
95 Little Wood River Ranch	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
96 Little Wood River Reservoir	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
97 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
98 Low Line Midway	2.00	2.00	0	0	0	0	0	0	0	0	0	0	2.00	2.00	0.50
99 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
100 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
101 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
102 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
103 Macks Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
104 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
105 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
106 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
107 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
108 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
109 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
110 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
111 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
112 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
113 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
114 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
115 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
116 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
117 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
118 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
119 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
120 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
121 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
122 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

Regional: Small Hydro
Operating Year 2029 Water Year: 1937
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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
123 North Gooding Main	1.30	1.30	1.30	1.30	0	0	0	0	0	0	1.30	1.30	1.30	1.30	0.71
124 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
125 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
126 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
127 Orchard Avenue	0.33	0.33	0.23	0.25	0.31	0.35	0.37	0.35	0.37	0.41	0.41	0.44	0.47	0.40	0.36
128 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
129 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
130 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
131 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
132 Phillips Ranch	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
133 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
134 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
135 Poderosa	0.63	0.63	0.47	0.16	0.05	0.05	0.05	0.05	0.05	0.17	0.17	0.45	0.65	0.63	0.29
136 Port Townsend Mill	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
137 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
138 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
139 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
140 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
141 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
142 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
143 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
144 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
145 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
146 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
147 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
148 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
149 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
150 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
151 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
152 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
153 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
154 Skookumchuck	0.42	0.42	0.28	0.30	0.36	0.42	0.50	0.48	0.52	0.57	0.57	0.60	0.60	0.55	0.47
155 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
156 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
157 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
158 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
159 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
160 Spring Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
161 Stayton Hydro	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
162 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
163 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

Regional: Small Hydro
Operating Year 2029 Water Year: 1937
2018 White Book Report Date: 12/1/2018 *Continued*

S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
164 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
165 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
166 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
167 Syqitowicz 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
168 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
169 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
170 Tieton Dam (Yakima)	0.65	0.65	0.49	0.14	0	0	0	0	0	0.02	0.02	0.58	0.32	0.25	0.21
171 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
172 Twin Falls (WA)	8.39	8.39	5.88	6.35	7.75	8.92	9.26	8.75	9.27	10.4	10.4	11.5	12.2	10.5	9.10
173 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
174 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
175 Walla Walla	1.32	1.32	0.93	1.01	1.23	1.41	1.47	1.39	1.45	1.62	1.62	1.78	1.89	1.61	1.42
176 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
177 Watson Hydro	0.32	0.25	0.32	0.25	0.27	0	0	0	0.58	0.30	0.60	0.71	0.71	0.54	0.34
178 Weeks Falls	1.43	1.43	1.00	1.08	1.32	1.51	1.58	1.49	1.58	1.78	1.78	1.97	2.10	1.80	1.55
179 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
180 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
181 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
182 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
183 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
184 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
185 Yakama Drop 2	0.23	0.23	0.16	0.18	0.21	0.24	0.27	0.25	0.27	0.31	0.31	0.36	0.39	0.33	0.27
186 Yakama Drop 3	0.11	0.11	0.07	0.08	0.09	0.10	0.13	0.13	0.13	0.14	0.14	0.17	0.20	0.17	0.13
187 Youngs Creek	0.07	0.07	0.53	1.65	3.29	2.73	2.92	3.14	4.52	4.65	4.65	2.49	0.56	0.17	2.22
188 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															
189 Cooperative	1.80	1.80	1.41	1.36	1.78	2.33	2.22	2.21	2.19	2.59	2.59	3.00	3.17	2.24	2.19
190 Direct Service Industry	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
191 Federal Entities	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
192 Investor Owned Utilities	166	165	139	111	114	111	109	116	135	173	174	209	209	187	148
193 Marketer	0.65	0.65	0.49	0.14	0	0	0	0	0	0.02	0.02	0.58	0.32	0.25	0.21
194 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
195 Public Utility District	19.0	19.0	14.1	12.7	9.66	9.14	9.39	9.58	12.2	21.9	21.9	22.8	22.0	21.3	15.3
196 Total Small Hydro	328	326	247	165	131	129	127	135	165	284	285	406	425	408	246

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Exhibit 33
Regional Non-Hydro Renewable - Wind

Monthly Energy
Operating Year 2020 to 2029

Regional: Non-Hydro Renewable - Wind
Operating Year: 2020 Water Year: 1937
2018 White Book Report Date: 12/1/2018
S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Non-Hydro Renewable - Wind															
1 3 Bar G Wind	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
2 Bennett Creek Wind	3.4	5.1	4.7	3.8	5.4	4.1	2.2	3.7	4.2	7.5	6.3	6.8	6.7	6.5	4.9
3 Benson Creek Wind	1.6	2.4	2.2	1.8	2.6	2.0	1.1	1.7	2.0	3.6	3.0	3.2	3.2	3.1	2.4
4 Big Horn Wind	40.2	60.2	56.0	45.0	64.5	49.1	26.3	43.5	50.0	89.4	75.2	80.5	79.6	77.8	58.7
5 Biglow Canyon Wind	72.4	108.6	100.9	81.1	116.2	88.6	47.4	78.4	90.1	161.1	135.6	145.0	143.4	140.2	105.8
6 Burley Butte Wind	3.1	4.7	4.4	3.5	5.0	3.8	2.1	3.4	3.9	7.0	5.9	6.3	6.2	6.1	4.6
7 Camp Reed Wind	3.6	5.4	5.0	4.1	5.8	4.4	2.4	3.9	4.5	8.1	6.8	7.3	7.2	7.0	5.3
8 Cassia Farms Wind	1.7	2.5	2.4	1.9	2.7	2.1	1.1	1.8	2.1	3.8	3.2	3.4	3.3	3.3	2.5
9 Cassia Gulch Wind	3.0	4.6	4.2	3.4	4.9	3.7	2.0	3.3	3.8	6.8	5.7	6.1	6.0	5.9	4.4
10 Chopin Wind	3.3	3.2	1.6	2.5	2.3	1.8	2.6	2.0	1.1	1.8	2.0	3.7	3.1	3.3	2.4
11 Cold Springs Wind	3.7	5.6	5.2	4.1	5.9	4.5	2.4	4.0	4.6	8.2	6.9	7.4	7.3	7.2	5.4
12 Combine Hills Wind	16.7	25.1	23.3	18.8	26.9	20.5	11.0	18.1	20.8	37.3	31.4	33.5	33.2	32.4	24.5
13 Condon Wind	8.0	12.0	11.2	9.0	12.9	9.8	5.2	8.7	10.0	17.8	15.0	16.1	15.9	15.5	11.7
14 Deep Creek Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15 Desert Meadow Windfarm	3.7	5.6	5.2	4.1	5.9	4.5	2.4	4.0	4.6	8.2	6.9	7.4	7.3	7.2	5.4
16 Durbin Creek Wind	1.6	2.4	2.2	1.8	2.6	2.0	1.1	1.7	2.0	3.6	3.0	3.2	3.2	3.1	2.4
17 Echo Wind Farm	10.4	15.6	14.5	11.6	16.7	12.7	6.8	11.2	12.9	23.1	19.5	20.8	20.6	20.1	15.2
18 Elkhorn Valley Wind Project	16.2	24.3	22.6	18.1	26.0	19.8	10.6	17.5	20.2	36.1	30.3	32.5	32.1	31.4	23.7
19 Foote Creek 1 Wind	6.7	10.0	9.3	7.5	10.7	8.2	4.4	7.2	8.3	14.8	12.5	13.4	13.2	12.9	9.7
20 Foote Creek 2 Wind	0.3	0.4	0.4	0.3	0.5	0.4	0.2	0.3	0.4	0.6	0.5	0.6	0.6	0.6	0.4
21 Foote Creek 4 Wind	2.7	4.1	3.8	3.0	4.3	3.3	1.8	2.9	3.4	6.0	5.1	5.4	5.4	5.2	4.0
22 Fossil Gulch Wind Project	1.7	2.5	2.4	1.9	2.7	2.1	1.1	1.8	2.1	3.8	3.2	3.4	3.3	3.3	2.5
23 Golden Valley Wind	1.9	2.9	2.7	2.2	3.1	2.4	1.3	2.1	2.4	4.3	3.6	3.9	3.8	3.7	2.8
24 Goodnoe Hills Wind	15.1	22.7	21.1	16.9	24.3	18.5	9.9	16.4	18.8	33.7	28.3	30.3	30.0	29.3	22.1
25 Goshen North (Ridgeline Wind)	20.0	30.1	27.9	22.4	32.2	24.5	13.1	21.7	24.9	44.6	37.5	40.2	39.7	38.8	29.3
26 Grayland Wind	1.0	1.4	1.3	1.1	1.6	1.2	0.6	1.0	1.2	2.2	1.8	1.9	1.9	1.9	1.4
27 Hammett Hill Wind	3.7	5.6	5.2	4.1	5.9	4.5	2.4	4.0	4.6	8.2	6.9	7.4	7.3	7.2	5.4
28 Harvest Wind	15.9	23.9	22.2	17.8	25.6	19.5	10.4	17.2	19.8	35.4	29.8	31.9	31.5	30.8	23.3
29 Hay Canyon Wind	16.2	24.3	22.6	18.2	26.0	19.9	10.6	17.6	20.2	36.1	30.4	32.5	32.1	31.4	23.7
30 Healow 2 Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31 High Mesa Wind	6.4	9.6	9.0	7.2	10.3	7.9	4.2	7.0	8.0	14.3	12.0	12.9	12.7	12.4	9.4
32 Hopkins Ridge Wind	25.2	37.8	35.1	28.2	40.5	30.8	16.5	27.3	31.4	56.1	47.2	50.5	49.9	48.8	36.8
33 Horse Butte Wind	9.3	13.9	12.9	10.4	14.9	11.3	6.1	10.0	11.5	20.6	17.4	18.6	18.4	18.0	13.6
34 Horseshoe Bend Wind Project	1.4	2.2	2.0	1.6	2.3	1.8	0.9	1.6	1.8	3.2	2.7	2.9	2.9	2.8	2.1
35 Hot Springs Wind	3.2	4.8	4.4	3.6	5.1	3.9	2.1	3.5	4.0	7.1	6.0	6.4	6.3	6.2	4.7
36 Jett Creek Wind	1.6	2.4	2.2	1.8	2.6	2.0	1.1	1.7	2.0	3.6	3.0	3.2	3.2	3.1	2.4
37 Josef Staufer - Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
38 Juniper Canyon Wind	24.3	36.5	33.9	27.3	39.1	29.8	15.9	26.3	30.3	54.2	45.6	48.8	48.2	47.1	35.6
39 Kittitas Valley Wind	16.2	24.3	22.6	18.2	26.0	19.9	10.6	17.6	20.2	36.1	30.4	32.5	32.1	31.4	23.7
40 Klondike Wind 1	3.9	5.8	5.4	4.3	6.2	4.7	2.5	4.2	4.8	8.6	7.2	7.7	7.7	7.5	5.6
41 Klondike Wind 2	12.1	18.1	16.8	13.5	19.4	14.8	7.9	13.1	15.0	26.9	22.6	24.2	23.9	23.4	17.6
42 Klondike Wind 3	36.0	54.0	50.2	40.4	57.8	44.1	23.6	39.0	44.8	80.2	67.5	72.2	71.4	69.8	52.7
43 Klondike Wind 3a	12.3	18.5	17.2	13.8	19.8	15.1	8.1	13.3	15.3	27.4	23.1	24.7	24.4	23.8	18.0
44 Knudson Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45 Leaning Juniper Wind	48.6	72.9	67.7	54.4	78.0	59.4	31.8	52.6	60.5	108.1	91.0	97.3	96.2	94.1	71.0

Regional: Non-Hydro Renewable - Wind
Operating Year: 2020 Water Year: 1937
2018 White Book Report Date: 12/1/2018
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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Non-Hydro Renewable - Wind															
46 Lewandowski Farms Wind	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
47 Lime Wind	0.5	0.7	0.7	0.5	0.8	0.6	0.3	0.5	0.6	1.1	0.9	1.0	1.0	0.9	0.7
48 Linden Ranch Wind	8.0	12.1	11.2	9.0	12.9	9.8	5.3	8.7	10.0	17.9	15.1	16.1	15.9	15.6	11.8
49 Livingston Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50 Lower Snake Wind	98.1	147.2	136.7	109.9	157.5	120.0	64.2	106.2	122.1	218.4	183.8	196.6	194.4	190.0	143.4
51 Mainline Wind	3.7	5.6	5.2	4.1	5.9	4.5	2.4	4.0	4.6	8.2	6.9	7.4	7.3	7.2	5.4
52 Marengo Wind	33.9	50.8	47.3	38.0	54.4	41.5	22.2	36.7	42.2	75.5	63.5	67.9	67.2	65.6	49.5
53 Meadow Creek Wind	19.3	28.9	26.9	21.6	30.9	23.6	12.6	20.9	24.0	42.9	36.1	38.6	38.2	37.3	28.2
54 Milner Dam Wind Farm	3.1	4.7	4.4	3.5	5.0	3.8	2.1	3.4	3.9	7.0	5.9	6.3	6.2	6.1	4.6
55 Montague	0.0	0.0	0.0	32.5	48.8	45.3	36.4	52.2	39.8	21.3	35.2	40.5	72.4	60.9	38.0
56 Nine Canyon Wind	15.4	23.2	21.5	17.3	24.8	18.9	10.1	16.7	19.2	34.4	28.9	30.9	30.6	29.9	22.6
57 Oregon Trail Wind	2.2	3.3	3.0	2.4	3.5	2.7	1.4	2.4	2.7	4.8	4.1	4.4	4.3	4.2	3.2
58 Palouse Wind	16.8	25.2	23.4	18.8	27.0	20.6	11.0	18.2	20.9	37.4	31.5	33.7	33.3	32.5	24.6
59 PaTu Wind	1.4	2.2	2.0	1.6	2.3	1.8	0.9	1.6	1.8	3.2	2.7	2.9	2.9	2.8	2.1
60 Paynes Ferry Wind Park	3.4	5.1	4.7	3.8	5.4	4.1	2.2	3.7	4.2	7.5	6.3	6.8	6.7	6.5	4.9
61 Pebble Springs Wind	15.9	23.8	22.1	17.8	25.5	19.4	10.4	17.2	19.8	35.4	29.8	31.8	31.5	30.8	23.2
62 Pilgrim Stage Station Wind Park	1.7	2.5	2.4	1.9	2.7	2.1	1.1	1.8	2.1	3.8	3.2	3.4	3.3	3.3	2.5
63 Power County Wind	7.2	10.9	10.1	8.1	11.6	8.9	4.7	7.8	9.0	16.1	13.6	14.5	14.4	14.0	10.6
64 Prospector Wind	1.6	2.4	2.2	1.8	2.6	2.0	1.1	1.7	2.0	3.6	3.0	3.2	3.2	3.1	2.4
65 Rattlesnake Road Wind Farm	16.6	24.8	23.1	18.6	26.6	20.3	10.8	17.9	20.6	36.9	31.0	33.2	32.8	32.1	24.2
66 Rock River Wind	8.0	12.1	11.2	9.0	12.9	9.8	5.3	8.7	10.0	17.9	15.1	16.1	15.9	15.6	11.8
67 Rockland wind	12.7	19.1	17.8	14.3	20.5	15.6	8.3	13.8	15.9	28.4	23.9	25.5	25.3	24.7	18.6
68 Ryegrass Wind	3.7	5.6	5.2	4.1	5.9	4.5	2.4	4.0	4.6	8.2	6.9	7.4	7.3	7.2	5.4
69 Salmon Falls Wind	3.4	5.1	4.7	3.8	5.4	4.1	2.2	3.7	4.2	7.5	6.3	6.8	6.7	6.5	4.9
70 Sawtooth Wind	3.6	5.4	5.0	4.0	5.8	4.4	2.4	3.9	4.5	8.0	6.8	7.2	7.1	7.0	5.3
71 Shepherds Flat Wind	136.0	204.0	189.6	152.3	218.3	166.4	89.0	147.2	169.3	302.8	254.8	272.5	269.5	263.4	198.8
72 Star Point Wind	15.9	23.8	22.1	17.8	25.5	19.4	10.4	17.2	19.8	35.4	29.8	31.8	31.5	30.8	23.2
73 Stateline Wind	48.3	72.5	67.4	54.1	77.6	59.1	31.6	52.3	60.2	107.6	90.5	96.9	95.8	93.6	70.7
74 Swauk Wind	0.7	1.0	1.0	0.8	1.1	0.8	0.4	0.7	0.9	1.5	1.3	1.4	1.4	1.3	1.0
75 Thousand Springs Wind Park	1.9	2.9	2.7	2.2	3.1	2.4	1.3	2.1	2.4	4.3	3.6	3.9	3.8	3.7	2.8
76 Threemile Canyon Wind	1.6	2.4	2.2	1.8	2.6	2.0	1.0	1.7	2.0	3.5	3.0	3.2	3.2	3.1	2.3
77 Tuana Gulch Wind	1.7	2.5	2.4	1.9	2.7	2.1	1.1	1.8	2.1	3.8	3.2	3.4	3.3	3.3	2.5
78 Tuana Springs Wind	2.7	4.1	3.8	3.0	4.3	3.3	1.8	2.9	3.4	6.0	5.1	5.4	5.4	5.2	4.0
79 Two Ponds Wind	3.7	5.6	5.2	4.1	5.9	4.5	2.4	4.0	4.6	8.2	6.9	7.4	7.3	7.2	5.4
80 Vansycle Wind	20.0	29.9	27.8	22.4	32.0	24.4	13.1	21.6	24.8	44.4	37.4	40.0	39.5	38.7	29.2
81 Vantage Wind	14.5	21.7	20.2	16.2	23.3	17.7	9.5	15.7	18.0	32.2	27.1	29.0	28.7	28.1	21.2
82 Wheat Field Wind	15.5	23.3	21.7	17.4	25.0	19.0	10.2	16.8	19.4	34.6	29.1	31.2	30.8	30.1	22.7
83 White Creek Wind	32.2	48.3	44.9	36.1	51.7	39.4	21.1	34.9	40.1	71.7	60.3	64.5	63.8	62.3	47.1
84 Wild Horse Wind	43.9	65.8	61.2	49.1	70.4	53.7	28.7	47.5	54.6	97.7	82.2	87.9	86.9	85.0	64.1
85 Willow Creek Wind	11.6	17.4	16.2	13.0	18.6	14.2	7.6	12.5	14.4	25.8	21.7	23.2	23.0	22.4	16.9
86 Willow Spring Wind Farm	1.6	2.4	2.2	1.8	2.6	2.0	1.1	1.7	2.0	3.6	3.0	3.2	3.2	3.1	2.4
87 Windy Point Wind	64.2	96.3	89.5	71.9	103.0	78.5	42.0	69.5	79.9	142.9	120.2	128.6	127.2	124.3	93.8
88 Wolverine Creek Wind	10.4	15.6	14.5	11.6	16.7	12.7	6.8	11.2	12.9	23.1	19.4	20.8	20.6	20.1	15.2
89 Yahoo Creek Wind	3.4	5.1	4.7	3.8	5.4	4.1	2.2	3.7	4.2	7.5	6.3	6.8	6.7	6.5	4.9
90 Total Non-Hydro Renewable - Wind	1189	1782	1654	1363	1954	1498	815	1338	1517	2662	2258	2420	2424	2360	1774

Regional: Non-Hydro Renewable - Wind
Operating Year: 2021 Water Year: 1937
2018 White Book Report Date: 12/1/2018
S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Non-Hydro Renewable - Wind															
1 3 Bar G Wind	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
2 Bennett Creek Wind	3.4	5.1	4.7	3.8	5.4	4.1	2.2	3.7	4.2	7.5	6.3	6.8	6.7	6.5	4.9
3 Benson Creek Wind	1.6	2.4	2.2	1.8	2.6	2.0	1.1	1.7	2.0	3.6	3.0	3.2	3.2	3.1	2.4
4 Big Horn Wind	40.2	60.2	56.0	45.0	64.5	49.1	26.3	43.5	50.0	89.4	75.2	80.5	79.6	77.8	58.7
5 Biglow Canyon Wind	72.4	108.6	100.9	81.1	116.2	88.6	47.4	78.4	90.1	161.1	135.6	145.0	143.4	140.2	105.9
6 Burley Butte Wind	3.1	4.7	4.4	3.5	5.0	3.8	2.1	3.4	3.9	7.0	5.9	6.3	6.2	6.1	4.6
7 Camp Reed Wind	3.6	5.4	5.0	4.1	5.8	4.4	2.4	3.9	4.5	8.1	6.8	7.3	7.2	7.0	5.3
8 Cassia Farms Wind	1.7	2.5	2.4	1.9	2.7	2.1	1.1	1.8	2.1	3.8	3.2	3.4	3.3	3.3	2.5
9 Cassia Gulch Wind	3.0	4.6	4.2	3.4	4.9	3.7	2.0	3.3	3.8	6.8	5.7	6.1	6.0	5.9	4.4
10 Chopin Wind	3.3	3.2	1.6	2.5	2.3	1.8	2.6	2.0	1.1	1.8	2.0	3.7	3.1	3.3	2.4
11 Cold Springs Wind	3.7	5.6	5.2	4.1	5.9	4.5	2.4	4.0	4.6	8.2	6.9	7.4	7.3	7.2	5.4
12 Combine Hills Wind	16.7	25.1	23.3	18.8	26.9	20.5	11.0	18.1	20.8	37.3	31.4	33.5	33.2	32.4	24.5
13 Condon Wind	8.0	12.0	11.2	9.0	12.9	9.8	5.2	8.7	10.0	17.8	15.0	16.1	15.9	15.5	11.7
14 Deep Creek Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15 Desert Meadow Windfarm	3.7	5.6	5.2	4.1	5.9	4.5	2.4	4.0	4.6	8.2	6.9	7.4	7.3	7.2	5.4
16 Durbin Creek Wind	1.6	2.4	2.2	1.8	2.6	2.0	1.1	1.7	2.0	3.6	3.0	3.2	3.2	3.1	2.4
17 Echo Wind Farm	10.4	15.6	14.5	11.6	16.7	12.7	6.8	11.2	12.9	23.1	19.5	20.8	20.6	20.1	15.2
18 Elkhorn Valley Wind Project	16.2	24.3	22.6	18.1	26.0	19.8	10.6	17.5	20.2	36.1	30.3	32.5	32.1	31.4	23.7
19 Foote Creek 1 Wind	6.7	10.0	9.3	7.5	10.7	8.2	4.4	7.2	8.3	14.8	12.5	13.4	13.2	12.9	9.7
20 Foote Creek 2 Wind	0.3	0.4	0.4	0.3	0.5	0.4	0.2	0.3	0.4	0.6	0.5	0.6	0.6	0.6	0.4
21 Foote Creek 4 Wind	2.7	4.1	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
22 Fossil Gulch Wind Project	1.7	2.5	2.4	1.9	2.7	2.1	1.1	1.8	2.1	3.8	3.2	3.4	3.3	3.3	2.5
23 Golden Valley Wind	1.9	2.9	2.7	2.2	3.1	2.4	1.3	2.1	2.4	4.3	3.6	3.9	3.8	3.7	2.8
24 Goodnoe Hills Wind	15.1	22.7	21.1	16.9	24.3	18.5	9.9	16.4	18.8	33.7	28.3	30.3	30.0	29.3	22.1
25 Goshen North (Ridgeline Wind)	20.0	30.1	27.9	22.4	32.2	24.5	13.1	21.7	24.9	44.6	37.5	40.2	39.7	38.8	29.3
26 Grayland Wind	1.0	1.4	1.3	1.1	1.6	1.2	0.6	1.0	1.2	2.2	1.8	1.9	1.9	1.9	1.4
27 Hammett Hill Wind	3.7	5.6	5.2	4.1	5.9	4.5	2.4	4.0	4.6	8.2	6.9	7.4	7.3	7.2	5.4
28 Harvest Wind	15.9	23.9	22.2	17.8	25.6	19.5	10.4	17.2	19.8	35.4	29.8	31.9	31.5	30.8	23.3
29 Hay Canyon Wind	16.2	24.3	22.6	18.2	26.0	19.9	10.6	17.6	20.2	36.1	30.4	32.5	32.1	31.4	23.7
30 Healow 2 Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31 High Mesa Wind	6.4	9.6	9.0	7.2	10.3	7.9	4.2	7.0	8.0	14.3	12.0	12.9	12.7	12.4	9.4
32 Hopkins Ridge Wind	25.2	37.8	35.1	28.2	40.5	30.8	16.5	27.3	31.4	56.1	47.2	50.5	49.9	48.8	36.9
33 Horse Butte Wind	9.3	13.9	12.9	10.4	14.9	11.3	6.1	10.0	11.5	20.6	17.4	18.6	18.4	18.0	13.6
34 Horseshoe Bend Wind Project	1.4	2.2	2.0	1.6	2.3	1.8	0.9	1.6	1.8	3.2	2.7	2.9	2.9	2.8	2.1
35 Hot Springs Wind	3.2	4.8	4.4	3.6	5.1	3.9	2.1	3.5	4.0	7.1	6.0	6.4	6.3	6.2	4.7
36 Jett Creek Wind	1.6	2.4	2.2	1.8	2.6	2.0	1.1	1.7	2.0	3.6	3.0	3.2	3.2	3.1	2.4
37 Josef Staufer - Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
38 Juniper Canyon Wind	24.3	36.5	33.9	27.3	39.1	29.8	15.9	26.3	30.3	54.2	45.6	48.8	48.2	47.1	35.6
39 Kittitas Valley Wind	16.2	24.3	22.6	18.2	26.0	19.9	10.6	17.6	20.2	36.1	30.4	32.5	32.1	31.4	23.7
40 Klondike Wind 1	3.9	5.8	5.4	4.3	6.2	4.7	2.5	4.2	4.8	8.6	7.2	7.7	7.7	7.5	5.7
41 Klondike Wind 2	12.1	18.1	16.8	13.5	19.4	14.8	7.9	13.1	15.0	26.9	22.6	24.2	23.9	23.4	17.7
42 Klondike Wind 3	36.0	54.0	50.2	40.4	57.8	44.1	23.6	39.0	44.8	80.2	67.5	72.2	71.4	69.8	52.7
43 Klondike Wind 3a	12.3	18.5	17.2	13.8	19.8	15.1	8.1	13.3	15.3	27.4	23.1	24.7	24.4	23.8	18.0
44 Knudson Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45 Leaning Juniper Wind	48.6	72.9	67.7	54.4	78.0	59.4	31.8	52.6	60.5	108.1	91.0	97.3	96.2	94.1	71.1

Regional: Non-Hydro Renewable - Wind
Operating Year: 2021 Water Year: 1937
2018 White Book Report Date: 12/1/2018
S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Non-Hydro Renewable - Wind															
46 Lewandowski Farms Wind	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
47 Lime Wind	0.5	0.7	0.7	0.5	0.8	0.6	0.3	0.5	0.6	1.1	0.9	1.0	1.0	0.9	0.7
48 Linden Ranch Wind	8.0	12.1	11.2	9.0	12.9	9.8	5.3	8.7	10.0	17.9	15.1	16.1	15.9	15.6	11.8
49 Livingston Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50 Lower Snake Wind	98.1	147.2	136.7	109.9	157.5	120.0	64.2	106.2	122.1	218.4	183.8	196.6	194.4	190.0	143.5
51 Mainline Wind	3.7	5.6	5.2	4.1	5.9	4.5	2.4	4.0	4.6	8.2	6.9	7.4	7.3	7.2	5.4
52 Marengo Wind	33.9	50.8	47.3	38.0	54.4	41.5	22.2	36.7	42.2	75.5	63.5	67.9	67.2	65.6	49.6
53 Meadow Creek Wind	19.3	28.9	26.9	21.6	30.9	23.6	12.6	20.9	24.0	42.9	36.1	38.6	38.2	37.3	28.2
54 Milner Dam Wind Farm	3.1	4.7	4.4	3.5	5.0	3.8	2.1	3.4	3.9	7.0	5.9	6.3	6.2	6.1	4.6
55 Montague	65.1	64.4	63.0	32.5	48.8	45.3	36.4	52.2	39.8	21.3	35.2	40.5	72.4	60.9	48.7
56 Nine Canyon Wind	15.4	23.2	21.5	17.3	24.8	18.9	10.1	16.7	19.2	34.4	28.9	30.9	30.6	29.9	22.6
57 Oregon Trail Wind	2.2	3.3	3.0	2.4	3.5	2.7	1.4	2.4	2.7	4.8	4.1	4.4	4.3	4.2	3.2
58 Palouse Wind	16.8	25.2	23.4	18.8	27.0	20.6	11.0	18.2	20.9	37.4	31.5	33.7	33.3	32.5	24.6
59 PaTu Wind	1.4	2.2	2.0	1.6	2.3	1.8	0.9	1.6	1.8	3.2	2.7	2.9	2.9	2.8	2.1
60 Paynes Ferry Wind Park	3.4	5.1	4.7	3.8	5.4	4.1	2.2	3.7	4.2	7.5	6.3	6.8	6.7	6.5	4.9
61 Pebble Springs Wind	15.9	23.8	22.1	17.8	25.5	19.4	10.4	17.2	19.8	35.4	29.8	31.8	31.5	30.8	23.2
62 Pilgrim Stage Station Wind Park	1.7	2.5	2.4	1.9	2.7	2.1	1.1	1.8	2.1	3.8	3.2	3.4	3.3	3.3	2.5
63 Power County Wind	7.2	10.9	10.1	8.1	11.6	8.9	4.7	7.8	9.0	16.1	13.6	14.5	14.4	14.0	10.6
64 Prospector Wind	1.6	2.4	2.2	1.8	2.6	2.0	1.1	1.7	2.0	3.6	3.0	3.2	3.2	3.1	2.4
65 Rattlesnake Road Wind Farm	16.6	24.8	23.1	18.6	26.6	20.3	10.8	17.9	20.6	36.9	31.0	33.2	32.8	32.1	24.2
66 Rock River Wind	8.0	12.1	11.2	9.0	12.9	9.8	5.3	8.7	10.0	17.9	15.1	16.1	15.9	15.6	11.8
67 Rockland wind	12.7	19.1	17.8	14.3	20.5	15.6	8.3	13.8	15.9	28.4	23.9	25.5	25.3	24.7	18.6
68 Ryegrass Wind	3.7	5.6	5.2	4.1	5.9	4.5	2.4	4.0	4.6	8.2	6.9	7.4	7.3	7.2	5.4
69 Salmon Falls Wind	3.4	5.1	4.7	3.8	5.4	4.1	2.2	3.7	4.2	7.5	6.3	6.8	6.7	6.5	4.9
70 Sawtooth Wind	3.6	5.4	5.0	4.0	5.8	4.4	2.4	3.9	4.5	8.0	6.8	7.2	7.1	7.0	5.3
71 Shepherds Flat Wind	136.0	204.0	189.6	152.3	218.3	166.4	89.0	147.2	169.3	302.8	254.8	272.5	269.5	263.4	198.9
72 Star Point Wind	15.9	23.8	22.1	17.8	25.5	19.4	10.4	17.2	19.8	35.4	29.8	31.8	31.5	30.8	23.2
73 Stateline Wind	48.3	72.5	67.4	54.1	77.6	59.1	31.6	52.3	60.2	107.6	90.5	96.9	95.8	93.6	70.7
74 Swauk Wind	0.7	1.0	1.0	0.8	1.1	0.8	0.4	0.7	0.9	1.5	1.3	1.4	1.4	1.3	1.0
75 Thousand Springs Wind Park	1.9	2.9	2.7	2.2	3.1	2.4	1.3	2.1	2.4	4.3	3.6	3.9	3.8	3.7	2.8
76 Threemile Canyon Wind	1.6	2.4	2.2	1.8	2.6	2.0	1.0	1.7	2.0	3.5	3.0	3.2	3.2	3.1	2.3
77 Tuana Gulch Wind	1.7	2.5	2.4	1.9	2.7	2.1	1.1	1.8	2.1	3.8	3.2	3.4	3.3	3.3	2.5
78 Tuana Springs Wind	2.7	4.1	3.8	3.0	4.3	3.3	1.8	2.9	3.4	6.0	5.1	5.4	5.4	5.2	4.0
79 Two Ponds Wind	3.7	5.6	5.2	4.1	5.9	4.5	2.4	4.0	4.6	8.2	6.9	7.4	7.3	7.2	5.4
80 Vansycle Wind	20.0	29.9	27.8	22.4	32.0	24.4	13.1	21.6	24.8	44.4	37.4	40.0	39.5	38.7	29.2
81 Vantage Wind	14.5	21.7	20.2	16.2	23.3	17.7	9.5	15.7	18.0	32.2	27.1	29.0	28.7	28.1	21.2
82 Wheat Field Wind	15.5	23.3	21.7	17.4	25.0	19.0	10.2	16.8	19.4	34.6	29.1	31.2	30.8	30.1	22.7
83 White Creek Wind	32.2	48.3	44.9	36.1	51.7	39.4	21.1	34.9	40.1	71.7	60.3	64.5	63.8	62.3	47.1
84 Wild Horse Wind	43.9	65.8	61.2	49.1	70.4	53.7	28.7	47.5	54.6	97.7	82.2	87.9	86.9	85.0	64.2
85 Willow Creek Wind	11.6	17.4	16.2	13.0	18.6	14.2	7.6	12.5	14.4	25.8	21.7	23.2	23.0	22.4	17.0
86 Willow Spring Wind Farm	1.6	2.4	2.2	1.8	2.6	2.0	1.1	1.7	2.0	3.6	3.0	3.2	3.2	3.1	2.4
87 Windy Point Wind	64.2	96.3	89.5	71.9	103.0	78.5	42.0	69.5	79.9	142.9	120.2	128.6	127.2	124.3	93.9
88 Wolverine Creek Wind	10.4	15.6	14.5	11.6	16.7	12.7	6.8	11.2	12.9	23.1	19.4	20.8	20.6	20.1	15.2
89 Yahoo Creek Wind	3.4	5.1	4.7	3.8	5.4	4.1	2.2	3.7	4.2	7.5	6.3	6.8	6.7	6.5	4.9
90 Total Non-Hydro Renewable - Wind	1254	1846	1717	1360	1950	1495	813	1335	1513	2656	2253	2414	2419	2355	1782

Regional: Non-Hydro Renewable - Wind
Operating Year: 2022 Water Year: 1937
2018 White Book Report Date: 12/1/2018
S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Non-Hydro Renewable - Wind															
1 3 Bar G Wind	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
2 Bennett Creek Wind	3.4	5.1	4.7	3.8	5.4	4.1	2.2	3.7	4.2	7.5	6.3	6.8	6.7	6.5	4.9
3 Benson Creek Wind	1.6	2.4	2.2	1.8	2.6	2.0	1.1	1.7	2.0	3.6	3.0	3.2	3.2	3.1	2.4
4 Big Horn Wind	40.2	60.2	56.0	45.0	64.5	49.1	26.3	43.5	50.0	89.4	75.2	80.5	79.6	77.8	58.7
5 Biglow Canyon Wind	72.4	108.6	100.9	81.1	116.2	88.6	47.4	78.4	90.1	161.1	135.6	145.0	143.4	140.2	105.9
6 Burley Butte Wind	3.1	4.7	4.4	3.5	5.0	3.8	2.1	3.4	3.9	7.0	5.9	6.3	6.2	6.1	4.6
7 Camp Reed Wind	3.6	5.4	5.0	4.1	5.8	4.4	2.4	3.9	4.5	8.1	6.8	7.3	7.2	7.0	5.3
8 Cassia Farms Wind	1.7	2.5	2.4	1.9	2.7	2.1	1.1	1.8	2.1	3.8	3.2	3.4	3.3	3.3	2.5
9 Cassia Gulch Wind	3.0	4.6	4.2	3.4	4.9	3.7	2.0	3.3	3.8	6.8	5.7	6.1	6.0	5.9	4.4
10 Chopin Wind	3.3	3.2	1.6	2.5	2.3	1.8	2.6	2.0	1.1	1.8	2.0	3.7	3.1	3.3	2.4
11 Cold Springs Wind	3.7	5.6	5.2	4.1	5.9	4.5	2.4	4.0	4.6	8.2	6.9	7.4	7.3	7.2	5.4
12 Combine Hills Wind	16.7	25.1	23.3	18.8	26.9	20.5	11.0	18.1	20.8	37.3	31.4	33.5	33.2	32.4	24.5
13 Condon Wind	8.0	12.0	11.2	9.0	12.9	9.8	5.2	8.7	10.0	17.8	15.0	16.1	15.9	15.5	11.7
14 Deep Creek Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15 Desert Meadow Windfarm	3.7	5.6	5.2	4.1	5.9	4.5	2.4	4.0	4.6	8.2	6.9	7.4	7.3	7.2	5.4
16 Durbin Creek Wind	1.6	2.4	2.2	1.8	2.6	2.0	1.1	1.7	2.0	3.6	3.0	3.2	3.2	3.1	2.4
17 Echo Wind Farm	10.4	15.6	14.5	11.6	16.7	12.7	6.8	11.2	12.9	23.1	19.5	20.8	20.6	20.1	15.2
18 Elkhorn Valley Wind Project	16.2	24.3	22.6	18.1	26.0	19.8	10.6	17.5	20.2	36.1	30.3	32.5	32.1	31.4	23.7
19 Foote Creek 1 Wind	6.7	10.0	9.3	7.5	10.7	8.2	4.4	7.2	8.3	14.8	12.5	13.4	13.2	12.9	9.7
20 Foote Creek 2 Wind	0.3	0.4	0.4	0.3	0.5	0.4	0.2	0.3	0.4	0.6	0.5	0.6	0.6	0.6	0.4
21 Foote Creek 4 Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22 Fossil Gulch Wind Project	1.7	2.5	2.4	1.9	2.7	2.1	1.1	1.8	2.1	3.8	3.2	3.4	3.3	3.3	2.5
23 Golden Valley Wind	1.9	2.9	2.7	2.2	3.1	2.4	1.3	2.1	2.4	4.3	3.6	3.9	3.8	3.7	2.8
24 Goodnoe Hills Wind	15.1	22.7	21.1	16.9	24.3	18.5	9.9	16.4	18.8	33.7	28.3	30.3	30.0	29.3	22.1
25 Goshen North (Ridgeline Wind)	20.0	30.1	27.9	22.4	32.2	24.5	13.1	21.7	24.9	44.6	37.5	40.2	39.7	38.8	29.3
26 Grayland Wind	1.0	1.4	1.3	1.1	1.6	1.2	0.6	1.0	1.2	2.2	1.8	1.9	1.9	1.9	1.4
27 Hammett Hill Wind	3.7	5.6	5.2	4.1	5.9	4.5	2.4	4.0	4.6	8.2	6.9	7.4	7.3	7.2	5.4
28 Harvest Wind	15.9	23.9	22.2	17.8	25.6	19.5	10.4	17.2	19.8	35.4	29.8	31.9	31.5	30.8	23.3
29 Hay Canyon Wind	16.2	24.3	22.6	18.2	26.0	19.9	10.6	17.6	20.2	36.1	30.4	32.5	32.1	31.4	23.7
30 Healow 2 Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31 High Mesa Wind	6.4	9.6	9.0	7.2	10.3	7.9	4.2	7.0	8.0	14.3	12.0	12.9	12.7	12.4	9.4
32 Hopkins Ridge Wind	25.2	37.8	35.1	28.2	40.5	30.8	16.5	27.3	31.4	56.1	47.2	50.5	49.9	48.8	36.9
33 Horse Butte Wind	9.3	13.9	12.9	10.4	14.9	11.3	6.1	10.0	11.5	20.6	17.4	18.6	18.4	18.0	13.6
34 Horseshoe Bend Wind Project	1.4	2.2	2.0	1.6	2.3	1.8	0.9	1.6	1.8	3.2	2.7	2.9	2.9	2.8	2.1
35 Hot Springs Wind	3.2	4.8	4.4	3.6	5.1	3.9	2.1	3.5	4.0	7.1	6.0	6.4	6.3	6.2	4.7
36 Jett Creek Wind	1.6	2.4	2.2	1.8	2.6	2.0	1.1	1.7	2.0	3.6	3.0	3.2	3.2	3.1	2.4
37 Josef Staufer - Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
38 Juniper Canyon Wind	24.3	36.5	33.9	27.3	39.1	29.8	15.9	26.3	30.3	54.2	45.6	48.8	48.2	47.1	35.6
39 Kittitas Valley Wind	16.2	24.3	22.6	18.2	26.0	19.9	10.6	17.6	20.2	36.1	30.4	32.5	32.1	31.4	23.7
40 Klondike Wind 1	3.9	5.8	5.4	4.3	6.2	4.7	2.5	4.2	4.8	8.6	7.2	7.7	7.7	7.5	5.7
41 Klondike Wind 2	12.1	18.1	16.8	13.5	19.4	14.8	7.9	13.1	15.0	26.9	22.6	24.2	23.9	23.4	17.7
42 Klondike Wind 3	36.0	54.0	50.2	40.4	57.8	44.1	23.6	39.0	44.8	80.2	67.5	72.2	71.4	69.8	52.7
43 Klondike Wind 3a	12.3	18.5	17.2	13.8	19.8	15.1	8.1	13.3	15.3	27.4	23.1	24.7	24.4	23.8	18.0
44 Knudson Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45 Leaning Juniper Wind	48.6	72.9	67.7	54.4	78.0	59.4	31.8	52.6	60.5	108.1	91.0	97.3	96.2	94.1	71.1

Regional: Non-Hydro Renewable - Wind
Operating Year: 2022 Water Year: 1937
2018 White Book Report Date: 12/1/2018
S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Non-Hydro Renewable - Wind															
46 Lewandowski Farms Wind	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
47 Lime Wind	0.5	0.7	0.7	0.5	0.8	0.6	0.3	0.5	0.6	1.1	0.9	1.0	1.0	0.9	0.7
48 Linden Ranch Wind	8.0	12.1	11.2	9.0	12.9	9.8	5.3	8.7	10.0	17.9	15.1	16.1	15.9	15.6	11.8
49 Livingston Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50 Lower Snake Wind	98.1	147.2	136.7	109.9	157.5	120.0	64.2	106.2	122.1	218.4	183.8	196.6	194.4	190.0	143.5
51 Mainline Wind	3.7	5.6	5.2	4.1	5.9	4.5	2.4	4.0	4.6	8.2	6.9	7.4	7.3	7.2	5.4
52 Marengo Wind	33.9	50.8	47.3	38.0	54.4	41.5	22.2	36.7	42.2	75.5	63.5	67.9	67.2	65.6	49.6
53 Meadow Creek Wind	19.3	28.9	26.9	21.6	30.9	23.6	12.6	20.9	24.0	42.9	36.1	38.6	38.2	37.3	28.2
54 Milner Dam Wind Farm	3.1	4.7	4.4	3.5	5.0	3.8	2.1	3.4	3.9	7.0	5.9	6.3	6.2	6.1	4.6
55 Montague	65.1	64.4	63.0	32.5	48.8	45.3	36.4	52.2	39.8	21.3	35.2	40.5	72.4	60.9	48.7
56 Nine Canyon Wind	15.4	23.2	21.5	17.3	24.8	18.9	10.1	16.7	19.2	34.4	28.9	30.9	30.6	29.9	22.6
57 Oregon Trail Wind	2.2	3.3	3.0	2.4	3.5	2.7	1.4	2.4	2.7	4.8	4.1	4.4	4.3	4.2	3.2
58 Palouse Wind	16.8	25.2	23.4	18.8	27.0	20.6	11.0	18.2	20.9	37.4	31.5	33.7	33.3	32.5	24.6
59 PaTu Wind	1.4	2.2	2.0	1.6	2.3	1.8	0.9	1.6	1.8	3.2	2.7	2.9	2.9	2.8	2.1
60 Paynes Ferry Wind Park	3.4	5.1	4.7	3.8	5.4	4.1	2.2	3.7	4.2	7.5	6.3	6.8	6.7	6.5	4.9
61 Pebble Springs Wind	15.9	23.8	22.1	17.8	25.5	19.4	10.4	17.2	19.8	35.4	29.8	31.8	31.5	30.8	23.2
62 Pilgrim Stage Station Wind Park	1.7	2.5	2.4	1.9	2.7	2.1	1.1	1.8	2.1	3.8	3.2	3.4	3.3	3.3	2.5
63 Power County Wind	7.2	10.9	10.1	8.1	11.6	8.9	4.7	7.8	9.0	16.1	13.6	14.5	14.4	14.0	10.6
64 Prospector Wind	1.6	2.4	2.2	1.8	2.6	2.0	1.1	1.7	2.0	3.6	3.0	3.2	3.2	3.1	2.4
65 Rattlesnake Road Wind Farm	16.6	24.8	23.1	18.6	26.6	20.3	10.8	17.9	20.6	36.9	31.0	33.2	32.8	32.1	24.2
66 Rock River Wind	8.0	12.1	11.2	9.0	12.9	9.8	5.3	8.7	10.0	17.9	15.1	16.1	15.9	15.6	11.8
67 Rockland wind	12.7	19.1	17.8	14.3	20.5	15.6	8.3	13.8	15.9	28.4	23.9	25.5	25.3	24.7	18.6
68 Ryegrass Wind	3.7	5.6	5.2	4.1	5.9	4.5	2.4	4.0	4.6	8.2	6.9	7.4	7.3	7.2	5.4
69 Salmon Falls Wind	3.4	5.1	4.7	3.8	5.4	4.1	2.2	3.7	4.2	7.5	6.3	6.8	6.7	6.5	4.9
70 Sawtooth Wind	3.6	5.4	5.0	4.0	5.8	4.4	2.4	3.9	4.5	8.0	6.8	7.2	7.1	7.0	5.3
71 Shepherds Flat Wind	136.0	204.0	189.6	152.3	218.3	166.4	89.0	147.2	169.3	302.8	254.8	272.5	269.5	263.4	198.9
72 Star Point Wind	15.9	23.8	22.1	17.8	25.5	19.4	10.4	17.2	19.8	35.4	29.8	31.8	31.5	30.8	23.2
73 Stateline Wind	48.3	72.5	67.4	54.1	77.6	59.1	31.6	52.3	60.2	107.6	90.5	96.9	95.8	93.6	70.7
74 Swauk Wind	0.7	1.0	1.0	0.8	1.1	0.8	0.4	0.7	0.9	1.5	1.3	1.4	1.4	1.3	1.0
75 Thousand Springs Wind Park	1.9	2.9	2.7	2.2	3.1	2.4	1.3	2.1	2.4	4.3	3.6	3.9	3.8	3.7	2.8
76 Threemile Canyon Wind	1.6	2.4	2.2	1.8	2.6	2.0	1.0	1.7	2.0	3.5	3.0	3.2	3.2	3.1	2.3
77 Tuana Gulch Wind	1.7	2.5	2.4	1.9	2.7	2.1	1.1	1.8	2.1	3.8	3.2	3.4	3.3	3.3	2.5
78 Tuana Springs Wind	2.7	4.1	3.8	3.0	4.3	3.3	1.8	2.9	3.4	6.0	5.1	5.4	5.4	5.2	4.0
79 Two Ponds Wind	3.7	5.6	5.2	4.1	5.9	4.5	2.4	4.0	4.6	8.2	6.9	7.4	7.3	7.2	5.4
80 Vansycle Wind	20.0	29.9	27.8	22.4	32.0	24.4	13.1	21.6	24.8	44.4	37.4	40.0	39.5	38.7	29.2
81 Vantage Wind	14.5	21.7	20.2	16.2	23.3	17.7	9.5	15.7	18.0	32.2	27.1	29.0	28.7	28.1	21.2
82 Wheat Field Wind	15.5	23.3	21.7	17.4	25.0	19.0	10.2	16.8	19.4	34.6	29.1	31.2	30.8	30.1	22.7
83 White Creek Wind	32.2	48.3	44.9	36.1	51.7	39.4	21.1	34.9	40.1	71.7	60.3	64.5	63.8	62.3	47.1
84 Wild Horse Wind	43.9	65.8	61.2	49.1	70.4	53.7	28.7	47.5	54.6	97.7	82.2	87.9	86.9	85.0	64.2
85 Willow Creek Wind	11.6	17.4	16.2	13.0	18.6	14.2	7.6	12.5	14.4	25.8	21.7	23.2	23.0	22.4	17.0
86 Willow Spring Wind Farm	1.6	2.4	2.2	1.8	2.6	2.0	1.1	1.7	2.0	3.6	3.0	3.2	3.2	3.1	2.4
87 Windy Point Wind	64.2	96.3	89.5	71.9	103.0	78.5	42.0	69.5	79.9	142.9	120.2	128.6	127.2	124.3	93.9
88 Wolverine Creek Wind	10.4	15.6	14.5	11.6	16.7	12.7	6.8	11.2	12.9	23.1	19.4	20.8	20.6	20.1	15.2
89 Yahoo Creek Wind	3.4	5.1	4.7	3.8	5.4	4.1	2.2	3.7	4.2	7.5	6.3	6.8	6.7	6.5	4.9
90 Total Non-Hydro Renewable - Wind	1252	1842	1714	1360	1950	1495	813	1335	1513	2656	2253	2414	2419	2355	1781

Regional: Non-Hydro Renewable - Wind
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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Non-Hydro Renewable - Wind															
1 3 Bar G Wind	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
2 Bennett Creek Wind	3.4	5.1	4.7	3.8	5.4	4.1	2.2	3.7	4.2	7.5	6.3	6.8	6.7	6.5	4.9
3 Benson Creek Wind	1.6	2.4	2.2	1.8	2.6	2.0	1.1	1.7	2.0	3.6	3.0	3.2	3.2	3.1	2.4
4 Big Horn Wind	40.2	60.2	56.0	45.0	64.5	49.1	26.3	43.5	50.0	89.4	75.2	80.5	79.6	77.8	58.7
5 Biglow Canyon Wind	72.4	108.6	100.9	81.1	116.2	88.6	47.4	78.4	90.1	161.1	135.6	145.0	143.4	140.2	105.9
6 Burley Butte Wind	3.1	4.7	4.4	3.5	5.0	3.8	2.1	3.4	3.9	7.0	5.9	6.3	6.2	6.1	4.6
7 Camp Reed Wind	3.6	5.4	5.0	4.1	5.8	4.4	2.4	3.9	4.5	8.1	6.8	7.3	7.2	7.0	5.3
8 Cassia Farms Wind	1.7	2.5	2.4	1.9	2.7	2.1	1.1	1.8	2.1	3.8	3.2	3.4	3.3	3.3	2.5
9 Cassia Gulch Wind	3.0	4.6	4.2	3.4	4.9	3.7	2.0	3.3	3.8	6.8	5.7	6.1	6.0	5.9	4.4
10 Chopin Wind	3.3	3.2	1.6	2.5	2.3	1.8	2.6	2.0	1.1	1.8	2.0	3.7	3.1	3.3	2.4
11 Cold Springs Wind	3.7	5.6	5.2	4.1	5.9	4.5	2.4	4.0	4.6	8.2	6.9	7.4	7.3	7.2	5.4
12 Combine Hills Wind	16.7	25.1	23.3	18.8	26.9	20.5	11.0	18.1	20.8	37.3	31.4	33.5	33.2	32.4	24.5
13 Condon Wind	8.0	12.0	11.2	9.0	12.9	9.8	5.2	8.7	10.0	17.8	15.0	16.1	15.9	15.5	11.7
14 Deep Creek Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15 Desert Meadow Windfarm	3.7	5.6	5.2	4.1	5.9	4.5	2.4	4.0	4.6	8.2	6.9	7.4	7.3	7.2	5.4
16 Durbin Creek Wind	1.6	2.4	2.2	1.8	2.6	2.0	1.1	1.7	2.0	3.6	3.0	3.2	3.2	3.1	2.4
17 Echo Wind Farm	10.4	15.6	14.5	11.6	16.7	12.7	6.8	11.2	12.9	23.1	19.5	20.8	20.6	20.1	15.2
18 Elkhorn Valley Wind Project	16.2	24.3	22.6	18.1	26.0	19.8	10.6	17.5	20.2	36.1	30.3	32.5	32.1	31.4	23.7
19 Foote Creek 1 Wind	6.7	10.0	9.3	7.5	10.7	8.2	4.4	7.2	8.3	14.8	12.5	13.4	13.2	12.9	9.7
20 Foote Creek 2 Wind	0.3	0.4	0.4	0.3	0.5	0.4	0.2	0.3	0.4	0.6	0.5	0.6	0.6	0.6	0.4
21 Foote Creek 4 Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22 Fossil Gulch Wind Project	1.7	2.5	2.4	1.9	2.7	2.1	1.1	1.8	2.1	3.8	3.2	3.4	3.3	3.3	2.5
23 Golden Valley Wind	1.9	2.9	2.7	2.2	3.1	2.4	1.3	2.1	2.4	4.3	3.6	3.9	3.8	3.7	2.8
24 Goodnoe Hills Wind	15.1	22.7	21.1	16.9	24.3	18.5	9.9	16.4	18.8	33.7	28.3	30.3	30.0	29.3	22.1
25 Goshen North (Ridgeline Wind)	20.0	30.1	27.9	22.4	32.2	24.5	13.1	21.7	24.9	44.6	37.5	40.2	39.7	38.8	29.3
26 Grayland Wind	1.0	1.4	1.3	1.1	1.6	1.2	0.6	1.0	1.2	2.2	1.8	1.9	1.9	1.9	1.4
27 Hammett Hill Wind	3.7	5.6	5.2	4.1	5.9	4.5	2.4	4.0	4.6	8.2	6.9	7.4	7.3	7.2	5.4
28 Harvest Wind	15.9	23.9	22.2	17.8	25.6	19.5	10.4	17.2	19.8	35.4	29.8	31.9	31.5	30.8	23.3
29 Hay Canyon Wind	16.2	24.3	22.6	18.2	26.0	19.9	10.6	17.6	20.2	36.1	30.4	32.5	32.1	31.4	23.7
30 Healow 2 Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31 High Mesa Wind	6.4	9.6	9.0	7.2	10.3	7.9	4.2	7.0	8.0	14.3	12.0	12.9	12.7	12.4	9.4
32 Hopkins Ridge Wind	25.2	37.8	35.1	28.2	40.5	30.8	16.5	27.3	31.4	56.1	47.2	50.5	49.9	48.8	36.9
33 Horse Butte Wind	9.3	13.9	12.9	10.4	14.9	11.3	6.1	10.0	11.5	20.6	17.4	18.6	18.4	18.0	13.6
34 Horseshoe Bend Wind Project	1.4	2.2	2.0	1.6	2.3	1.8	0.9	1.6	1.8	3.2	2.7	2.9	2.9	2.8	2.1
35 Hot Springs Wind	3.2	4.8	4.4	3.6	5.1	3.9	2.1	3.5	4.0	7.1	6.0	6.4	6.3	6.2	4.7
36 Jett Creek Wind	1.6	2.4	2.2	1.8	2.6	2.0	1.1	1.7	2.0	3.6	3.0	3.2	3.2	3.1	2.4
37 Josef Staufer - Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
38 Juniper Canyon Wind	24.3	36.5	33.9	27.3	39.1	29.8	15.9	26.3	30.3	54.2	45.6	48.8	48.2	47.1	35.6
39 Kittitas Valley Wind	16.2	24.3	22.6	18.2	26.0	19.9	10.6	17.6	20.2	36.1	30.4	32.5	32.1	31.4	23.7
40 Klondike Wind 1	3.9	5.8	5.4	4.3	6.2	4.7	2.5	4.2	4.8	8.6	7.2	7.7	7.7	7.5	5.7
41 Klondike Wind 2	12.1	18.1	16.8	13.5	19.4	14.8	7.9	13.1	15.0	26.9	22.6	24.2	23.9	23.4	17.7
42 Klondike Wind 3	36.0	54.0	50.2	40.4	57.8	44.1	23.6	39.0	44.8	80.2	67.5	72.2	71.4	69.8	52.7
43 Klondike Wind 3a	12.3	18.5	17.2	13.8	19.8	15.1	8.1	13.3	15.3	27.4	23.1	24.7	24.4	23.8	18.0
44 Knudson Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45 Leaning Juniper Wind	48.6	72.9	67.7	54.4	78.0	59.4	31.8	52.6	60.5	108.1	91.0	97.3	96.2	94.1	71.1

Regional: Non-Hydro Renewable - Wind
Operating Year: 2023 Water Year: 1937
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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Non-Hydro Renewable - Wind															
46 Lewandowski Farms Wind	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
47 Lime Wind	0.5	0.7	0.7	0.5	0.8	0.6	0.3	0.5	0.6	1.1	0.9	1.0	1.0	0.9	0.7
48 Linden Ranch Wind	8.0	12.1	11.2	9.0	12.9	9.8	5.3	8.7	10.0	17.9	15.1	16.1	15.9	15.6	11.8
49 Livingston Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50 Lower Snake Wind	98.1	147.2	136.7	109.9	157.5	120.0	64.2	106.2	122.1	218.4	183.8	196.6	194.4	190.0	143.5
51 Mainline Wind	3.7	5.6	5.2	4.1	5.9	4.5	2.4	4.0	4.6	8.2	6.9	7.4	7.3	7.2	5.4
52 Marengo Wind	33.9	50.8	47.3	38.0	54.4	41.5	22.2	36.7	42.2	75.5	63.5	67.9	67.2	65.6	49.6
53 Meadow Creek Wind	19.3	28.9	26.9	21.6	30.9	23.6	12.6	20.9	24.0	42.9	36.1	38.6	38.2	37.3	28.2
54 Milner Dam Wind Farm	3.1	4.7	4.4	3.5	5.0	3.8	2.1	3.4	3.9	7.0	5.9	6.3	6.2	6.1	4.6
55 Montague	65.1	64.4	63.0	32.5	48.8	45.3	36.4	52.2	39.8	21.3	35.2	40.5	72.4	60.9	48.7
56 Nine Canyon Wind	15.4	23.2	21.5	17.3	24.8	18.9	10.1	16.7	19.2	34.4	28.9	30.9	30.6	29.9	22.6
57 Oregon Trail Wind	2.2	3.3	3.0	2.4	3.5	2.7	1.4	2.4	2.7	4.8	4.1	4.4	4.3	4.2	3.2
58 Palouse Wind	16.8	25.2	23.4	18.8	27.0	20.6	11.0	18.2	20.9	37.4	31.5	33.7	33.3	32.5	24.6
59 PaTu Wind	1.4	2.2	2.0	1.6	2.3	1.8	0.9	1.6	1.8	3.2	2.7	2.9	2.9	2.8	2.1
60 Paynes Ferry Wind Park	3.4	5.1	4.7	3.8	5.4	4.1	2.2	3.7	4.2	7.5	6.3	6.8	6.7	6.5	4.9
61 Pebble Springs Wind	15.9	23.8	22.1	17.8	25.5	19.4	10.4	17.2	19.8	35.4	29.8	31.8	31.5	30.8	23.2
62 Pilgrim Stage Station Wind Park	1.7	2.5	2.4	1.9	2.7	2.1	1.1	1.8	2.1	3.8	3.2	3.4	3.3	3.3	2.5
63 Power County Wind	7.2	10.9	10.1	8.1	11.6	8.9	4.7	7.8	9.0	16.1	13.6	14.5	14.4	14.0	10.6
64 Prospector Wind	1.6	2.4	2.2	1.8	2.6	2.0	1.1	1.7	2.0	3.6	3.0	3.2	3.2	3.1	2.4
65 Rattlesnake Road Wind Farm	16.6	24.8	23.1	18.6	26.6	20.3	10.8	17.9	20.6	36.9	31.0	33.2	32.8	32.1	24.2
66 Rock River Wind	8.0	12.1	11.2	9.0	12.9	9.8	5.3	8.7	10.0	17.9	15.1	16.1	15.9	15.6	11.8
67 Rockland wind	12.7	19.1	17.8	14.3	20.5	15.6	8.3	13.8	15.9	28.4	23.9	25.5	25.3	24.7	18.6
68 Ryegrass Wind	3.7	5.6	5.2	4.1	5.9	4.5	2.4	4.0	4.6	8.2	6.9	7.4	7.3	7.2	5.4
69 Salmon Falls Wind	3.4	5.1	4.7	3.8	5.4	4.1	2.2	3.7	4.2	7.5	6.3	6.8	6.7	6.5	4.9
70 Sawtooth Wind	3.6	5.4	5.0	4.0	5.8	4.4	2.4	3.9	4.5	8.0	6.8	7.2	7.1	7.0	5.3
71 Shepherds Flat Wind	136.0	204.0	189.6	152.3	218.3	166.4	89.0	147.2	169.3	302.8	254.8	272.5	269.5	263.4	198.9
72 Star Point Wind	15.9	23.8	22.1	17.8	25.5	19.4	10.4	17.2	19.8	35.4	29.8	31.8	31.5	30.8	23.2
73 Stateline Wind	48.3	72.5	67.4	54.1	77.6	59.1	31.6	52.3	60.2	107.6	90.5	96.9	95.8	93.6	70.7
74 Swauk Wind	0.7	1.0	1.0	0.8	1.1	0.8	0.4	0.7	0.9	1.5	1.3	1.4	1.4	1.3	1.0
75 Thousand Springs Wind Park	1.9	2.9	2.7	2.2	3.1	2.4	1.3	2.1	2.4	4.3	3.6	3.9	3.8	3.7	2.8
76 Threemile Canyon Wind	1.6	2.4	2.2	1.8	2.6	2.0	1.0	1.7	2.0	3.5	3.0	3.2	3.2	3.1	2.3
77 Tuana Gulch Wind	1.7	2.5	2.4	1.9	2.7	2.1	1.1	1.8	2.1	3.8	3.2	3.4	3.3	3.3	2.5
78 Tuana Springs Wind	2.7	4.1	3.8	3.0	4.3	3.3	1.8	2.9	3.4	6.0	5.1	5.4	5.4	5.2	4.0
79 Two Ponds Wind	3.7	5.6	5.2	4.1	5.9	4.5	2.4	4.0	4.6	8.2	6.9	7.4	7.3	7.2	5.4
80 Vansycle Wind	20.0	29.9	27.8	22.4	32.0	24.4	13.1	21.6	24.8	44.4	37.4	40.0	39.5	38.7	29.2
81 Vantage Wind	14.5	21.7	20.2	16.2	23.3	17.7	9.5	15.7	18.0	32.2	27.1	29.0	28.7	28.1	21.2
82 Wheat Field Wind	15.5	23.3	21.7	17.4	25.0	19.0	10.2	16.8	19.4	34.6	29.1	31.2	30.8	30.1	22.7
83 White Creek Wind	32.2	48.3	44.9	36.1	51.7	39.4	21.1	34.9	40.1	71.7	60.3	64.5	63.8	62.3	47.1
84 Wild Horse Wind	43.9	65.8	61.2	49.1	70.4	53.7	28.7	47.5	54.6	97.7	82.2	87.9	86.9	85.0	64.2
85 Willow Creek Wind	11.6	17.4	16.2	13.0	18.6	14.2	7.6	12.5	14.4	25.8	21.7	23.2	23.0	22.4	17.0
86 Willow Spring Wind Farm	1.6	2.4	2.2	1.8	2.6	2.0	1.1	1.7	2.0	3.6	3.0	3.2	3.2	3.1	2.4
87 Windy Point Wind	64.2	96.3	89.5	71.9	103.0	78.5	42.0	69.5	79.9	142.9	120.2	128.6	127.2	124.3	93.9
88 Wolverine Creek Wind	10.4	15.6	14.5	11.6	16.7	12.7	6.8	11.2	12.9	23.1	19.4	20.8	20.6	20.1	15.2
89 Yahoo Creek Wind	3.4	5.1	4.7	3.8	5.4	4.1	2.2	3.7	4.2	7.5	6.3	6.8	6.7	6.5	4.9
90 Total Non-Hydro Renewable - Wind	1252	1842	1714	1360	1950	1495	813	1335	1513	2656	2253	2414	2419	2355	1781

Regional: Non-Hydro Renewable - Wind
Operating Year: 2024 Water Year: 1937
2018 White Book Report Date: 12/1/2018
S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Non-Hydro Renewable - Wind															
1 3 Bar G Wind	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
2 Bennett Creek Wind	3.4	5.1	4.7	3.8	5.4	4.1	2.2	3.7	4.2	7.5	6.3	6.8	6.7	6.5	4.9
3 Benson Creek Wind	1.6	2.4	2.2	1.8	2.6	2.0	1.1	1.7	2.0	3.6	3.0	3.2	3.2	3.1	2.4
4 Big Horn Wind	40.2	60.2	56.0	45.0	64.5	49.1	26.3	43.5	50.0	89.4	75.2	80.5	79.6	77.8	58.7
5 Biglow Canyon Wind	72.4	108.6	100.9	81.1	116.2	88.6	47.4	78.4	90.1	161.1	135.6	145.0	143.4	140.2	105.8
6 Burley Butte Wind	3.1	4.7	4.4	3.5	5.0	3.8	2.1	3.4	3.9	7.0	5.9	6.3	6.2	6.1	4.6
7 Camp Reed Wind	3.6	5.4	5.0	4.1	5.8	4.4	2.4	3.9	4.5	8.1	6.8	7.3	7.2	7.0	5.3
8 Cassia Farms Wind	1.7	2.5	2.4	1.9	2.7	2.1	1.1	1.8	2.1	3.8	3.2	3.4	3.3	3.3	2.5
9 Cassia Gulch Wind	3.0	4.6	4.2	3.4	4.9	3.7	2.0	3.3	3.8	6.8	5.7	6.1	6.0	5.9	4.4
10 Chopin Wind	3.3	3.2	1.6	2.5	2.3	1.8	2.6	2.0	1.1	1.8	2.0	3.7	3.1	3.3	2.4
11 Cold Springs Wind	3.7	5.6	5.2	4.1	5.9	4.5	2.4	4.0	4.6	8.2	6.9	7.4	7.3	7.2	5.4
12 Combine Hills Wind	16.7	25.1	23.3	18.8	26.9	20.5	11.0	18.1	20.8	37.3	31.4	33.5	33.2	32.4	24.5
13 Condon Wind	8.0	12.0	11.2	9.0	12.9	9.8	5.2	8.7	10.0	17.8	15.0	16.1	15.9	15.5	11.7
14 Deep Creek Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15 Desert Meadow Windfarm	3.7	5.6	5.2	4.1	5.9	4.5	2.4	4.0	4.6	8.2	6.9	7.4	7.3	7.2	5.4
16 Durbin Creek Wind	1.6	2.4	2.2	1.8	2.6	2.0	1.1	1.7	2.0	3.6	3.0	3.2	3.2	3.1	2.4
17 Echo Wind Farm	10.4	15.6	14.5	11.6	16.7	12.7	6.8	11.2	12.9	23.1	19.5	20.8	20.6	20.1	15.2
18 Elkhorn Valley Wind Project	16.2	24.3	22.6	18.1	26.0	19.8	10.6	17.5	20.2	36.1	30.3	32.5	32.1	31.4	23.7
19 Foote Creek 1 Wind	6.7	10.0	9.3	7.5	10.7	8.2	4.4	7.2	8.3	14.8	12.5	13.4	13.2	12.9	9.7
20 Foote Creek 2 Wind	0.3	0.4	0.4	0.3	0.5	0.4	0.2	0.3	0.4	0.6	0.5	0.6	0.6	0.6	0.4
21 Foote Creek 4 Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22 Fossil Gulch Wind Project	1.7	2.5	2.4	1.9	2.7	2.1	1.1	1.8	2.1	3.8	3.2	3.4	3.3	3.3	2.5
23 Golden Valley Wind	1.9	2.9	2.7	2.2	3.1	2.4	1.3	2.1	2.4	4.3	3.6	3.9	3.8	3.7	2.8
24 Goodnoe Hills Wind	15.1	22.7	21.1	16.9	24.3	18.5	9.9	16.4	18.8	33.7	28.3	30.3	30.0	29.3	22.1
25 Goshen North (Ridgeline Wind)	20.0	30.1	27.9	22.4	32.2	24.5	13.1	21.7	24.9	44.6	37.5	40.2	39.7	38.8	29.3
26 Grayland Wind	1.0	1.4	1.3	1.1	1.6	1.2	0.6	1.0	1.2	2.2	1.8	1.9	1.9	1.9	1.4
27 Hammett Hill Wind	3.7	5.6	5.2	4.1	5.9	4.5	2.4	4.0	4.6	8.2	6.9	7.4	7.3	7.2	5.4
28 Harvest Wind	15.9	23.9	22.2	17.8	25.6	19.5	10.4	17.2	19.8	35.4	29.8	31.9	31.5	30.8	23.3
29 Hay Canyon Wind	16.2	24.3	22.6	18.2	26.0	19.9	10.6	17.6	20.2	36.1	30.4	32.5	32.1	31.4	23.7
30 Healow 2 Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31 High Mesa Wind	6.4	9.6	9.0	7.2	10.3	7.9	4.2	7.0	8.0	14.3	12.0	12.9	12.7	12.4	9.4
32 Hopkins Ridge Wind	25.2	37.8	35.1	28.2	40.5	30.8	16.5	27.3	31.4	56.1	47.2	50.5	49.9	48.8	36.8
33 Horse Butte Wind	9.3	13.9	12.9	10.4	14.9	11.3	6.1	10.0	11.5	20.6	17.4	18.6	18.4	18.0	13.6
34 Horseshoe Bend Wind Project	1.4	2.2	2.0	1.6	2.3	1.8	0.9	1.6	1.8	3.2	2.7	2.9	2.9	2.8	2.1
35 Hot Springs Wind	3.2	4.8	4.4	3.6	5.1	3.9	2.1	3.5	4.0	7.1	6.0	6.4	6.3	6.2	4.7
36 Jett Creek Wind	1.6	2.4	2.2	1.8	2.6	2.0	1.1	1.7	2.0	3.6	3.0	3.2	3.2	3.1	2.4
37 Josef Staufer - Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
38 Juniper Canyon Wind	24.3	36.5	33.9	27.3	39.1	29.8	15.9	26.3	30.3	54.2	45.6	48.8	48.2	47.1	35.6
39 Kittitas Valley Wind	16.2	24.3	22.6	18.2	26.0	19.9	10.6	17.6	20.2	36.1	30.4	32.5	32.1	31.4	23.7
40 Klondike Wind 1	3.9	5.8	5.4	4.3	6.2	4.7	2.5	4.2	4.8	8.6	7.2	7.7	7.7	7.5	5.6
41 Klondike Wind 2	12.1	18.1	16.8	13.5	19.4	14.8	7.9	13.1	15.0	26.9	22.6	24.2	23.9	23.4	17.6
42 Klondike Wind 3	36.0	54.0	50.2	40.4	57.8	44.1	23.6	39.0	44.8	80.2	67.5	72.2	71.4	69.8	52.7
43 Klondike Wind 3a	12.3	18.5	17.2	13.8	19.8	15.1	8.1	13.3	15.3	27.4	23.1	24.7	24.4	23.8	18.0
44 Knudson Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45 Leaning Juniper Wind	48.6	72.9	67.7	54.4	78.0	59.4	31.8	52.6	60.5	108.1	91.0	97.3	96.2	94.1	71.0

Regional: Non-Hydro Renewable - Wind
Operating Year: 2024 Water Year: 1937
2018 White Book Report Date: 12/1/2018
S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Non-Hydro Renewable - Wind															
46 Lewandowski Farms Wind	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
47 Lime Wind	0.5	0.7	0.7	0.5	0.8	0.6	0.3	0.5	0.6	1.1	0.9	1.0	1.0	0.9	0.7
48 Linden Ranch Wind	8.0	12.1	11.2	9.0	12.9	9.8	5.3	8.7	10.0	17.9	15.1	16.1	15.9	15.6	11.8
49 Livingston Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50 Lower Snake Wind	98.1	147.2	136.7	109.9	157.5	120.0	64.2	106.2	122.1	218.4	183.8	196.6	194.4	190.0	143.4
51 Mainline Wind	3.7	5.6	5.2	4.1	5.9	4.5	2.4	4.0	4.6	8.2	6.9	7.4	7.3	7.2	5.4
52 Marengo Wind	33.9	50.8	47.3	38.0	54.4	41.5	22.2	36.7	42.2	75.5	63.5	67.9	67.2	65.6	49.5
53 Meadow Creek Wind	19.3	28.9	26.9	21.6	30.9	23.6	12.6	20.9	24.0	42.9	36.1	38.6	38.2	37.3	28.2
54 Milner Dam Wind Farm	3.1	4.7	4.4	3.5	5.0	3.8	2.1	3.4	3.9	7.0	5.9	6.3	6.2	6.1	4.6
55 Montague	65.1	64.4	63.0	32.5	48.8	45.3	36.4	52.2	39.8	21.3	35.2	40.5	72.4	60.9	48.7
56 Nine Canyon Wind	15.4	23.2	21.5	17.3	24.8	18.9	10.1	16.7	19.2	34.4	28.9	30.9	30.6	29.9	22.6
57 Oregon Trail Wind	2.2	3.3	3.0	2.4	3.5	2.7	1.4	2.4	2.7	4.8	4.1	4.4	4.3	4.2	3.2
58 Palouse Wind	16.8	25.2	23.4	18.8	27.0	20.6	11.0	18.2	20.9	37.4	31.5	33.7	33.3	32.5	24.6
59 PaTu Wind	1.4	2.2	2.0	1.6	2.3	1.8	0.9	1.6	1.8	3.2	2.7	2.9	2.9	2.8	2.1
60 Paynes Ferry Wind Park	3.4	5.1	4.7	3.8	5.4	4.1	2.2	3.7	4.2	7.5	6.3	6.8	6.7	6.5	4.9
61 Pebble Springs Wind	15.9	23.8	22.1	17.8	25.5	19.4	10.4	17.2	19.8	35.4	29.8	31.8	31.5	30.8	23.2
62 Pilgrim Stage Station Wind Park	1.7	2.5	2.4	1.9	2.7	2.1	1.1	1.8	2.1	3.8	3.2	3.4	3.3	3.3	2.5
63 Power County Wind	7.2	10.9	10.1	8.1	11.6	8.9	4.7	7.8	9.0	16.1	13.6	14.5	14.4	14.0	10.6
64 Prospector Wind	1.6	2.4	2.2	1.8	2.6	2.0	1.1	1.7	2.0	3.6	3.0	3.2	3.2	3.1	2.4
65 Rattlesnake Road Wind Farm	16.6	24.8	23.1	18.6	26.6	20.3	10.8	17.9	20.6	36.9	31.0	33.2	32.8	32.1	24.2
66 Rock River Wind	8.0	12.1	11.2	9.0	12.9	9.8	5.3	8.7	10.0	17.9	15.1	16.1	15.9	15.6	11.8
67 Rockland wind	12.7	19.1	17.8	14.3	20.5	15.6	8.3	13.8	15.9	28.4	23.9	25.5	25.3	24.7	18.6
68 Ryegrass Wind	3.7	5.6	5.2	4.1	5.9	4.5	2.4	4.0	4.6	8.2	6.9	7.4	7.3	7.2	5.4
69 Salmon Falls Wind	3.4	5.1	4.7	3.8	5.4	4.1	2.2	3.7	4.2	7.5	6.3	6.8	6.7	6.5	4.9
70 Sawtooth Wind	3.6	5.4	5.0	4.0	5.8	4.4	2.4	3.9	4.5	8.0	6.8	7.2	7.1	7.0	5.3
71 Shepherds Flat Wind	136.0	204.0	189.6	152.3	218.3	166.4	89.0	147.2	169.3	302.8	254.8	272.5	269.5	263.4	198.8
72 Star Point Wind	15.9	23.8	22.1	17.8	25.5	19.4	10.4	17.2	19.8	35.4	29.8	31.8	31.5	30.8	23.2
73 Stateline Wind	48.3	72.5	67.4	54.1	77.6	59.1	31.6	52.3	60.2	107.6	90.5	96.9	95.8	93.6	70.7
74 Swauk Wind	0.7	1.0	1.0	0.8	1.1	0.8	0.4	0.7	0.9	1.5	1.3	1.4	1.4	1.3	1.0
75 Thousand Springs Wind Park	1.9	2.9	2.7	2.2	3.1	2.4	1.3	2.1	2.4	4.3	3.6	3.9	3.8	3.7	2.8
76 Threemile Canyon Wind	1.6	2.4	2.2	1.8	2.6	2.0	1.0	1.7	2.0	3.5	3.0	3.2	3.2	3.1	2.3
77 Tuana Gulch Wind	1.7	2.5	2.4	1.9	2.7	2.1	1.1	1.8	2.1	3.8	3.2	3.4	3.3	3.3	2.5
78 Tuana Springs Wind	2.7	4.1	3.8	3.0	4.3	3.3	1.8	2.9	3.4	6.0	5.1	5.4	5.4	5.2	4.0
79 Two Ponds Wind	3.7	5.6	5.2	4.1	5.9	4.5	2.4	4.0	4.6	8.2	6.9	7.4	7.3	7.2	5.4
80 Vansycle Wind	20.0	29.9	27.8	22.4	32.0	24.4	13.1	21.6	24.8	44.4	37.4	40.0	39.5	38.7	29.2
81 Vantage Wind	14.5	21.7	20.2	16.2	23.3	17.7	9.5	15.7	18.0	32.2	27.1	29.0	28.7	28.1	21.2
82 Wheat Field Wind	15.5	23.3	21.7	17.4	25.0	19.0	10.2	16.8	19.4	34.6	29.1	31.2	30.8	30.1	22.7
83 White Creek Wind	32.2	48.3	44.9	36.1	51.7	39.4	21.1	34.9	40.1	71.7	60.3	64.5	63.8	62.3	47.1
84 Wild Horse Wind	43.9	65.8	61.2	49.1	70.4	53.7	28.7	47.5	54.6	97.7	82.2	87.9	86.9	85.0	64.1
85 Willow Creek Wind	11.6	17.4	16.2	13.0	18.6	14.2	7.6	12.5	14.4	25.8	21.7	23.2	23.0	22.4	16.9
86 Willow Spring Wind Farm	1.6	2.4	2.2	1.8	2.6	2.0	1.1	1.7	2.0	3.6	3.0	3.2	3.2	3.1	2.4
87 Windy Point Wind	64.2	96.3	89.5	71.9	103.0	78.5	42.0	69.5	79.9	142.9	120.2	128.6	127.2	124.3	93.8
88 Wolverine Creek Wind	10.4	15.6	14.5	11.6	16.7	12.7	6.8	11.2	12.9	23.1	19.4	20.8	20.6	20.1	15.2
89 Yahoo Creek Wind	3.4	5.1	4.7	3.8	5.4	4.1	2.2	3.7	4.2	7.5	6.3	6.8	6.7	6.5	4.9
90 Total Non-Hydro Renewable - Wind	1252	1842	1714	1360	1950	1495	813	1335	1513	2656	2253	2414	2419	2355	1780

Regional: Non-Hydro Renewable - Wind
Operating Year: 2025 Water Year: 1937
2018 White Book Report Date: 12/1/2018
S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Non-Hydro Renewable - Wind															
1 3 Bar G Wind	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
2 Bennett Creek Wind	3.4	5.1	4.7	3.8	5.4	4.1	2.2	3.7	4.2	7.5	6.3	6.8	6.7	6.5	4.9
3 Benson Creek Wind	1.6	2.4	2.2	1.8	2.6	2.0	1.1	1.7	2.0	3.6	3.0	3.2	3.2	3.1	2.4
4 Big Horn Wind	40.2	60.2	56.0	45.0	64.5	49.1	26.3	43.5	50.0	89.4	75.2	80.5	79.6	77.8	58.7
5 Biglow Canyon Wind	72.4	108.6	100.9	81.1	116.2	88.6	47.4	78.4	90.1	161.1	135.6	145.0	143.4	140.2	105.9
6 Burley Butte Wind	3.1	4.7	4.4	3.5	5.0	3.8	2.1	3.4	3.9	7.0	5.9	6.3	6.2	6.1	4.6
7 Camp Reed Wind	3.6	5.4	5.0	4.1	5.8	4.4	2.4	3.9	4.5	8.1	6.8	7.3	7.2	7.0	5.3
8 Cassia Farms Wind	1.7	2.5	2.4	1.9	2.7	2.1	1.1	1.8	2.1	3.8	3.2	3.4	3.3	3.3	2.5
9 Cassia Gulch Wind	3.0	4.6	4.2	3.4	4.9	3.7	2.0	3.3	3.8	6.8	5.7	6.1	6.0	5.9	4.4
10 Chopin Wind	3.3	3.2	1.6	2.5	2.3	1.8	2.6	2.0	1.1	1.8	2.0	3.7	3.1	3.3	2.4
11 Cold Springs Wind	3.7	5.6	5.2	4.1	5.9	4.5	2.4	4.0	4.6	8.2	6.9	7.4	7.3	7.2	5.4
12 Combine Hills Wind	16.7	25.1	23.3	18.8	26.9	20.5	11.0	18.1	20.8	37.3	31.4	33.5	33.2	32.4	24.5
13 Condon Wind	8.0	12.0	11.2	9.0	12.9	9.8	5.2	8.7	10.0	17.8	15.0	16.1	15.9	15.5	11.7
14 Deep Creek Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15 Desert Meadow Windfarm	3.7	5.6	5.2	4.1	5.9	4.5	2.4	4.0	4.6	8.2	6.9	7.4	7.3	7.2	5.4
16 Durbin Creek Wind	1.6	2.4	2.2	1.8	2.6	2.0	1.1	1.7	2.0	3.6	3.0	3.2	3.2	3.1	2.4
17 Echo Wind Farm	10.4	15.6	14.5	11.6	16.7	12.7	6.8	11.2	12.9	23.1	19.5	20.8	20.6	20.1	15.2
18 Elkhorn Valley Wind Project	16.2	24.3	22.6	18.1	26.0	19.8	10.6	17.5	20.2	36.1	30.3	32.5	32.1	31.4	23.7
19 Foote Creek 1 Wind	6.7	10.0	9.3	7.5	10.7	8.2	4.4	7.2	8.3	14.8	12.5	13.4	13.2	12.9	9.7
20 Foote Creek 2 Wind	0.3	0.4	0.4	0.3	0.5	0.4	0.2	0.3	0.4	0.6	0.5	0.6	0.6	0.6	0.4
21 Foote Creek 4 Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22 Fossil Gulch Wind Project	1.7	2.5	2.4	1.9	2.7	2.1	1.1	1.8	2.1	3.8	3.2	3.4	3.3	3.3	2.5
23 Golden Valley Wind	1.9	2.9	2.7	2.2	3.1	2.4	1.3	2.1	2.4	4.3	3.6	3.9	3.8	3.7	2.8
24 Goodnoe Hills Wind	15.1	22.7	21.1	16.9	24.3	18.5	9.9	16.4	18.8	33.7	28.3	30.3	30.0	29.3	22.1
25 Goshen North (Ridgeline Wind)	20.0	30.1	27.9	22.4	32.2	24.5	13.1	21.7	24.9	44.6	37.5	40.2	39.7	38.8	29.3
26 Grayland Wind	1.0	1.4	1.3	1.1	1.6	1.2	0.6	1.0	1.2	2.2	1.8	1.9	1.9	1.9	1.4
27 Hammett Hill Wind	3.7	5.6	5.2	4.1	5.9	4.5	2.4	4.0	4.6	8.2	6.9	7.4	7.3	7.2	5.4
28 Harvest Wind	15.9	23.9	22.2	17.8	25.6	19.5	10.4	17.2	19.8	35.4	29.8	31.9	31.5	30.8	23.3
29 Hay Canyon Wind	16.2	24.3	22.6	18.2	26.0	19.9	10.6	17.6	20.2	36.1	30.4	32.5	32.1	31.4	23.7
30 Healow 2 Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31 High Mesa Wind	6.4	9.6	9.0	7.2	10.3	7.9	4.2	7.0	8.0	14.3	12.0	12.9	12.7	12.4	9.4
32 Hopkins Ridge Wind	25.2	37.8	35.1	28.2	40.5	30.8	16.5	27.3	31.4	56.1	47.2	50.5	49.9	48.8	36.9
33 Horse Butte Wind	9.3	13.9	12.9	10.4	14.9	11.3	6.1	10.0	11.5	20.6	17.4	18.6	18.4	18.0	13.6
34 Horseshoe Bend Wind Project	1.4	2.2	2.0	1.6	2.3	1.8	0.9	1.6	1.8	3.2	2.7	2.9	2.9	2.8	2.1
35 Hot Springs Wind	3.2	4.8	4.4	3.6	5.1	3.9	2.1	3.5	4.0	7.1	6.0	6.4	6.3	6.2	4.7
36 Jett Creek Wind	1.6	2.4	2.2	1.8	2.6	2.0	1.1	1.7	2.0	3.6	3.0	3.2	3.2	3.1	2.4
37 Josef Staufer - Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
38 Juniper Canyon Wind	24.3	36.5	33.9	27.3	39.1	29.8	15.9	26.3	30.3	54.2	45.6	48.8	48.2	47.1	35.6
39 Kittitas Valley Wind	16.2	24.3	22.6	18.2	26.0	19.9	10.6	17.6	20.2	36.1	30.4	32.5	32.1	31.4	23.7
40 Klondike Wind 1	3.9	5.8	5.4	4.3	6.2	4.7	2.5	4.2	4.8	8.6	7.2	7.7	7.7	7.5	5.7
41 Klondike Wind 2	12.1	18.1	16.8	13.5	19.4	14.8	7.9	13.1	15.0	26.9	22.6	24.2	23.9	23.4	17.7
42 Klondike Wind 3	36.0	54.0	50.2	40.4	57.8	44.1	23.6	39.0	44.8	80.2	67.5	72.2	71.4	69.8	52.7
43 Klondike Wind 3a	12.3	18.5	17.2	13.8	19.8	15.1	8.1	13.3	15.3	27.4	23.1	24.7	24.4	23.8	18.0
44 Knudson Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45 Leaning Juniper Wind	48.6	72.9	67.7	54.4	78.0	59.4	31.8	52.6	60.5	108.1	91.0	97.3	96.2	94.1	71.1

Regional: Non-Hydro Renewable - Wind
Operating Year: 2025 Water Year: 1937
2018 White Book Report Date: 12/1/2018
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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Non-Hydro Renewable - Wind															
46 Lewandowski Farms Wind	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
47 Lime Wind	0.5	0.7	0.7	0.5	0.8	0.6	0.3	0.5	0.6	1.1	0.9	1.0	1.0	0.9	0.7
48 Linden Ranch Wind	8.0	12.1	11.2	9.0	12.9	9.8	5.3	8.7	10.0	17.9	15.1	16.1	15.9	15.6	11.8
49 Livingston Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50 Lower Snake Wind	98.1	147.2	136.7	109.9	157.5	120.0	64.2	106.2	122.1	218.4	183.8	196.6	194.4	190.0	143.5
51 Mainline Wind	3.7	5.6	5.2	4.1	5.9	4.5	2.4	4.0	4.6	8.2	6.9	7.4	7.3	7.2	5.4
52 Marengo Wind	33.9	50.8	47.3	38.0	54.4	41.5	22.2	36.7	42.2	75.5	63.5	67.9	67.2	65.6	49.6
53 Meadow Creek Wind	19.3	28.9	26.9	21.6	30.9	23.6	12.6	20.9	24.0	42.9	36.1	38.6	38.2	37.3	28.2
54 Milner Dam Wind Farm	3.1	4.7	4.4	3.5	5.0	3.8	2.1	3.4	3.9	7.0	5.9	6.3	6.2	6.1	4.6
55 Montague	65.1	64.4	63.0	32.5	48.8	45.3	36.4	52.2	39.8	21.3	35.2	40.5	72.4	60.9	48.7
56 Nine Canyon Wind	15.4	23.2	21.5	17.3	24.8	18.9	10.1	16.7	19.2	34.4	28.9	30.9	30.6	29.9	22.6
57 Oregon Trail Wind	2.2	3.3	3.0	2.4	3.5	2.7	1.4	2.4	2.7	4.8	4.1	4.4	4.3	4.2	3.2
58 Palouse Wind	16.8	25.2	23.4	18.8	27.0	20.6	11.0	18.2	20.9	37.4	31.5	33.7	33.3	32.5	24.6
59 PaTu Wind	1.4	2.2	2.0	1.6	2.3	1.8	0.9	1.6	1.8	3.2	2.7	2.9	2.9	2.8	2.1
60 Paynes Ferry Wind Park	3.4	5.1	4.7	3.8	5.4	4.1	2.2	3.7	4.2	7.5	6.3	6.8	6.7	6.5	4.9
61 Pebble Springs Wind	15.9	23.8	22.1	17.8	25.5	19.4	10.4	17.2	19.8	35.4	29.8	31.8	31.5	30.8	23.2
62 Pilgrim Stage Station Wind Park	1.7	2.5	2.4	1.9	2.7	2.1	1.1	1.8	2.1	3.8	3.2	3.4	3.3	3.3	2.5
63 Power County Wind	7.2	10.9	10.1	8.1	11.6	8.9	4.7	7.8	9.0	16.1	13.6	14.5	14.4	14.0	10.6
64 Prospector Wind	1.6	2.4	2.2	1.8	2.6	2.0	1.1	1.7	2.0	3.6	3.0	3.2	3.2	3.1	2.4
65 Rattlesnake Road Wind Farm	16.6	24.8	23.1	18.6	26.6	20.3	10.8	17.9	20.6	36.9	31.0	33.2	32.8	32.1	24.2
66 Rock River Wind	8.0	12.1	11.2	9.0	12.9	9.8	5.3	8.7	10.0	17.9	15.1	16.1	15.9	15.6	11.8
67 Rockland wind	12.7	19.1	17.8	14.3	20.5	15.6	8.3	13.8	15.9	28.4	23.9	25.5	25.3	24.7	18.6
68 Ryegrass Wind	3.7	5.6	5.2	4.1	5.9	4.5	2.4	4.0	4.6	8.2	6.9	7.4	7.3	7.2	5.4
69 Salmon Falls Wind	3.4	5.1	4.7	3.8	5.4	4.1	2.2	3.7	4.2	7.5	6.3	6.8	6.7	6.5	4.9
70 Sawtooth Wind	3.6	5.4	5.0	4.0	5.8	4.4	2.4	3.9	4.5	8.0	6.8	7.2	7.1	7.0	5.3
71 Shepherds Flat Wind	136.0	204.0	189.6	152.3	218.3	166.4	89.0	147.2	169.3	302.8	254.8	272.5	269.5	263.4	198.9
72 Star Point Wind	15.9	23.8	22.1	17.8	25.5	19.4	10.4	17.2	19.8	35.4	29.8	31.8	31.5	30.8	23.2
73 Stateline Wind	48.3	72.5	67.4	54.1	77.6	59.1	31.6	52.3	60.2	107.6	90.5	96.9	95.8	93.6	70.7
74 Swauk Wind	0.7	1.0	1.0	0.8	1.1	0.8	0.4	0.7	0.9	1.5	1.3	1.4	1.4	1.3	1.0
75 Thousand Springs Wind Park	1.9	2.9	2.7	2.2	3.1	2.4	1.3	2.1	2.4	4.3	3.6	3.9	3.8	3.7	2.8
76 Threemile Canyon Wind	1.6	2.4	2.2	1.8	2.6	2.0	1.0	1.7	2.0	3.5	3.0	3.2	3.2	3.1	2.3
77 Tuana Gulch Wind	1.7	2.5	2.4	1.9	2.7	2.1	1.1	1.8	2.1	3.8	3.2	3.4	3.3	3.3	2.5
78 Tuana Springs Wind	2.7	4.1	3.8	3.0	4.3	3.3	1.8	2.9	3.4	6.0	5.1	5.4	5.4	5.2	4.0
79 Two Ponds Wind	3.7	5.6	5.2	4.1	5.9	4.5	2.4	4.0	4.6	8.2	6.9	7.4	7.3	7.2	5.4
80 Vansycle Wind	20.0	29.9	27.8	22.4	32.0	24.4	13.1	21.6	24.8	44.4	37.4	40.0	39.5	38.7	29.2
81 Vantage Wind	14.5	21.7	20.2	16.2	23.3	17.7	9.5	15.7	18.0	32.2	27.1	29.0	28.7	28.1	21.2
82 Wheat Field Wind	15.5	23.3	21.7	17.4	25.0	19.0	10.2	16.8	19.4	34.6	29.1	31.2	30.8	30.1	22.7
83 White Creek Wind	32.2	48.3	44.9	36.1	51.7	39.4	21.1	34.9	40.1	71.7	60.3	64.5	63.8	62.3	47.1
84 Wild Horse Wind	43.9	65.8	61.2	49.1	70.4	53.7	28.7	47.5	54.6	97.7	82.2	87.9	86.9	85.0	64.2
85 Willow Creek Wind	11.6	17.4	16.2	13.0	18.6	14.2	7.6	12.5	14.4	25.8	21.7	23.2	23.0	22.4	17.0
86 Willow Spring Wind Farm	1.6	2.4	2.2	1.8	2.6	2.0	1.1	1.7	2.0	3.6	3.0	3.2	3.2	3.1	2.4
87 Windy Point Wind	64.2	96.3	89.5	71.9	103.0	78.5	42.0	69.5	79.9	142.9	120.2	128.6	127.2	124.3	93.9
88 Wolverine Creek Wind	10.4	15.6	14.5	11.6	16.7	12.7	6.8	11.2	12.9	23.1	19.4	20.8	20.6	20.1	15.2
89 Yahoo Creek Wind	3.4	5.1	4.7	3.8	5.4	4.1	2.2	3.7	4.2	7.5	6.3	6.8	6.7	6.5	4.9
90 Total Non-Hydro Renewable - Wind	1252	1842	1714	1360	1950	1495	813	1335	1513	2656	2253	2414	2419	2355	1781

Regional: Non-Hydro Renewable - Wind
Operating Year: 2026 Water Year: 1937
2018 White Book Report Date: 12/1/2018
S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Non-Hydro Renewable - Wind															
1 3 Bar G Wind	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
2 Bennett Creek Wind	3.4	5.1	4.7	3.8	5.4	4.1	2.2	3.7	4.2	7.5	6.3	6.8	6.7	6.5	4.9
3 Benson Creek Wind	1.6	2.4	2.2	1.8	2.6	2.0	1.1	1.7	2.0	3.6	3.0	3.2	3.2	3.1	2.4
4 Big Horn Wind	40.2	60.2	56.0	45.0	64.5	49.1	26.3	43.5	50.0	89.4	75.2	80.5	79.6	77.8	58.7
5 Biglow Canyon Wind	72.4	108.6	100.9	81.1	116.2	88.6	47.4	78.4	90.1	161.1	135.6	145.0	143.4	140.2	105.9
6 Burley Butte Wind	3.1	4.7	4.4	3.5	5.0	3.8	2.1	3.4	3.9	7.0	5.9	6.3	6.2	6.1	4.6
7 Camp Reed Wind	3.6	5.4	5.0	4.1	5.8	4.4	2.4	3.9	4.5	8.1	6.8	7.3	7.2	7.0	5.3
8 Cassia Farms Wind	1.7	2.5	2.4	1.9	2.7	2.1	1.1	1.8	2.1	3.8	3.2	3.4	3.3	3.3	2.5
9 Cassia Gulch Wind	3.0	4.6	4.2	3.4	4.9	3.7	2.0	3.3	3.8	6.8	5.7	6.1	6.0	5.9	4.4
10 Chopin Wind	3.3	3.2	1.6	2.5	2.3	1.8	2.6	2.0	1.1	1.8	2.0	3.7	3.1	3.3	2.4
11 Cold Springs Wind	3.7	5.6	5.2	4.1	5.9	4.5	2.4	4.0	4.6	8.2	6.9	7.4	7.3	7.2	5.4
12 Combine Hills Wind	16.7	25.1	23.3	18.8	26.9	20.5	11.0	18.1	20.8	37.3	31.4	33.5	33.2	32.4	24.5
13 Condon Wind	8.0	12.0	11.2	9.0	12.9	9.8	5.2	8.7	10.0	17.8	15.0	16.1	15.9	15.5	11.7
14 Deep Creek Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15 Desert Meadow Windfarm	3.7	5.6	5.2	4.1	5.9	4.5	2.4	4.0	4.6	8.2	6.9	7.4	7.3	7.2	5.4
16 Durbin Creek Wind	1.6	2.4	2.2	1.8	2.6	2.0	1.1	1.7	2.0	3.6	3.0	3.2	3.2	3.1	2.4
17 Echo Wind Farm	10.4	15.6	14.5	11.6	16.7	12.7	6.8	11.2	12.9	23.1	19.5	20.8	20.6	20.1	15.2
18 Elkhorn Valley Wind Project	16.2	24.3	22.6	18.1	26.0	19.8	10.6	17.5	20.2	36.1	30.3	32.5	32.1	31.4	23.7
19 Foote Creek 1 Wind	6.7	10.0	9.3	7.5	10.7	8.2	4.4	7.2	8.3	14.8	12.5	13.4	13.2	12.9	9.7
20 Foote Creek 2 Wind	0.3	0.4	0.4	0.3	0.5	0.4	0.2	0.3	0.4	0.6	0.5	0.6	0.6	0.6	0.4
21 Foote Creek 4 Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22 Fossil Gulch Wind Project	1.7	2.5	2.4	1.9	2.7	2.1	1.1	1.8	2.1	3.8	3.2	3.4	3.3	3.3	2.5
23 Golden Valley Wind	1.9	2.9	2.7	2.2	3.1	2.4	1.3	2.1	2.4	4.3	3.6	3.9	3.8	3.7	2.8
24 Goodnoe Hills Wind	15.1	22.7	21.1	16.9	24.3	18.5	9.9	16.4	18.8	33.7	28.3	30.3	30.0	29.3	22.1
25 Goshen North (Ridgeline Wind)	20.0	30.1	27.9	22.4	32.2	24.5	13.1	21.7	24.9	44.6	37.5	40.2	39.7	38.8	29.3
26 Grayland Wind	1.0	1.4	1.3	1.1	1.6	1.2	0.6	1.0	1.2	2.2	1.8	1.9	1.9	1.9	1.4
27 Hammett Hill Wind	3.7	5.6	5.2	4.1	5.9	4.5	2.4	4.0	4.6	8.2	6.9	7.4	7.3	7.2	5.4
28 Harvest Wind	15.9	23.9	22.2	17.8	25.6	19.5	10.4	17.2	19.8	35.4	29.8	31.9	31.5	30.8	23.3
29 Hay Canyon Wind	16.2	24.3	22.6	18.2	26.0	19.9	10.6	17.6	20.2	36.1	30.4	32.5	32.1	31.4	23.7
30 Healow 2 Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31 High Mesa Wind	6.4	9.6	9.0	7.2	10.3	7.9	4.2	7.0	8.0	14.3	12.0	12.9	12.7	12.4	9.4
32 Hopkins Ridge Wind	25.2	37.8	35.1	28.2	40.5	30.8	16.5	27.3	31.4	56.1	47.2	50.5	49.9	48.8	36.9
33 Horse Butte Wind	9.3	13.9	12.9	10.4	14.9	11.3	6.1	10.0	11.5	20.6	17.4	18.6	18.4	18.0	13.6
34 Horseshoe Bend Wind Project	1.4	2.2	2.0	1.6	2.3	1.8	0.9	1.6	1.8	3.2	2.7	2.9	2.9	2.8	2.1
35 Hot Springs Wind	3.2	4.8	4.4	3.6	5.1	3.9	2.1	3.5	4.0	7.1	6.0	6.4	6.3	6.2	4.7
36 Jett Creek Wind	1.6	2.4	2.2	1.8	2.6	2.0	1.1	1.7	2.0	3.6	3.0	3.2	3.2	3.1	2.4
37 Josef Staufer - Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
38 Juniper Canyon Wind	24.3	36.5	33.9	27.3	39.1	29.8	15.9	26.3	30.3	54.2	45.6	48.8	48.2	47.1	35.6
39 Kittitas Valley Wind	16.2	24.3	22.6	18.2	26.0	19.9	10.6	17.6	20.2	36.1	30.4	32.5	32.1	31.4	23.7
40 Klondike Wind 1	3.9	5.8	5.4	4.3	6.2	4.7	2.5	4.2	4.8	8.6	7.2	7.7	7.7	7.5	5.7
41 Klondike Wind 2	12.1	18.1	16.8	13.5	19.4	14.8	7.9	13.1	15.0	26.9	22.6	24.2	23.9	23.4	17.7
42 Klondike Wind 3	36.0	54.0	50.2	40.4	57.8	44.1	23.6	39.0	44.8	80.2	67.5	72.2	71.4	69.8	52.7
43 Klondike Wind 3a	12.3	18.5	17.2	13.8	19.8	15.1	8.1	13.3	15.3	27.4	23.1	24.7	24.4	23.8	18.0
44 Knudson Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45 Leaning Juniper Wind	48.6	72.9	67.7	54.4	78.0	59.4	31.8	52.6	60.5	108.1	91.0	97.3	96.2	94.1	71.1

Regional: Non-Hydro Renewable - Wind
Operating Year: 2026 Water Year: 1937
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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Non-Hydro Renewable - Wind															
46 Lewandowski Farms Wind	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
47 Lime Wind	0.5	0.7	0.7	0.5	0.8	0.6	0.3	0.5	0.6	1.1	0.9	1.0	1.0	0.9	0.7
48 Linden Ranch Wind	8.0	12.1	11.2	9.0	12.9	9.8	5.3	8.7	10.0	17.9	15.1	16.1	15.9	15.6	11.8
49 Livingston Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50 Lower Snake Wind	98.1	147.2	136.7	109.9	157.5	120.0	64.2	106.2	122.1	218.4	183.8	196.6	194.4	190.0	143.5
51 Mainline Wind	3.7	5.6	5.2	4.1	5.9	4.5	2.4	4.0	4.6	8.2	6.9	7.4	7.3	7.2	5.4
52 Marengo Wind	33.9	50.8	47.3	38.0	54.4	41.5	22.2	36.7	42.2	75.5	63.5	67.9	67.2	65.6	49.6
53 Meadow Creek Wind	19.3	28.9	26.9	21.6	30.9	23.6	12.6	20.9	24.0	42.9	36.1	38.6	38.2	37.3	28.2
54 Milner Dam Wind Farm	3.1	4.7	4.4	3.5	5.0	3.8	2.1	3.4	3.9	7.0	5.9	6.3	6.2	6.1	4.6
55 Montague	65.1	64.4	63.0	32.5	48.8	45.3	36.4	52.2	39.8	21.3	35.2	40.5	72.4	60.9	48.7
56 Nine Canyon Wind	15.4	23.2	21.5	17.3	24.8	18.9	10.1	16.7	19.2	34.4	28.9	30.9	30.6	29.9	22.6
57 Oregon Trail Wind	2.2	3.3	3.0	2.4	3.5	2.7	1.4	2.4	2.7	4.8	4.1	4.4	4.3	4.2	3.2
58 Palouse Wind	16.8	25.2	23.4	18.8	27.0	20.6	11.0	18.2	20.9	37.4	31.5	33.7	33.3	32.5	24.6
59 PaTu Wind	1.4	2.2	2.0	1.6	2.3	1.8	0.9	1.6	1.8	3.2	2.7	2.9	2.9	2.8	2.1
60 Paynes Ferry Wind Park	3.4	5.1	4.7	3.8	5.4	4.1	2.2	3.7	4.2	7.5	6.3	6.8	6.7	6.5	4.9
61 Pebble Springs Wind	15.9	23.8	22.1	17.8	25.5	19.4	10.4	17.2	19.8	35.4	29.8	31.8	31.5	30.8	23.2
62 Pilgrim Stage Station Wind Park	1.7	2.5	2.4	1.9	2.7	2.1	1.1	1.8	2.1	3.8	3.2	3.4	3.3	3.3	2.5
63 Power County Wind	7.2	10.9	10.1	8.1	11.6	8.9	4.7	7.8	9.0	16.1	13.6	14.5	14.4	14.0	10.6
64 Prospector Wind	1.6	2.4	2.2	1.8	2.6	2.0	1.1	1.7	2.0	3.6	3.0	3.2	3.2	3.1	2.4
65 Rattlesnake Road Wind Farm	16.6	24.8	23.1	18.6	26.6	20.3	10.8	17.9	20.6	36.9	31.0	33.2	32.8	32.1	24.2
66 Rock River Wind	8.0	12.1	11.2	9.0	12.9	9.8	5.3	8.7	10.0	17.9	15.1	16.1	15.9	15.6	11.8
67 Rockland wind	12.7	19.1	17.8	14.3	20.5	15.6	8.3	13.8	15.9	28.4	23.9	25.5	25.3	24.7	18.6
68 Ryegrass Wind	3.7	5.6	5.2	4.1	5.9	4.5	2.4	4.0	4.6	8.2	6.9	7.4	7.3	7.2	5.4
69 Salmon Falls Wind	3.4	5.1	4.7	3.8	5.4	4.1	2.2	3.7	4.2	7.5	6.3	6.8	6.7	6.5	4.9
70 Sawtooth Wind	3.6	5.4	5.0	4.0	5.8	4.4	2.4	3.9	4.5	8.0	6.8	7.2	7.1	7.0	5.3
71 Shepherds Flat Wind	136.0	204.0	189.6	152.3	218.3	166.4	89.0	147.2	169.3	302.8	254.8	272.5	269.5	263.4	198.9
72 Star Point Wind	15.9	23.8	22.1	17.8	25.5	19.4	10.4	17.2	19.8	35.4	29.8	31.8	31.5	30.8	23.2
73 Stateline Wind	48.3	72.5	67.4	54.1	77.6	59.1	31.6	52.3	60.2	107.6	90.5	96.9	95.8	93.6	70.7
74 Swauk Wind	0.7	1.0	1.0	0.8	1.1	0.8	0.4	0.7	0.9	1.5	1.3	1.4	1.4	1.3	1.0
75 Thousand Springs Wind Park	1.9	2.9	2.7	2.2	3.1	2.4	1.3	2.1	2.4	4.3	3.6	3.9	3.8	3.7	2.8
76 Threemile Canyon Wind	1.6	2.4	2.2	1.8	2.6	2.0	1.0	1.7	2.0	3.5	3.0	3.2	3.2	3.1	2.3
77 Tuana Gulch Wind	1.7	2.5	2.4	1.9	2.7	2.1	1.1	1.8	2.1	3.8	3.2	3.4	3.3	3.3	2.5
78 Tuana Springs Wind	2.7	4.1	3.8	3.0	4.3	3.3	1.8	2.9	3.4	6.0	5.1	5.4	5.4	5.2	4.0
79 Two Ponds Wind	3.7	5.6	5.2	4.1	5.9	4.5	2.4	4.0	4.6	8.2	6.9	7.4	7.3	7.2	5.4
80 Vansycle Wind	20.0	29.9	27.8	22.4	32.0	24.4	13.1	21.6	24.8	44.4	37.4	40.0	39.5	38.7	29.2
81 Vantage Wind	14.5	21.7	20.2	16.2	23.3	17.7	9.5	15.7	18.0	32.2	27.1	29.0	28.7	28.1	21.2
82 Wheat Field Wind	15.5	23.3	21.7	17.4	25.0	19.0	10.2	16.8	19.4	34.6	29.1	31.2	30.8	30.1	22.7
83 White Creek Wind	32.2	48.3	44.9	36.1	51.7	39.4	21.1	34.9	40.1	71.7	60.3	64.5	63.8	62.3	47.1
84 Wild Horse Wind	43.9	65.8	61.2	49.1	70.4	53.7	28.7	47.5	54.6	97.7	82.2	87.9	86.9	85.0	64.2
85 Willow Creek Wind	11.6	17.4	16.2	13.0	18.6	14.2	7.6	12.5	14.4	25.8	21.7	23.2	23.0	22.4	17.0
86 Willow Spring Wind Farm	1.6	2.4	2.2	1.8	2.6	2.0	1.1	1.7	2.0	3.6	3.0	3.2	3.2	3.1	2.4
87 Windy Point Wind	64.2	96.3	89.5	71.9	103.0	78.5	42.0	69.5	79.9	142.9	120.2	128.6	127.2	124.3	93.9
88 Wolverine Creek Wind	10.4	15.6	14.5	11.6	16.7	12.7	6.8	11.2	12.9	23.1	19.4	20.8	20.6	20.1	15.2
89 Yahoo Creek Wind	3.4	5.1	4.7	3.8	5.4	4.1	2.2	3.7	4.2	7.5	6.3	6.8	6.7	6.5	4.9
90 Total Non-Hydro Renewable - Wind	1252	1842	1714	1360	1950	1495	813	1335	1513	2656	2253	2414	2419	2355	1781

Regional: Non-Hydro Renewable - Wind
Operating Year: 2027 Water Year: 1937
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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Non-Hydro Renewable - Wind															
1 3 Bar G Wind	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
2 Bennett Creek Wind	3.4	5.1	4.7	3.8	5.4	4.1	2.2	3.7	4.2	7.5	6.3	6.8	6.7	6.5	4.9
3 Benson Creek Wind	1.6	2.4	2.2	1.8	2.6	2.0	1.1	1.7	2.0	3.6	3.0	3.2	3.2	3.1	2.4
4 Big Horn Wind	40.2	60.2	56.0	45.0	64.5	49.1	26.3	43.5	50.0	89.4	75.2	80.5	79.6	77.8	58.7
5 Biglow Canyon Wind	72.4	108.6	100.9	81.1	116.2	88.6	47.4	78.4	90.1	161.1	135.6	145.0	143.4	140.2	105.9
6 Burley Butte Wind	3.1	4.7	4.4	3.5	5.0	3.8	2.1	3.4	3.9	7.0	5.9	6.3	6.2	6.1	4.6
7 Camp Reed Wind	3.6	5.4	5.0	4.1	5.8	4.4	2.4	3.9	4.5	8.1	6.8	7.3	7.2	7.0	5.3
8 Cassia Farms Wind	1.7	2.5	2.4	1.9	2.7	2.1	1.1	1.8	2.1	3.8	3.2	3.4	3.3	3.3	2.5
9 Cassia Gulch Wind	3.0	4.6	4.2	3.4	4.9	3.7	2.0	3.3	3.8	6.8	5.7	6.1	6.0	5.9	4.4
10 Chopin Wind	3.3	3.2	1.6	2.5	2.3	1.8	2.6	2.0	1.1	1.8	2.0	3.7	3.1	3.3	2.4
11 Cold Springs Wind	3.7	5.6	5.2	4.1	5.9	4.5	2.4	4.0	4.6	8.2	6.9	7.4	7.3	7.2	5.4
12 Combine Hills Wind	16.7	25.1	23.3	18.8	26.9	20.5	11.0	18.1	20.8	37.3	31.4	33.5	33.2	32.4	24.5
13 Condon Wind	8.0	12.0	11.2	9.0	12.9	9.8	5.2	8.7	10.0	17.8	15.0	16.1	15.9	15.5	11.7
14 Deep Creek Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15 Desert Meadow Windfarm	3.7	5.6	5.2	4.1	5.9	4.5	2.4	4.0	4.6	8.2	6.9	7.4	7.3	7.2	5.4
16 Durbin Creek Wind	1.6	2.4	2.2	1.8	2.6	2.0	1.1	1.7	2.0	3.6	3.0	3.2	3.2	3.1	2.4
17 Echo Wind Farm	10.4	15.6	14.5	11.6	16.7	12.7	6.8	11.2	12.9	23.1	19.5	20.8	20.6	20.1	15.2
18 Elkhorn Valley Wind Project	16.2	24.3	22.6	18.1	26.0	19.8	10.6	17.5	20.2	36.1	30.3	32.5	32.1	31.4	23.7
19 Foote Creek 1 Wind	6.7	10.0	9.3	7.5	10.7	8.2	4.4	7.2	8.3	14.8	12.5	13.4	13.2	12.9	9.7
20 Foote Creek 2 Wind	0.3	0.4	0.4	0.3	0.5	0.4	0.2	0.3	0.4	0.6	0.5	0.6	0.6	0.6	0.4
21 Foote Creek 4 Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22 Fossil Gulch Wind Project	1.7	2.5	2.4	1.9	2.7	2.1	1.1	1.8	2.1	3.8	3.2	3.4	3.3	3.3	2.5
23 Golden Valley Wind	1.9	2.9	2.7	2.2	3.1	2.4	1.3	2.1	2.4	4.3	3.6	3.9	3.8	3.7	2.8
24 Goodnoe Hills Wind	15.1	22.7	21.1	16.9	24.3	18.5	9.9	16.4	18.8	33.7	28.3	30.3	30.0	29.3	22.1
25 Goshen North (Ridgeline Wind)	20.0	30.1	27.9	22.4	32.2	24.5	13.1	21.7	24.9	44.6	37.5	40.2	39.7	38.8	29.3
26 Grayland Wind	1.0	1.4	1.3	1.1	1.6	1.2	0.6	1.0	1.2	2.2	1.8	1.9	1.9	1.9	1.4
27 Hammett Hill Wind	3.7	5.6	5.2	4.1	5.9	4.5	2.4	4.0	4.6	8.2	6.9	7.4	7.3	7.2	5.4
28 Harvest Wind	15.9	23.9	22.2	17.8	25.6	19.5	10.4	17.2	19.8	35.4	29.8	31.9	31.5	30.8	23.3
29 Hay Canyon Wind	16.2	24.3	22.6	18.2	26.0	19.9	10.6	17.6	20.2	36.1	30.4	32.5	32.1	31.4	23.7
30 Healow 2 Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31 High Mesa Wind	6.4	9.6	9.0	7.2	10.3	7.9	4.2	7.0	8.0	14.3	12.0	12.9	12.7	12.4	9.4
32 Hopkins Ridge Wind	25.2	37.8	35.1	28.2	40.5	30.8	16.5	27.3	31.4	56.1	47.2	50.5	49.9	48.8	36.9
33 Horse Butte Wind	9.3	13.9	12.9	10.4	14.9	11.3	6.1	10.0	11.5	20.6	17.4	18.6	18.4	18.0	13.6
34 Horseshoe Bend Wind Project	1.4	2.2	2.0	1.6	2.3	1.8	0.9	1.6	1.8	3.2	2.7	2.9	2.9	2.8	2.1
35 Hot Springs Wind	3.2	4.8	4.4	3.6	5.1	3.9	2.1	3.5	4.0	7.1	6.0	6.4	6.3	6.2	4.7
36 Jett Creek Wind	1.6	2.4	2.2	1.8	2.6	2.0	1.1	1.7	2.0	3.6	3.0	3.2	3.2	3.1	2.4
37 Josef Staufer - Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
38 Juniper Canyon Wind	24.3	36.5	33.9	27.3	39.1	29.8	15.9	26.3	30.3	54.2	45.6	48.8	48.2	47.1	35.6
39 Kittitas Valley Wind	16.2	24.3	22.6	18.2	26.0	19.9	10.6	17.6	20.2	36.1	30.4	32.5	32.1	31.4	23.7
40 Klondike Wind 1	3.9	5.8	5.4	4.3	6.2	4.7	2.5	4.2	4.8	8.6	7.2	7.7	7.7	7.5	5.7
41 Klondike Wind 2	12.1	18.1	16.8	13.5	19.4	14.8	7.9	13.1	15.0	26.9	22.6	24.2	23.9	23.4	17.7
42 Klondike Wind 3	36.0	54.0	50.2	40.4	57.8	44.1	23.6	39.0	44.8	80.2	67.5	72.2	71.4	69.8	52.7
43 Klondike Wind 3a	12.3	18.5	17.2	13.8	19.8	15.1	8.1	13.3	15.3	27.4	23.1	24.7	24.4	23.8	18.0
44 Knudson Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45 Leaning Juniper Wind	48.6	72.9	67.7	54.4	78.0	59.4	31.8	52.6	60.5	108.1	91.0	97.3	96.2	94.1	71.1

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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Non-Hydro Renewable - Wind															
46 Lewandowski Farms Wind	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
47 Lime Wind	0.5	0.7	0.7	0.5	0.8	0.6	0.3	0.5	0.6	1.1	0.9	1.0	1.0	0.9	0.7
48 Linden Ranch Wind	8.0	12.1	11.2	9.0	12.9	9.8	5.3	8.7	10.0	17.9	15.1	16.1	15.9	15.6	11.8
49 Livingston Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50 Lower Snake Wind	98.1	147.2	136.7	109.9	157.5	120.0	64.2	106.2	122.1	218.4	183.8	196.6	194.4	190.0	143.5
51 Mainline Wind	3.7	5.6	5.2	4.1	5.9	4.5	2.4	4.0	4.6	8.2	6.9	7.4	7.3	7.2	5.4
52 Marengo Wind	33.9	50.8	47.3	38.0	54.4	41.5	22.2	36.7	42.2	75.5	63.5	67.9	67.2	65.6	49.6
53 Meadow Creek Wind	19.3	28.9	26.9	21.6	30.9	23.6	12.6	20.9	24.0	42.9	36.1	38.6	38.2	37.3	28.2
54 Milner Dam Wind Farm	3.1	4.7	4.4	3.5	5.0	3.8	2.1	3.4	3.9	7.0	5.9	6.3	6.2	6.1	4.6
55 Montague	65.1	64.4	63.0	32.5	48.8	45.3	36.4	52.2	39.8	21.3	35.2	40.5	72.4	60.9	48.7
56 Nine Canyon Wind	15.4	23.2	21.5	17.3	24.8	18.9	10.1	16.7	19.2	34.4	28.9	30.9	30.6	29.9	22.6
57 Oregon Trail Wind	2.2	3.3	3.0	2.4	3.5	2.7	1.4	2.4	2.7	4.8	4.1	4.4	4.3	4.2	3.2
58 Palouse Wind	16.8	25.2	23.4	18.8	27.0	20.6	11.0	18.2	20.9	37.4	31.5	33.7	33.3	32.5	24.6
59 PaTu Wind	1.4	2.2	2.0	1.6	2.3	1.8	0.9	1.6	1.8	3.2	2.7	2.9	2.9	2.8	2.1
60 Paynes Ferry Wind Park	3.4	5.1	4.7	3.8	5.4	4.1	2.2	3.7	4.2	7.5	6.3	6.8	6.7	6.5	4.9
61 Pebble Springs Wind	15.9	23.8	22.1	17.8	25.5	19.4	10.4	17.2	19.8	35.4	29.8	31.8	31.5	30.8	23.2
62 Pilgrim Stage Station Wind Park	1.7	2.5	2.4	1.9	2.7	2.1	1.1	1.8	2.1	3.8	3.2	3.4	3.3	3.3	2.5
63 Power County Wind	7.2	10.9	10.1	8.1	11.6	8.9	4.7	7.8	9.0	16.1	13.6	14.5	14.4	14.0	10.6
64 Prospector Wind	1.6	2.4	2.2	1.8	2.6	2.0	1.1	1.7	2.0	3.6	3.0	3.2	3.2	3.1	2.4
65 Rattlesnake Road Wind Farm	16.6	24.8	23.1	18.6	26.6	20.3	10.8	17.9	20.6	36.9	31.0	33.2	32.8	32.1	24.2
66 Rock River Wind	8.0	12.1	11.2	9.0	12.9	9.8	5.3	8.7	10.0	17.9	15.1	16.1	15.9	15.6	11.8
67 Rockland wind	12.7	19.1	17.8	14.3	20.5	15.6	8.3	13.8	15.9	28.4	23.9	25.5	25.3	24.7	18.6
68 Ryegrass Wind	3.7	5.6	5.2	4.1	5.9	4.5	2.4	4.0	4.6	8.2	6.9	7.4	7.3	7.2	5.4
69 Salmon Falls Wind	3.4	5.1	4.7	3.8	5.4	4.1	2.2	3.7	4.2	7.5	6.3	6.8	6.7	6.5	4.9
70 Sawtooth Wind	3.6	5.4	5.0	4.0	5.8	4.4	2.4	3.9	4.5	8.0	6.8	7.2	7.1	7.0	5.3
71 Shepherds Flat Wind	136.0	204.0	189.6	152.3	218.3	166.4	89.0	147.2	169.3	302.8	254.8	272.5	269.5	263.4	198.9
72 Star Point Wind	15.9	23.8	22.1	17.8	25.5	19.4	10.4	17.2	19.8	35.4	29.8	31.8	31.5	30.8	23.2
73 Stateline Wind	48.3	72.5	67.4	54.1	77.6	59.1	31.6	52.3	60.2	107.6	90.5	96.9	95.8	93.6	70.7
74 Swauk Wind	0.7	1.0	1.0	0.8	1.1	0.8	0.4	0.7	0.9	1.5	1.3	1.4	1.4	1.3	1.0
75 Thousand Springs Wind Park	1.9	2.9	2.7	2.2	3.1	2.4	1.3	2.1	2.4	4.3	3.6	3.9	3.8	3.7	2.8
76 Threemile Canyon Wind	1.6	2.4	2.2	1.8	2.6	2.0	1.0	1.7	2.0	3.5	3.0	3.2	3.2	3.1	2.3
77 Tuana Gulch Wind	1.7	2.5	2.4	1.9	2.7	2.1	1.1	1.8	2.1	3.8	3.2	3.4	3.3	3.3	2.5
78 Tuana Springs Wind	2.7	4.1	3.8	3.0	4.3	3.3	1.8	2.9	3.4	6.0	5.1	5.4	5.4	5.2	4.0
79 Two Ponds Wind	3.7	5.6	5.2	4.1	5.9	4.5	2.4	4.0	4.6	8.2	6.9	7.4	7.3	7.2	5.4
80 Vansycle Wind	20.0	29.9	27.8	22.4	32.0	24.4	13.1	21.6	24.8	44.4	37.4	40.0	39.5	38.7	29.2
81 Vantage Wind	14.5	21.7	20.2	16.2	23.3	17.7	9.5	15.7	18.0	32.2	27.1	29.0	28.7	28.1	21.2
82 Wheat Field Wind	15.5	23.3	21.7	17.4	25.0	19.0	10.2	16.8	19.4	34.6	29.1	31.2	30.8	30.1	22.7
83 White Creek Wind	32.2	48.3	44.9	36.1	51.7	39.4	21.1	34.9	40.1	71.7	60.3	64.5	63.8	62.3	47.1
84 Wild Horse Wind	43.9	65.8	61.2	49.1	70.4	53.7	28.7	47.5	54.6	97.7	82.2	87.9	86.9	85.0	64.2
85 Willow Creek Wind	11.6	17.4	16.2	13.0	18.6	14.2	7.6	12.5	14.4	25.8	21.7	23.2	23.0	22.4	17.0
86 Willow Spring Wind Farm	1.6	2.4	2.2	1.8	2.6	2.0	1.1	1.7	2.0	3.6	3.0	3.2	3.2	3.1	2.4
87 Windy Point Wind	64.2	96.3	89.5	71.9	103.0	78.5	42.0	69.5	79.9	142.9	120.2	128.6	127.2	124.3	93.9
88 Wolverine Creek Wind	10.4	15.6	14.5	11.6	16.7	12.7	6.8	11.2	12.9	23.1	19.4	20.8	20.6	20.1	15.2
89 Yahoo Creek Wind	3.4	5.1	4.7	3.8	5.4	4.1	2.2	3.7	4.2	7.5	6.3	6.8	6.7	6.5	4.9
90 Total Non-Hydro Renewable - Wind	1252	1842	1714	1360	1950	1495	813	1335	1513	2656	2253	2414	2419	2355	1781

Regional: Non-Hydro Renewable - Wind
Operating Year: 2028 Water Year: 1937
2018 White Book Report Date: 12/1/2018
S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Non-Hydro Renewable - Wind															
1 3 Bar G Wind	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
2 Bennett Creek Wind	3.4	5.1	4.7	3.8	5.4	4.1	2.2	3.7	4.2	7.5	6.3	6.8	6.7	6.5	4.9
3 Benson Creek Wind	1.6	2.4	2.2	1.8	2.6	2.0	1.1	1.7	2.0	3.6	3.0	3.2	3.2	3.1	2.4
4 Big Horn Wind	40.2	60.2	56.0	45.0	64.5	49.1	26.3	43.5	50.0	89.4	75.2	80.5	79.6	77.8	58.7
5 Biglow Canyon Wind	72.4	108.6	100.9	81.1	116.2	88.6	47.4	78.4	90.1	161.1	135.6	145.0	143.4	140.2	105.8
6 Burley Butte Wind	3.1	4.7	4.4	3.5	5.0	3.8	2.1	3.4	3.9	7.0	5.9	6.3	6.2	6.1	4.6
7 Camp Reed Wind	3.6	5.4	5.0	4.1	5.8	4.4	2.4	3.9	4.5	8.1	6.8	7.3	7.2	7.0	5.3
8 Cassia Farms Wind	1.7	2.5	2.4	1.9	2.7	2.1	1.1	1.8	2.1	3.8	3.2	3.4	3.3	3.3	2.5
9 Cassia Gulch Wind	3.0	4.6	4.2	3.4	4.9	3.7	2.0	3.3	3.8	6.8	5.7	6.1	6.0	5.9	4.4
10 Chopin Wind	3.3	3.2	1.6	2.5	2.3	1.8	2.6	2.0	1.1	1.8	2.0	3.7	3.1	3.3	2.4
11 Cold Springs Wind	3.7	5.6	5.2	4.1	5.9	4.5	2.4	4.0	4.6	8.2	6.9	7.4	7.3	7.2	5.4
12 Combine Hills Wind	16.7	25.1	23.3	18.8	26.9	20.5	11.0	18.1	20.8	37.3	31.4	33.5	33.2	32.4	24.5
13 Condon Wind	8.0	12.0	11.2	9.0	12.9	9.8	5.2	8.7	10.0	17.8	15.0	16.1	15.9	15.5	11.7
14 Deep Creek Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15 Desert Meadow Windfarm	3.7	5.6	5.2	4.1	5.9	4.5	2.4	4.0	4.6	8.2	6.9	7.4	7.3	7.2	5.4
16 Durbin Creek Wind	1.6	2.4	2.2	1.8	2.6	2.0	1.1	1.7	2.0	3.6	3.0	3.2	3.2	3.1	2.4
17 Echo Wind Farm	10.4	15.6	14.5	11.6	16.7	12.7	6.8	11.2	12.9	23.1	19.5	20.8	20.6	20.1	15.2
18 Elkhorn Valley Wind Project	16.2	24.3	22.6	18.1	26.0	19.8	10.6	17.5	20.2	36.1	30.3	32.5	32.1	31.4	23.7
19 Foote Creek 1 Wind	6.7	10.0	9.3	7.5	10.7	8.2	4.4	7.2	8.3	14.8	12.5	13.4	13.2	12.9	9.7
20 Foote Creek 2 Wind	0.3	0.4	0.4	0.3	0.5	0.4	0.2	0.3	0.4	0.6	0.5	0.6	0.6	0.6	0.4
21 Foote Creek 4 Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22 Fossil Gulch Wind Project	1.7	2.5	2.4	1.9	2.7	2.1	1.1	1.8	2.1	3.8	3.2	3.4	3.3	3.3	2.5
23 Golden Valley Wind	1.9	2.9	2.7	2.2	3.1	2.4	1.3	2.1	2.4	4.3	3.6	3.9	3.8	3.7	2.8
24 Goodnoe Hills Wind	15.1	22.7	21.1	16.9	24.3	18.5	9.9	16.4	18.8	33.7	28.3	30.3	30.0	29.3	22.1
25 Goshen North (Ridgeline Wind)	20.0	30.1	27.9	22.4	32.2	24.5	13.1	21.7	24.9	44.6	37.5	40.2	39.7	38.8	29.3
26 Grayland Wind	1.0	1.4	1.3	1.1	1.6	1.2	0.6	1.0	1.2	2.2	1.8	1.9	1.9	1.9	1.4
27 Hammett Hill Wind	3.7	5.6	5.2	4.1	5.9	4.5	2.4	4.0	4.6	8.2	6.9	7.4	7.3	7.2	5.4
28 Harvest Wind	15.9	23.9	22.2	17.8	25.6	19.5	10.4	17.2	19.8	35.4	29.8	31.9	31.5	30.8	23.3
29 Hay Canyon Wind	16.2	24.3	22.6	18.2	26.0	19.9	10.6	17.6	20.2	36.1	30.4	32.5	32.1	31.4	23.7
30 Healow 2 Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31 High Mesa Wind	6.4	9.6	9.0	7.2	10.3	7.9	4.2	7.0	8.0	14.3	12.0	12.9	12.7	12.4	9.4
32 Hopkins Ridge Wind	25.2	37.8	35.1	28.2	40.5	30.8	16.5	27.3	31.4	56.1	47.2	50.5	49.9	48.8	36.8
33 Horse Butte Wind	9.3	13.9	12.9	10.4	14.9	11.3	6.1	10.0	11.5	20.6	17.4	18.6	18.4	18.0	13.6
34 Horseshoe Bend Wind Project	1.4	2.2	2.0	1.6	2.3	1.8	0.9	1.6	1.8	3.2	2.7	2.9	2.9	2.8	2.1
35 Hot Springs Wind	3.2	4.8	4.4	3.6	5.1	3.9	2.1	3.5	4.0	7.1	6.0	6.4	6.3	6.2	4.7
36 Jett Creek Wind	1.6	2.4	2.2	1.8	2.6	2.0	1.1	1.7	2.0	3.6	3.0	3.2	3.2	3.1	2.4
37 Josef Staufer - Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
38 Juniper Canyon Wind	24.3	36.5	33.9	27.3	39.1	29.8	15.9	26.3	30.3	54.2	45.6	48.8	48.2	47.1	35.6
39 Kittitas Valley Wind	16.2	24.3	22.6	18.2	26.0	19.9	10.6	17.6	20.2	36.1	30.4	32.5	32.1	31.4	23.7
40 Klondike Wind 1	3.9	5.8	5.4	4.3	6.2	4.7	2.5	4.2	4.8	8.6	7.2	7.7	7.7	7.5	5.6
41 Klondike Wind 2	12.1	18.1	16.8	13.5	19.4	14.8	7.9	13.1	15.0	26.9	22.6	24.2	23.9	23.4	17.6
42 Klondike Wind 3	36.0	54.0	50.2	40.4	57.8	44.0	23.6	39.0	44.8	80.1	67.4	72.1	71.3	69.7	52.6
43 Klondike Wind 3a	12.3	18.5	17.2	13.8	19.8	15.1	8.1	13.3	15.3	27.4	23.1	24.7	24.4	23.8	18.0
44 Knudson Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45 Leaning Juniper Wind	48.6	72.9	67.7	54.4	78.0	59.4	31.8	52.6	60.5	108.1	91.0	97.3	96.2	94.1	71.0

Regional: Non-Hydro Renewable - Wind
Operating Year: 2028 Water Year: 1937
2018 White Book Report Date: 12/1/2018
S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Non-Hydro Renewable - Wind															
46 Lewandowski Farms Wind	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
47 Lime Wind	0.5	0.7	0.7	0.5	0.8	0.6	0.3	0.5	0.6	1.1	0.9	1.0	1.0	0.9	0.7
48 Linden Ranch Wind	8.0	12.1	11.2	9.0	12.9	9.8	5.3	8.7	10.0	17.9	15.1	16.1	15.9	15.6	11.8
49 Livingston Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50 Lower Snake Wind	98.1	147.2	136.7	109.9	157.5	120.0	64.2	106.2	122.1	218.4	183.8	196.6	194.4	190.0	143.4
51 Mainline Wind	3.7	5.6	5.2	4.1	5.9	4.5	2.4	4.0	4.6	8.2	6.9	7.4	7.3	7.2	5.4
52 Marengo Wind	33.9	50.8	47.3	38.0	54.4	41.5	22.2	36.7	42.2	75.5	63.5	67.9	67.2	65.6	49.5
53 Meadow Creek Wind	19.3	28.9	26.9	21.6	30.9	23.6	12.6	20.9	24.0	42.9	36.1	38.6	38.2	37.3	28.2
54 Milner Dam Wind Farm	3.1	4.7	4.4	3.5	5.0	3.8	2.1	3.4	3.9	7.0	5.9	6.3	6.2	6.1	4.6
55 Montague	65.1	64.4	63.0	32.5	48.8	45.3	36.4	52.2	39.8	21.3	35.2	40.5	72.4	60.9	48.7
56 Nine Canyon Wind	15.4	23.2	21.5	17.3	24.8	18.9	10.1	16.7	19.2	34.4	28.9	30.9	30.6	29.9	22.6
57 Oregon Trail Wind	2.2	3.3	3.0	2.4	3.5	2.7	1.4	2.4	2.7	4.8	4.1	4.4	4.3	4.2	3.2
58 Palouse Wind	16.8	25.2	23.4	18.8	27.0	20.6	11.0	18.2	20.9	37.4	31.5	33.7	33.3	32.5	24.6
59 PaTu Wind	1.4	2.2	2.0	1.6	2.3	1.8	0.9	1.6	1.8	3.2	2.7	2.9	2.9	2.8	2.1
60 Paynes Ferry Wind Park	3.4	5.1	4.7	3.8	5.4	4.1	2.2	3.7	4.2	7.5	6.3	6.8	6.7	6.5	4.9
61 Pebble Springs Wind	15.9	23.8	22.1	17.8	25.5	19.4	10.4	17.2	19.8	35.4	29.8	31.8	31.5	30.8	23.2
62 Pilgrim Stage Station Wind Park	1.7	2.5	2.4	1.9	2.7	2.1	1.1	1.8	2.1	3.8	3.2	3.4	3.3	3.3	2.5
63 Power County Wind	7.2	10.9	10.1	8.1	11.6	8.9	4.7	7.8	9.0	16.1	13.6	14.5	14.4	14.0	10.6
64 Prospector Wind	1.6	2.4	2.2	1.8	2.6	2.0	1.1	1.7	2.0	3.6	3.0	3.2	3.2	3.1	2.4
65 Rattlesnake Road Wind Farm	16.6	24.8	23.1	18.6	26.6	20.3	10.8	17.9	20.6	36.9	31.0	33.2	32.8	32.1	24.2
66 Rock River Wind	8.0	12.1	11.2	9.0	12.9	9.8	5.3	8.7	10.0	17.9	15.1	16.1	15.9	15.6	11.8
67 Rockland wind	12.7	19.1	17.8	14.3	20.5	15.6	8.3	13.8	15.9	28.4	23.9	25.5	25.3	24.7	18.6
68 Ryegrass Wind	3.7	5.6	5.2	4.1	5.9	4.5	2.4	4.0	4.6	8.2	6.9	7.4	7.3	7.2	5.4
69 Salmon Falls Wind	3.4	5.1	4.7	3.8	5.4	4.1	2.2	3.7	4.2	7.5	6.3	6.8	6.7	6.5	4.9
70 Sawtooth Wind	3.6	5.4	5.0	4.0	5.8	4.4	2.4	3.9	4.5	8.0	6.8	7.2	7.1	7.0	5.3
71 Shepherds Flat Wind	136.0	204.0	189.6	152.3	218.3	166.4	89.0	147.2	169.3	302.8	254.8	272.5	269.5	263.4	198.8
72 Star Point Wind	15.9	23.8	22.1	17.8	25.5	19.4	10.4	17.2	19.8	35.4	29.8	31.8	31.5	30.8	23.2
73 Stateline Wind	48.3	72.5	67.4	54.1	77.6	59.1	31.6	52.3	60.2	107.6	90.5	96.9	95.8	93.6	70.7
74 Swauk Wind	0.7	1.0	1.0	0.8	1.1	0.8	0.4	0.7	0.9	1.5	1.3	1.4	1.4	1.3	1.0
75 Thousand Springs Wind Park	1.9	2.9	2.7	2.2	3.1	2.4	1.3	2.1	2.4	4.3	3.6	3.9	3.8	3.7	2.8
76 Threemile Canyon Wind	1.6	2.4	2.2	1.8	2.6	2.0	1.0	1.7	2.0	3.5	3.0	3.2	3.2	3.1	2.3
77 Tuana Gulch Wind	1.7	2.5	2.4	1.9	2.7	2.1	1.1	1.8	2.1	3.8	3.2	3.4	3.3	3.3	2.5
78 Tuana Springs Wind	2.7	4.1	3.8	3.0	4.3	3.3	1.8	2.9	3.4	6.0	5.1	5.4	5.4	5.2	4.0
79 Two Ponds Wind	3.7	5.6	5.2	4.1	5.9	4.5	2.4	4.0	4.6	8.2	6.9	7.4	7.3	7.2	5.4
80 Vansycle Wind	20.0	29.9	27.8	22.4	32.0	24.4	13.1	21.6	24.8	44.4	37.4	40.0	39.5	38.7	29.2
81 Vantage Wind	14.5	21.7	20.2	16.2	23.3	17.7	9.5	15.7	18.0	32.2	27.1	29.0	28.7	28.1	21.2
82 Wheat Field Wind	15.5	23.3	21.7	17.4	25.0	19.0	10.2	16.8	19.4	34.6	29.1	31.2	30.8	30.1	22.7
83 White Creek Wind	32.2	48.3	44.9	36.1	51.7	39.4	21.1	34.9	40.1	71.7	60.3	64.5	54.8	53.6	45.6
84 Wild Horse Wind	43.9	65.8	61.2	49.1	70.4	53.7	28.7	47.5	54.6	97.7	82.2	87.9	86.9	85.0	64.1
85 Willow Creek Wind	11.6	17.4	16.2	13.0	18.6	14.2	7.6	12.5	14.4	25.8	21.7	23.2	23.0	22.4	16.9
86 Willow Spring Wind Farm	1.6	2.4	2.2	1.8	2.6	2.0	1.1	1.7	2.0	3.6	3.0	3.2	3.2	3.1	2.4
87 Windy Point Wind	64.2	96.3	89.5	71.9	103.0	78.5	42.0	69.5	79.9	142.9	120.2	128.6	127.2	124.3	93.8
88 Wolverine Creek Wind	10.4	15.6	14.5	11.6	16.7	12.7	6.8	11.2	12.9	23.1	19.4	20.8	20.6	20.1	15.2
89 Yahoo Creek Wind	3.4	5.1	4.7	3.8	5.4	4.1	2.2	3.7	4.2	7.5	6.3	6.8	6.7	6.5	4.9
90 Total Non-Hydro Renewable - Wind	1252	1842	1714	1360	1950	1495	813	1335	1513	2656	2253	2414	2410	2346	1779

Regional: Non-Hydro Renewable - Wind
Operating Year: 2029 Water Year: 1937
2018 White Book Report Date: 12/1/2018
S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Non-Hydro Renewable - Wind															
1 3 Bar G Wind	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
2 Bennett Creek Wind	3.4	5.1	4.7	3.8	5.4	4.1	2.2	3.7	4.2	7.5	6.3	6.8	6.7	6.5	4.9
3 Benson Creek Wind	1.6	2.4	2.2	1.8	2.6	2.0	1.1	1.7	2.0	3.6	3.0	3.2	3.2	3.1	2.4
4 Big Horn Wind	40.2	60.2	56.0	45.0	64.5	49.1	26.3	43.5	50.0	89.4	75.2	80.5	79.6	77.8	58.7
5 Biglow Canyon Wind	72.4	108.6	100.9	81.1	116.2	88.6	47.4	78.4	90.1	161.1	135.6	145.0	143.4	140.2	105.9
6 Burley Butte Wind	3.1	4.7	4.4	3.5	5.0	3.8	2.1	3.4	3.9	7.0	5.9	6.3	6.2	6.1	4.6
7 Camp Reed Wind	3.6	5.4	5.0	4.1	5.8	4.4	2.4	3.9	4.5	8.1	6.8	7.3	7.2	7.0	5.3
8 Cassia Farms Wind	1.7	2.5	2.4	1.9	2.7	2.1	1.1	1.8	2.1	3.8	3.2	3.4	3.3	3.3	2.5
9 Cassia Gulch Wind	3.0	4.6	4.2	3.4	4.9	3.7	2.0	3.3	3.8	6.8	5.7	6.1	6.0	5.9	4.4
10 Chopin Wind	3.3	3.2	1.6	2.5	2.3	1.8	2.6	2.0	1.1	1.8	2.0	3.7	3.1	3.3	2.4
11 Cold Springs Wind	3.7	5.6	5.2	4.1	5.9	4.5	2.4	4.0	4.6	8.2	6.9	7.4	7.3	7.2	5.4
12 Combine Hills Wind	16.7	25.1	23.3	18.8	26.9	20.5	11.0	18.1	20.8	37.3	31.4	33.5	33.2	32.4	24.5
13 Condon Wind	8.0	12.0	11.2	9.0	12.9	9.8	5.2	8.7	10.0	17.8	15.0	16.1	15.9	15.5	11.7
14 Deep Creek Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15 Desert Meadow Windfarm	3.7	5.6	5.2	4.1	5.9	4.5	2.4	4.0	4.6	8.2	6.9	7.4	7.3	7.2	5.4
16 Durbin Creek Wind	1.6	2.4	2.2	1.8	2.6	2.0	1.1	1.7	2.0	3.6	3.0	3.2	3.2	3.1	2.4
17 Echo Wind Farm	10.4	15.6	14.5	11.6	16.7	12.7	6.8	11.2	12.9	23.1	19.5	20.8	20.6	20.1	15.2
18 Elkhorn Valley Wind Project	16.2	24.3	22.6	18.1	26.0	19.8	10.6	17.5	20.2	36.1	30.3	32.5	32.1	31.4	23.7
19 Foote Creek 1 Wind	6.7	10.0	9.3	7.5	10.7	8.2	4.4	7.2	8.3	14.8	12.5	13.4	13.2	12.9	9.7
20 Foote Creek 2 Wind	0.3	0.4	0.4	0.3	0.5	0.4	0.2	0.3	0.4	0.6	0.5	0.6	0.6	0.6	0.4
21 Foote Creek 4 Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22 Fossil Gulch Wind Project	1.7	2.5	2.4	1.9	2.7	2.1	1.1	1.8	2.1	3.8	3.2	3.4	3.3	3.3	2.5
23 Golden Valley Wind	1.9	2.9	2.7	2.2	3.1	2.4	1.3	2.1	2.4	4.3	3.6	3.9	3.8	3.7	2.8
24 Goodnoe Hills Wind	15.1	22.7	21.1	16.9	24.3	18.5	9.9	16.4	18.8	33.7	28.3	30.3	30.0	29.3	22.1
25 Goshen North (Ridgeline Wind)	20.0	30.1	27.9	22.4	32.2	24.5	13.1	21.7	24.9	44.6	37.5	40.2	39.7	38.8	29.3
26 Grayland Wind	1.0	1.4	1.3	1.1	1.6	1.2	0.6	1.0	1.2	2.2	1.8	1.9	1.9	1.9	1.4
27 Hammett Hill Wind	3.7	5.6	5.2	4.1	5.9	4.5	2.4	4.0	4.6	8.2	6.9	7.4	7.3	7.2	5.4
28 Harvest Wind	15.9	23.9	22.2	17.8	25.6	19.5	10.4	17.2	19.8	35.4	29.8	31.9	31.5	30.8	23.3
29 Hay Canyon Wind	16.2	24.3	22.6	18.2	26.0	19.9	10.6	17.6	20.2	36.1	30.4	32.5	32.1	31.4	23.7
30 Healow 2 Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31 High Mesa Wind	6.4	9.6	9.0	7.2	10.3	7.9	4.2	7.0	8.0	14.3	12.0	12.9	12.7	12.4	9.4
32 Hopkins Ridge Wind	25.2	37.8	35.1	28.2	40.5	30.8	16.5	27.3	31.4	56.1	47.2	50.5	49.9	48.8	36.9
33 Horse Butte Wind	9.3	13.9	12.9	10.4	14.9	11.3	6.1	10.0	11.5	20.6	17.4	18.6	18.4	18.0	13.6
34 Horseshoe Bend Wind Project	1.4	2.2	2.0	1.6	2.3	1.8	0.9	1.6	1.8	3.2	2.7	2.9	2.9	2.8	2.1
35 Hot Springs Wind	3.2	4.8	4.4	3.6	5.1	3.9	2.1	3.5	4.0	7.1	6.0	6.4	6.3	6.2	4.7
36 Jett Creek Wind	1.6	2.4	2.2	1.8	2.6	2.0	1.1	1.7	2.0	3.6	3.0	3.2	3.2	3.1	2.4
37 Josef Staufer - Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
38 Juniper Canyon Wind	24.3	36.5	33.9	27.3	39.1	29.8	15.9	26.3	30.3	54.2	45.6	48.8	48.2	47.1	35.6
39 Kittitas Valley Wind	16.2	24.3	22.6	18.2	26.0	19.9	10.6	17.6	20.2	36.1	30.4	32.5	32.1	31.4	23.7
40 Klondike Wind 1	3.9	5.8	5.4	4.3	6.2	4.7	2.5	4.2	4.8	8.6	7.2	7.7	7.7	7.5	5.7
41 Klondike Wind 2	12.1	18.1	16.8	13.5	19.4	14.8	7.9	13.1	15.0	26.9	22.6	24.2	23.9	23.4	17.7
42 Klondike Wind 3	36.0	54.0	50.2	40.3	57.8	44.0	23.6	39.0	44.8	80.1	67.4	72.1	71.3	69.7	52.6
43 Klondike Wind 3a	12.3	18.5	17.2	13.8	19.8	15.1	8.1	13.3	15.3	27.4	23.1	24.7	24.4	23.8	18.0
44 Knudson Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45 Leaning Juniper Wind	48.6	72.9	67.7	54.4	78.0	59.4	31.8	52.6	60.5	108.1	91.0	97.3	96.2	94.1	71.1

Regional: Non-Hydro Renewable - Wind
Operating Year: 2029 Water Year: 1937
2018 White Book Report Date: 12/1/2018
S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Non-Hydro Renewable - Wind															
46 Lewandowski Farms Wind	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
47 Lime Wind	0.5	0.7	0.7	0.5	0.8	0.6	0.3	0.5	0.6	1.1	0.9	1.0	1.0	0.9	0.7
48 Linden Ranch Wind	8.0	12.1	11.2	9.0	12.9	9.8	5.3	8.7	10.0	17.9	15.1	16.1	15.9	15.6	11.8
49 Livingston Wind	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50 Lower Snake Wind	98.1	147.2	136.7	109.9	157.5	120.0	64.2	106.2	122.1	218.4	183.8	196.6	194.4	190.0	143.5
51 Mainline Wind	3.7	5.6	5.2	4.1	5.9	4.5	2.4	4.0	4.6	8.2	6.9	7.4	7.3	7.2	5.4
52 Marengo Wind	33.9	50.8	47.3	38.0	54.4	41.5	22.2	36.7	42.2	75.5	63.5	67.9	67.2	65.6	49.6
53 Meadow Creek Wind	19.3	28.9	26.9	21.6	30.9	23.6	12.6	20.9	24.0	42.9	36.1	38.6	38.2	37.3	28.2
54 Milner Dam Wind Farm	3.1	4.7	4.4	3.5	5.0	3.8	2.1	3.4	3.9	7.0	5.9	6.3	6.2	6.1	4.6
55 Montague	65.1	64.4	63.0	32.5	48.8	45.3	36.4	52.2	39.8	21.3	35.2	40.5	72.4	60.9	48.7
56 Nine Canyon Wind	15.4	23.2	21.5	17.3	24.8	18.9	10.1	16.7	19.2	34.4	28.9	30.9	30.6	29.9	22.6
57 Oregon Trail Wind	2.2	3.3	3.0	2.4	3.5	2.7	1.4	2.4	2.7	4.8	4.1	4.4	4.3	4.2	3.2
58 Palouse Wind	16.8	25.2	23.4	18.8	27.0	20.6	11.0	18.2	20.9	37.4	31.5	33.7	33.3	32.5	24.6
59 PaTu Wind	1.4	2.2	2.0	1.6	2.3	1.8	0.9	1.6	1.8	3.2	2.7	2.9	2.9	2.8	2.1
60 Paynes Ferry Wind Park	3.4	5.1	4.7	3.8	5.4	4.1	2.2	3.7	4.2	7.5	6.3	6.8	6.7	6.5	4.9
61 Pebble Springs Wind	15.9	23.8	22.1	17.8	25.5	19.4	10.4	17.2	19.8	35.4	29.8	31.8	31.5	30.8	23.2
62 Pilgrim Stage Station Wind Park	1.7	2.5	2.4	1.9	2.7	2.1	1.1	1.8	2.1	3.8	3.2	3.4	3.3	3.3	2.5
63 Power County Wind	7.2	10.9	10.1	8.1	11.6	8.9	4.7	7.8	9.0	16.1	13.6	14.5	14.4	14.0	10.6
64 Prospector Wind	1.6	2.4	2.2	1.8	2.6	2.0	1.1	1.7	2.0	3.6	3.0	3.2	3.2	3.1	2.4
65 Rattlesnake Road Wind Farm	16.6	24.8	23.1	18.6	26.6	20.3	10.8	17.9	20.6	36.9	31.0	33.2	32.8	32.1	24.2
66 Rock River Wind	8.0	12.1	11.2	9.0	12.9	9.8	5.3	8.7	10.0	17.9	15.1	16.1	15.9	15.6	11.8
67 Rockland wind	12.7	19.1	17.8	14.3	20.5	15.6	8.3	13.8	15.9	28.4	23.9	25.5	25.3	24.7	18.6
68 Ryegrass Wind	3.7	5.6	5.2	4.1	5.9	4.5	2.4	4.0	4.6	8.2	6.9	7.4	7.3	7.2	5.4
69 Salmon Falls Wind	3.4	5.1	4.7	3.8	5.4	4.1	2.2	3.7	4.2	7.5	6.3	6.8	6.7	6.5	4.9
70 Sawtooth Wind	3.6	5.4	5.0	4.0	5.8	4.4	2.4	3.9	4.5	8.0	6.8	7.2	7.1	7.0	5.3
71 Shepherds Flat Wind	136.0	204.0	189.6	152.3	218.3	166.4	89.0	147.2	169.3	302.8	254.8	272.5	269.5	263.4	198.9
72 Star Point Wind	15.9	23.8	22.1	17.8	25.5	19.4	10.4	17.2	19.8	35.4	29.8	31.8	31.5	30.8	23.2
73 Stateline Wind	48.3	72.5	67.4	54.1	77.6	59.1	31.6	52.3	60.2	107.6	90.5	96.9	95.8	93.6	70.7
74 Swauk Wind	0.7	1.0	1.0	0.8	1.1	0.8	0.4	0.7	0.9	1.5	1.3	1.4	1.4	1.3	1.0
75 Thousand Springs Wind Park	1.9	2.9	2.7	2.2	3.1	2.4	1.3	2.1	2.4	4.3	3.6	3.9	3.8	3.7	2.8
76 Threemile Canyon Wind	1.6	2.4	2.2	1.8	2.6	2.0	1.0	1.7	2.0	3.5	3.0	3.2	3.2	3.1	2.3
77 Tuana Gulch Wind	1.7	2.5	2.4	1.9	2.7	2.1	1.1	1.8	2.1	3.8	3.2	3.4	3.3	3.3	2.5
78 Tuana Springs Wind	2.7	4.1	3.8	3.0	4.3	3.3	1.8	2.9	3.4	6.0	5.1	5.4	5.4	5.2	4.0
79 Two Ponds Wind	3.7	5.6	5.2	4.1	5.9	4.5	2.4	4.0	4.6	8.2	6.9	7.4	7.3	7.2	5.4
80 Vansycle Wind	20.0	29.9	27.8	22.4	32.0	24.4	13.1	21.6	24.8	44.4	37.4	40.0	39.5	38.7	29.2
81 Vantage Wind	14.5	21.7	20.2	16.2	23.3	17.7	9.5	15.7	18.0	32.2	27.1	29.0	28.7	28.1	21.2
82 Wheat Field Wind	15.5	23.3	21.7	17.4	25.0	19.0	10.2	16.8	19.4	34.6	29.1	31.2	30.8	30.1	22.7
83 White Creek Wind	27.7	41.5	38.6	31.0	44.4	33.9	18.1	30.0	34.4	61.6	51.8	55.5	54.8	53.6	40.5
84 Wild Horse Wind	43.9	65.8	61.2	49.1	70.4	53.7	28.7	47.5	54.6	97.7	82.2	87.9	86.9	85.0	64.2
85 Willow Creek Wind	11.6	17.4	16.2	13.0	18.6	14.2	7.6	12.5	14.4	25.8	21.7	23.2	23.0	22.4	17.0
86 Willow Spring Wind Farm	1.6	2.4	2.2	1.8	2.6	2.0	1.1	1.7	2.0	3.6	3.0	3.2	3.2	3.1	2.4
87 Windy Point Wind	64.2	96.3	89.5	71.9	103.0	78.5	42.0	69.5	79.9	142.9	120.2	128.6	127.2	124.3	93.9
88 Wolverine Creek Wind	10.4	15.6	14.5	11.6	16.7	12.7	6.8	11.2	12.9	23.1	19.4	20.8	20.6	20.1	15.2
89 Yahoo Creek Wind	3.4	5.1	4.7	3.8	5.4	4.1	2.2	3.7	4.2	7.5	6.3	6.8	6.7	6.5	4.9
90 Total Non-Hydro Renewable - Wind	1247	1835	1707	1355	1943	1489	810	1330	1508	2646	2244	2405	2410	2346	1775

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***Exhibit 34
Regional Non-Hydro Renewable - Solar
Monthly Energy
Operating Year 2020 to 2029***

Regional: Non-Hydro Renewable - Solar
Operating Year: 2020 Water Year: 1937
2018 White Book Report Date: 12/1/2018
S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Non-Hydro Renewable - Solar															
1 Adams Nielson Solar, LLC	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
2 Adams Solar Center	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
3 Agate Bay Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
4 American Falls Solar	13.6	13.6	11.9	8.6	5.0	2.8	3.4	5.4	10.5	12.3	12.3	14.5	15.5	15.5	9.9
5 Arlington Community Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
6 Avista Community Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
7 Baldock Solar	0.3	0.3	0.3	0.2	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.3	0.3	0.3	0.2
8 Ballston Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
9 Bear Creek Solar Center	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
10 Bellevue Solar (Amity, OR)	0.3	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.3	0.3	0.4	0.2
11 Black Cap Solar Project	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
12 Blue Basin Power	0.5	0.5	0.5	0.4	0.4	0.3	0.1	0.1	0.3	0.3	0.3	0.4	0.4	0.5	0.4
13 Bly Solar Center	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
14 Bonanza Solar	2.4	2.4	2.4	1.8	1.8	1.2	0.6	0.6	1.2	1.2	1.2	1.8	1.8	2.4	1.6
15 Boring Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
16 Case Creek Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
17 Chilquin Solar Facility	4.0	4.0	4.0	3.0	3.0	2.0	1.0	1.0	2.0	2.0	2.0	3.0	3.0	4.0	2.7
18 Clark Community Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19 Collier Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
20 Colton Solar	0.2	0.2	0.2	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1
21 Cowlitz Community Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22 Dairy Solar (OR 8)	4.0	4.0	4.0	3.0	3.0	2.0	1.0	1.0	2.0	2.0	2.0	3.0	3.0	4.0	2.7
23 Day Hill Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
24 Dayton Cutoff Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
25 Decatur Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26 Domaine Drouhin Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27 Eagle Point Solar	4.0	4.0	4.0	3.0	3.0	2.0	1.0	1.0	2.0	2.0	2.0	3.0	3.0	4.0	2.7
28 Elbe Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
29 Finn Hill Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30 Gala Solar	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4
31 Grand Ronde Solar	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
32 Grand View Solar	30.3	30.3	26.2	19.2	10.5	4.8	6.4	8.0	14.4	23.3	23.3	27.7	32.9	34.7	19.9
33 Grove Solar Center	2.0	2.0	1.7	1.1	0.6	0.4	0.0	0.5	1.1	1.8	1.8	2.3	2.4	2.6	1.4
34 Horn Rapids	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
35 Hyline Solar Center	3.0	3.0	2.6	1.8	1.0	0.7	0.8	1.2	1.5	2.6	2.6	3.4	3.4	3.7	2.1
36 Idaho Solar 1	13.8	13.8	11.9	7.3	5.0	3.1	3.4	5.5	6.8	11.8	11.8	16.2	16.9	18.1	10.0
37 Industrial Finishes Solar	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
38 Interstate Solar	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
39 Kale Patch Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
40 King Estate Solar	0.2	0.2	0.2	0.1	0.1	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1
41 Labish Solar	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
42 Lakeview (OR6)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
43 Lakeview Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
44 Merrill Solar	3.2	3.2	3.2	2.4	2.4	1.6	0.8	0.8	1.6	1.6	1.6	2.4	2.4	3.2	2.1
45 Mountain Home Solar	7.4	7.4	6.9	5.0	2.7	1.9	2.1	3.6	5.0	6.8	6.8	7.3	7.8	8.0	5.4

Regional: Non-Hydro Renewable - Solar
Operating Year: 2020 Water Year: 1937
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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Non-Hydro Renewable - Solar															
46 Moyer-Tolles Solar Station	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
47 Murphy Flat Solar Power	7.2	7.2	6.0	4.4	2.4	1.8	2.1	3.6	5.1	6.5	6.5	7.6	7.9	8.7	5.3
48 Neff Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
49 Old Mill Solar LLC	2.7	2.7	2.7	2.0	2.0	1.4	0.7	0.7	1.4	1.4	1.4	2.0	2.0	2.7	1.8
50 O'Neil Creek Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
51 Open Range Solar Center	3.3	3.3	2.9	2.0	1.3	0.6	0.0	1.3	2.0	2.9	2.9	4.0	3.9	4.3	2.4
52 Orchard Ranch Solar	7.1	7.1	6.2	4.5	2.4	1.7	2.2	3.8	4.9	6.4	6.4	7.9	8.1	8.9	5.3
53 Outback Solar	1.6	1.6	1.3	0.9	0.6	0.4	0.4	0.8	1.1	1.3	1.3	1.5	1.8	1.8	1.1
54 Palmer Creek Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
55 Pendleton Solar (NorWest 9)	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
56 Pepsi-Cola Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57 Pocatello Solar 1	9.0	9.0	8.0	7.0	6.0	3.0	3.0	3.0	4.0	6.0	6.0	7.0	8.0	8.0	6.0
58 Portland Public Schools Solar	0.2	0.2	0.2	0.1	0.1	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1
59 ProLogis Warehouse Solar	0.6	0.6	0.5	0.3	0.2	0.1	0.2	0.2	0.4	0.5	0.5	0.7	0.7	0.7	0.4
60 Rafeal Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
61 Railroad Solar Center	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
62 Sheep Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
63 Silverton Solar	0.2	0.2	0.2	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1
64 Simcoe Solar	7.1	7.1	6.3	4.5	2.4	1.7	2.3	4.0	4.9	6.2	6.2	7.8	8.2	8.2	5.3
65 Steel Bridge Solar	0.5	0.5	0.5	0.3	0.2	0.1	0.2	0.2	0.3	0.4	0.4	0.5	0.5	0.6	0.4
66 Thunderegg Solar Center	3.2	3.2	2.9	2.0	1.1	0.7	0.9	1.4	2.0	2.9	2.9	3.8	3.9	4.2	2.4
67 Tumble Weed Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
68 Turkey Hill (OR 3)	4.0	4.0	4.0	3.0	3.0	2.0	1.0	1.0	2.0	2.0	2.0	3.0	3.0	4.0	2.7
69 Vale Air Solar Center	3.4	3.4	2.9	2.0	1.0	6.0	0.7	1.2	2.0	2.9	2.9	3.7	3.4	4.2	2.8
70 Valley Creek Solar	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
71 Walker Brothers Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72 White Bluffs Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
73 Wild Horse Wind	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
74 Woodline Solar	3.2	3.2	3.2	2.4	2.4	1.6	0.8	0.8	1.6	1.6	1.6	2.4	2.4	3.2	2.1
75 Wy'East Solar	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
76 Yamhill Solar	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2
77 Total Non-Hydro Renewable - Solar	186	186	171	136	107	87	78	94	124	153	153	181	191	205	143

Regional: Non-Hydro Renewable - Solar
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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Non-Hydro Renewable - Solar															
1 Adams Nielson Solar, LLC	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
2 Adams Solar Center	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
3 Agate Bay Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
4 American Falls Solar	13.6	13.6	11.9	8.6	5.0	2.8	3.4	5.4	10.5	12.3	12.3	14.5	15.5	15.5	9.9
5 Arlington Community Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
6 Avista Community Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
7 Baldock Solar	0.3	0.3	0.3	0.2	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.3	0.3	0.3	0.2
8 Ballston Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
9 Bear Creek Solar Center	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
10 Bellevue Solar (Amity, OR)	0.3	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.3	0.3	0.4	0.2
11 Black Cap Solar Project	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
12 Blue Basin Power	0.5	0.5	0.5	0.4	0.4	0.3	0.1	0.1	0.3	0.3	0.3	0.4	0.4	0.5	0.4
13 Bly Solar Center	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
14 Bonanza Solar	2.4	2.4	2.4	1.8	1.8	1.2	0.6	0.6	1.2	1.2	1.2	1.8	1.8	2.4	1.6
15 Boring Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
16 Case Creek Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
17 Chiliquin Solar Facility	4.0	4.0	4.0	3.0	3.0	2.0	1.0	1.0	2.0	2.0	2.0	3.0	3.0	4.0	2.7
18 Clark Community Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19 Collier Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
20 Colton Solar	0.2	0.2	0.2	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1
21 Cowlitz Community Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22 Dairy Solar (OR 8)	4.0	4.0	4.0	3.0	3.0	2.0	1.0	1.0	2.0	2.0	2.0	3.0	3.0	4.0	2.7
23 Day Hill Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
24 Dayton Cutoff Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
25 Decatur Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26 Domaine Drouhin Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27 Eagle Point Solar	4.0	4.0	4.0	3.0	3.0	2.0	1.0	1.0	2.0	2.0	2.0	3.0	3.0	4.0	2.7
28 Elbe Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
29 Finn Hill Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30 Gala Solar	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4
31 Grand Ronde Solar	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
32 Grand View Solar	30.3	30.3	26.2	19.2	10.5	4.8	6.4	8.0	14.4	23.3	23.3	27.7	32.9	34.7	19.9
33 Grove Solar Center	2.0	2.0	1.7	1.1	0.6	0.4	0.0	0.5	1.1	1.8	1.8	2.3	2.4	2.6	1.4
34 Horn Rapids	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
35 Hyline Solar Center	3.0	3.0	2.6	1.8	1.0	0.7	0.8	1.2	1.5	2.6	2.6	3.4	3.4	3.7	2.1
36 Idaho Solar 1	13.8	13.8	11.9	7.3	5.0	3.1	3.4	5.5	6.8	11.8	11.8	16.2	16.9	18.1	10.0
37 Industrial Finishes Solar	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
38 Interstate Solar	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
39 Kale Patch Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
40 King Estate Solar	0.2	0.2	0.2	0.1	0.1	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1
41 Labish Solar	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
42 Lakeview (OR6)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
43 Lakeview Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
44 Merrill Solar	3.2	3.2	3.2	2.4	2.4	1.6	0.8	0.8	1.6	1.6	1.6	2.4	2.4	3.2	2.1
45 Mountain Home Solar	7.4	7.4	6.9	5.0	2.7	1.9	2.1	3.6	5.0	6.8	6.8	7.3	7.8	8.0	5.4

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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Non-Hydro Renewable - Solar															
46 Moyer-Tolles Solar Station	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
47 Murphy Flat Solar Power	7.2	7.2	6.0	4.4	2.4	1.8	2.1	3.6	5.1	6.5	6.5	7.6	7.9	8.7	5.3
48 Neff Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
49 Old Mill Solar LLC	2.7	2.7	2.7	2.0	2.0	1.4	0.7	0.7	1.4	1.4	1.4	2.0	2.0	2.7	1.8
50 O'Neil Creek Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
51 Open Range Solar Center	3.3	3.3	2.9	2.0	1.3	0.6	0.0	1.3	2.0	2.9	2.9	4.0	3.9	4.3	2.4
52 Orchard Ranch Solar	7.1	7.1	6.2	4.5	2.4	1.7	2.2	3.8	4.9	6.4	6.4	7.9	8.1	8.9	5.3
53 Outback Solar	1.6	1.6	1.3	0.9	0.6	0.4	0.4	0.8	1.1	1.3	1.3	1.5	1.8	1.8	1.1
54 Palmer Creek Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
55 Pendleton Solar (NorWest 9)	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
56 Pepsi-Cola Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57 Pocatello Solar 1	9.0	9.0	8.0	7.0	6.0	3.0	3.0	3.0	4.0	6.0	6.0	7.0	8.0	8.0	6.0
58 Portland Public Schools Solar	0.2	0.2	0.2	0.1	0.1	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1
59 ProLogis Warehouse Solar	0.6	0.6	0.5	0.3	0.2	0.1	0.2	0.2	0.4	0.5	0.5	0.7	0.7	0.7	0.4
60 Rafeal Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
61 Railroad Solar Center	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
62 Sheep Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
63 Silverton Solar	0.2	0.2	0.2	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1
64 Simcoe Solar	7.1	7.1	6.3	4.5	2.4	1.7	2.3	4.0	4.9	6.2	6.2	7.8	8.2	8.2	5.3
65 Steel Bridge Solar	0.5	0.5	0.5	0.3	0.2	0.1	0.2	0.2	0.3	0.4	0.4	0.5	0.5	0.6	0.4
66 Thunderegg Solar Center	3.2	3.2	2.9	2.0	1.1	0.7	0.9	1.4	2.0	2.9	2.9	3.8	3.9	4.2	2.4
67 Tumble Weed Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
68 Turkey Hill (OR 3)	4.0	4.0	4.0	3.0	3.0	2.0	1.0	1.0	2.0	2.0	2.0	3.0	3.0	4.0	2.7
69 Vale Air Solar Center	3.4	3.4	2.9	2.0	1.0	6.0	0.7	1.2	2.0	2.9	2.9	3.7	3.4	4.2	2.8
70 Valley Creek Solar	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
71 Walker Brothers Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72 White Bluffs Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
73 Wild Horse Wind	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
74 Woodline Solar	3.2	3.2	3.2	2.4	2.4	1.6	0.8	0.8	1.6	1.6	1.6	2.4	2.4	3.2	2.1
75 Wy'East Solar	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
76 Yamhill Solar	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2
77 Total Non-Hydro Renewable - Solar	186	186	171	136	107	87	78	94	124	153	153	181	191	205	143

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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Non-Hydro Renewable - Solar															
1 Adams Nielson Solar, LLC	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
2 Adams Solar Center	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
3 Agate Bay Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
4 American Falls Solar	13.6	13.6	11.9	8.6	5.0	2.8	3.4	5.4	10.5	12.3	12.3	14.5	15.5	15.5	9.9
5 Arlington Community Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
6 Avista Community Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
7 Baldock Solar	0.3	0.3	0.3	0.2	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.3	0.3	0.3	0.2
8 Ballston Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
9 Bear Creek Solar Center	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
10 Bellevue Solar (Amity, OR)	0.3	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.3	0.3	0.4	0.2
11 Black Cap Solar Project	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
12 Blue Basin Power	0.5	0.5	0.5	0.4	0.4	0.3	0.1	0.1	0.3	0.3	0.3	0.4	0.4	0.5	0.4
13 Bly Solar Center	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
14 Bonanza Solar	2.4	2.4	2.4	1.8	1.8	1.2	0.6	0.6	1.2	1.2	1.2	1.8	1.8	2.4	1.6
15 Boring Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
16 Case Creek Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
17 Chilquin Solar Facility	4.0	4.0	4.0	3.0	3.0	2.0	1.0	1.0	2.0	2.0	2.0	3.0	3.0	4.0	2.7
18 Clark Community Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19 Collier Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
20 Colton Solar	0.2	0.2	0.2	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1
21 Cowlitz Community Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22 Dairy Solar (OR 8)	4.0	4.0	4.0	3.0	3.0	2.0	1.0	1.0	2.0	2.0	2.0	3.0	3.0	4.0	2.7
23 Day Hill Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
24 Dayton Cutoff Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
25 Decatur Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26 Domaine Drouhin Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27 Eagle Point Solar	4.0	4.0	4.0	3.0	3.0	2.0	1.0	1.0	2.0	2.0	2.0	3.0	3.0	4.0	2.7
28 Elbe Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
29 Finn Hill Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30 Gala Solar	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4
31 Grand Ronde Solar	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
32 Grand View Solar	30.3	30.3	26.2	19.2	10.5	4.8	6.4	8.0	14.4	23.3	23.3	27.7	32.9	34.7	19.9
33 Grove Solar Center	2.0	2.0	1.7	1.1	0.6	0.4	0.0	0.5	1.1	1.8	1.8	2.3	2.4	2.6	1.4
34 Horn Rapids	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
35 Hyline Solar Center	3.0	3.0	2.6	1.8	1.0	0.7	0.8	1.2	1.5	2.6	2.6	3.4	3.4	3.7	2.1
36 Idaho Solar 1	13.8	13.8	11.9	7.3	5.0	3.1	3.4	5.5	6.8	11.8	11.8	16.2	16.9	18.1	10.0
37 Industrial Finishes Solar	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
38 Interstate Solar	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
39 Kale Patch Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
40 King Estate Solar	0.2	0.2	0.2	0.1	0.1	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1
41 Labish Solar	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
42 Lakeview (OR6)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
43 Lakeview Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
44 Merrill Solar	3.2	3.2	3.2	2.4	2.4	1.6	0.8	0.8	1.6	1.6	1.6	2.4	2.4	3.2	2.1
45 Mountain Home Solar	7.4	7.4	6.9	5.0	2.7	1.9	2.1	3.6	5.0	6.8	6.8	7.3	7.8	8.0	5.4

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Non-Hydro Renewable - Solar															
46 Moyer-Tolles Solar Station	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
47 Murphy Flat Solar Power	7.2	7.2	6.0	4.4	2.4	1.8	2.1	3.6	5.1	6.5	6.5	7.6	7.9	8.7	5.3
48 Neff Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
49 Old Mill Solar LLC	2.7	2.7	2.7	2.0	2.0	1.4	0.7	0.7	1.4	1.4	1.4	2.0	2.0	2.7	1.8
50 O'Neil Creek Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
51 Open Range Solar Center	3.3	3.3	2.9	2.0	1.3	0.6	0.0	1.3	2.0	2.9	2.9	4.0	3.9	4.3	2.4
52 Orchard Ranch Solar	7.1	7.1	6.2	4.5	2.4	1.7	2.2	3.8	4.9	6.4	6.4	7.9	8.1	8.9	5.3
53 Outback Solar	1.6	1.6	1.3	0.9	0.6	0.4	0.4	0.8	1.1	1.3	1.3	1.5	1.8	1.8	1.1
54 Palmer Creek Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
55 Pendleton Solar (NorWest 9)	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
56 Pepsi-Cola Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57 Pocatello Solar 1	9.0	9.0	8.0	7.0	6.0	3.0	3.0	3.0	4.0	6.0	6.0	7.0	8.0	8.0	6.0
58 Portland Public Schools Solar	0.2	0.2	0.2	0.1	0.1	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1
59 ProLogis Warehouse Solar	0.6	0.6	0.5	0.3	0.2	0.1	0.2	0.2	0.4	0.5	0.5	0.7	0.7	0.7	0.4
60 Rafeal Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
61 Railroad Solar Center	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
62 Sheep Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
63 Silverton Solar	0.2	0.2	0.2	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1
64 Simcoe Solar	7.1	7.1	6.3	4.5	2.4	1.7	2.3	4.0	4.9	6.2	6.2	7.8	8.2	8.2	5.3
65 Steel Bridge Solar	0.5	0.5	0.5	0.3	0.2	0.1	0.2	0.2	0.3	0.4	0.4	0.5	0.5	0.6	0.4
66 Thunderegg Solar Center	3.2	3.2	2.9	2.0	1.1	0.7	0.9	1.4	2.0	2.9	2.9	3.8	3.9	4.2	2.4
67 Tumble Weed Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
68 Turkey Hill (OR 3)	4.0	4.0	4.0	3.0	3.0	2.0	1.0	1.0	2.0	2.0	2.0	3.0	3.0	4.0	2.7
69 Vale Air Solar Center	3.4	3.4	2.9	2.0	1.0	6.0	0.7	1.2	2.0	2.9	2.9	3.7	3.4	4.2	2.8
70 Valley Creek Solar	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
71 Walker Brothers Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72 White Bluffs Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
73 Wild Horse Wind	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
74 Woodline Solar	3.2	3.2	3.2	2.4	2.4	1.6	0.8	0.8	1.6	1.6	1.6	2.4	2.4	3.2	2.1
75 Wy'East Solar	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
76 Yamhill Solar	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2
77 Total Non-Hydro Renewable - Solar	186	186	171	136	107	87	78	94	124	153	153	181	191	205	143

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Non-Hydro Renewable - Solar															
1 Adams Nielson Solar, LLC	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
2 Adams Solar Center	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
3 Agate Bay Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
4 American Falls Solar	13.6	13.6	11.9	8.6	5.0	2.8	3.4	5.4	10.5	12.3	12.3	14.5	15.5	15.5	9.9
5 Arlington Community Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
6 Avista Community Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
7 Baldock Solar	0.3	0.3	0.3	0.2	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.3	0.3	0.3	0.2
8 Ballston Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
9 Bear Creek Solar Center	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
10 Bellevue Solar (Amity, OR)	0.3	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.3	0.3	0.4	0.2
11 Black Cap Solar Project	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
12 Blue Basin Power	0.5	0.5	0.5	0.4	0.4	0.3	0.1	0.1	0.3	0.3	0.3	0.4	0.4	0.5	0.4
13 Bly Solar Center	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
14 Bonanza Solar	2.4	2.4	2.4	1.8	1.8	1.2	0.6	0.6	1.2	1.2	1.2	1.8	1.8	2.4	1.6
15 Boring Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
16 Case Creek Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
17 Chilquin Solar Facility	4.0	4.0	4.0	3.0	3.0	2.0	1.0	1.0	2.0	2.0	2.0	3.0	3.0	4.0	2.7
18 Clark Community Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19 Collier Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
20 Colton Solar	0.2	0.2	0.2	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1
21 Cowlitz Community Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22 Dairy Solar (OR 8)	4.0	4.0	4.0	3.0	3.0	2.0	1.0	1.0	2.0	2.0	2.0	3.0	3.0	4.0	2.7
23 Day Hill Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
24 Dayton Cutoff Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
25 Decatur Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26 Domaine Drouhin Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27 Eagle Point Solar	4.0	4.0	4.0	3.0	3.0	2.0	1.0	1.0	2.0	2.0	2.0	3.0	3.0	4.0	2.7
28 Elbe Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
29 Finn Hill Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30 Gala Solar	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4
31 Grand Ronde Solar	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
32 Grand View Solar	30.3	30.3	26.2	19.2	10.5	4.8	6.4	8.0	14.4	23.3	23.3	27.7	32.9	34.7	19.9
33 Grove Solar Center	2.0	2.0	1.7	1.1	0.6	0.4	0.0	0.5	1.1	1.8	1.8	2.3	2.4	2.6	1.4
34 Horn Rapids	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
35 Hyline Solar Center	3.0	3.0	2.6	1.8	1.0	0.7	0.8	1.2	1.5	2.6	2.6	3.4	3.4	3.7	2.1
36 Idaho Solar 1	13.8	13.8	11.9	7.3	5.0	3.1	3.4	5.5	6.8	11.8	11.8	16.2	16.9	18.1	10.0
37 Industrial Finishes Solar	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
38 Interstate Solar	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
39 Kale Patch Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
40 King Estate Solar	0.2	0.2	0.2	0.1	0.1	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1
41 Labish Solar	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
42 Lakeview (OR6)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
43 Lakeview Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
44 Merrill Solar	3.2	3.2	3.2	2.4	2.4	1.6	0.8	0.8	1.6	1.6	1.6	2.4	2.4	3.2	2.1
45 Mountain Home Solar	7.4	7.4	6.9	5.0	2.7	1.9	2.1	3.6	5.0	6.8	6.8	7.3	7.8	8.0	5.4

Regional: Non-Hydro Renewable - Solar
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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Non-Hydro Renewable - Solar															
46 Moyer-Tolles Solar Station	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
47 Murphy Flat Solar Power	7.2	7.2	6.0	4.4	2.4	1.8	2.1	3.6	5.1	6.5	6.5	7.6	7.9	8.7	5.3
48 Neff Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
49 Old Mill Solar LLC	2.7	2.7	2.7	2.0	2.0	1.4	0.7	0.7	1.4	1.4	1.4	2.0	2.0	2.7	1.8
50 O'Neil Creek Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
51 Open Range Solar Center	3.3	3.3	2.9	2.0	1.3	0.6	0.0	1.3	2.0	2.9	2.9	4.0	3.9	4.3	2.4
52 Orchard Ranch Solar	7.1	7.1	6.2	4.5	2.4	1.7	2.2	3.8	4.9	6.4	6.4	7.9	8.1	8.9	5.3
53 Outback Solar	1.6	1.6	1.3	0.9	0.6	0.4	0.4	0.8	1.1	1.3	1.3	1.5	1.8	1.8	1.1
54 Palmer Creek Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
55 Pendleton Solar (NorWest 9)	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
56 Pepsi-Cola Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57 Pocatello Solar 1	9.0	9.0	8.0	7.0	6.0	3.0	3.0	3.0	4.0	6.0	6.0	7.0	8.0	8.0	6.0
58 Portland Public Schools Solar	0.2	0.2	0.2	0.1	0.1	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1
59 ProLogis Warehouse Solar	0.6	0.6	0.5	0.3	0.2	0.1	0.2	0.2	0.4	0.5	0.5	0.7	0.7	0.7	0.4
60 Rafeal Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
61 Railroad Solar Center	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
62 Sheep Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
63 Silverton Solar	0.2	0.2	0.2	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1
64 Simcoe Solar	7.1	7.1	6.3	4.5	2.4	1.7	2.3	4.0	4.9	6.2	6.2	7.8	8.2	8.2	5.3
65 Steel Bridge Solar	0.5	0.5	0.5	0.3	0.2	0.1	0.2	0.2	0.3	0.4	0.4	0.5	0.5	0.6	0.4
66 Thunderegg Solar Center	3.2	3.2	2.9	2.0	1.1	0.7	0.9	1.4	2.0	2.9	2.9	3.8	3.9	4.2	2.4
67 Tumble Weed Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
68 Turkey Hill (OR 3)	4.0	4.0	4.0	3.0	3.0	2.0	1.0	1.0	2.0	2.0	2.0	3.0	3.0	4.0	2.7
69 Vale Air Solar Center	3.4	3.4	2.9	2.0	1.0	6.0	0.7	1.2	2.0	2.9	2.9	3.7	3.4	4.2	2.8
70 Valley Creek Solar	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
71 Walker Brothers Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72 White Bluffs Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
73 Wild Horse Wind	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
74 Woodline Solar	3.2	3.2	3.2	2.4	2.4	1.6	0.8	0.8	1.6	1.6	1.6	2.4	2.4	3.2	2.1
75 Wy'East Solar	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
76 Yamhill Solar	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2
77 Total Non-Hydro Renewable - Solar	186	186	171	136	107	87	78	94	124	153	153	181	191	205	143

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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Non-Hydro Renewable - Solar															
1 Adams Nielson Solar, LLC	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
2 Adams Solar Center	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
3 Agate Bay Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
4 American Falls Solar	13.6	13.6	11.9	8.6	5.0	2.8	3.4	5.4	10.5	12.3	12.3	14.5	15.5	15.5	9.9
5 Arlington Community Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
6 Avista Community Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
7 Baldock Solar	0.3	0.3	0.3	0.2	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.3	0.3	0.3	0.2
8 Ballston Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
9 Bear Creek Solar Center	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
10 Bellevue Solar (Amity, OR)	0.3	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.3	0.3	0.4	0.2
11 Black Cap Solar Project	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
12 Blue Basin Power	0.5	0.5	0.5	0.4	0.4	0.3	0.1	0.1	0.3	0.3	0.3	0.4	0.4	0.5	0.4
13 Bly Solar Center	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
14 Bonanza Solar	2.4	2.4	2.4	1.8	1.8	1.2	0.6	0.6	1.2	1.2	1.2	1.8	1.8	2.4	1.6
15 Boring Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
16 Case Creek Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
17 Chiliquin Solar Facility	4.0	4.0	4.0	3.0	3.0	2.0	1.0	1.0	2.0	2.0	2.0	3.0	3.0	4.0	2.6
18 Clark Community Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19 Collier Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
20 Colton Solar	0.2	0.2	0.2	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1
21 Cowlitz Community Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22 Dairy Solar (OR 8)	4.0	4.0	4.0	3.0	3.0	2.0	1.0	1.0	2.0	2.0	2.0	3.0	3.0	4.0	2.7
23 Day Hill Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
24 Dayton Cutoff Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
25 Decatur Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26 Domaine Drouhin Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27 Eagle Point Solar	4.0	4.0	4.0	3.0	3.0	2.0	1.0	1.0	2.0	2.0	2.0	3.0	3.0	4.0	2.7
28 Elbe Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
29 Finn Hill Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30 Gala Solar	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4
31 Grand Ronde Solar	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
32 Grand View Solar	30.3	30.3	26.2	19.2	10.5	4.8	6.4	8.0	14.4	23.3	23.3	27.7	32.9	34.7	19.9
33 Grove Solar Center	2.0	2.0	1.7	1.1	0.6	0.4	0.0	0.5	1.1	1.8	1.8	2.3	2.4	2.6	1.4
34 Horn Rapids	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
35 Hyline Solar Center	3.0	3.0	2.6	1.8	1.0	0.7	0.8	1.2	1.5	2.6	2.6	3.4	3.4	3.7	2.1
36 Idaho Solar 1	13.8	13.8	11.9	7.3	5.0	3.1	3.4	5.5	6.8	11.8	11.8	16.2	16.9	18.1	10.0
37 Industrial Finishes Solar	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
38 Interstate Solar	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
39 Kale Patch Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
40 King Estate Solar	0.2	0.2	0.2	0.1	0.1	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1
41 Labish Solar	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
42 Lakeview (OR6)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
43 Lakeview Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
44 Merrill Solar	3.2	3.2	3.2	2.4	2.4	1.6	0.8	0.8	1.6	1.6	1.6	2.4	2.4	3.2	2.1
45 Mountain Home Solar	7.4	7.4	6.9	5.0	2.7	1.9	2.1	3.6	5.0	6.8	6.8	7.3	7.8	8.0	5.4

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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Non-Hydro Renewable - Solar															
46 Moyer-Tolles Solar Station	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
47 Murphy Flat Solar Power	7.2	7.2	6.0	4.4	2.4	1.8	2.1	3.6	5.1	6.5	6.5	7.6	7.9	8.7	5.3
48 Neff Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
49 Old Mill Solar LLC	2.7	2.7	2.7	2.0	2.0	1.4	0.7	0.7	1.4	1.4	1.4	2.0	2.0	2.7	1.8
50 O'Neil Creek Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
51 Open Range Solar Center	3.3	3.3	2.9	2.0	1.3	0.6	0.0	1.3	2.0	2.9	2.9	4.0	3.9	4.3	2.4
52 Orchard Ranch Solar	7.1	7.1	6.2	4.5	2.4	1.7	2.2	3.8	4.9	6.4	6.4	7.9	8.1	8.9	5.3
53 Outback Solar	1.6	1.6	1.3	0.9	0.6	0.4	0.4	0.8	1.1	1.3	1.3	1.5	1.8	1.8	1.1
54 Palmer Creek Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
55 Pendleton Solar (NorWest 9)	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
56 Pepsi-Cola Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57 Pocatello Solar 1	9.0	9.0	8.0	7.0	6.0	3.0	3.0	3.0	4.0	6.0	6.0	7.0	8.0	8.0	6.0
58 Portland Public Schools Solar	0.2	0.2	0.2	0.1	0.1	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1
59 ProLogis Warehouse Solar	0.6	0.6	0.5	0.3	0.2	0.1	0.2	0.2	0.4	0.5	0.5	0.7	0.7	0.7	0.4
60 Rafeal Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
61 Railroad Solar Center	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
62 Sheep Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
63 Silverton Solar	0.2	0.2	0.2	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1
64 Simcoe Solar	7.1	7.1	6.3	4.5	2.4	1.7	2.3	4.0	4.9	6.2	6.2	7.8	8.2	8.2	5.3
65 Steel Bridge Solar	0.5	0.5	0.5	0.3	0.2	0.1	0.2	0.2	0.3	0.4	0.4	0.5	0.5	0.6	0.4
66 Thunderegg Solar Center	3.2	3.2	2.9	2.0	1.1	0.7	0.9	1.4	2.0	2.9	2.9	3.8	3.9	4.2	2.4
67 Tumble Weed Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
68 Turkey Hill (OR 3)	4.0	4.0	4.0	3.0	3.0	2.0	1.0	1.0	2.0	2.0	2.0	3.0	3.0	4.0	2.7
69 Vale Air Solar Center	3.4	3.4	2.9	2.0	1.0	6.0	0.7	1.2	2.0	2.9	2.9	3.7	3.4	4.2	2.8
70 Valley Creek Solar	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
71 Walker Brothers Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72 White Bluffs Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
73 Wild Horse Wind	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
74 Woodline Solar	3.2	3.2	3.2	2.4	2.4	1.6	0.8	0.8	1.6	1.6	1.6	2.4	2.4	3.2	2.1
75 Wy'East Solar	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
76 Yamhill Solar	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2
77 Total Non-Hydro Renewable - Solar	186	186	171	136	107	87	78	94	124	153	153	181	191	205	143

Regional: Non-Hydro Renewable - Solar
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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Non-Hydro Renewable - Solar															
1 Adams Nielson Solar, LLC	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
2 Adams Solar Center	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
3 Agate Bay Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
4 American Falls Solar	13.6	13.6	11.9	8.6	5.0	2.8	3.4	5.4	10.5	12.3	12.3	14.5	15.5	15.5	9.9
5 Arlington Community Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
6 Avista Community Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
7 Baldock Solar	0.3	0.3	0.3	0.2	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.3	0.3	0.3	0.2
8 Ballston Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
9 Bear Creek Solar Center	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
10 Bellevue Solar (Amity, OR)	0.3	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.3	0.3	0.4	0.2
11 Black Cap Solar Project	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
12 Blue Basin Power	0.5	0.5	0.5	0.4	0.4	0.3	0.1	0.1	0.3	0.3	0.3	0.4	0.4	0.5	0.4
13 Bly Solar Center	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
14 Bonanza Solar	2.4	2.4	2.4	1.8	1.8	1.2	0.6	0.6	1.2	1.2	1.2	1.8	1.8	2.4	1.6
15 Boring Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
16 Case Creek Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
17 Chiliquin Solar Facility	4.0	4.0	4.0	3.0	3.0	2.0	1.0	1.0	2.0	2.0	2.0	3.0	3.0	4.0	2.7
18 Clark Community Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19 Collier Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
20 Colton Solar	0.2	0.2	0.2	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1
21 Cowlitz Community Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22 Dairy Solar (OR 8)	4.0	4.0	4.0	3.0	3.0	2.0	1.0	1.0	2.0	2.0	2.0	3.0	3.0	4.0	2.7
23 Day Hill Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
24 Dayton Cutoff Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
25 Decatur Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26 Domaine Drouhin Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27 Eagle Point Solar	4.0	4.0	4.0	3.0	3.0	2.0	1.0	1.0	2.0	2.0	2.0	3.0	3.0	4.0	2.7
28 Elbe Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
29 Finn Hill Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30 Gala Solar	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4
31 Grand Ronde Solar	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
32 Grand View Solar	30.3	30.3	26.2	19.2	10.5	4.8	6.4	8.0	14.4	23.3	23.3	27.7	32.9	34.7	19.9
33 Grove Solar Center	2.0	2.0	1.7	1.1	0.6	0.4	0.0	0.5	1.1	1.8	1.8	2.3	2.4	2.6	1.4
34 Horn Rapids	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
35 Hyline Solar Center	3.0	3.0	2.6	1.8	1.0	0.7	0.8	1.2	1.5	2.6	2.6	3.4	3.4	3.7	2.1
36 Idaho Solar 1	13.8	13.8	11.9	7.3	5.0	3.1	3.4	5.5	6.8	11.8	11.8	16.2	16.9	18.1	10.0
37 Industrial Finishes Solar	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
38 Interstate Solar	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
39 Kale Patch Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
40 King Estate Solar	0.2	0.2	0.2	0.1	0.1	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1
41 Labish Solar	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
42 Lakeview (OR6)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
43 Lakeview Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
44 Merrill Solar	3.2	3.2	3.2	2.4	2.4	1.6	0.8	0.8	1.6	1.6	1.6	2.4	2.4	3.2	2.1
45 Mountain Home Solar	7.4	7.4	6.9	5.0	2.7	1.9	2.1	3.6	5.0	6.8	6.8	7.3	7.8	8.0	5.4

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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Non-Hydro Renewable - Solar															
46 Moyer-Tolles Solar Station	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
47 Murphy Flat Solar Power	7.2	7.2	6.0	4.4	2.4	1.8	2.1	3.6	5.1	6.5	6.5	7.6	7.9	8.7	5.3
48 Neff Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
49 Old Mill Solar LLC	2.7	2.7	2.7	2.0	2.0	1.4	0.7	0.7	1.4	1.4	1.4	2.0	2.0	2.7	1.8
50 O'Neil Creek Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
51 Open Range Solar Center	3.3	3.3	2.9	2.0	1.3	0.6	0.0	1.3	2.0	2.9	2.9	4.0	3.9	4.3	2.4
52 Orchard Ranch Solar	7.1	7.1	6.2	4.5	2.4	1.7	2.2	3.8	4.9	6.4	6.4	7.9	8.1	8.9	5.3
53 Outback Solar	1.6	1.6	1.3	0.9	0.6	0.4	0.4	0.8	1.1	1.3	1.3	1.5	1.8	1.8	1.1
54 Palmer Creek Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
55 Pendleton Solar (NorWest 9)	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
56 Pepsi-Cola Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57 Pocatello Solar 1	9.0	9.0	8.0	7.0	6.0	3.0	3.0	3.0	4.0	6.0	6.0	7.0	8.0	8.0	6.0
58 Portland Public Schools Solar	0.2	0.2	0.2	0.1	0.1	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1
59 ProLogis Warehouse Solar	0.6	0.6	0.5	0.3	0.2	0.1	0.2	0.2	0.4	0.5	0.5	0.7	0.7	0.7	0.4
60 Rafeal Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
61 Railroad Solar Center	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
62 Sheep Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
63 Silverton Solar	0.2	0.2	0.2	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1
64 Simcoe Solar	7.1	7.1	6.3	4.5	2.4	1.7	2.3	4.0	4.9	6.2	6.2	7.8	8.2	8.2	5.3
65 Steel Bridge Solar	0.5	0.5	0.5	0.3	0.2	0.1	0.2	0.2	0.3	0.4	0.4	0.5	0.5	0.6	0.4
66 Thunderegg Solar Center	3.2	3.2	2.9	2.0	1.1	0.7	0.9	1.4	2.0	2.9	2.9	3.8	3.9	4.2	2.4
67 Tumble Weed Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
68 Turkey Hill (OR 3)	4.0	4.0	4.0	3.0	3.0	2.0	1.0	1.0	2.0	2.0	2.0	3.0	3.0	4.0	2.7
69 Vale Air Solar Center	3.4	3.4	2.9	2.0	1.0	6.0	0.7	1.2	2.0	2.9	2.9	3.7	3.4	4.2	2.8
70 Valley Creek Solar	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
71 Walker Brothers Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72 White Bluffs Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
73 Wild Horse Wind	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
74 Woodline Solar	3.2	3.2	3.2	2.4	2.4	1.6	0.8	0.8	1.6	1.6	1.6	2.4	2.4	3.2	2.1
75 Wy'East Solar	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
76 Yamhill Solar	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2
77 Total Non-Hydro Renewable - Solar	186	186	171	136	107	87	78	94	124	153	153	181	191	205	143

Regional: Non-Hydro Renewable - Solar
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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Non-Hydro Renewable - Solar															
1 Adams Nielson Solar, LLC	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
2 Adams Solar Center	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
3 Agate Bay Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
4 American Falls Solar	13.6	13.6	11.9	8.6	5.0	2.8	3.4	5.4	10.5	12.3	12.3	14.5	15.5	15.5	9.9
5 Arlington Community Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
6 Avista Community Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
7 Baldock Solar	0.3	0.3	0.3	0.2	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.3	0.3	0.3	0.2
8 Ballston Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
9 Bear Creek Solar Center	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
10 Bellevue Solar (Amity, OR)	0.3	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.3	0.3	0.4	0.2
11 Black Cap Solar Project	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
12 Blue Basin Power	0.5	0.5	0.5	0.4	0.4	0.3	0.1	0.1	0.3	0.3	0.3	0.4	0.4	0.5	0.4
13 Bly Solar Center	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
14 Bonanza Solar	2.4	2.4	2.4	1.8	1.8	1.2	0.6	0.6	1.2	1.2	1.2	1.8	1.8	2.4	1.6
15 Boring Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
16 Case Creek Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
17 Chiliquin Solar Facility	4.0	4.0	4.0	3.0	3.0	2.0	1.0	1.0	2.0	2.0	2.0	3.0	3.0	4.0	2.7
18 Clark Community Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19 Collier Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
20 Colton Solar	0.2	0.2	0.2	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1
21 Cowlitz Community Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22 Dairy Solar (OR 8)	4.0	4.0	4.0	3.0	3.0	2.0	1.0	1.0	2.0	2.0	2.0	3.0	3.0	4.0	2.7
23 Day Hill Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
24 Dayton Cutoff Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
25 Decatur Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26 Domaine Drouhin Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27 Eagle Point Solar	4.0	4.0	4.0	3.0	3.0	2.0	1.0	1.0	2.0	2.0	2.0	3.0	3.0	4.0	2.7
28 Elbe Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
29 Finn Hill Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30 Gala Solar	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4
31 Grand Ronde Solar	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
32 Grand View Solar	30.3	30.3	26.2	19.2	10.5	4.8	6.4	8.0	14.4	23.3	23.3	27.7	32.9	34.7	19.9
33 Grove Solar Center	2.0	2.0	1.7	1.1	0.6	0.4	0.0	0.5	1.1	1.8	1.8	2.3	2.4	2.6	1.4
34 Horn Rapids	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
35 Hyline Solar Center	3.0	3.0	2.6	1.8	1.0	0.7	0.8	1.2	1.5	2.6	2.6	3.4	3.4	3.7	2.1
36 Idaho Solar 1	13.8	13.8	11.9	7.3	5.0	3.1	3.4	5.5	6.8	11.8	11.8	16.2	16.9	18.1	10.0
37 Industrial Finishes Solar	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
38 Interstate Solar	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
39 Kale Patch Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
40 King Estate Solar	0.2	0.2	0.2	0.1	0.1	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1
41 Labish Solar	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
42 Lakeview (OR6)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
43 Lakeview Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
44 Merrill Solar	3.2	3.2	3.2	2.4	2.4	1.6	0.8	0.8	1.6	1.6	1.6	2.4	2.4	3.2	2.1
45 Mountain Home Solar	7.4	7.4	6.9	5.0	2.7	1.9	2.1	3.6	5.0	6.8	6.8	7.3	7.8	8.0	5.4

Regional: Non-Hydro Renewable - Solar
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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Non-Hydro Renewable - Solar															
46 Moyer-Tolles Solar Station	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
47 Murphy Flat Solar Power	7.2	7.2	6.0	4.4	2.4	1.8	2.1	3.6	5.1	6.5	6.5	7.6	7.9	8.7	5.3
48 Neff Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
49 Old Mill Solar LLC	2.7	2.7	2.7	2.0	2.0	1.4	0.7	0.7	1.4	1.4	1.4	2.0	2.0	2.7	1.8
50 O'Neil Creek Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
51 Open Range Solar Center	3.3	3.3	2.9	2.0	1.3	0.6	0.0	1.3	2.0	2.9	2.9	4.0	3.9	4.3	2.4
52 Orchard Ranch Solar	7.1	7.1	6.2	4.5	2.4	1.7	2.2	3.8	4.9	6.4	6.4	7.9	8.1	8.9	5.3
53 Outback Solar	1.6	1.6	1.3	0.9	0.6	0.4	0.4	0.8	1.1	1.3	1.3	1.5	1.8	1.8	1.1
54 Palmer Creek Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
55 Pendleton Solar (NorWest 9)	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
56 Pepsi-Cola Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57 Pocatello Solar 1	9.0	9.0	8.0	7.0	6.0	3.0	3.0	3.0	4.0	6.0	6.0	7.0	8.0	8.0	6.0
58 Portland Public Schools Solar	0.2	0.2	0.2	0.1	0.1	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1
59 ProLogis Warehouse Solar	0.6	0.6	0.5	0.3	0.2	0.1	0.2	0.2	0.4	0.5	0.5	0.7	0.7	0.7	0.4
60 Rafeal Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
61 Railroad Solar Center	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
62 Sheep Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
63 Silverton Solar	0.2	0.2	0.2	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1
64 Simcoe Solar	7.1	7.1	6.3	4.5	2.4	1.7	2.3	4.0	4.9	6.2	6.2	7.8	8.2	8.2	5.3
65 Steel Bridge Solar	0.5	0.5	0.5	0.3	0.2	0.1	0.2	0.2	0.3	0.4	0.4	0.5	0.5	0.6	0.4
66 Thunderegg Solar Center	3.2	3.2	2.9	2.0	1.1	0.7	0.9	1.4	2.0	2.9	2.9	3.8	3.9	4.2	2.4
67 Tumble Weed Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
68 Turkey Hill (OR 3)	4.0	4.0	4.0	3.0	3.0	2.0	1.0	1.0	2.0	2.0	2.0	3.0	3.0	4.0	2.7
69 Vale Air Solar Center	3.4	3.4	2.9	2.0	1.0	6.0	0.7	1.2	2.0	2.9	2.9	3.7	3.4	4.2	2.8
70 Valley Creek Solar	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
71 Walker Brothers Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72 White Bluffs Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
73 Wild Horse Wind	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
74 Woodline Solar	3.2	3.2	3.2	2.4	2.4	1.6	0.8	0.8	1.6	1.6	1.6	2.4	2.4	3.2	2.1
75 Wy'East Solar	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
76 Yamhill Solar	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2
77 Total Non-Hydro Renewable - Solar	186	186	171	136	107	87	78	94	124	153	153	181	191	205	143

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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Non-Hydro Renewable - Solar															
1 Adams Nielson Solar, LLC	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
2 Adams Solar Center	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
3 Agate Bay Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
4 American Falls Solar	13.6	13.6	11.9	8.6	5.0	2.8	3.4	5.4	10.5	12.3	12.3	14.5	15.5	15.5	9.9
5 Arlington Community Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
6 Avista Community Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
7 Baldock Solar	0.3	0.3	0.3	0.2	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.3	0.3	0.3	0.2
8 Ballston Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
9 Bear Creek Solar Center	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
10 Bellevue Solar (Amity, OR)	0.3	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.3	0.3	0.4	0.2
11 Black Cap Solar Project	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
12 Blue Basin Power	0.5	0.5	0.5	0.4	0.4	0.3	0.1	0.1	0.3	0.3	0.3	0.4	0.4	0.5	0.4
13 Bly Solar Center	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
14 Bonanza Solar	2.4	2.4	2.4	1.8	1.8	1.2	0.6	0.6	1.2	1.2	1.2	1.8	1.8	2.4	1.6
15 Boring Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
16 Case Creek Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
17 Chiliquin Solar Facility	4.0	4.0	4.0	3.0	3.0	2.0	1.0	1.0	2.0	2.0	2.0	3.0	3.0	4.0	2.7
18 Clark Community Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19 Collier Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
20 Colton Solar	0.2	0.2	0.2	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1
21 Cowlitz Community Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22 Dairy Solar (OR 8)	4.0	4.0	4.0	3.0	3.0	2.0	1.0	1.0	2.0	2.0	2.0	3.0	3.0	4.0	2.7
23 Day Hill Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
24 Dayton Cutoff Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
25 Decatur Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26 Domaine Drouhin Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27 Eagle Point Solar	4.0	4.0	4.0	3.0	3.0	2.0	1.0	1.0	2.0	2.0	2.0	3.0	3.0	4.0	2.7
28 Elbe Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
29 Finn Hill Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30 Gala Solar	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4
31 Grand Ronde Solar	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
32 Grand View Solar	30.3	30.3	26.2	19.2	10.5	4.8	6.4	8.0	14.4	23.3	23.3	27.7	32.9	34.7	19.9
33 Grove Solar Center	2.0	2.0	1.7	1.1	0.6	0.4	0.0	0.5	1.1	1.8	1.8	2.3	2.4	2.6	1.4
34 Horn Rapids	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
35 Hyline Solar Center	3.0	3.0	2.6	1.8	1.0	0.7	0.8	1.2	1.5	2.6	2.6	3.4	3.4	3.7	2.1
36 Idaho Solar 1	13.8	13.8	11.9	7.3	5.0	3.1	3.4	5.5	6.8	11.8	11.8	16.2	16.9	18.1	10.0
37 Industrial Finishes Solar	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
38 Interstate Solar	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
39 Kale Patch Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
40 King Estate Solar	0.2	0.2	0.2	0.1	0.1	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1
41 Labish Solar	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
42 Lakeview (OR6)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
43 Lakeview Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
44 Merrill Solar	3.2	3.2	3.2	2.4	2.4	1.6	0.8	0.8	1.6	1.6	1.6	2.4	2.4	3.2	2.1
45 Mountain Home Solar	7.4	7.4	6.9	5.0	2.7	1.9	2.1	3.6	5.0	6.8	6.8	7.3	7.8	8.0	5.4

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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Non-Hydro Renewable - Solar															
46 Moyer-Tolles Solar Station	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
47 Murphy Flat Solar Power	7.2	7.2	6.0	4.4	2.4	1.8	2.1	3.6	5.1	6.5	6.5	7.6	7.9	8.7	5.3
48 Neff Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
49 Old Mill Solar LLC	2.7	2.7	2.7	2.0	2.0	1.4	0.7	0.7	1.4	1.4	1.4	2.0	2.0	2.7	1.8
50 O'Neil Creek Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
51 Open Range Solar Center	3.3	3.3	2.9	2.0	1.3	0.6	0.0	1.3	2.0	2.9	2.9	4.0	3.9	4.3	2.4
52 Orchard Ranch Solar	7.1	7.1	6.2	4.5	2.4	1.7	2.2	3.8	4.9	6.4	6.4	7.9	8.1	8.9	5.3
53 Outback Solar	1.6	1.6	1.3	0.9	0.6	0.4	0.4	0.8	1.1	1.3	1.3	1.5	1.8	1.8	1.1
54 Palmer Creek Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
55 Pendleton Solar (NorWest 9)	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
56 Pepsi-Cola Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57 Pocatello Solar 1	9.0	9.0	8.0	7.0	6.0	3.0	3.0	3.0	4.0	6.0	6.0	7.0	8.0	8.0	6.0
58 Portland Public Schools Solar	0.2	0.2	0.2	0.1	0.1	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1
59 ProLogis Warehouse Solar	0.6	0.6	0.5	0.3	0.2	0.1	0.2	0.2	0.4	0.5	0.5	0.7	0.7	0.7	0.4
60 Rafeal Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
61 Railroad Solar Center	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
62 Sheep Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
63 Silverton Solar	0.2	0.2	0.2	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1
64 Simcoe Solar	7.1	7.1	6.3	4.5	2.4	1.7	2.3	4.0	4.9	6.2	6.2	7.8	8.2	8.2	5.3
65 Steel Bridge Solar	0.5	0.5	0.5	0.3	0.2	0.1	0.2	0.2	0.3	0.4	0.4	0.5	0.5	0.6	0.4
66 Thunderegg Solar Center	3.2	3.2	2.9	2.0	1.1	0.7	0.9	1.4	2.0	2.9	2.9	3.8	3.9	4.2	2.4
67 Tumble Weed Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
68 Turkey Hill (OR 3)	4.0	4.0	4.0	3.0	3.0	2.0	1.0	1.0	2.0	2.0	2.0	3.0	3.0	4.0	2.7
69 Vale Air Solar Center	3.4	3.4	2.9	2.0	1.0	6.0	0.7	1.2	2.0	2.9	2.9	3.7	3.4	4.2	2.8
70 Valley Creek Solar	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
71 Walker Brothers Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72 White Bluffs Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
73 Wild Horse Wind	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
74 Woodline Solar	3.2	3.2	3.2	2.4	2.4	1.6	0.8	0.8	1.6	1.6	1.6	2.4	2.4	3.2	2.1
75 Wy'East Solar	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
76 Yamhill Solar	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2
77 Total Non-Hydro Renewable - Solar	186	186	171	136	107	87	78	94	124	153	153	181	191	205	143

Regional: Non-Hydro Renewable - Solar
Operating Year: 2028 Water Year: 1937
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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Non-Hydro Renewable - Solar															
1 Adams Nielson Solar, LLC	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
2 Adams Solar Center	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
3 Agate Bay Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
4 American Falls Solar	13.6	13.6	11.9	8.6	5.0	2.8	3.4	5.4	10.5	12.3	12.3	14.5	15.5	15.5	9.9
5 Arlington Community Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
6 Avista Community Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
7 Baldock Solar	0.3	0.3	0.3	0.2	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.3	0.3	0.3	0.2
8 Ballston Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
9 Bear Creek Solar Center	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
10 Bellevue Solar (Amity, OR)	0.3	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.3	0.3	0.4	0.2
11 Black Cap Solar Project	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
12 Blue Basin Power	0.5	0.5	0.5	0.4	0.4	0.3	0.1	0.1	0.3	0.3	0.3	0.4	0.4	0.5	0.4
13 Bly Solar Center	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
14 Bonanza Solar	2.4	2.4	2.4	1.8	1.8	1.2	0.6	0.6	1.2	1.2	1.2	1.8	1.8	2.4	1.6
15 Boring Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
16 Case Creek Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
17 Chilquin Solar Facility	4.0	4.0	4.0	3.0	3.0	2.0	1.0	1.0	2.0	2.0	2.0	3.0	3.0	4.0	2.6
18 Clark Community Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19 Collier Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
20 Colton Solar	0.2	0.2	0.2	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1
21 Cowlitz Community Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22 Dairy Solar (OR 8)	4.0	4.0	4.0	3.0	3.0	2.0	1.0	1.0	2.0	2.0	2.0	3.0	3.0	4.0	2.7
23 Day Hill Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
24 Dayton Cutoff Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
25 Decatur Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26 Domaine Drouhin Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27 Eagle Point Solar	4.0	4.0	4.0	3.0	3.0	2.0	1.0	1.0	2.0	2.0	2.0	3.0	3.0	4.0	2.7
28 Elbe Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
29 Finn Hill Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30 Gala Solar	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4
31 Grand Ronde Solar	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
32 Grand View Solar	30.3	30.3	26.2	19.2	10.5	4.8	6.4	8.0	14.4	23.3	23.3	27.7	32.9	34.7	19.9
33 Grove Solar Center	2.0	2.0	1.7	1.1	0.6	0.4	0.0	0.5	1.1	1.8	1.8	2.3	2.4	2.6	1.4
34 Horn Rapids	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
35 Hyline Solar Center	3.0	3.0	2.6	1.8	1.0	0.7	0.8	1.2	1.5	2.6	2.6	3.4	3.4	3.7	2.1
36 Idaho Solar 1	13.8	13.8	11.9	7.3	5.0	3.1	3.4	5.5	6.8	11.8	11.8	16.2	16.9	18.1	10.0
37 Industrial Finishes Solar	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
38 Interstate Solar	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
39 Kale Patch Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
40 King Estate Solar	0.2	0.2	0.2	0.1	0.1	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1
41 Labish Solar	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
42 Lakeview (OR6)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
43 Lakeview Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
44 Merrill Solar	3.2	3.2	3.2	2.4	2.4	1.6	0.8	0.8	1.6	1.6	1.6	2.4	2.4	3.2	2.1
45 Mountain Home Solar	7.4	7.4	6.9	5.0	2.7	1.9	2.1	3.6	5.0	6.8	6.8	7.3	7.8	8.0	5.4

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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Non-Hydro Renewable - Solar															
46 Moyer-Tolles Solar Station	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
47 Murphy Flat Solar Power	7.2	7.2	6.0	4.4	2.4	1.8	2.1	3.6	5.1	6.5	6.5	7.6	7.9	8.7	5.3
48 Neff Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
49 Old Mill Solar LLC	2.7	2.7	2.7	2.0	2.0	1.4	0.7	0.7	1.4	1.4	1.4	2.0	2.0	2.7	1.8
50 O'Neil Creek Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
51 Open Range Solar Center	3.3	3.3	2.9	2.0	1.3	0.6	0.0	1.3	2.0	2.9	2.9	4.0	3.9	4.3	2.4
52 Orchard Ranch Solar	7.1	7.1	6.2	4.5	2.4	1.7	2.2	3.8	4.9	6.4	6.4	7.9	8.1	8.9	5.3
53 Outback Solar	1.6	1.6	1.3	0.9	0.6	0.4	0.4	0.8	1.1	1.3	1.3	1.5	1.8	1.8	1.1
54 Palmer Creek Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
55 Pendleton Solar (NorWest 9)	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
56 Pepsi-Cola Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57 Pocatello Solar 1	9.0	9.0	8.0	7.0	6.0	3.0	3.0	3.0	4.0	6.0	6.0	7.0	8.0	8.0	6.0
58 Portland Public Schools Solar	0.2	0.2	0.2	0.1	0.1	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1
59 ProLogis Warehouse Solar	0.6	0.6	0.5	0.3	0.2	0.1	0.2	0.2	0.4	0.5	0.5	0.7	0.7	0.7	0.4
60 Rafeal Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
61 Railroad Solar Center	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
62 Sheep Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
63 Silverton Solar	0.2	0.2	0.2	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1
64 Simcoe Solar	7.1	7.1	6.3	4.5	2.4	1.7	2.3	4.0	4.9	6.2	6.2	7.8	8.2	8.2	5.3
65 Steel Bridge Solar	0.5	0.5	0.5	0.3	0.2	0.1	0.2	0.2	0.3	0.4	0.4	0.5	0.5	0.6	0.4
66 Thunderegg Solar Center	3.2	3.2	2.9	2.0	1.1	0.7	0.9	1.4	2.0	2.9	2.9	3.8	3.9	4.2	2.4
67 Tumble Weed Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
68 Turkey Hill (OR 3)	4.0	4.0	4.0	3.0	3.0	2.0	1.0	1.0	2.0	2.0	2.0	3.0	3.0	4.0	2.7
69 Vale Air Solar Center	3.4	3.4	2.9	2.0	1.0	6.0	0.7	1.2	2.0	2.9	2.9	3.7	3.4	4.2	2.8
70 Valley Creek Solar	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
71 Walker Brothers Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72 White Bluffs Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
73 Wild Horse Wind	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
74 Woodline Solar	3.2	3.2	3.2	2.4	2.4	1.6	0.8	0.8	1.6	1.6	1.6	2.4	2.4	3.2	2.1
75 Wy'East Solar	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
76 Yamhill Solar	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2
77 Total Non-Hydro Renewable - Solar	186	186	171	136	107	87	78	94	124	153	153	181	191	205	143

Regional: Non-Hydro Renewable - Solar
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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Non-Hydro Renewable - Solar															
1 Adams Nielson Solar, LLC	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
2 Adams Solar Center	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
3 Agate Bay Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
4 American Falls Solar	13.6	13.6	11.9	8.6	5.0	2.8	3.4	5.4	10.5	12.3	12.3	14.5	15.5	15.5	9.9
5 Arlington Community Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
6 Avista Community Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
7 Baldock Solar	0.3	0.3	0.3	0.2	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.3	0.3	0.3	0.2
8 Ballston Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
9 Bear Creek Solar Center	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
10 Bellevue Solar (Amity, OR)	0.3	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.3	0.3	0.4	0.2
11 Black Cap Solar Project	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
12 Blue Basin Power	0.5	0.5	0.5	0.4	0.4	0.3	0.1	0.1	0.3	0.3	0.3	0.4	0.4	0.5	0.4
13 Bly Solar Center	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
14 Bonanza Solar	2.4	2.4	2.4	1.8	1.8	1.2	0.6	0.6	1.2	1.2	1.2	1.8	1.8	2.4	1.6
15 Boring Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
16 Case Creek Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
17 Chilquin Solar Facility	4.0	4.0	4.0	3.0	3.0	2.0	1.0	1.0	2.0	2.0	2.0	3.0	3.0	4.0	2.7
18 Clark Community Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19 Collier Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
20 Colton Solar	0.2	0.2	0.2	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1
21 Cowlitz Community Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22 Dairy Solar (OR 8)	4.0	4.0	4.0	3.0	3.0	2.0	1.0	1.0	2.0	2.0	2.0	3.0	3.0	4.0	2.7
23 Day Hill Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
24 Dayton Cutoff Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
25 Decatur Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26 Domaine Drouhin Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27 Eagle Point Solar	4.0	4.0	4.0	3.0	3.0	2.0	1.0	1.0	2.0	2.0	2.0	3.0	3.0	4.0	2.7
28 Elbe Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
29 Finn Hill Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30 Gala Solar	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4
31 Grand Ronde Solar	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
32 Grand View Solar	30.3	30.3	26.2	19.2	10.5	4.8	6.4	8.0	14.4	23.3	23.3	27.7	32.9	34.7	19.9
33 Grove Solar Center	2.0	2.0	1.7	1.1	0.6	0.4	0.0	0.5	1.1	1.8	1.8	2.3	2.4	2.6	1.4
34 Horn Rapids	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
35 Hyline Solar Center	3.0	3.0	2.6	1.8	1.0	0.7	0.8	1.2	1.5	2.6	2.6	3.4	3.4	3.7	2.1
36 Idaho Solar 1	13.8	13.8	11.9	7.3	5.0	3.1	3.4	5.5	6.8	11.8	11.8	16.2	16.9	18.1	10.0
37 Industrial Finishes Solar	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
38 Interstate Solar	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
39 Kale Patch Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
40 King Estate Solar	0.2	0.2	0.2	0.1	0.1	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1
41 Labish Solar	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
42 Lakeview (OR6)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
43 Lakeview Solar	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
44 Merrill Solar	3.2	3.2	3.2	2.4	2.4	1.6	0.8	0.8	1.6	1.6	1.6	2.4	2.4	3.2	2.1
45 Mountain Home Solar	7.4	7.4	6.9	5.0	2.7	1.9	2.1	3.6	5.0	6.8	6.8	7.3	7.8	8.0	5.4

Regional: Non-Hydro Renewable - Solar
Operating Year: 2029 Water Year: 1937
2018 White Book Report Date: 12/1/2018
S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Non-Hydro Renewable - Solar															
46 Moyer-Tolles Solar Station	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
47 Murphy Flat Solar Power	7.2	7.2	6.0	4.4	2.4	1.8	2.1	3.6	5.1	6.5	6.5	7.6	7.9	8.7	5.3
48 Neff Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
49 Old Mill Solar LLC	2.7	2.7	2.7	2.0	2.0	1.4	0.7	0.7	1.4	1.4	1.4	2.0	2.0	2.7	1.8
50 O'Neil Creek Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
51 Open Range Solar Center	3.3	3.3	2.9	2.0	1.3	0.6	0.0	1.3	2.0	2.9	2.9	4.0	3.9	4.3	2.4
52 Orchard Ranch Solar	7.1	7.1	6.2	4.5	2.4	1.7	2.2	3.8	4.9	6.4	6.4	7.9	8.1	8.9	5.3
53 Outback Solar	1.6	1.6	1.3	0.9	0.6	0.4	0.4	0.8	1.1	1.3	1.3	1.5	1.8	1.8	1.1
54 Palmer Creek Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
55 Pendleton Solar (NorWest 9)	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
56 Pepsi-Cola Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57 Pocatello Solar 1	9.0	9.0	8.0	7.0	6.0	3.0	3.0	3.0	4.0	6.0	6.0	7.0	8.0	8.0	6.0
58 Portland Public Schools Solar	0.2	0.2	0.2	0.1	0.1	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1
59 ProLogis Warehouse Solar	0.6	0.6	0.5	0.3	0.2	0.1	0.2	0.2	0.4	0.5	0.5	0.7	0.7	0.7	0.4
60 Rafeal Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
61 Railroad Solar Center	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
62 Sheep Solar	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
63 Silverton Solar	0.2	0.2	0.2	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1
64 Simcoe Solar	7.1	7.1	6.3	4.5	2.4	1.7	2.3	4.0	4.9	6.2	6.2	7.8	8.2	8.2	5.3
65 Steel Bridge Solar	0.5	0.5	0.5	0.3	0.2	0.1	0.2	0.2	0.3	0.4	0.4	0.5	0.5	0.6	0.4
66 Thunderegg Solar Center	3.2	3.2	2.9	2.0	1.1	0.7	0.9	1.4	2.0	2.9	2.9	3.8	3.9	4.2	2.4
67 Tumble Weed Solar	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
68 Turkey Hill (OR 3)	4.0	4.0	4.0	3.0	3.0	2.0	1.0	1.0	2.0	2.0	2.0	3.0	3.0	4.0	2.7
69 Vale Air Solar Center	3.4	3.4	2.9	2.0	1.0	6.0	0.7	1.2	2.0	2.9	2.9	3.7	3.4	4.2	2.8
70 Valley Creek Solar	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
71 Walker Brothers Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72 White Bluffs Solar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
73 Wild Horse Wind	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
74 Woodline Solar	3.2	3.2	3.2	2.4	2.4	1.6	0.8	0.8	1.6	1.6	1.6	2.4	2.4	3.2	2.1
75 Wy'East Solar	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
76 Yamhill Solar	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2
77 Total Non-Hydro Renewable - Solar	186	186	171	136	107	87	78	94	124	153	153	181	191	205	143

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Exhibit 35
Regional Non-Hydro Renewable - Other

Monthly Energy
Operating Year 2020 to 2029

Regional: Non-Hydro Renewable - Other
Operating Year: 2020 Water Year: 1937
2018 White Book Report Date: 12/1/2018
S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Non-Hydro Renewable - Other															
1 Bannock County Landfill	1.2	1.2	1.2	1.2	1.2	1.1	1.1	1.1	1.1	1.2	1.2	1.1	1.2	1.2	1.2
2 Bettencourt B6 anaerobic digester	1.2	1.2	1.4	1.4	1.4	1.3	1.3	1.4	1.4	1.4	1.4	1.3	1.3	1.2	1.3
3 Big Sky Dairy	1.1	1.1	1.0	1.0	1.0	0.9	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
4 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
5 Boise Cascade Medford	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6 Cedar Hills Landfill	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
7 Coffin Butte	5.3	5.3	5.3	5.4	5.5	5.1	5.5	5.4	5.6	5.4	5.4	5.4	5.3	5.2	5.4
8 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
9 DeRuyter & Son's Dairy	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
10 Double A Digester	3.1	3.1	2.9	3.1	3.0	3.0	2.9	3.1	3.1	3.0	3.0	3.1	2.9	2.8	3.0
11 Double B Digester	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12 Dry Creek Landfill	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
13 Dry Dairy Creek	1.2	1.2	1.4	1.4	1.4	1.3	1.3	1.4	1.4	1.4	1.4	1.3	1.3	1.2	1.3
14 Edaleen Cow Power	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
15 Farm Power Lynden	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
16 Farm Power Misty Meadow	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
17 Farm Power Rexville	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
18 Farm Power Tillamook	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
19 Fighting Creek Landfill	1.0	1.0	1.0	1.0	1.2	1.3	1.4	1.4	1.5	1.2	1.2	1.4	1.3	1.0	1.2
20 Finley BioEnergy	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
21 Flathead County Landfill	1.3	1.3	1.3	1.3	1.2	1.2	1.2	1.3	1.2	1.3	1.3	1.3	1.3	1.3	1.3
22 Forest Glen Oaks Dairy	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
23 Fourmile Hill Geothermal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24 H.W. Hill Landfill Gas (Roosevelt)	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5
25 Hidden Hollow Landfill	2.3	2.3	2.3	2.5	2.5	2.5	2.4	2.3	2.2	2.2	2.2	2.4	2.3	2.2	2.3
26 JC-Biomethane	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
27 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	46.3	27.8	44.7
28 Lakeview Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29 LRI/Graham Landfill - BioFuels	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
30 Metro Wastewater Treatment Plant	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
31 Neal Hot Springs	22.0	22.0	22.0	22.0	22.0	22.0	10.5	22.0	22.0	22.0	22.0	22.0	22.0	21.3	21.0
32 Paisley Geothermal	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
33 Pine Products Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34 Port of Tillamook Bay Anaerobic Digester	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
35 Portland Waste Water	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
36 Puyallup Energy Recovery	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
37 Qualco Dairy Digester	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
38 Raft River Geothermal	8.3	8.3	8.3	9.0	9.0	9.0	9.0	9.4	8.5	8.3	8.3	9.0	7.6	8.3	8.6
39 Rainier Biogas	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
40 River Bend Landfill	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
41 Rock Creek Digester	1.4	1.4	1.4	1.5	1.4	1.3	1.1	1.2	1.1	1.3	1.3	1.2	1.4	1.4	1.3
42 Short Mountain	2.3	2.3	2.4	2.6	2.8	3.0	3.1	3.0	3.0	3.1	3.1	3.0	2.2	2.3	2.7
43 Stahlbush Island Farms Biogas	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.6	1.5	1.5	1.5	1.5	1.5	1.5	1.5
44 Stoltze Biomass	2.6	2.6	2.6	2.6	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.6	2.6	2.6	2.5
45 Swager Digester	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Regional: Non-Hydro Renewable - Other
Operating Year: 2020 Water Year: 1937
2018 White Book Report Date: 12/1/2018
S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Non-Hydro Renewable - Other															
46 Treasure Valley Digester	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47 Van Dyk's Holsteins	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
48 Vander Haak Dairy	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
49 Total Non-Hydro Renewable - Other	176	176	176	178	178	178	166	178	178	177	177	178	157	175	175

Regional: Non-Hydro Renewable - Other
Operating Year: 2021 Water Year: 1937
2018 White Book Report Date: 12/1/2018
S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Non-Hydro Renewable - Other															
1 Bannock County Landfill	1.2	1.2	1.2	1.2	1.2	1.1	1.1	1.1	1.1	1.2	1.2	1.1	1.2	1.2	1.2
2 Bettencourt B6 anaerobic digester	1.2	1.2	1.4	1.4	1.4	1.3	1.3	1.4	1.4	1.4	1.4	1.3	1.3	1.2	1.3
3 Big Sky Dairy	1.1	1.1	1.0	1.0	1.0	0.9	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
4 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
5 Boise Cascade Medford	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6 Cedar Hills Landfill	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
7 Coffin Butte	5.3	5.3	5.3	5.4	5.5	5.1	5.5	5.4	5.6	5.4	5.4	5.4	5.3	5.2	5.4
8 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
9 DeRuyter & Son's Dairy	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
10 Double A Digester	3.1	3.1	2.9	3.1	3.0	3.0	2.9	3.1	3.1	3.0	3.0	3.1	2.9	2.8	3.0
11 Double B Digester	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12 Dry Creek Landfill	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
13 Dry Dairy Creek	1.2	1.2	1.4	1.4	1.4	1.3	1.3	1.4	1.4	1.4	1.4	1.3	1.3	1.2	1.3
14 Edaleen Cow Power	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
15 Farm Power Lynden	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
16 Farm Power Misty Meadow	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
17 Farm Power Rexville	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
18 Farm Power Tillamook	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
19 Fighting Creek Landfill	1.0	1.0	1.0	1.0	1.2	1.3	1.4	1.4	1.5	1.2	1.2	1.4	1.3	1.0	1.2
20 Finley BioEnergy	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
21 Flathead County Landfill	1.3	1.3	1.3	1.3	1.2	1.2	1.2	1.3	1.2	1.3	1.3	1.3	1.3	1.3	1.3
22 Forest Glen Oaks Dairy	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
23 Fourmile Hill Geothermal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24 H.W. Hill Landfill Gas (Roosevelt)	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5
25 Hidden Hollow Landfill	2.3	2.3	2.3	2.3	2.5	2.5	2.5	2.4	2.3	2.2	2.2	2.2	2.4	2.3	2.3
26 JC-Biomethane	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
27 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
28 Lakeview Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29 LRI/Graham Landfill - BioFuels	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
30 Metro Wastewater Treatment Plant	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
31 Neal Hot Springs	22.0	22.0	22.0	22.0	22.0	22.0	10.5	22.0	22.0	22.0	22.0	22.0	22.0	21.3	21.0
32 Paisley Geothermal	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
33 Pine Products Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34 Port of Tillamook Bay Anaerobic Digester	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
35 Portland Waste Water	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
36 Puyallup Energy Recovery	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
37 Qualco Dairy Digester	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
38 Raft River Geothermal	8.3	8.3	8.3	9.0	9.0	9.0	9.0	9.4	8.5	8.3	8.3	9.0	7.6	8.3	8.6
39 Rainier Biogas	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
40 River Bend Landfill	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
41 Rock Creek Digester	1.4	1.4	1.4	1.5	1.4	1.3	1.1	1.2	1.1	1.3	1.3	1.2	1.4	1.4	1.3
42 Short Mountain	2.3	2.3	2.4	2.6	2.8	3.0	3.1	3.0	3.0	3.1	3.1	3.0	2.2	2.3	2.7
43 Stahlbush Island Farms Biogas	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.6	1.5	1.5	1.5	1.5	1.5	1.5	1.5
44 Stoltze Biomass	2.6	2.6	2.6	2.6	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.6	2.6	2.6	2.5
45 Swager Digester	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Regional: Non-Hydro Renewable - Other
Operating Year: 2021 Water Year: 1937
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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Non-Hydro Renewable - Other															
46 Treasure Valley Digester	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47 Van Dyk's Holsteins	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
48 Vander Haak Dairy	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
49 Total Non-Hydro Renewable - Other	176	176	176	178	178	178	166	177	178	177	177	178	152	175	174

Regional: Non-Hydro Renewable - Other
Operating Year: 2022 Water Year: 1937
2018 White Book Report Date: 12/1/2018
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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Non-Hydro Renewable - Other															
1 Bannock County Landfill	1.2	1.2	1.2	1.2	1.2	1.1	1.1	1.1	1.1	1.2	1.2	1.1	1.2	1.2	1.2
2 Bettencourt B6 anaerobic digester	1.2	1.4	1.4	1.4	1.3	1.3	1.4	1.4	1.4	1.4	1.3	1.3	1.2	1.2	1.3
3 Big Sky Dairy	1.1	1.1	1.0	1.0	1.0	0.9	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
4 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
5 Boise Cascade Medford	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6 Cedar Hills Landfill	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
7 Coffin Butte	5.3	5.3	5.3	5.4	5.5	5.1	5.5	5.4	5.6	5.4	5.4	5.4	5.3	5.2	5.4
8 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
9 DeRuyter & Son's Dairy	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
10 Double A Digester	3.1	3.1	2.9	3.1	3.0	3.0	2.9	3.1	3.1	3.0	3.0	3.1	2.9	2.8	3.0
11 Double B Digester	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12 Dry Creek Landfill	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
13 Dry Dairy Creek	1.2	1.2	1.4	1.4	1.4	1.3	1.3	1.4	1.4	1.4	1.4	1.3	1.3	1.2	1.3
14 Edaleen Cow Power	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
15 Farm Power Lynden	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
16 Farm Power Misty Meadow	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
17 Farm Power Rexville	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
18 Farm Power Tillamook	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
19 Fighting Creek Landfill	1.0	1.0	1.0	1.0	1.2	1.3	1.4	1.4	1.5	1.2	1.2	1.4	1.3	1.0	1.2
20 Finley BioEnergy	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
21 Flathead County Landfill	1.3	1.3	1.3	1.3	1.2	1.2	1.2	1.3	1.2	1.3	1.3	1.3	1.3	1.3	1.3
22 Forest Glen Oaks Dairy	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
23 Fourmile Hill Geothermal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24 H.W. Hill Landfill Gas (Roosevelt)	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5
25 Hidden Hollow Landfill	2.3	2.3	2.3	2.5	2.5	2.5	2.4	2.3	2.2	2.2	2.2	2.4	2.3	2.2	2.3
26 JC-Biomethane	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
27 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
28 Lakeview Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29 LRI/Graham Landfill - BioFuels	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
30 Metro Wastewater Treatment Plant	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
31 Neal Hot Springs	22.0	22.0	22.0	22.0	22.0	22.0	10.5	22.0	22.0	22.0	22.0	22.0	22.0	21.3	21.0
32 Paisley Geothermal	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
33 Pine Products Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34 Port of Tillamook Bay Anaerobic Digester	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
35 Portland Waste Water	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
36 Puyallup Energy Recovery	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
37 Qualco Dairy Digester	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
38 Raft River Geothermal	8.3	8.3	8.3	9.0	9.0	9.0	9.0	9.4	8.5	8.3	8.3	9.0	7.6	8.3	8.6
39 Rainier Biogas	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
40 River Bend Landfill	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
41 Rock Creek Digester	1.4	1.4	1.4	1.5	1.4	1.3	1.1	1.2	1.1	1.3	1.3	1.2	1.4	1.4	1.3
42 Short Mountain	2.3	2.3	2.4	2.6	2.8	3.0	3.1	3.0	3.0	3.1	3.1	3.0	2.2	2.3	2.7
43 Stahlbush Island Farms Biogas	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.6	1.5	1.5	1.5	1.5	1.5	1.5	1.5
44 Stoltze Biomass	2.6	2.6	2.6	2.6	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.6	2.6	2.6	2.5
45 Swager Digester	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Regional: Non-Hydro Renewable - Other
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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Non-Hydro Renewable - Other															
46 Treasure Valley Digester	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47 Van Dyk's Holsteins	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
48 Vander Haak Dairy	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
49 Total Non-Hydro Renewable - Other	176	177	176	178	178	178	166	177	178	177	177	167	152	175	173

Regional: Non-Hydro Renewable - Other
Operating Year: 2023 Water Year: 1937
2018 White Book Report Date: 12/1/2018
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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Non-Hydro Renewable - Other															
1 Bannock County Landfill	1.2	1.2	1.2	1.2	1.2	1.1	1.1	1.1	1.1	1.2	1.2	1.1	1.2	1.2	1.2
2 Bettencourt B6 anaerobic digester	1.2	1.4	1.4	1.4	1.3	1.3	1.4	1.4	1.4	1.4	1.3	1.3	1.2	1.2	1.3
3 Big Sky Dairy	1.1	1.1	1.0	1.0	1.0	0.9	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
4 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
5 Boise Cascade Medford	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6 Cedar Hills Landfill	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
7 Coffin Butte	5.3	5.3	5.3	5.4	5.5	5.1	5.5	5.4	5.6	5.4	5.4	5.4	5.3	5.2	5.4
8 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
9 DeRuyter & Son's Dairy	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
10 Double A Digester	3.1	3.1	2.9	3.1	3.0	3.0	2.9	3.1	3.1	3.0	3.0	3.1	2.9	2.8	3.0
11 Double B Digester	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12 Dry Creek Landfill	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
13 Dry Dairy Creek	1.2	1.2	1.4	1.4	1.4	1.3	1.3	1.4	1.4	1.4	1.4	1.3	1.3	1.2	1.3
14 Edaleen Cow Power	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
15 Farm Power Lynden	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
16 Farm Power Misty Meadow	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
17 Farm Power Rexville	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
18 Farm Power Tillamook	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
19 Fighting Creek Landfill	1.0	1.0	1.0	1.0	1.2	1.3	1.4	1.4	1.5	1.2	1.2	1.4	1.3	1.0	1.2
20 Finley BioEnergy	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
21 Flathead County Landfill	1.3	1.3	1.3	1.3	1.2	1.2	1.2	1.3	1.2	1.3	1.3	1.3	1.3	1.3	1.3
22 Forest Glen Oaks Dairy	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
23 Fourmile Hill Geothermal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24 H.W. Hill Landfill Gas (Roosevelt)	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5
25 Hidden Hollow Landfill	2.3	2.3	2.3	2.5	2.5	2.5	2.4	2.3	2.2	2.2	2.2	2.4	2.3	2.2	2.3
26 JC-Biomethane	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
27 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
28 Lakeview Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29 LRI/Graham Landfill - BioFuels	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
30 Metro Wastewater Treatment Plant	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
31 Neal Hot Springs	22.0	22.0	22.0	22.0	22.0	22.0	10.5	22.0	22.0	22.0	22.0	22.0	22.0	21.3	21.0
32 Paisley Geothermal	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
33 Pine Products Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34 Port of Tillamook Bay Anaerobic Digester	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
35 Portland Waste Water	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
36 Puyallup Energy Recovery	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
37 Qualco Dairy Digester	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
38 Raft River Geothermal	8.3	8.3	8.3	9.0	9.0	9.0	9.0	9.4	8.5	8.3	8.3	9.0	7.6	8.3	8.6
39 Rainier Biogas	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
40 River Bend Landfill	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
41 Rock Creek Digester	1.4	1.4	1.4	1.5	1.4	1.3	1.1	1.2	1.1	1.3	1.3	1.2	1.4	1.4	1.3
42 Short Mountain	2.3	2.3	2.4	2.6	2.8	3.0	3.1	3.0	3.0	3.1	3.1	3.0	2.2	2.3	2.7
43 Stahlbush Island Farms Biogas	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.6	1.5	1.5	1.5	1.5	1.5	1.5	1.5
44 Stoltze Biomass	2.6	2.6	2.6	2.6	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.6	2.6	2.6	2.5
45 Swager Digester	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Regional: Non-Hydro Renewable - Other
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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Non-Hydro Renewable - Other															
46 Treasure Valley Digester	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47 Van Dyk's Holsteins	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
48 Vander Haak Dairy	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
49 Total Non-Hydro Renewable - Other	176	177	176	178	178	178	166	177	178	177	177	167	152	175	173

Regional: Non-Hydro Renewable - Other
Operating Year: 2024 Water Year: 1937
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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Non-Hydro Renewable - Other															
1 Bannock County Landfill	1.2	1.2	1.2	1.2	1.2	1.1	1.1	1.1	1.1	1.2	1.2	1.1	1.2	1.2	1.2
2 Bettencourt B6 anaerobic digester	1.2	1.4	1.4	1.4	1.3	1.3	1.4	1.4	1.4	1.4	1.3	1.3	1.2	1.2	1.3
3 Big Sky Dairy	1.1	1.1	1.0	1.0	1.0	0.9	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
4 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
5 Boise Cascade Medford	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6 Cedar Hills Landfill	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
7 Coffin Butte	5.3	5.3	5.3	5.4	5.5	5.1	5.5	5.4	5.6	5.4	5.4	5.4	5.3	5.2	5.4
8 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
9 DeRuyter & Son's Dairy	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
10 Double A Digester	3.1	3.1	2.9	3.1	3.0	3.0	2.9	3.1	3.1	3.0	3.0	3.1	2.9	2.8	3.0
11 Double B Digester	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12 Dry Creek Landfill	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
13 Dry Dairy Creek	1.2	1.2	1.4	1.4	1.4	1.3	1.3	1.4	1.4	1.4	1.4	1.3	1.3	1.2	1.3
14 Edaleen Cow Power	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
15 Farm Power Lynden	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
16 Farm Power Misty Meadow	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
17 Farm Power Rexville	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
18 Farm Power Tillamook	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
19 Fighting Creek Landfill	1.0	1.0	1.0	1.0	1.2	1.3	1.4	1.4	1.5	1.2	1.2	1.4	1.3	1.0	1.2
20 Finley BioEnergy	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
21 Flathead County Landfill	1.3	1.3	1.3	1.3	1.2	1.2	1.2	1.3	1.2	1.3	1.3	1.3	1.3	1.3	1.3
22 Forest Glen Oaks Dairy	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
23 Fourmile Hill Geothermal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24 H.W. Hill Landfill Gas (Roosevelt)	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5
25 Hidden Hollow Landfill	2.3	2.3	2.3	2.5	2.5	2.5	2.4	2.3	2.2	2.2	2.2	2.4	2.3	2.2	2.3
26 JC-Biomethane	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
27 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
28 Lakeview Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29 LRI/Graham Landfill - BioFuels	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
30 Metro Wastewater Treatment Plant	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
31 Neal Hot Springs	22.0	22.0	22.0	22.0	22.0	22.0	10.5	22.0	22.0	22.0	22.0	22.0	22.0	21.3	21.0
32 Paisley Geothermal	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
33 Pine Products Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34 Port of Tillamook Bay Anaerobic Digester	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
35 Portland Waste Water	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
36 Puyallup Energy Recovery	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
37 Qualco Dairy Digester	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
38 Raft River Geothermal	8.3	8.3	8.3	9.0	9.0	9.0	9.0	9.4	8.5	8.3	8.3	9.0	7.6	8.3	8.6
39 Rainier Biogas	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
40 River Bend Landfill	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
41 Rock Creek Digester	1.4	1.4	1.4	1.5	1.4	1.3	1.1	1.2	1.1	1.3	1.3	1.2	1.4	1.4	1.3
42 Short Mountain	2.3	2.3	2.4	2.6	2.8	3.0	3.1	3.0	3.0	3.1	3.1	3.0	2.2	2.3	2.7
43 Stahlbush Island Farms Biogas	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.6	1.5	1.5	1.5	1.5	1.5	1.5	1.5
44 Stoltze Biomass	2.6	2.6	2.6	2.6	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.6	2.6	2.6	2.5
45 Swager Digester	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Non-Hydro Renewable - Other															
46 Treasure Valley Digester	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47 Van Dyk's Holsteins	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
48 Vander Haak Dairy	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
49 Total Non-Hydro Renewable - Other	176	177	176	178	178	178	166	178	178	177	177	178	157	175	175

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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Non-Hydro Renewable - Other															
1 Bannock County Landfill	1.2	1.2	1.2	1.2	1.2	1.1	1.1	1.1	1.1	1.2	1.2	1.1	1.2	1.2	1.2
2 Bettencourt B6 anaerobic digester	1.4	1.4	1.4	1.3	1.3	1.4	1.4	1.4	1.4	1.3	1.3	1.2	1.2	1.2	1.3
3 Big Sky Dairy	1.1	1.1	1.0	1.0	1.0	0.9	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
4 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
5 Boise Cascade Medford	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6 Cedar Hills Landfill	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
7 Coffin Butte	5.3	5.3	5.3	5.4	5.5	5.1	5.5	5.4	5.6	5.4	5.4	5.4	5.3	5.2	5.4
8 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
9 DeRuyter & Son's Dairy	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
10 Double A Digester	3.1	3.1	2.9	3.1	3.0	3.0	2.9	3.1	3.1	3.0	3.0	3.1	2.9	2.8	3.0
11 Double B Digester	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12 Dry Creek Landfill	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
13 Dry Dairy Creek	1.2	1.2	1.4	1.4	1.4	1.3	1.3	1.4	1.4	1.4	1.4	1.3	1.3	1.2	1.3
14 Edaleen Cow Power	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
15 Farm Power Lynden	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
16 Farm Power Misty Meadow	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
17 Farm Power Rexville	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
18 Farm Power Tillamook	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
19 Fighting Creek Landfill	1.0	1.0	1.0	1.0	1.2	1.3	1.4	1.4	1.5	1.2	1.2	1.4	1.3	1.0	1.2
20 Finley BioEnergy	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
21 Flathead County Landfill	1.3	1.3	1.3	1.3	1.2	1.2	1.2	1.3	1.2	1.3	1.3	1.3	1.3	1.3	1.3
22 Forest Glen Oaks Dairy	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
23 Fourmile Hill Geothermal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24 H.W. Hill Landfill Gas (Roosevelt)	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5
25 Hidden Hollow Landfill	2.3	2.3	2.3	2.5	2.5	2.5	2.4	2.3	2.2	2.2	2.2	2.4	2.3	2.2	2.3
26 JC-Biomethane	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
27 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
28 Lakeview Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29 LRI/Graham Landfill - BioFuels	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
30 Metro Wastewater Treatment Plant	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
31 Neal Hot Springs	22.0	22.0	22.0	22.0	22.0	22.0	10.5	22.0	22.0	22.0	22.0	22.0	22.0	21.3	21.0
32 Paisley Geothermal	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
33 Pine Products Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34 Port of Tillamook Bay Anaerobic Digester	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
35 Portland Waste Water	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
36 Puyallup Energy Recovery	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
37 Qualco Dairy Digester	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
38 Raft River Geothermal	8.3	8.3	8.3	9.0	9.0	9.0	9.0	9.4	8.5	8.3	8.3	9.0	7.6	8.3	8.6
39 Rainier Biogas	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
40 River Bend Landfill	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
41 Rock Creek Digester	1.4	1.4	1.4	1.5	1.4	1.3	1.1	1.2	1.1	1.3	1.3	1.2	1.4	1.4	1.3
42 Short Mountain	2.3	2.3	2.4	2.6	2.8	3.0	3.1	3.0	3.0	3.1	3.1	3.0	2.2	2.3	2.7
43 Stahlbush Island Farms Biogas	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.6	1.5	1.5	1.5	1.5	1.5	1.5	1.5
44 Stoltze Biomass	2.6	2.6	2.6	2.6	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.6	2.6	2.6	2.5
45 Swager Digester	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Non-Hydro Renewable - Other															
46 Treasure Valley Digester	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47 Van Dyk's Holsteins	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
48 Vander Haak Dairy	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
49 Total Non-Hydro Renewable - Other	177	177	176	178	178	178	166	177	178	177	177	178	152	175	174

Regional: Non-Hydro Renewable - Other
Operating Year: 2026 Water Year: 1937
2018 White Book Report Date: 12/1/2018
S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Non-Hydro Renewable - Other															
1 Bannock County Landfill	1.2	1.2	1.2	1.2	1.2	1.1	1.1	1.1	1.1	1.2	1.2	1.1	1.2	1.2	1.2
2 Bettencourt B6 anaerobic digester	1.4	1.4	1.4	1.3	1.3	1.4	1.4	1.4	1.4	1.3	1.3	1.2	1.2	1.2	1.3
3 Big Sky Dairy	1.1	1.1	1.0	1.0	1.0	0.9	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
4 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
5 Boise Cascade Medford	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6 Cedar Hills Landfill	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
7 Coffin Butte	5.3	5.3	5.3	5.4	5.5	5.1	5.5	5.4	5.6	5.4	5.4	5.4	5.3	5.2	5.4
8 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
9 DeRuyter & Son's Dairy	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
10 Double A Digester	3.1	3.1	2.9	3.1	3.0	3.0	2.9	3.1	3.1	3.0	3.0	3.1	2.9	2.8	3.0
11 Double B Digester	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12 Dry Creek Landfill	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
13 Dry Dairy Creek	1.2	1.2	1.4	1.4	1.4	1.3	1.3	1.4	1.4	1.4	1.4	1.3	1.3	1.2	1.3
14 Edaleen Cow Power	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
15 Farm Power Lynden	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
16 Farm Power Misty Meadow	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
17 Farm Power Rexville	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
18 Farm Power Tillamook	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
19 Fighting Creek Landfill	1.0	1.0	1.0	1.0	1.2	1.3	1.4	1.4	1.5	1.2	1.2	1.4	1.3	1.0	1.2
20 Finley BioEnergy	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
21 Flathead County Landfill	1.3	1.3	1.3	1.3	1.2	1.2	1.2	1.3	1.2	1.3	1.3	1.3	1.3	1.3	1.3
22 Forest Glen Oaks Dairy	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
23 Fourmile Hill Geothermal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24 H.W. Hill Landfill Gas (Roosevelt)	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5
25 Hidden Hollow Landfill	2.3	2.3	2.3	2.5	2.5	2.5	2.4	2.3	2.2	2.2	2.2	2.4	2.3	2.2	2.3
26 JC-Biomethane	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
27 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
28 Lakeview Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29 LRI/Graham Landfill - BioFuels	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
30 Metro Wastewater Treatment Plant	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
31 Neal Hot Springs	22.0	22.0	22.0	22.0	22.0	22.0	10.5	22.0	22.0	22.0	22.0	22.0	22.0	21.3	21.0
32 Paisley Geothermal	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
33 Pine Products Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34 Port of Tillamook Bay Anaerobic Digester	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
35 Portland Waste Water	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
36 Puyallup Energy Recovery	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
37 Qualco Dairy Digester	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
38 Raft River Geothermal	8.3	8.3	8.3	9.0	9.0	9.0	9.0	9.4	8.5	8.3	8.3	9.0	7.6	8.3	8.6
39 Rainier Biogas	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
40 River Bend Landfill	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
41 Rock Creek Digester	1.4	1.4	1.4	1.5	1.4	1.3	1.1	1.2	1.1	1.3	1.3	1.2	1.4	1.4	1.3
42 Short Mountain	2.3	2.3	2.4	2.6	2.8	3.0	3.1	3.0	3.0	3.1	3.1	3.0	2.2	2.3	2.7
43 Stahlbush Island Farms Biogas	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.6	1.5	1.5	1.5	1.5	1.5	1.5	1.5
44 Stoltze Biomass	2.6	2.6	2.6	2.6	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.6	2.6	2.6	2.5
45 Swager Digester	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Regional: Non-Hydro Renewable - Other
Operating Year: 2026 Water Year: 1937
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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Non-Hydro Renewable - Other															
46 Treasure Valley Digester	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47 Van Dyk's Holsteins	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
48 Vander Haak Dairy	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
49 Total Non-Hydro Renewable - Other	177	177	176	178	178	178	166	177	178	177	177	167	152	175	173

Regional: Non-Hydro Renewable - Other
Operating Year: 2027 Water Year: 1937
2018 White Book Report Date: 12/1/2018
S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Non-Hydro Renewable - Other															
1 Bannock County Landfill	1.2	1.2	1.2	1.2	1.2	1.1	1.1	1.1	1.1	1.2	1.2	1.1	1.2	1.2	1.2
2 Bettencourt B6 anaerobic digester	1.4	1.4	1.4	1.3	1.3	1.4	1.4	1.4	1.4	1.3	1.3	1.2	1.2	1.4	1.3
3 Big Sky Dairy	1.1	1.1	1.0	1.0	1.0	0.9	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
4 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
5 Boise Cascade Medford	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6 Cedar Hills Landfill	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
7 Coffin Butte	5.3	5.3	5.3	5.4	5.5	5.1	5.5	5.4	5.6	5.4	5.4	5.4	5.3	5.2	5.4
8 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
9 DeRuyter & Son's Dairy	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
10 Double A Digester	3.1	3.1	2.9	3.1	3.0	3.0	2.9	3.1	3.1	3.0	3.0	3.1	2.9	2.8	3.0
11 Double B Digester	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12 Dry Creek Landfill	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
13 Dry Dairy Creek	1.2	1.2	1.4	1.4	1.4	1.3	1.3	1.4	1.4	1.4	1.4	1.3	1.3	1.2	1.3
14 Edaleen Cow Power	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
15 Farm Power Lynden	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
16 Farm Power Misty Meadow	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
17 Farm Power Rexville	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
18 Farm Power Tillamook	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
19 Fighting Creek Landfill	1.0	1.0	1.0	1.0	1.2	1.3	1.4	1.4	1.5	1.2	1.2	1.4	1.3	1.0	1.2
20 Finley BioEnergy	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
21 Flathead County Landfill	1.3	1.3	1.3	1.3	1.2	1.2	1.2	1.3	1.2	1.3	1.3	1.3	1.3	1.3	1.3
22 Forest Glen Oaks Dairy	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
23 Fourmile Hill Geothermal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24 H.W. Hill Landfill Gas (Roosevelt)	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5
25 Hidden Hollow Landfill	2.3	2.3	2.3	2.5	2.5	2.5	2.4	2.3	2.2	2.2	2.2	2.4	2.3	2.2	2.3
26 JC-Biomethane	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
27 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
28 Lakeview Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29 LRI/Graham Landfill - BioFuels	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
30 Metro Wastewater Treatment Plant	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
31 Neal Hot Springs	22.0	22.0	22.0	22.0	22.0	22.0	10.5	22.0	22.0	22.0	22.0	22.0	22.0	21.3	21.0
32 Paisley Geothermal	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
33 Pine Products Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34 Port of Tillamook Bay Anaerobic Digester	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
35 Portland Waste Water	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
36 Puyallup Energy Recovery	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
37 Qualco Dairy Digester	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
38 Raft River Geothermal	8.3	8.3	8.3	9.0	9.0	9.0	9.0	9.4	8.5	8.3	8.3	9.0	7.6	8.3	8.6
39 Rainier Biogas	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
40 River Bend Landfill	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
41 Rock Creek Digester	1.4	1.4	1.4	1.5	1.4	1.3	1.1	1.2	1.1	1.3	1.3	1.2	1.4	1.4	1.3
42 Short Mountain	2.3	2.3	2.4	2.6	2.8	3.0	3.1	3.0	3.0	3.1	3.1	3.0	2.2	2.3	2.7
43 Stahlbush Island Farms Biogas	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.6	1.5	1.5	1.5	1.5	1.5	1.5	1.5
44 Stoltze Biomass	2.6	2.6	2.6	2.6	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.6	2.6	2.6	2.5
45 Swager Digester	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Regional: Non-Hydro Renewable - Other
Operating Year: 2027 Water Year: 1937
2018 White Book Report Date: 12/1/2018
S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Non-Hydro Renewable - Other															
46 Treasure Valley Digester	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47 Van Dyk's Holsteins	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
48 Vander Haak Dairy	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
49 Total Non-Hydro Renewable - Other	177	177	176	178	178	178	166	177	178	177	177	167	152	175	173

Regional: Non-Hydro Renewable - Other
Operating Year: 2028 Water Year: 1937
2018 White Book Report Date: 12/1/2018
S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Non-Hydro Renewable - Other															
1 Bannock County Landfill	1.2	1.2	1.2	1.2	1.2	1.1	1.1	1.1	1.1	1.2	1.2	1.1	1.2	1.2	1.2
2 Bettencourt B6 anaerobic digester	1.4	1.4	1.3	1.3	1.4	1.4	1.4	1.4	1.3	1.3	1.2	1.2	1.2	1.4	1.3
3 Big Sky Dairy	1.1	1.1	1.0	1.0	1.0	0.9	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
4 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
5 Boise Cascade Medford	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6 Cedar Hills Landfill	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
7 Coffin Butte	5.3	5.3	5.3	5.4	5.5	5.1	5.5	5.4	5.6	5.4	5.4	5.4	5.3	5.2	5.4
8 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
9 DeRuyter & Son's Dairy	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
10 Double A Digester	3.1	3.1	2.9	3.1	3.0	3.0	2.9	3.1	3.1	3.0	3.0	3.1	2.9	2.8	3.0
11 Double B Digester	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12 Dry Creek Landfill	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
13 Dry Dairy Creek	1.2	1.2	1.4	1.4	1.4	1.3	1.3	1.4	1.4	1.4	1.4	1.3	1.3	1.2	1.3
14 Edaleen Cow Power	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
15 Farm Power Lynden	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
16 Farm Power Misty Meadow	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
17 Farm Power Rexville	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
18 Farm Power Tillamook	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
19 Fighting Creek Landfill	1.0	1.0	1.0	1.0	1.2	1.3	1.4	1.4	1.5	1.2	1.2	1.4	1.3	1.0	1.2
20 Finley BioEnergy	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
21 Flathead County Landfill	1.3	1.3	1.3	1.3	1.2	1.2	1.2	1.3	1.2	1.3	1.3	1.3	1.3	1.3	1.3
22 Forest Glen Oaks Dairy	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
23 Fourmile Hill Geothermal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24 H.W. Hill Landfill Gas (Roosevelt)	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5
25 Hidden Hollow Landfill	2.3	2.3	2.3	2.5	2.5	2.5	2.4	2.3	2.2	2.2	2.2	2.4	2.3	2.2	2.3
26 JC-Biomethane	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
27 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
28 Lakeview Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29 LRI/Graham Landfill - BioFuels	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
30 Metro Wastewater Treatment Plant	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
31 Neal Hot Springs	22.0	22.0	22.0	22.0	22.0	22.0	10.5	22.0	22.0	22.0	22.0	22.0	22.0	21.3	21.0
32 Paisley Geothermal	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
33 Pine Products Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34 Port of Tillamook Bay Anaerobic Digester	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
35 Portland Waste Water	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
36 Puyallup Energy Recovery	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
37 Qualco Dairy Digester	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
38 Raft River Geothermal	8.3	8.3	8.3	9.0	9.0	9.0	9.0	9.4	8.5	8.3	8.3	9.0	7.6	8.3	8.6
39 Rainier Biogas	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
40 River Bend Landfill	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
41 Rock Creek Digester	1.4	1.4	1.4	1.5	1.4	1.3	1.1	1.2	1.1	1.3	1.3	1.2	1.4	1.4	1.3
42 Short Mountain	2.3	2.3	2.4	2.6	2.8	3.0	3.1	3.0	3.0	3.1	3.1	3.0	2.2	2.3	2.7
43 Stahlbush Island Farms Biogas	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.6	1.5	1.5	1.5	1.5	1.5	1.5	1.5
44 Stoltze Biomass	2.6	2.6	2.6	2.6	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.6	2.6	2.6	2.5
45 Swager Digester	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Regional: Non-Hydro Renewable - Other
Operating Year: 2028 Water Year: 1937
2018 White Book Report Date: 12/1/2018
S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Non-Hydro Renewable - Other															
46 Treasure Valley Digester	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47 Van Dyk's Holsteins	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
48 Vander Haak Dairy	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
49 Total Non-Hydro Renewable - Other	177	177	176	178	178	178	166	178	177	177	177	178	157	175	175

Regional: Non-Hydro Renewable - Other
Operating Year: 2029 Water Year: 1937
2018 White Book Report Date: 12/1/2018
S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Non-Hydro Renewable - Other															
1 Bannock County Landfill	1.2	1.2	1.2	1.2	1.2	1.1	1.1	1.1	1.1	1.2	1.2	1.1	1.2	1.2	1.2
2 Bettencourt B6 anaerobic digester	1.4	1.4	1.3	1.3	1.4	1.4	1.4	1.4	1.3	1.3	1.2	1.2	1.2	1.4	1.3
3 Big Sky Dairy	1.1	1.1	1.0	1.0	1.0	0.9	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
4 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
5 Boise Cascade Medford	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6 Cedar Hills Landfill	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
7 Coffin Butte	5.3	5.3	5.3	5.4	5.5	5.1	5.5	5.4	5.6	5.4	5.4	5.4	5.3	5.2	5.4
8 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
9 DeRuyter & Son's Dairy	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
10 Double A Digester	3.1	3.1	2.9	3.1	3.0	3.0	2.9	3.1	3.1	3.0	3.0	3.1	2.9	2.8	3.0
11 Double B Digester	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12 Dry Creek Landfill	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
13 Dry Dairy Creek	1.2	1.2	1.4	1.4	1.4	1.3	1.3	1.4	1.4	1.4	1.4	1.3	1.3	1.2	1.3
14 Edaleen Cow Power	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
15 Farm Power Lynden	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
16 Farm Power Misty Meadow	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
17 Farm Power Rexville	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
18 Farm Power Tillamook	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
19 Fighting Creek Landfill	1.0	1.0	1.0	1.0	1.2	1.3	1.4	1.4	1.5	1.2	1.2	1.4	1.3	1.0	1.2
20 Finley BioEnergy	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
21 Flathead County Landfill	1.3	1.3	1.3	1.3	1.2	1.2	1.2	1.3	1.2	1.3	1.3	1.3	1.3	1.3	1.3
22 Forest Glen Oaks Dairy	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
23 Fourmile Hill Geothermal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24 H.W. Hill Landfill Gas (Roosevelt)	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5
25 Hidden Hollow Landfill	2.3	2.3	2.3	2.5	2.5	2.5	2.4	2.3	2.2	2.2	2.2	2.4	2.3	2.2	2.3
26 JC-Biomethane	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
27 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	46.3	23.1	46.3
28 Lakeview Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29 LRI/Graham Landfill - BioFuels	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
30 Metro Wastewater Treatment Plant	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
31 Neal Hot Springs	22.0	22.0	22.0	22.0	22.0	22.0	10.5	22.0	22.0	22.0	22.0	22.0	22.0	21.3	21.0
32 Paisley Geothermal	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
33 Pine Products Biomass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34 Port of Tillamook Bay Anaerobic Digester	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
35 Portland Waste Water	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
36 Puyallup Energy Recovery	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
37 Qualco Dairy Digester	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
38 Raft River Geothermal	8.3	8.3	8.3	9.0	9.0	9.0	9.0	9.4	8.5	8.3	8.3	9.0	7.6	8.3	8.6
39 Rainier Biogas	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
40 River Bend Landfill	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
41 Rock Creek Digester	1.4	1.4	1.4	1.5	1.4	1.3	1.1	1.2	1.1	1.3	1.3	1.2	1.4	1.4	1.3
42 Short Mountain	2.3	2.3	2.4	2.6	2.8	3.0	3.1	3.0	3.0	3.1	3.1	3.0	2.2	2.3	2.7
43 Stahlbush Island Farms Biogas	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.6	1.5	1.5	1.5	1.5	1.5	1.5	1.5
44 Stoltze Biomass	2.6	2.6	2.6	2.6	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.6	2.6	2.6	2.5
45 Swager Digester	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Regional: Non-Hydro Renewable - Other
Operating Year: 2029 Water Year: 1937
2018 White Book Report Date: 12/1/2018
S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Non-Hydro Renewable - Other															
46 Treasure Valley Digester	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47 Van Dyk's Holsteins	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
48 Vander Haak Dairy	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
49 Total Non-Hydro Renewable - Other	177	177	176	178	178	178	166	177	177	177	177	178	152	175	174

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Exhibit 36
Regional Thermal - Nuclear

Monthly Energy
Operating Year 2020 to 2029

Regional: Thermal - Nuclear
Operating Year: 2020 Water Year: 1937
2018 White Book Report Date: 12/1/2018
S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Thermal - Nuclear															
1 Columbia Generating Station	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0
2 Total Thermal - Cogeneration	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116

Regional: Thermal - Nuclear
Operating Year: 2021 Water Year: 1937
2018 White Book Report Date: 12/1/2018
 S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Thermal - Nuclear															
1 Columbia Generating Station	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	360.0	409.0	1116.0	993.7
2 Total Thermal - Cogeneration	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	360	409	1116	994

Regional: Thermal - Nuclear
Operating Year: 2022 Water Year: 1937
2018 White Book Report Date: 12/1/2018
S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Thermal - Nuclear															
1 Columbia Generating Station	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0
2 Total Thermal - Cogeneration	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116

Regional: Thermal - Nuclear
Operating Year: 2023 Water Year: 1937
2018 White Book Report Date: 12/1/2018
 S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Thermal - Nuclear															
1 Columbia Generating Station	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	360.0	409.0	1116.0	993.7
2 Total Thermal - Cogeneration	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	360	409	1116	994

Regional: Thermal - Nuclear
Operating Year: 2024 Water Year: 1937
2018 White Book Report Date: 12/1/2018
S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Thermal - Nuclear															
1 Columbia Generating Station	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0
2 Total Thermal - Cogeneration	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116

Regional: Thermal - Nuclear
Operating Year: 2025 Water Year: 1937
2018 White Book Report Date: 12/1/2018
S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Thermal - Nuclear															
1 Columbia Generating Station	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	360.0	409.0	1116.0	993.7
2 Total Thermal - Cogeneration	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	360	409	1116	994

Regional: Thermal - Nuclear
Operating Year: 2026 Water Year: 1937
2018 White Book Report Date: 12/1/2018
S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Thermal - Nuclear															
1 Columbia Generating Station	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0
2 Total Thermal - Cogeneration	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116

Regional: Thermal - Nuclear
Operating Year: 2027 Water Year: 1937
2018 White Book Report Date: 12/1/2018
S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Thermal - Nuclear															
1 Columbia Generating Station	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	360.0	409.0	1116.0	993.7
2 Total Thermal - Cogeneration	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	360	409	1116	994

Regional: Thermal - Nuclear
Operating Year: 2028 Water Year: 1937
2018 White Book Report Date: 12/1/2018
S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Thermal - Nuclear															
1 Columbia Generating Station	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0
2 Total Thermal - Cogeneration	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116

Regional: Thermal - Nuclear
Operating Year: 2029 Water Year: 1937
2018 White Book Report Date: 12/1/2018
 S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Thermal - Nuclear															
1 Columbia Generating Station	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	1116.0	360.0	409.0	1116.0	993.7
2 Total Thermal - Cogeneration	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	360	409	1116	994

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Exhibit 37
Regional Thermal - Coal

Monthly Energy
Operating Year 2020 to 2029

Regional: Thermal - Coal
Operating Year: 2020 Water Year: 1937
2018 White Book Report Date: 12/1/2018
S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg	
Thermal - Coal																
1 Boardman	489.2	489.2	489.2	489.2	489.2	489.2	489.2	489.2	489.2	489.2	489.2	489.2	0.0	489.2	489.2	447.8
2 Centralia Complex	1252.6	1252.6	1252.6	1252.6	1252.6	1252.6	1252.6	1252.6	1252.6	1252.6	1252.6	1252.6	666.6	1252.6	1252.6	1203.0
3 Colstrip	1440.7	1440.7	1440.7	1440.7	1440.7	1440.7	1440.7	1440.7	1407.2	966.2	966.2	919.2	1230.2	1440.7	1337.5	
4 Colstrip Energy Project	6.4	6.6	10.3	11.4	8.8	12.7	13.2	12.1	10.9	10.3	10.0	13.3	11.3	9.3	10.8	
5 Jim Bridger	1908.8	1908.8	1908.8	1908.8	1908.8	1908.8	1908.8	1908.8	1892.4	1469.9	1273.4	1602.1	1924.2	1908.8	1838.7	
6 Valmy	234.7	234.7	234.7	234.7	234.7	234.7	234.7	234.7	152.0	234.7	234.7	209.2	234.7	234.7	225.5	
7 Total Thermal - Coal	5332	5333	5336	5337	5335	5339	5339	5338	5204	4423	4226	3410	5142	5335	5063	

Regional: Thermal - Coal
Operating Year: 2021 Water Year: 1937
2018 White Book Report Date: 12/1/2018
S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Thermal - Coal															
1 Boardman	489.2	489.2	489.2	489.2	489.2	489.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	205.1
2 Centralia Complex	1252.6	1252.6	1252.6	1252.6	1252.6	626.3	626.3	626.3	626.3	626.3	626.3	333.3	626.3	626.3	810.8
3 Colstrip	1440.7	1440.7	1440.7	1440.7	1440.7	1440.7	1440.7	1440.7	1440.7	1440.7	1440.7	1345.7	1232.2	1440.7	1415.5
4 Colstrip Energy Project	6.4	6.6	10.3	11.4	8.8	12.7	13.2	12.1	10.9	10.3	10.0	13.3	11.3	9.3	10.8
5 Jim Bridger	1908.8	1908.8	1908.8	1908.8	1908.8	1908.8	1908.8	1908.8	1729.6	1792.0	1595.5	1924.2	1924.2	1908.8	1878.5
6 Valmy	234.7	234.7	234.7	234.7	234.7	234.7	234.7	234.7	152.0	234.7	234.7	209.2	234.7	234.7	225.5
7 Total Thermal - Coal	5332	5333	5336	5337	5335	4712	4224	4223	3959	4104	3907	3826	4029	4220	4546

Regional: Thermal - Coal
Operating Year: 2022 Water Year: 1937
2018 White Book Report Date: 12/1/2018
S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Thermal - Coal															
1 Boardman	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 Centralia Complex	626.3	626.3	626.3	626.3	626.3	626.3	626.3	626.3	596.1	313.2	313.2	535.6	626.3	626.3	590.3
3 Colstrip	1440.7	1440.7	1440.7	1440.7	1440.7	1440.7	1440.7	1440.7	1416.8	756.0	756.0	1030.9	1440.7	1159.7	1323.7
4 Colstrip Energy Project	6.4	6.6	10.3	11.4	8.8	12.7	13.2	12.1	10.9	10.3	10.0	13.3	11.3	9.3	10.8
5 Jim Bridger	1908.8	1908.8	1908.8	1908.8	1908.8	1908.8	1908.8	1908.8	1924.2	1480.8	1284.3	1924.2	1924.2	1908.8	1869.4
6 Valmy	234.7	234.7	234.7	234.7	234.7	234.7	120.3	120.3	77.9	120.3	120.3	107.2	120.3	120.3	163.5
7 Total Thermal - Coal	4217	4217	4221	4222	4219	4223	4109	4108	4026	2680	2484	3611	4123	3824	3958

Regional: Thermal - Coal
Operating Year: 2023 Water Year: 1937
2018 White Book Report Date: 12/1/2018
S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Thermal - Coal															
1 Boardman	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 Centralia Complex	626.3	626.3	626.3	626.3	626.3	626.3	626.3	626.3	596.1	313.2	313.2	535.6	626.3	626.3	590.3
3 Colstrip	1159.7	1159.7	1159.7	1159.7	1159.7	1159.7	1159.7	1159.7	1126.2	690.2	690.2	851.2	1159.7	1159.7	1092.1
4 Colstrip Energy Project	6.4	6.6	10.3	11.4	8.8	12.7	13.2	12.1	10.9	10.3	10.0	13.3	11.3	9.3	10.8
5 Jim Bridger	1908.8	1908.8	1908.8	1908.8	1908.8	1908.8	1908.8	1908.8	1729.6	1792.0	1595.5	1924.2	1924.2	1908.8	1878.5
6 Valmy	120.3	120.3	120.3	120.3	120.3	120.3	120.3	120.3	77.9	120.3	120.3	107.2	120.3	120.3	115.5
7 Total Thermal - Coal	3821	3822	3825	3826	3824	3828	3828	3827	3541	2926	2729	3431	3842	3824	3687

Regional: Thermal - Coal
Operating Year: 2024 Water Year: 1937
2018 White Book Report Date: 12/1/2018
S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Thermal - Coal															
1 Boardman	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 Centralia Complex	626.3	626.3	626.3	626.3	626.3	626.3	626.3	626.3	626.3	626.3	626.3	333.3	626.3	626.3	601.5
3 Colstrip	1159.7	1159.7	1159.7	1159.7	1159.7	1159.7	1159.7	1159.7	1159.7	1159.7	1159.7	1159.7	1159.7	1159.7	1159.7
4 Colstrip Energy Project	6.4	6.6	10.3	11.4	8.8	12.7	13.2	12.1	10.9	10.3	10.0	13.3	11.3	9.3	10.8
5 Jim Bridger	1908.8	1908.8	1908.8	1908.8	1908.8	1908.8	1908.8	1908.8	1924.2	1737.4	1540.9	1602.1	1924.2	1908.8	1863.3
6 Valmy	120.3	120.3	120.3	120.3	120.3	120.3	120.3	120.3	77.9	120.3	120.3	107.2	120.3	120.3	115.6
7 Total Thermal - Coal	3821	3822	3825	3826	3824	3828	3828	3827	3799	3654	3457	3216	3842	3824	3751

Regional: Thermal - Coal
Operating Year: 2025 Water Year: 1937
2018 White Book Report Date: 12/1/2018
S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Thermal - Coal															
1 Boardman	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 Centralia Complex	626.3	626.3	626.3	626.3	626.3	626.3	626.3	626.3	626.3	626.3	626.3	333.3	626.3	626.3	601.4
3 Colstrip	1159.7	1159.7	1159.7	1159.7	1159.7	1159.7	1159.7	1159.7	1135.8	489.0	489.0	824.4	1159.7	1159.7	1074.1
4 Colstrip Energy Project	6.4	6.6	10.3	11.4	8.8	12.7	13.2	12.1	10.9	10.3	10.0	13.3	11.3	9.3	10.8
5 Jim Bridger	1908.8	1908.8	1908.8	1908.8	1908.8	1908.8	1908.8	1908.8	1729.6	1743.4	1546.9	1924.2	1924.2	1908.8	1874.5
6 Valmy	120.3	120.3	120.3	120.3	120.3	120.3	120.3	120.3	77.9	120.3	120.3	107.2	120.3	120.3	115.5
7 Total Thermal - Coal	3821	3822	3825	3826	3824	3828	3828	3827	3580	2989	2792	3202	3842	3824	3676

Regional: Thermal - Coal
Operating Year: 2026 Water Year: 1937
2018 White Book Report Date: 12/1/2018
S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Thermal - Coal															
1 Boardman	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 Centralia Complex	626.3	626.3	626.3	626.3	626.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	209.4
3 Colstrip	1159.7	1159.7	1159.7	1159.7	1159.7	1159.7	1159.7	1159.7	1126.2	690.2	690.2	851.2	1159.7	1159.7	1092.1
4 Colstrip Energy Project	6.4	6.6	10.3	11.4	8.8	12.7	13.2	12.1	10.9	10.3	10.0	13.3	11.3	9.3	10.8
5 Jim Bridger	1908.8	1908.8	1908.8	1908.8	1908.8	1908.8	1908.8	1908.8	1892.4	1469.9	1273.4	1602.1	1924.2	1908.8	1838.5
6 Valmy	120.3	120.3	120.3	120.3	120.3	120.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.4
7 Total Thermal - Coal	3821	3822	3825	3826	3824	3201	3082	3081	3029	2170	1974	2467	3095	3078	3201

Regional: Thermal - Coal
Operating Year: 2027 Water Year: 1937
2018 White Book Report Date: 12/1/2018
S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Thermal - Coal															
1 Boardman	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 Centralia Complex	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3 Colstrip	1159.7	1159.7	1159.7	1159.7	1159.7	1159.7	1159.7	1159.7	1159.7	1159.7	1159.7	1159.7	1159.7	1159.7	1159.7
4 Colstrip Energy Project	6.4	6.6	10.3	11.4	8.8	12.7	13.2	12.1	10.9	10.3	10.0	13.3	11.3	9.3	10.8
5 Jim Bridger	1908.8	1908.8	1908.8	1908.8	1908.8	1908.8	1908.8	1908.8	1729.6	1792.0	1595.5	1924.2	1924.2	1908.8	1878.5
6 Valmy	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7 Total Thermal - Coal	3075	3075	3079	3080	3077	3081	3082	3081	2900	2962	2765	3097	3095	3078	3049

Regional: Thermal - Coal
Operating Year: 2028 Water Year: 1937
2018 White Book Report Date: 12/1/2018
S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Thermal - Coal															
1 Boardman	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 Centralia Complex	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3 Colstrip	1159.7	1159.7	1159.7	1159.7	1159.7	1159.7	1159.7	1159.7	1135.8	489.0	489.0	824.4	1159.7	1159.7	1074.3
4 Colstrip Energy Project	6.4	6.6	10.3	11.4	8.8	12.7	13.2	12.1	10.9	10.3	10.0	13.3	11.3	9.3	10.8
5 Jim Bridger	1908.8	1908.8	1908.8	1908.8	1908.8	1908.8	1908.8	1908.8	1924.2	1480.8	1284.3	1924.2	1924.2	1908.8	1869.5
6 Valmy	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7 Total Thermal - Coal	3075	3075	3079	3080	3077	3081	3082	3081	3071	1980	1783	2762	3095	3078	2955

Regional: Thermal - Coal
Operating Year: 2029 Water Year: 1937
2018 White Book Report Date: 12/1/2018
S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Thermal - Coal															
1 Boardman	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 Centralia Complex	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3 Colstrip	1159.7	1159.7	1159.7	1159.7	1159.7	1159.7	1159.7	1159.7	1126.2	690.2	690.2	851.2	1159.7	1159.7	1092.1
4 Colstrip Energy Project	6.4	6.6	10.3	11.4	8.8	12.7	13.2	12.1	10.9	10.3	10.0	13.3	11.3	9.3	10.8
5 Jim Bridger	1908.8	1908.8	1908.8	1908.8	1908.8	1908.8	1908.8	1908.8	1729.6	1792.0	1595.5	1924.2	1924.2	1908.8	1878.5
6 Valmy	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7 Total Thermal - Coal	3075	3075	3079	3080	3077	3081	3082	3081	2867	2492	2296	2789	3095	3078	2981

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Exhibit 38
Regional Thermal - Natural Gas

Monthly Energy
Operating Year 2020 to 2029

Regional: Thermal - Natural Gas
Operating Year: 2020 Water Year: 1937
2018 White Book Report Date: 12/1/2018
S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Thermal - Natural Gas															
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	470.3	476.9	486.4	495.9	502.6	502.6	499.7	495.9	490.2	490.2	483.6	318.2	311.6	470.3	461.1
3 Bennett Mountain Peaking Plant	153.0	153.0	155.8	159.6	162.5	169.1	169.1	164.4	158.7	159.6	159.6	104.3	101.5	153.0	150.9
4 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
5 Carty Generating Station	374.0	374.0	378.0	383.0	392.0	399.0	401.0	396.0	390.0	384.0	384.0	379.0	376.0	374.0	385.5
6 Chehalis Generation Facility	378.7	459.7	465.4	474.9	483.5	487.3	488.2	485.4	482.5	477.8	477.8	471.1	157.1	459.7	446.5
7 Dave Gates Generating Station	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	97.5	97.5	142.5	135.0
8 Encogen	156.5	156.5	158.9	163.8	168.0	171.0	171.6	169.2	167.4	165.0	165.0	111.0	107.9	156.5	155.6
9 Evander Andrews Complex	236.6	236.6	241.3	246.1	250.8	261.3	261.3	252.7	245.1	247.0	247.0	161.7	157.9	235.6	233.1
10 Frederickson CT	252.0	252.0	255.0	259.3	263.1	264.7	265.2	263.5	262.6	260.7	0.0	45.3	170.9	252.7	223.7
11 Frederickson Power Project	138.8	138.8	141.3	145.4	149.5	151.5	152.0	149.9	148.9	147.0	147.0	95.8	92.7	139.3	137.7
12 Fredonia	296.2	296.2	300.9	310.0	318.4	324.2	325.3	320.8	317.2	312.6	0.0	50.8	198.3	296.2	267.9
13 Goldendale Energy Center	244.2	244.2	248.9	252.7	257.5	261.3	260.3	258.4	255.6	253.7	253.7	42.5	164.5	244.2	228.5
14 Grimes Way	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	2.6	2.6	3.8	3.6
15 Kettle Falls Station (CT)	8.1	8.1	9.0	9.5	9.5	10.5	10.5	10.5	9.5	9.5	9.5	5.3	5.3	8.1	8.8
16 Klamath Generation Facility	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8	314.6	314.6	459.8	435.6
17 Klamath Generation Peakings (CT)	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
18 Lancaster	229.9	229.9	237.9	233.8	237.7	254.0	253.1	238.6	236.7	154.1	154.1	109.4	118.5	227.9	211.1
19 Langley Gulch CT	285.0	285.0	285.0	285.0	285.0	285.0	285.0	285.0	285.0	285.0	285.0	195.0	195.0	285.0	270.0
20 Mint Farm Energy Center	270.8	270.8	274.1	279.5	283.9	285.6	285.6	284.2	282.8	281.2	0.0	187.7	184.7	271.6	252.8
21 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
22 Olympic View	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	3.2	3.2	5.0	4.7
23 Pasco Peak Power Plant	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24 Port Westward	566.3	566.3	566.6	575.8	583.7	588.6	589.2	587.0	583.0	576.8	576.8	446.0	440.9	564.6	555.7
25 Rathdrum	131.8	131.8	135.4	148.2	159.6	165.3	167.2	163.4	159.6	153.9	153.9	95.4	87.8	138.7	142.2
26 River Road	235.6	235.6	235.6	235.6	235.6	235.6	235.6	235.6	235.6	235.6	235.6	86.8	235.6	235.6	223.0
27 Satsop Combustion Turbine Project	617.5	617.5	617.5	617.5	617.5	617.5	617.5	617.5	617.5	617.5	617.5	227.5	617.5	617.5	584.5
28 University of Washington Power Plant	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	9.8	9.8	14.3	13.6
29 Whitehorn	139.7	139.7	141.9	145.8	149.5	152.0	152.5	150.5	148.9	147.0	0.0	96.3	93.8	139.7	132.1
30 Total Thermal - Natural Gas	6018	6106	6170	6230	6360	6438	6444	6381	6327	6207	5198	3814	4402	6101	5869

Regional: Thermal - Natural Gas
Operating Year: 2021 Water Year: 1937
2018 White Book Report Date: 12/1/2018
S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Thermal - Natural Gas															
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	470.3	476.9	486.4	495.9	502.6	502.6	499.7	495.9	490.2	490.2	483.6	318.2	311.6	470.3	461.0
3 Bennett Mountain Peaking Plant	153.0	153.0	155.8	159.6	162.5	169.1	169.1	164.4	158.7	159.6	159.6	104.3	101.5	153.0	150.8
4 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
5 Carty Generating Station	374.0	374.0	378.0	383.0	392.0	399.0	401.0	396.0	390.0	384.0	384.0	379.0	376.0	374.0	385.4
6 Chehalis Generation Facility	459.7	459.7	465.4	474.9	483.5	487.3	488.2	485.4	482.5	477.8	477.8	471.1	157.1	459.7	449.7
7 Dave Gates Generating Station	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	97.5	97.5	142.5	135.0
8 Encogen	156.5	156.5	158.9	163.8	168.0	171.0	171.6	169.2	167.4	165.0	165.0	111.0	107.9	156.5	155.5
9 Evander Andrews Complex	236.6	236.6	241.3	246.1	250.8	261.3	261.3	252.7	245.1	247.0	247.0	161.7	157.9	235.6	233.1
10 Frederickson CT	252.0	252.0	255.0	259.3	263.1	264.7	265.2	263.5	262.6	260.7	0.0	45.3	170.9	252.7	223.6
11 Frederickson Power Project	138.8	138.8	141.3	145.4	149.5	151.5	152.0	149.9	148.9	147.0	147.0	95.8	92.7	139.3	137.6
12 Fredonia	296.2	296.2	300.9	310.0	318.4	324.2	325.3	320.8	317.2	312.6	0.0	50.8	198.3	296.2	267.7
13 Goldendale Energy Center	244.2	244.2	248.9	252.7	257.5	261.3	260.3	258.4	255.6	253.7	253.7	42.5	164.5	244.2	228.4
14 Grimes Way	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	2.6	2.6	3.8	3.6
15 Kettle Falls Station (CT)	8.1	8.1	9.0	9.5	9.5	10.5	10.5	10.5	9.5	9.5	9.5	5.3	5.3	8.1	8.8
16 Klamath Generation Facility	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8	314.6	314.6	459.8	435.5
17 Klamath Generation Peakings (CT)	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
18 Lancaster	229.9	229.9	237.9	233.8	237.7	254.0	253.1	238.6	236.7	154.1	154.1	87.5	148.2	227.9	211.6
19 Langley Gulch CT	285.0	285.0	285.0	285.0	285.0	285.0	285.0	285.0	285.0	285.0	285.0	195.0	195.0	285.0	270.0
20 Mint Farm Energy Center	270.8	270.8	274.1	279.5	283.9	285.6	285.6	284.2	282.8	281.2	0.0	187.7	184.7	271.6	252.7
21 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
22 Olympic View	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	3.2	3.2	5.0	4.7
23 Pasco Peak Power Plant	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24 Port Westward	566.3	566.3	566.6	575.8	583.7	588.6	589.2	587.0	583.0	576.8	576.8	446.0	440.9	564.6	555.6
25 Rathdrum	131.8	131.8	135.4	148.2	159.6	165.3	167.2	163.4	159.6	153.9	153.9	95.4	87.8	138.7	142.1
26 River Road	235.6	235.6	235.6	235.6	235.6	235.6	235.6	235.6	235.6	235.6	235.6	86.8	235.6	235.6	223.0
27 Satsop Combustion Turbine Project	617.5	617.5	617.5	617.5	617.5	617.5	617.5	617.5	617.5	617.5	617.5	227.5	617.5	617.5	584.4
28 University of Washington Power Plant	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	9.8	9.8	14.3	13.5
29 Whitehorn	139.7	139.7	141.9	145.8	149.5	152.0	152.5	150.5	148.9	147.0	0.0	96.3	93.8	139.7	132.0
30 Total Thermal - Natural Gas	6099	6106	6170	6230	6360	6438	6444	6381	6327	6207	5198	3792	4432	6101	5871

Regional: Thermal - Natural Gas
Operating Year: 2022 Water Year: 1937
2018 White Book Report Date: 12/1/2018
S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Thermal - Natural Gas															
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	470.3	476.9	486.4	495.9	502.6	502.6	499.7	495.9	490.2	490.2	483.6	318.2	311.6	470.3	461.0
3 Bennett Mountain Peaking Plant	153.0	153.0	155.8	159.6	162.5	169.1	169.1	164.4	158.7	159.6	159.6	104.3	101.5	153.0	150.8
4 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
5 Carty Generating Station	374.0	374.0	378.0	383.0	392.0	399.0	401.0	396.0	390.0	384.0	384.0	379.0	376.0	374.0	385.4
6 Chehalis Generation Facility	459.7	459.7	465.4	474.9	483.5	487.3	488.2	485.4	482.5	477.8	477.8	471.1	157.1	459.7	449.7
7 Dave Gates Generating Station	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	97.5	97.5	142.5	135.0
8 Encogen	156.5	156.5	158.9	163.8	168.0	171.0	171.6	169.2	167.4	165.0	165.0	111.0	107.9	156.5	155.5
9 Evander Andrews Complex	236.6	236.6	241.3	246.1	250.8	261.3	261.3	252.7	245.1	247.0	247.0	161.7	157.9	235.6	233.1
10 Frederickson CT	252.0	252.0	255.0	259.3	263.1	264.7	265.2	263.5	262.6	260.7	0.0	45.3	170.9	252.7	223.6
11 Frederickson Power Project	138.8	138.8	141.3	145.4	149.5	151.5	152.0	149.9	148.9	147.0	147.0	95.8	92.7	139.3	137.6
12 Fredonia	296.2	296.2	300.9	310.0	318.4	324.2	325.3	320.8	317.2	312.6	0.0	50.8	198.3	296.2	267.7
13 Goldendale Energy Center	244.2	244.2	248.9	252.7	257.5	261.3	260.3	258.4	255.6	253.7	253.7	42.5	164.5	244.2	228.4
14 Grimes Way	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	2.6	2.6	3.8	3.6
15 Kettle Falls Station (CT)	8.1	8.1	9.0	9.5	9.5	10.5	10.5	10.5	9.5	9.5	9.5	5.3	5.3	8.1	8.8
16 Klamath Generation Facility	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8	314.6	314.6	459.8	435.5
17 Klamath Generation Peakings (CT)	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
18 Lancaster	229.9	229.9	237.9	233.8	237.7	254.0	253.1	238.6	236.7	154.1	154.1	72.9	148.2	227.9	210.3
19 Langley Gulch CT	285.0	285.0	285.0	285.0	285.0	285.0	285.0	285.0	285.0	285.0	285.0	195.0	195.0	285.0	270.0
20 Mint Farm Energy Center	270.8	270.8	274.1	279.5	283.9	285.6	285.6	284.2	282.8	281.2	0.0	187.7	184.7	271.6	252.7
21 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
22 Olympic View	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	3.2	3.2	5.0	4.7
23 Pasco Peak Power Plant	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24 Port Westward	566.3	566.3	566.6	575.8	583.7	588.6	589.2	587.0	583.0	576.8	576.8	446.0	440.9	564.6	555.6
25 Rathdrum	131.8	131.8	135.4	148.2	159.6	165.3	167.2	163.4	159.6	153.9	153.9	95.4	87.8	138.7	142.1
26 River Road	235.6	235.6	235.6	235.6	235.6	235.6	235.6	235.6	235.6	235.6	235.6	86.8	235.6	235.6	223.0
27 Satsop Combustion Turbine Project	617.5	617.5	617.5	617.5	617.5	617.5	617.5	617.5	617.5	617.5	617.5	227.5	617.5	617.5	584.4
28 University of Washington Power Plant	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	9.8	9.8	14.3	13.5
29 Whitehorn	139.7	139.7	141.9	145.8	149.5	152.0	152.5	150.5	148.9	147.0	0.0	96.3	93.8	139.7	132.0
30 Total Thermal - Natural Gas	6099	6106	6170	6230	6360	6438	6444	6381	6327	6207	5198	3777	4432	6101	5870

Regional: Thermal - Natural Gas
Operating Year: 2023 Water Year: 1937
2018 White Book Report Date: 12/1/2018
S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Thermal - Natural Gas															
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	470.3	476.9	486.4	495.9	502.6	502.6	499.7	495.9	490.2	490.2	483.6	318.2	311.6	470.3	461.0
3 Bennett Mountain Peaking Plant	153.0	153.0	155.8	159.6	162.5	169.1	169.1	164.4	158.7	159.6	159.6	104.3	101.5	153.0	150.8
4 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
5 Carty Generating Station	374.0	374.0	378.0	383.0	392.0	399.0	401.0	396.0	390.0	384.0	384.0	379.0	376.0	374.0	385.4
6 Chehalis Generation Facility	459.7	459.7	465.4	474.9	483.5	487.3	488.2	485.4	482.5	477.8	477.8	471.1	157.1	459.7	449.7
7 Dave Gates Generating Station	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	97.5	97.5	142.5	135.0
8 Encogen	156.5	156.5	158.9	163.8	168.0	171.0	171.6	169.2	167.4	165.0	165.0	111.0	107.9	156.5	155.5
9 Evander Andrews Complex	236.6	236.6	241.3	246.1	250.8	261.3	261.3	252.7	245.1	247.0	247.0	161.7	157.9	235.6	233.1
10 Frederickson CT	252.0	252.0	204.0	207.4	210.5	211.8	212.2	210.8	210.1	208.6	0.0	36.2	136.7	202.2	183.2
11 Frederickson Power Project	138.8	138.8	141.3	145.4	149.5	151.5	152.0	149.9	148.9	147.0	147.0	95.8	92.7	139.3	137.6
12 Fredonia	296.2	296.2	300.9	310.0	318.4	324.2	325.3	320.8	317.2	312.6	0.0	50.8	198.3	296.2	267.7
13 Goldendale Energy Center	244.2	244.2	248.9	252.7	257.5	261.3	260.3	258.4	255.6	253.7	253.7	42.5	164.5	244.2	228.4
14 Grimes Way	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	2.6	2.6	3.8	3.6
15 Kettle Falls Station (CT)	8.1	8.1	9.0	9.5	9.5	10.5	10.5	10.5	9.5	9.5	9.5	5.3	5.3	8.1	8.8
16 Klamath Generation Facility	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8	314.6	314.6	459.8	435.5
17 Klamath Generation Peakings (CT)	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
18 Lancaster	229.9	229.9	237.9	233.8	237.7	254.0	253.1	238.6	236.7	154.1	154.1	72.9	148.2	227.9	210.3
19 Langley Gulch CT	285.0	285.0	285.0	285.0	285.0	285.0	285.0	285.0	285.0	285.0	285.0	195.0	195.0	285.0	270.0
20 Mint Farm Energy Center	270.8	270.8	274.1	279.5	283.9	285.6	285.6	284.2	282.8	281.2	0.0	187.7	184.7	271.6	252.7
21 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
22 Olympic View	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	3.2	3.2	5.0	4.7
23 Pasco Peak Power Plant	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24 Port Westward	566.3	566.3	566.6	575.8	583.7	588.6	589.2	587.0	583.0	576.8	576.8	446.0	440.9	564.6	555.6
25 Rathdrum	131.8	131.8	135.4	148.2	159.6	165.3	167.2	163.4	159.6	153.9	153.9	95.4	87.8	138.7	142.1
26 River Road	235.6	235.6	235.6	235.6	235.6	235.6	235.6	235.6	235.6	235.6	235.6	86.8	235.6	235.6	223.0
27 Satsop Combustion Turbine Project	617.5	617.5	617.5	617.5	617.5	617.5	617.5	617.5	617.5	617.5	617.5	227.5	617.5	617.5	584.4
28 University of Washington Power Plant	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	9.8	9.8	14.3	13.5
29 Whitehorn	139.7	139.7	141.9	145.8	149.5	152.0	152.5	150.5	148.9	147.0	0.0	96.3	93.8	139.7	132.0
30 Total Thermal - Natural Gas	6099	6106	6119	6178	6307	6385	6391	6328	6274	6154	5198	3768	4398	6051	5830

Regional: Thermal - Natural Gas
Operating Year: 2024 Water Year: 1937
2018 White Book Report Date: 12/1/2018
S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Thermal - Natural Gas															
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	470.3	476.9	486.4	495.9	502.6	502.6	499.7	495.9	490.2	490.2	483.6	318.2	311.6	470.3	461.1
3 Bennett Mountain Peaking Plant	153.0	153.0	155.8	159.6	162.5	169.1	169.1	164.4	158.7	159.6	159.6	104.3	101.5	153.0	150.9
4 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
5 Carty Generating Station	374.0	374.0	378.0	383.0	392.0	399.0	401.0	396.0	390.0	384.0	384.0	379.0	376.0	374.0	385.5
6 Chehalis Generation Facility	459.7	459.7	465.4	474.9	483.5	487.3	488.2	485.4	482.5	477.8	477.8	471.1	157.1	459.7	449.8
7 Dave Gates Generating Station	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	97.5	97.5	142.5	135.0
8 Encogen	156.5	156.5	158.9	163.8	168.0	171.0	171.6	169.2	167.4	165.0	165.0	111.0	107.9	156.5	155.6
9 Evander Andrews Complex	236.6	236.6	241.3	246.1	250.8	261.3	261.3	252.7	245.1	247.0	247.0	161.7	157.9	235.6	233.1
10 Frederickson CT	201.6	201.6	204.0	207.4	210.5	211.8	212.2	210.8	210.1	208.6	0.0	36.2	136.7	202.2	179.0
11 Frederickson Power Project	138.8	138.8	141.3	145.4	149.5	151.5	152.0	149.9	148.9	147.0	147.0	95.8	92.7	139.3	137.7
12 Fredonia	296.2	296.2	300.9	310.0	318.4	324.2	325.3	320.8	317.2	312.6	0.0	50.8	198.3	296.2	267.9
13 Goldendale Energy Center	244.2	244.2	248.9	252.7	257.5	261.3	260.3	258.4	255.6	253.7	253.7	42.5	164.5	244.2	228.5
14 Grimes Way	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	2.6	2.6	3.8	3.6
15 Kettle Falls Station (CT)	8.1	8.1	9.0	9.5	9.5	10.5	10.5	10.5	9.5	9.5	9.5	5.3	5.3	8.1	8.8
16 Klamath Generation Facility	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8	314.6	314.6	459.8	435.6
17 Klamath Generation Peakings (CT)	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
18 Lancaster	229.9	229.9	237.9	233.8	237.7	254.0	253.1	238.6	236.7	154.1	154.1	109.4	118.5	227.9	211.1
19 Langley Gulch CT	285.0	285.0	285.0	285.0	285.0	285.0	285.0	285.0	285.0	285.0	285.0	195.0	195.0	285.0	270.0
20 Mint Farm Energy Center	270.8	270.8	274.1	279.5	283.9	285.6	285.6	284.2	282.8	281.2	0.0	187.7	184.7	271.6	252.8
21 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
22 Olympic View	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	3.2	3.2	5.0	4.7
23 Pasco Peak Power Plant	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24 Port Westward	566.3	566.3	566.6	575.8	583.7	588.6	589.2	587.0	583.0	576.8	576.8	446.0	440.9	564.6	555.7
25 Rathdrum	131.8	131.8	135.4	148.2	159.6	165.3	167.2	163.4	159.6	153.9	153.9	95.4	87.8	138.7	142.2
26 River Road	235.6	235.6	235.6	235.6	235.6	235.6	235.6	235.6	235.6	235.6	235.6	86.8	235.6	235.6	223.0
27 Satsop Combustion Turbine Project	617.5	617.5	617.5	617.5	617.5	617.5	617.5	617.5	617.5	617.5	617.5	227.5	617.5	617.5	584.5
28 University of Washington Power Plant	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	9.8	9.8	14.3	13.6
29 Whitehorn	139.7	139.7	141.9	145.8	149.5	152.0	152.5	150.5	148.9	147.0	0.0	96.3	93.8	139.7	132.1
30 Total Thermal - Natural Gas	6049	6055	6119	6178	6307	6385	6391	6328	6274	6154	5198	3805	4368	6051	5827

Regional: Thermal - Natural Gas
Operating Year: 2025 Water Year: 1937
2018 White Book Report Date: 12/1/2018
S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Thermal - Natural Gas															
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	470.3	476.9	486.4	495.9	502.6	502.6	499.7	495.9	490.2	490.2	483.6	318.2	311.6	470.3	461.0
3 Bennett Mountain Peaking Plant	153.0	153.0	155.8	159.6	162.5	169.1	169.1	164.4	158.7	159.6	159.6	104.3	101.5	153.0	150.8
4 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
5 Carty Generating Station	374.0	374.0	378.0	383.0	392.0	399.0	401.0	396.0	390.0	384.0	384.0	379.0	376.0	374.0	385.4
6 Chehalis Generation Facility	459.7	459.7	465.4	474.9	483.5	487.3	488.2	485.4	482.5	477.8	477.8	471.1	157.1	459.7	449.7
7 Dave Gates Generating Station	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	97.5	97.5	142.5	135.0
8 Encogen	156.5	156.5	158.9	163.8	168.0	171.0	171.6	169.2	167.4	165.0	165.0	111.0	107.9	156.5	155.5
9 Evander Andrews Complex	236.6	236.6	241.3	246.1	250.8	261.3	261.3	252.7	245.1	247.0	247.0	161.7	157.9	235.6	233.1
10 Frederickson CT	201.6	201.6	204.0	207.4	210.5	211.8	212.2	210.8	210.1	208.6	0.0	36.2	136.7	202.2	178.9
11 Frederickson Power Project	138.8	138.8	141.3	145.4	149.5	151.5	152.0	149.9	148.9	147.0	147.0	95.8	92.7	139.3	137.6
12 Fredonia	296.2	296.2	300.9	310.0	318.4	324.2	325.3	320.8	317.2	312.6	0.0	50.8	198.3	296.2	267.7
13 Goldendale Energy Center	244.2	244.2	248.9	252.7	257.5	261.3	260.3	258.4	255.6	253.7	253.7	42.5	164.5	244.2	228.4
14 Grimes Way	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	2.6	2.6	3.8	3.6
15 Kettle Falls Station (CT)	8.1	8.1	9.0	9.5	9.5	10.5	10.5	10.5	9.5	9.5	9.5	5.3	5.3	8.1	8.8
16 Klamath Generation Facility	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8	314.6	314.6	459.8	435.5
17 Klamath Generation Peakings (CT)	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
18 Lancaster	229.9	229.9	237.9	233.8	237.7	254.0	253.1	238.6	236.7	154.1	154.1	87.5	148.2	227.9	211.6
19 Langley Gulch CT	285.0	285.0	285.0	285.0	285.0	285.0	285.0	285.0	285.0	285.0	285.0	195.0	195.0	285.0	270.0
20 Mint Farm Energy Center	270.8	270.8	274.1	279.5	283.9	285.6	285.6	284.2	282.8	281.2	0.0	187.7	184.7	271.6	252.7
21 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
22 Olympic View	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	3.2	3.2	5.0	4.7
23 Pasco Peak Power Plant	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24 Port Westward	566.3	566.3	566.6	575.8	583.7	588.6	589.2	587.0	583.0	576.8	576.8	446.0	440.9	564.6	555.6
25 Rathdrum	131.8	131.8	135.4	148.2	159.6	165.3	167.2	163.4	159.6	153.9	153.9	95.4	87.8	138.7	142.1
26 River Road	235.6	235.6	235.6	235.6	235.6	235.6	235.6	235.6	235.6	235.6	235.6	86.8	235.6	235.6	223.0
27 Satsop Combustion Turbine Project	617.5	617.5	617.5	617.5	617.5	617.5	617.5	617.5	617.5	617.5	617.5	227.5	617.5	617.5	584.4
28 University of Washington Power Plant	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	9.8	9.8	14.3	13.5
29 Whitehorn	139.7	139.7	141.9	145.8	149.5	152.0	152.5	150.5	148.9	147.0	0.0	96.3	93.8	139.7	132.0
30 Total Thermal - Natural Gas	6049	6055	6119	6178	6307	6385	6391	6328	6274	6154	5198	3783	4398	6051	5827

Regional: Thermal - Natural Gas
Operating Year: 2026 Water Year: 1937
2018 White Book Report Date: 12/1/2018
S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Thermal - Natural Gas															
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	470.3	476.9	486.4	495.9	502.6	502.6	499.7	495.9	490.2	490.2	483.6	318.2	311.6	470.3	461.0
3 Bennett Mountain Peaking Plant	153.0	153.0	155.8	159.6	162.5	169.1	169.1	164.4	158.7	159.6	159.6	104.3	101.5	153.0	150.8
4 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
5 Carty Generating Station	374.0	374.0	378.0	383.0	392.0	399.0	401.0	396.0	390.0	384.0	384.0	379.0	376.0	374.0	385.4
6 Chehalis Generation Facility	459.7	459.7	465.4	474.9	483.5	487.3	488.2	485.4	482.5	477.8	477.8	471.1	157.1	459.7	449.7
7 Dave Gates Generating Station	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	97.5	97.5	142.5	135.0
8 Encogen	156.5	156.5	158.9	163.8	168.0	171.0	171.6	169.2	167.4	165.0	165.0	111.0	107.9	156.5	155.5
9 Evander Andrews Complex	236.6	236.6	241.3	246.1	250.8	261.3	261.3	252.7	245.1	247.0	247.0	161.7	157.9	235.6	233.1
10 Frederickson CT	201.6	201.6	204.0	207.4	210.5	211.8	212.2	210.8	210.1	208.6	0.0	36.2	136.7	202.2	178.9
11 Frederickson Power Project	138.8	138.8	141.3	145.4	149.5	151.5	152.0	149.9	148.9	147.0	147.0	95.8	92.7	139.3	137.6
12 Fredonia	296.2	296.2	300.9	310.0	318.4	324.2	325.3	320.8	317.2	312.6	0.0	50.8	198.3	296.2	267.7
13 Goldendale Energy Center	244.2	244.2	248.9	252.7	257.5	261.3	260.3	258.4	255.6	253.7	253.7	42.5	164.5	244.2	228.4
14 Grimes Way	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	2.6	2.6	3.8	3.6
15 Kettle Falls Station (CT)	8.1	8.1	9.0	9.5	9.5	10.5	10.5	10.5	9.5	9.5	9.5	5.3	5.3	8.1	8.8
16 Klamath Generation Facility	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8	314.6	314.6	459.8	435.5
17 Klamath Generation Peakings (CT)	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
18 Lancaster	229.9	229.9	237.9	233.8	237.7	254.0	253.1	238.6	236.7	154.1	154.1	72.9	148.2	227.9	210.3
19 Langley Gulch CT	285.0	285.0	285.0	285.0	285.0	285.0	285.0	285.0	285.0	285.0	285.0	195.0	195.0	285.0	270.0
20 Mint Farm Energy Center	270.8	270.8	274.1	279.5	283.9	285.6	285.6	284.2	282.8	281.2	0.0	187.7	184.7	271.6	252.7
21 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
22 Olympic View	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	3.2	3.2	5.0	4.7
23 Pasco Peak Power Plant	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24 Port Westward	566.3	566.3	566.6	575.8	583.7	588.6	589.2	587.0	583.0	576.8	576.8	446.0	440.9	564.6	555.6
25 Rathdrum	131.8	131.8	135.4	148.2	159.6	165.3	167.2	163.4	159.6	153.9	153.9	95.4	87.8	138.7	142.1
26 River Road	235.6	235.6	235.6	235.6	235.6	235.6	235.6	235.6	235.6	235.6	235.6	86.8	235.6	235.6	223.0
27 Satsop Combustion Turbine Project	617.5	617.5	617.5	617.5	617.5	617.5	617.5	617.5	617.5	617.5	617.5	227.5	617.5	617.5	584.4
28 University of Washington Power Plant	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	9.8	9.8	14.3	13.5
29 Whitehorn	139.7	139.7	141.9	145.8	149.5	152.0	152.5	150.5	148.9	147.0	0.0	96.3	93.8	139.7	132.0
30 Total Thermal - Natural Gas	6049	6055	6119	6178	6307	6385	6391	6328	6274	6154	5198	3768	4398	6051	5825

Regional: Thermal - Natural Gas
Operating Year: 2027 Water Year: 1937
2018 White Book Report Date: 12/1/2018
S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Thermal - Natural Gas															
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	470.3	476.9	486.4	495.9	502.6	502.6	499.7	495.9	490.2	490.2	483.6	318.2	311.6	470.3	461.0
3 Bennett Mountain Peaking Plant	153.0	153.0	155.8	159.6	162.5	169.1	169.1	164.4	158.7	159.6	159.6	104.3	101.5	153.0	150.8
4 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
5 Carty Generating Station	374.0	374.0	378.0	383.0	392.0	399.0	401.0	396.0	390.0	384.0	384.0	379.0	376.0	374.0	385.4
6 Chehalis Generation Facility	459.7	459.7	465.4	474.9	483.5	487.3	488.2	485.4	482.5	477.8	477.8	471.1	157.1	459.7	449.7
7 Dave Gates Generating Station	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	97.5	97.5	142.5	135.0
8 Encogen	156.5	156.5	158.9	163.8	168.0	171.0	171.6	169.2	167.4	165.0	165.0	111.0	107.9	156.5	155.5
9 Evander Andrews Complex	236.6	236.6	241.3	246.1	250.8	261.3	261.3	252.7	245.1	247.0	247.0	161.7	157.9	235.6	233.1
10 Frederickson CT	201.6	201.6	204.0	207.4	210.5	211.8	212.2	210.8	210.1	208.6	0.0	36.2	136.7	202.2	178.9
11 Frederickson Power Project	138.8	138.8	141.3	145.4	149.5	151.5	152.0	149.9	148.9	147.0	147.0	95.8	92.7	139.3	137.6
12 Fredonia	296.2	296.2	300.9	310.0	318.4	324.2	325.3	320.8	317.2	312.6	0.0	50.8	198.3	296.2	267.7
13 Goldendale Energy Center	244.2	244.2	248.9	252.7	257.5	261.3	260.3	258.4	255.6	253.7	253.7	42.5	164.5	244.2	228.4
14 Grimes Way	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	2.6	2.6	3.8	3.6
15 Kettle Falls Station (CT)	8.1	8.1	9.0	9.5	9.5	10.5	10.5	10.5	9.5	9.5	9.5	5.3	5.3	8.1	8.8
16 Klamath Generation Facility	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8	314.6	314.6	459.8	435.5
17 Klamath Generation Peakings (CT)	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
18 Lancaster	229.9	229.9	237.9	233.8	237.7	254.0	253.1	238.6	236.7	154.1	154.1	72.9	148.2	227.9	210.3
19 Langley Gulch CT	285.0	285.0	285.0	285.0	285.0	285.0	285.0	285.0	285.0	285.0	285.0	195.0	195.0	285.0	270.0
20 Mint Farm Energy Center	270.8	270.8	274.1	279.5	283.9	285.6	285.6	284.2	282.8	281.2	0.0	187.7	184.7	271.6	252.7
21 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
22 Olympic View	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	3.2	3.2	5.0	4.7
23 Pasco Peak Power Plant	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24 Port Westward	566.3	566.3	566.6	575.8	583.7	588.6	589.2	587.0	583.0	576.8	576.8	446.0	440.9	564.6	555.6
25 Rathdrum	131.8	131.8	135.4	148.2	159.6	165.3	167.2	163.4	159.6	153.9	153.9	95.4	87.8	138.7	142.1
26 River Road	235.6	235.6	235.6	235.6	235.6	235.6	235.6	235.6	235.6	235.6	235.6	86.8	235.6	235.6	223.0
27 Satsop Combustion Turbine Project	617.5	617.5	617.5	617.5	617.5	617.5	617.5	617.5	617.5	617.5	617.5	227.5	617.5	617.5	584.4
28 University of Washington Power Plant	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	9.8	9.8	14.3	13.5
29 Whitehorn	139.7	139.7	141.9	145.8	149.5	152.0	152.5	150.5	148.9	147.0	0.0	96.3	93.8	139.7	132.0
30 Total Thermal - Natural Gas	6049	6055	6119	6178	6307	6385	6391	6328	6274	6154	5198	3768	4398	6051	5825

Regional: Thermal - Natural Gas
Operating Year: 2028 Water Year: 1937
2018 White Book Report Date: 12/1/2018
S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Thermal - Natural Gas															
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	470.3	476.9	486.4	495.9	502.6	502.6	499.7	495.9	490.2	490.2	483.6	318.2	311.6	470.3	461.1
3 Bennett Mountain Peaking Plant	153.0	153.0	155.8	159.6	162.5	169.1	169.1	164.4	158.7	159.6	159.6	104.3	101.5	153.0	150.9
4 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
5 Carty Generating Station	374.0	374.0	378.0	383.0	392.0	399.0	401.0	396.0	390.0	384.0	384.0	379.0	376.0	374.0	385.5
6 Chehalis Generation Facility	459.7	459.7	465.4	474.9	483.5	487.3	488.2	485.4	482.5	477.8	477.8	471.1	157.1	459.7	449.8
7 Dave Gates Generating Station	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	97.5	97.5	142.5	135.0
8 Encogen	156.5	156.5	158.9	163.8	168.0	171.0	171.6	169.2	167.4	165.0	165.0	111.0	107.9	156.5	155.6
9 Evander Andrews Complex	236.6	236.6	241.3	246.1	250.8	261.3	261.3	252.7	245.1	247.0	247.0	161.7	157.9	235.6	233.1
10 Frederickson CT	201.6	201.6	204.0	207.4	210.5	211.8	212.2	210.8	210.1	208.6	0.0	36.2	136.7	202.2	179.0
11 Frederickson Power Project	138.8	138.8	141.3	145.4	149.5	151.5	152.0	149.9	148.9	147.0	147.0	95.8	92.7	139.3	137.7
12 Fredonia	296.2	296.2	300.9	310.0	318.4	324.2	325.3	320.8	317.2	312.6	0.0	50.8	198.3	296.2	267.9
13 Goldendale Energy Center	244.2	244.2	248.9	252.7	257.5	261.3	260.3	258.4	255.6	253.7	253.7	42.5	164.5	244.2	228.5
14 Grimes Way	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	2.6	2.6	3.8	3.6
15 Kettle Falls Station (CT)	8.1	8.1	9.0	9.5	9.5	10.5	10.5	10.5	9.5	9.5	9.5	5.3	5.3	8.1	8.8
16 Klamath Generation Facility	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8	314.6	314.6	459.8	435.6
17 Klamath Generation Peakings (CT)	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
18 Lancaster	229.9	229.9	237.9	233.8	237.7	254.0	253.1	238.6	236.7	154.1	154.1	109.4	118.5	227.9	211.1
19 Langley Gulch CT	285.0	285.0	285.0	285.0	285.0	285.0	285.0	285.0	285.0	285.0	285.0	195.0	195.0	285.0	270.0
20 Mint Farm Energy Center	270.8	270.8	274.1	279.5	283.9	285.6	285.6	284.2	282.8	281.2	0.0	187.7	184.7	271.6	252.8
21 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
22 Olympic View	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	3.2	3.2	5.0	4.7
23 Pasco Peak Power Plant	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24 Port Westward	566.3	566.3	566.6	575.8	583.7	588.6	589.2	587.0	583.0	576.8	576.8	446.0	440.9	564.6	555.7
25 Rathdrum	131.8	131.8	135.4	148.2	159.6	165.3	167.2	163.4	159.6	153.9	153.9	95.4	87.8	138.7	142.2
26 River Road	235.6	235.6	235.6	235.6	235.6	235.6	235.6	235.6	235.6	235.6	235.6	86.8	235.6	235.6	223.0
27 Satsop Combustion Turbine Project	617.5	617.5	617.5	617.5	617.5	617.5	617.5	617.5	617.5	617.5	617.5	227.5	617.5	617.5	584.5
28 University of Washington Power Plant	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	9.8	9.8	14.3	13.6
29 Whitehorn	139.7	139.7	141.9	145.8	149.5	152.0	152.5	150.5	148.9	147.0	0.0	96.3	93.8	139.7	132.1
30 Total Thermal - Natural Gas	6049	6055	6119	6178	6307	6385	6391	6328	6274	6154	5198	3805	4368	6051	5827

Regional: Thermal - Natural Gas
Operating Year: 2029 Water Year: 1937
2018 White Book Report Date: 12/1/2018
S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Thermal - Natural Gas															
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	470.3	476.9	486.4	495.9	502.6	502.6	499.7	495.9	490.2	490.2	483.6	318.2	311.6	470.3	461.0
3 Bennett Mountain Peaking Plant	153.0	153.0	155.8	159.6	162.5	169.1	169.1	164.4	158.7	159.6	159.6	104.3	101.5	153.0	150.8
4 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
5 Carty Generating Station	374.0	374.0	378.0	383.0	392.0	399.0	401.0	396.0	390.0	384.0	384.0	379.0	376.0	374.0	385.4
6 Chehalis Generation Facility	459.7	459.7	465.4	474.9	483.5	487.3	488.2	485.4	482.5	477.8	477.8	471.1	157.1	459.7	449.7
7 Dave Gates Generating Station	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	142.5	97.5	97.5	142.5	135.0
8 Encogen	156.5	156.5	158.9	163.8	168.0	171.0	171.6	169.2	167.4	165.0	165.0	111.0	107.9	156.5	155.5
9 Evander Andrews Complex	236.6	236.6	241.3	246.1	250.8	261.3	261.3	252.7	245.1	247.0	247.0	161.7	157.9	235.6	233.1
10 Frederickson CT	201.6	201.6	204.0	207.4	210.5	211.8	212.2	210.8	210.1	208.6	0.0	36.2	136.7	202.2	178.9
11 Frederickson Power Project	138.8	138.8	141.3	145.4	149.5	151.5	152.0	149.9	148.9	147.0	147.0	95.8	92.7	139.3	137.6
12 Fredonia	296.2	296.2	300.9	310.0	318.4	324.2	325.3	320.8	317.2	312.6	0.0	50.8	198.3	296.2	267.7
13 Goldendale Energy Center	244.2	244.2	248.9	252.7	257.5	261.3	260.3	258.4	255.6	253.7	253.7	42.5	164.5	244.2	228.4
14 Grimes Way	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	2.6	2.6	3.8	3.6
15 Kettle Falls Station (CT)	8.1	8.1	9.0	9.5	9.5	10.5	10.5	10.5	9.5	9.5	9.5	5.3	5.3	8.1	8.8
16 Klamath Generation Facility	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8	314.6	314.6	459.8	435.5
17 Klamath Generation Peakings (CT)	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
18 Lancaster	229.9	229.9	237.9	233.8	237.7	254.0	253.1	238.6	236.7	154.1	154.1	87.5	148.2	227.9	211.6
19 Langley Gulch CT	285.0	285.0	285.0	285.0	285.0	285.0	285.0	285.0	285.0	285.0	285.0	195.0	195.0	285.0	270.0
20 Mint Farm Energy Center	270.8	270.8	274.1	279.5	283.9	285.6	285.6	284.2	282.8	281.2	0.0	187.7	184.7	271.6	252.7
21 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
22 Olympic View	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	3.2	3.2	5.0	4.7
23 Pasco Peak Power Plant	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24 Port Westward	566.3	566.3	566.6	575.8	583.7	588.6	589.2	587.0	583.0	576.8	576.8	446.0	440.9	564.6	555.6
25 Rathdrum	131.8	131.8	135.4	148.2	159.6	165.3	167.2	163.4	159.6	153.9	153.9	95.4	87.8	138.7	142.1
26 River Road	235.6	235.6	235.6	235.6	235.6	235.6	235.6	235.6	235.6	235.6	235.6	86.8	235.6	235.6	223.0
27 Satsop Combustion Turbine Project	617.5	617.5	617.5	617.5	617.5	617.5	617.5	617.5	617.5	617.5	617.5	227.5	617.5	617.5	584.4
28 University of Washington Power Plant	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	9.8	9.8	14.3	13.5
29 Whitehorn	139.7	139.7	141.9	145.8	149.5	152.0	152.5	150.5	148.9	147.0	0.0	96.3	93.8	139.7	132.0
30 Total Thermal - Natural Gas	6049	6055	6119	6178	6307	6385	6391	6328	6274	6154	5198	3783	4398	6051	5827

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Exhibit 39
Regional Thermal - Petroleum

Monthly Energy
Operating Year 2020 to 2029

Regional: Thermal - Petroleum
Operating Year: 2020 Water Year: 1937
2018 White Book Report Date: 12/1/2018
 S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Thermal - Petroleum															
1 Bangor Submarine Base	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 Boundary IC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3 Crystal Mountain	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4 Puget Sound Shipyards Diesel Generators	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5 Salmon Diesel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6 Total Thermal - Petroleum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Regional: Thermal - Petroleum
Operating Year: 2021 Water Year: 1937
2018 White Book Report Date: 12/1/2018
S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Thermal - Petroleum															
1 Bangor Submarine Base	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 Boundary IC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3 Crystal Mountain	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4 Puget Sound Shipyards Diesel Generators	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5 Salmon Diesel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6 Total Thermal - Petroleum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Regional: Thermal - Petroleum
Operating Year: 2022 Water Year: 1937
2018 White Book Report Date: 12/1/2018
 S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Thermal - Petroleum															
1 Bangor Submarine Base	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 Boundary IC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3 Crystal Mountain	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4 Puget Sound Shipyards Diesel Generators	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5 Salmon Diesel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6 Total Thermal - Petroleum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Regional: Thermal - Petroleum
Operating Year: 2023 Water Year: 1937
2018 White Book Report Date: 12/1/2018
 S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Thermal - Petroleum															
1 Bangor Submarine Base	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 Boundary IC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3 Crystal Mountain	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4 Puget Sound Shipyards Diesel Generators	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5 Salmon Diesel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6 Total Thermal - Petroleum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Regional: Thermal - Petroleum
Operating Year: 2024 Water Year: 1937
2018 White Book Report Date: 12/1/2018
 S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Thermal - Petroleum															
1 Bangor Submarine Base	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 Boundary IC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3 Crystal Mountain	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4 Puget Sound Shipyards Diesel Generators	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5 Salmon Diesel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6 Total Thermal - Petroleum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Regional: Thermal - Petroleum
Operating Year: 2025 Water Year: 1937
2018 White Book Report Date: 12/1/2018
 S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Thermal - Petroleum															
1 Bangor Submarine Base	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 Boundary IC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3 Crystal Mountain	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4 Puget Sound Shipyards Diesel Generators	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5 Salmon Diesel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6 Total Thermal - Petroleum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Regional: Thermal - Petroleum
Operating Year: 2026 Water Year: 1937
2018 White Book Report Date: 12/1/2018
 S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Thermal - Petroleum															
1 Bangor Submarine Base	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 Boundary IC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3 Crystal Mountain	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4 Puget Sound Shipyards Diesel Generators	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5 Salmon Diesel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6 Total Thermal - Petroleum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Regional: Thermal - Petroleum
Operating Year: 2027 Water Year: 1937
2018 White Book Report Date: 12/1/2018
 S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Thermal - Petroleum															
1 Bangor Submarine Base	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 Boundary IC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3 Crystal Mountain	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4 Puget Sound Shipyards Diesel Generators	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5 Salmon Diesel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6 Total Thermal - Petroleum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Regional: Thermal - Petroleum
Operating Year: 2028 Water Year: 1937
2018 White Book Report Date: 12/1/2018
 S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Thermal - Petroleum															
1 Bangor Submarine Base	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 Boundary IC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3 Crystal Mountain	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4 Puget Sound Shipyards Diesel Generators	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5 Salmon Diesel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6 Total Thermal - Petroleum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Regional: Thermal - Petroleum
Operating Year: 2029 Water Year: 1937
2018 White Book Report Date: 12/1/2018
 S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Thermal - Petroleum															
1 Bangor Submarine Base	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 Boundary IC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3 Crystal Mountain	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4 Puget Sound Shipyards Diesel Generators	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5 Salmon Diesel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6 Total Thermal - Petroleum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Exhibit 40
Regional Thermal - Biofuel

Monthly Energy
Operating Year 2020 to 2029

Regional: Thermal - Biofuel
Operating Year: 2020 Water Year: 1937
2018 White Book Report Date: 12/1/2018
S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Thermal - Biofuel															
1 Covanta Marion Solid Waste	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7
2 Pocatello Waste	0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.1	0.2	0.2
3 Spokane MSW	13.8	13.8	15.6	16.8	17.2	14.7	14.4	14.5	17.1	15.6	15.6	17.3	15.2	15.9	15.7
4 West Boise Waste	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
5 Total Thermal - Biofuel	24	24	26	27	27	25	24	25	27	26	26	27	25	26	26

Regional: Thermal - Biofuel
Operating Year: 2021 Water Year: 1937
2018 White Book Report Date: 12/1/2018
 S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Thermal - Biofuel															
1 Covanta Marion Solid Waste	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7
2 Pocatello Waste	0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.1	0.2	0.2
3 Spokane MSW	13.8	13.8	15.6	16.8	17.2	14.7	14.4	14.5	17.1	15.6	15.6	17.3	15.2	15.9	15.7
4 West Boise Waste	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
5 Total Thermal - Biofuel	24	24	26	27	27	25	24	25	27	26	26	27	25	26	26

Regional: Thermal - Biofuel
Operating Year: 2022 Water Year: 1937
2018 White Book Report Date: 12/1/2018
 S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Thermal - Biofuel															
1 Covanta Marion Solid Waste	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7
2 Pocatello Waste	0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.1	0.2	0.2
3 Spokane MSW	13.8	13.8	15.6	16.8	17.2	14.7	14.4	14.5	17.1	15.6	15.6	17.3	15.2	15.9	15.7
4 West Boise Waste	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
5 Total Thermal - Biofuel	24	24	26	27	27	25	24	25	27	26	26	27	25	26	26

Regional: Thermal - Biofuel
Operating Year: 2023 Water Year: 1937
2018 White Book Report Date: 12/1/2018
S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Thermal - Biofuel															
1 Covanta Marion Solid Waste	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7
2 Pocatello Waste	0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.1	0.2	0.2
3 Spokane MSW	13.8	13.8	15.6	16.8	17.2	14.7	14.4	14.5	17.1	15.6	15.6	17.3	15.2	15.9	15.7
4 West Boise Waste	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
5 Total Thermal - Biofuel	24	24	26	27	27	25	24	25	27	26	26	27	25	26	26

Regional: Thermal - Biofuel
Operating Year: 2024 Water Year: 1937
2018 White Book Report Date: 12/1/2018
S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Thermal - Biofuel															
1 Covanta Marion Solid Waste	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7
2 Pocatello Waste	0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.1	0.2	0.2
3 Spokane MSW	13.8	13.8	15.6	16.8	17.2	14.7	14.4	14.5	17.1	15.6	15.6	17.3	15.2	15.9	15.7
4 West Boise Waste	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
5 Total Thermal - Biofuel	24	24	26	27	27	25	24	25	27	26	26	27	25	26	26

Regional: Thermal - Biofuel
Operating Year: 2025 Water Year: 1937
2018 White Book Report Date: 12/1/2018
S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Thermal - Biofuel															
1 Covanta Marion Solid Waste	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7
2 Pocatello Waste	0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.1	0.2	0.2
3 Spokane MSW	13.8	13.8	15.6	16.8	17.2	14.7	14.4	14.5	17.1	15.6	15.6	17.3	15.2	15.9	15.7
4 West Boise Waste	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
5 Total Thermal - Biofuel	24	24	26	27	27	25	24	25	27	26	26	27	25	26	26

Regional: Thermal - Biofuel
Operating Year: 2026 Water Year: 1937
2018 White Book Report Date: 12/1/2018
 S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Thermal - Biofuel															
1 Covanta Marion Solid Waste	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7
2 Pocatello Waste	0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.1	0.2	0.2
3 Spokane MSW	13.8	13.8	15.6	16.8	17.2	14.7	14.4	14.5	17.1	15.6	15.6	17.3	15.2	15.9	15.7
4 West Boise Waste	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
5 Total Thermal - Biofuel	24	24	26	27	27	25	24	25	27	26	26	27	25	26	26

Regional: Thermal - Biofuel
Operating Year: 2027 Water Year: 1937
2018 White Book Report Date: 12/1/2018
S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Thermal - Biofuel															
1 Covanta Marion Solid Waste	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7
2 Pocatello Waste	0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.1	0.2	0.2
3 Spokane MSW	13.8	13.8	15.6	16.8	17.2	14.7	14.4	14.5	17.1	15.6	15.6	17.3	15.2	15.9	15.7
4 West Boise Waste	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
5 Total Thermal - Biofuel	24	24	26	27	27	25	24	25	27	26	26	27	25	26	26

Regional: Thermal - Biofuel
Operating Year: 2028 Water Year: 1937
2018 White Book Report Date: 12/1/2018
S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Thermal - Biofuel															
1 Covanta Marion Solid Waste	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7
2 Pocatello Waste	0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.1	0.2	0.2
3 Spokane MSW	13.8	13.8	15.6	16.8	17.2	14.7	14.4	14.5	17.1	15.6	15.6	17.3	15.2	15.9	15.7
4 West Boise Waste	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
5 Total Thermal - Biofuel	24	24	26	27	27	25	24	25	27	26	26	27	25	26	26

Regional: Thermal - Biofuel
Operating Year: 2029 Water Year: 1937
2018 White Book Report Date: 12/1/2018
S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Thermal - Biofuel															
1 Covanta Marion Solid Waste	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7
2 Pocatello Waste	0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.1	0.2	0.2
3 Spokane MSW	13.8	13.8	15.6	16.8	17.2	14.7	14.4	14.5	17.1	15.6	15.6	17.3	15.2	15.9	15.7
4 West Boise Waste	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
5 Total Thermal - Biofuel	24	24	26	27	27	25	24	25	27	26	26	27	25	26	26

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Exhibit 41
Regional Thermal - Cogeneration

Monthly Energy
Operating Year 2020 to 2029

Regional: Thermal - Cogeneration
Operating Year: 2020 Water Year: 1937
2018 White Book Report Date: 12/1/2018
S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Thermal - Cogeneration															
1 Boise Cascade Medford	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 Cogen Co	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
3 Cogen Co 2	6.0	6.0	5.8	6.0	5.8	6.0	6.0	5.6	6.0	7.2	0.0	6.0	5.8	6.0	5.7
4 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
5 Coyote Springs	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0
6 Coyote Springs 2	274.5	274.5	280.0	287.6	303.2	313.3	312.3	305.8	293.5	286.6	286.6	262.7	259.7	267.5	287.2
7 Evergreen Biopower Cogen	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
8 Ferndale Cogeneration Station	238.1	238.1	240.6	245.4	249.7	252.8	253.4	250.9	249.1	246.7	246.7	0.0	240.6	238.1	225.1
9 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
10 Haleywest L.L.C	4.5	4.5	4.2	4.6	4.4	4.4	4.0	4.0	4.2	3.7	3.7	4.2	4.3	3.9	4.2
11 Hampton Lumber Mill (Darrington)	1.9	1.9	2.0	2.4	2.5	2.5	2.4	2.5	2.6	2.2	2.2	1.0	0.8	1.6	2.0
12 Hermiston Generation Project	435.9	435.9	441.7	413.2	420.7	466.5	429.0	460.6	336.7	418.2	0.0	395.5	406.3	398.8	401.2
13 Hermiston Power Project	619.6	619.6	619.6	619.6	619.6	619.6	619.6	619.6	0.0	619.6	619.6	619.6	619.6	619.6	567.2
14 InterFor Pacific - Gilchrist	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
15 International Paper Energy Center	18.1	18.1	13.1	19.4	19.1	21.6	21.0	19.9	20.4	12.0	12.0	9.1	7.0	16.1	16.4
16 Longview Fibre Paper & Packaging	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
17 March Point Cogeneration	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0
18 Nippon Paper Cogen (Port Angeles)	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
19 Oregon State University Energy Center	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
20 Port Townsend Mill	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
21 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
22 Rupert Cogeneration Facility	7.5	7.5	8.0	9.4	9.4	8.6	8.2	9.1	9.1	7.7	7.7	7.5	8.0	8.0	8.4
23 SDS Lumber	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
24 Seneca Sawmill Cogen	13.7	13.7	13.4	14.0	14.0	13.1	13.6	13.9	13.6	13.8	13.8	9.0	13.1	12.9	13.2
25 Sierra Pacific - Abberdeen	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
26 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
27 Simplot Pocatello	9.1	9.1	9.4	8.4	8.7	8.7	8.7	8.6	9.1	8.5	8.5	8.9	1.2	7.9	8.1
28 Sumas	124.7	124.7	125.9	128.5	130.7	132.3	132.6	131.4	130.4	129.1	0.0	127.5	125.9	124.7	123.3
29 Sumas Compressor Station	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
30 Tacoma Biomass (WestRock)	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
31 Tamarack	3.9	3.9	3.9	3.2	3.3	2.7	3.0	2.6	2.8	2.9	2.9	3.3	3.5	3.8	3.2
32 TASCO - Nampa	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0
33 TASCO - Twin Falls	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
34 Thompson River Co-Gen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35 Vaagen Bros.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
36 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
37 Warm Springs Cogen	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
38 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
39 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
40 Total Thermal - Cogeneration	2425	2425	2429	2422	2470	2536	2499	2517	1737	2421	1867	2110	2353	2385	2334

Regional: Thermal - Cogeneration
Operating Year: 2021 Water Year: 1937
2018 White Book Report Date: 12/1/2018
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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Thermal - Cogeneration															
1 Boise Cascade Medford	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 Cogen Co	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
3 Cogen Co 2	6.0	6.0	5.8	6.0	5.8	6.0	6.0	5.4	6.0	7.2	0.0	6.0	5.8	6.0	5.7
4 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
5 Coyote Springs	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0
6 Coyote Springs 2	274.5	274.5	280.0	287.6	303.2	313.3	312.3	305.8	293.5	286.6	286.6	262.7	259.7	267.5	287.1
7 Evergreen Biopower Cogen	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
8 Ferndale Cogeneration Station	238.1	238.1	240.6	245.4	249.7	252.8	253.4	250.9	249.1	246.7	246.7	0.0	240.6	238.1	225.0
9 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
10 Haleywest L.L.C	4.5	4.5	4.2	4.6	4.4	4.4	4.0	4.0	4.2	3.7	3.7	4.2	4.3	3.9	4.2
11 Hampton Lumber Mill (Darrington)	1.9	1.9	2.0	2.4	2.5	2.5	2.4	2.5	2.6	2.2	2.2	1.0	0.8	1.6	2.0
12 Hermiston Generation Project	435.9	435.9	441.7	413.2	458.5	466.5	426.6	460.8	335.0	412.0	0.0	412.2	409.4	431.5	408.0
13 Hermiston Power Project	619.6	619.6	619.6	619.6	619.6	619.6	619.6	619.6	0.0	619.6	619.6	619.6	619.6	619.6	567.1
14 InterFor Pacific - Gilchrist	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
15 International Paper Energy Center	18.1	18.1	13.1	19.4	19.1	21.6	21.0	19.9	20.4	11.9	11.9	9.1	7.0	16.1	16.4
16 Longview Fibre Paper & Packaging	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
17 March Point Cogeneration	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0
18 Nippon Paper Cogen (Port Angeles)	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
19 Oregon State University Energy Center	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
20 Port Townsend Mill	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
21 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
22 Rupert Cogeneration Facility	7.5	7.5	8.0	9.4	9.4	8.6	8.2	9.1	9.1	7.7	7.7	7.5	8.0	8.0	8.4
23 SDS Lumber	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
24 Seneca Sawmill Cogen	13.7	13.7	13.4	14.0	14.0	13.1	13.6	13.9	13.6	13.8	13.8	9.0	13.1	12.9	13.2
25 Sierra Pacific - Abberdeen	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
26 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
27 Simplot Pocatello	9.1	9.1	9.4	8.4	8.7	8.7	8.7	8.6	9.1	8.5	8.5	8.9	1.2	7.9	8.1
28 Sumas	124.7	124.7	125.9	128.5	130.7	132.3	132.6	131.4	130.4	129.1	0.0	127.5	125.9	124.7	123.3
29 Sumas Compressor Station	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
30 Tacoma Biomass (WestRock)	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
31 Tamarack	3.9	3.9	3.9	3.2	3.3	2.7	3.0	2.6	2.8	2.9	2.9	3.3	3.5	3.8	3.2
32 TASCO - Nampa	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0
33 TASCO - Twin Falls	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
34 Thompson River Co-Gen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35 Vaagen Bros.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
36 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
37 Warm Springs Cogen	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
38 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
39 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
40 Total Thermal - Cogeneration	2425	2425	2429	2422	2507	2536	2497	2517	1736	2415	1867	2126	2356	2418	2341

Regional: Thermal - Cogeneration
Operating Year: 2022 Water Year: 1937
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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Thermal - Cogeneration															
1 Boise Cascade Medford	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 Cogen Co	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
3 Cogen Co 2	6.0	6.0	5.8	6.0	5.8	6.0	6.0	5.4	6.0	7.2	0.0	6.0	5.8	6.0	5.7
4 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
5 Coyote Springs	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0
6 Coyote Springs 2	274.5	274.5	280.0	287.6	303.2	313.3	312.3	305.8	293.5	286.6	286.6	262.7	259.7	267.5	287.1
7 Evergreen Biopower Cogen	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
8 Ferndale Cogeneration Station	238.1	238.1	240.6	245.4	249.7	252.8	253.4	250.9	249.1	246.7	246.7	0.0	240.6	238.1	225.0
9 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
10 Haleywest L.L.C	4.5	4.5	4.2	4.6	4.4	4.4	4.0	4.0	4.2	3.7	3.7	4.2	4.3	3.9	4.2
11 Hampton Lumber Mill (Darrington)	1.9	1.9	2.0	2.4	2.5	2.5	2.4	2.5	2.6	2.2	2.2	1.0	0.8	1.6	2.0
12 Hermiston Generation Project	435.0	435.0	404.1	419.5	457.7	465.5	426.1	459.8	453.9	44.8	0.0	402.3	408.2	430.7	399.1
13 Hermiston Power Project	619.6	619.6	619.6	619.6	619.6	619.6	619.6	619.6	0.0	619.6	619.6	619.6	619.6	619.6	567.1
14 InterFor Pacific - Gilchrist	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
15 International Paper Energy Center	18.1	18.1	13.1	19.4	19.1	21.6	21.0	19.9	20.4	11.9	11.9	9.1	7.0	16.1	16.4
16 Longview Fibre Paper & Packaging	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
17 March Point Cogeneration	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0
18 Nippon Paper Cogen (Port Angeles)	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
19 Oregon State University Energy Center	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
20 Port Townsend Mill	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
21 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
22 Rupert Cogeneration Facility	7.5	7.5	8.0	9.4	9.4	8.6	8.2	9.1	9.1	7.7	7.7	7.5	8.0	8.0	8.4
23 SDS Lumber	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
24 Seneca Sawmill Cogen	13.7	13.7	13.4	14.0	14.0	13.1	13.6	13.9	13.6	13.8	13.8	9.0	13.1	12.9	13.2
25 Sierra Pacific - Abberdeen	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
26 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
27 Simplot Pocatello	9.1	9.1	9.4	8.4	8.7	8.7	8.7	8.6	9.1	8.5	8.5	8.9	1.2	7.9	8.1
28 Sumas	124.7	124.7	125.9	128.5	130.7	132.3	132.6	131.4	130.4	129.1	0.0	127.5	125.9	124.7	123.3
29 Sumas Compressor Station	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
30 Tacoma Biomass (WestRock)	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
31 Tamarack	3.9	3.9	3.9	3.2	3.3	2.7	3.0	2.6	2.8	2.9	2.9	3.3	3.5	3.8	3.2
32 TASCO - Nampa	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0
33 TASCO - Twin Falls	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
34 Thompson River Co-Gen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35 Vaagen Bros.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
36 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
37 Warm Springs Cogen	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
38 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
39 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
40 Total Thermal - Cogeneration	2424	2424	2391	2428	2507	2535	2496	2516	1855	2048	1867	2116	2355	2417	2332

Regional: Thermal - Cogeneration
Operating Year: 2023 Water Year: 1937
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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Thermal - Cogeneration															
1 Boise Cascade Medford	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 Cogen Co	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
3 Cogen Co 2	6.0	6.0	5.8	6.0	5.8	6.0	6.0	5.4	6.0	7.2	0.0	6.0	5.8	6.0	5.7
4 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
5 Coyote Springs	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0
6 Coyote Springs 2	274.5	274.5	280.0	287.6	303.2	313.3	312.3	305.8	293.5	286.6	286.6	262.7	259.7	267.5	287.1
7 Evergreen Biopower Cogen	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
8 Ferndale Cogeneration Station	238.1	238.1	240.6	245.4	249.7	252.8	253.4	250.9	249.1	246.7	246.7	0.0	240.6	238.1	225.0
9 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
10 Haleywest L.L.C	4.5	4.5	4.2	4.6	4.4	4.4	4.0	4.0	4.2	3.7	3.7	4.2	4.3	3.9	4.2
11 Hampton Lumber Mill (Darrington)	1.9	1.9	2.0	2.4	2.5	2.5	2.4	2.5	2.6	2.2	2.2	1.0	0.8	1.6	2.0
12 Hermiston Generation Project	435.9	435.9	441.7	413.2	420.7	466.5	429.0	460.6	336.7	418.2	0.0	395.5	406.3	398.8	401.0
13 Hermiston Power Project	619.6	619.6	619.6	619.6	619.6	619.6	619.6	619.6	0.0	619.6	619.6	619.6	619.6	619.6	567.1
14 InterFor Pacific - Gilchrist	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
15 International Paper Energy Center	18.1	18.1	13.1	19.4	19.1	21.6	21.0	19.9	20.4	15.0	15.0	9.1	7.0	16.1	16.7
16 Longview Fibre Paper & Packaging	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
17 March Point Cogeneration	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0
18 Nippon Paper Cogen (Port Angeles)	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
19 Oregon State University Energy Center	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
20 Port Townsend Mill	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
21 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
22 Rupert Cogeneration Facility	7.5	7.5	8.0	9.4	9.4	8.6	8.2	9.1	9.1	7.7	7.7	7.5	8.0	8.0	8.4
23 SDS Lumber	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
24 Seneca Sawmill Cogen	13.7	13.7	13.4	14.0	14.0	13.1	13.6	13.9	13.6	13.8	13.8	9.0	13.1	12.9	13.2
25 Sierra Pacific - Abberdeen	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
26 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
27 Simplot Pocatello	9.1	9.1	9.4	8.4	8.7	8.7	8.7	8.6	9.1	8.5	8.5	8.9	1.2	7.9	8.1
28 Sumas	124.7	124.7	125.9	128.5	130.7	132.3	132.6	131.4	130.4	129.1	0.0	127.5	125.9	124.7	123.3
29 Sumas Compressor Station	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
30 Tacoma Biomass (WestRock)	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
31 Tamarack	3.9	3.9	3.9	3.2	3.3	2.7	3.0	2.6	2.8	2.9	2.9	3.3	3.5	3.8	3.2
32 TASCO - Nampa	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0
33 TASCO - Twin Falls	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
34 Thompson River Co-Gen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35 Vaagen Bros.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
36 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
37 Warm Springs Cogen	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
38 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
39 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
40 Total Thermal - Cogeneration	2425	2425	2429	2422	2470	2536	2499	2517	1737	2424	1870	2110	2353	2385	2334

Regional: Thermal - Cogeneration
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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Thermal - Cogeneration															
1 Boise Cascade Medford	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 Cogen Co	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
3 Cogen Co 2	6.0	6.0	5.8	6.0	5.8	6.0	6.0	5.6	6.0	7.2	0.0	6.0	5.8	6.0	5.7
4 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
5 Coyote Springs	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0
6 Coyote Springs 2	274.5	274.5	280.0	287.6	303.2	313.3	312.3	305.8	293.5	286.6	286.6	262.7	259.7	267.5	287.2
7 Evergreen Biopower Cogen	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
8 Ferndale Cogeneration Station	238.1	238.1	240.6	245.4	249.7	252.8	253.4	250.9	249.1	246.7	246.7	0.0	240.6	238.1	225.1
9 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
10 Haleywest L.L.C	4.5	4.5	4.2	4.6	4.4	4.4	4.0	4.0	4.2	3.7	3.7	4.2	4.3	3.9	4.2
11 Hampton Lumber Mill (Darrington)	1.9	1.9	2.0	2.4	2.5	2.5	2.4	2.5	2.6	2.2	2.2	1.0	0.8	1.6	2.0
12 Hermiston Generation Project	435.9	435.9	441.7	413.2	458.5	466.5	426.6	460.8	335.0	412.0	0.0	412.2	409.4	431.5	408.1
13 Hermiston Power Project	619.6	619.6	619.6	619.6	619.6	619.6	619.6	619.6	0.0	619.6	619.6	619.6	619.6	619.6	567.2
14 InterFor Pacific - Gilchrist	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
15 International Paper Energy Center	18.1	18.1	13.1	19.4	19.1	21.6	21.0	19.9	20.4	15.0	15.0	10.0	7.0	16.1	16.7
16 Longview Fibre Paper & Packaging	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
17 March Point Cogeneration	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0
18 Nippon Paper Cogen (Port Angeles)	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
19 Oregon State University Energy Center	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
20 Port Townsend Mill	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
21 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
22 Rupert Cogeneration Facility	7.5	7.5	8.0	9.4	9.4	8.6	8.2	9.1	9.1	7.7	7.7	7.5	8.0	8.0	8.4
23 SDS Lumber	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
24 Seneca Sawmill Cogen	13.7	13.7	13.4	14.0	14.0	13.1	13.6	13.9	13.6	13.8	13.8	9.0	13.1	12.9	13.2
25 Sierra Pacific - Abberdeen	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
26 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
27 Simplot Pocatello	9.1	9.1	9.4	8.4	8.7	8.7	8.7	8.6	9.1	8.5	8.5	8.9	1.2	7.9	8.1
28 Sumas	124.7	124.7	125.9	128.5	130.7	132.3	132.6	131.4	130.4	129.1	0.0	127.5	125.9	124.7	123.3
29 Sumas Compressor Station	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
30 Tacoma Biomass (WestRock)	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
31 Tamarack	3.9	3.9	3.9	3.2	3.3	2.7	3.0	2.6	2.8	2.9	2.9	3.3	3.5	3.8	3.2
32 TASCO - Nampa	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0
33 TASCO - Twin Falls	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
34 Thompson River Co-Gen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35 Vaagen Bros.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
36 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
37 Warm Springs Cogen	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
38 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
39 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
40 Total Thermal - Cogeneration	2425	2425	2429	2422	2507	2536	2497	2517	1736	2418	1870	2127	2356	2418	2342

Regional: Thermal - Cogeneration
Operating Year: 2025 Water Year: 1937
2018 White Book Report Date: 12/1/2018
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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Thermal - Cogeneration															
1 Boise Cascade Medford	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 Cogen Co	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
3 Cogen Co 2	6.0	6.0	5.8	6.0	5.8	6.0	6.0	5.4	6.0	7.2	0.0	6.0	5.8	6.0	5.7
4 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
5 Coyote Springs	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0
6 Coyote Springs 2	274.5	274.5	280.0	287.6	303.2	313.3	312.3	305.8	293.5	286.6	286.6	262.7	259.7	267.5	287.1
7 Evergreen Biopower Cogen	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
8 Ferndale Cogeneration Station	238.1	238.1	240.6	245.4	249.7	252.8	253.4	250.9	249.1	246.7	246.7	0.0	240.6	238.1	225.0
9 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
10 Haleywest L.L.C	4.5	4.5	4.2	4.6	4.4	4.4	4.0	4.0	4.2	3.7	3.7	4.2	4.3	3.9	4.2
11 Hampton Lumber Mill (Darrington)	1.9	1.9	2.0	2.4	2.5	2.5	2.4	2.5	2.6	2.2	2.2	1.0	0.8	1.6	2.0
12 Hermiston Generation Project	435.0	435.0	404.1	419.5	457.7	465.5	426.1	459.8	453.9	44.8	0.0	402.3	408.2	430.7	399.1
13 Hermiston Power Project	619.6	619.6	619.6	619.6	619.6	619.6	619.6	619.6	0.0	619.6	619.6	619.6	619.6	619.6	567.1
14 InterFor Pacific - Gilchrist	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
15 International Paper Energy Center	18.1	18.1	13.1	19.4	19.1	21.6	21.0	19.9	20.4	12.0	12.0	9.1	7.0	16.1	16.4
16 Longview Fibre Paper & Packaging	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
17 March Point Cogeneration	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0
18 Nippon Paper Cogen (Port Angeles)	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
19 Oregon State University Energy Center	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
20 Port Townsend Mill	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
21 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
22 Rupert Cogeneration Facility	7.5	7.5	8.0	9.4	9.4	8.6	8.2	9.1	9.1	7.7	7.7	7.5	8.0	8.0	8.4
23 SDS Lumber	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
24 Seneca Sawmill Cogen	13.7	13.7	13.4	14.0	14.0	13.1	13.6	13.9	13.6	13.8	13.8	9.0	13.1	12.9	13.2
25 Sierra Pacific - Abberdeen	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
26 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
27 Simplot Pocatello	9.1	9.1	9.4	8.4	8.7	8.7	8.7	8.6	9.1	8.5	8.5	8.9	1.2	7.9	8.1
28 Sumas	124.7	124.7	125.9	128.5	130.7	132.3	132.6	131.4	130.4	129.1	0.0	127.5	125.9	124.7	123.3
29 Sumas Compressor Station	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
30 Tacoma Biomass (WestRock)	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
31 Tamarack	3.9	3.9	3.9	3.2	3.3	2.7	3.0	2.6	2.8	2.9	2.9	3.3	3.5	3.8	3.2
32 TASCO - Nampa	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0
33 TASCO - Twin Falls	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
34 Thompson River Co-Gen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35 Vaagen Bros.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
36 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
37 Warm Springs Cogen	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
38 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
39 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
40 Total Thermal - Cogeneration	2424	2424	2391	2428	2507	2535	2496	2516	1855	2048	1867	2116	2355	2417	2332

Regional: Thermal - Cogeneration
Operating Year: 2026 Water Year: 1937
2018 White Book Report Date: 12/1/2018
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Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Thermal - Cogeneration															
1 Boise Cascade Medford	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 Cogen Co	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
3 Cogen Co 2	6.0	6.0	5.8	6.0	5.8	6.0	6.0	5.4	6.0	7.2	0.0	6.0	5.8	6.0	5.7
4 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
5 Coyote Springs	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0
6 Coyote Springs 2	274.5	274.5	280.0	287.6	303.2	313.3	312.3	305.8	293.5	286.6	286.6	262.7	259.7	267.5	287.1
7 Evergreen Biopower Cogen	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
8 Ferndale Cogeneration Station	238.1	238.1	240.6	245.4	249.7	252.8	253.4	250.9	249.1	246.7	246.7	0.0	240.6	238.1	225.0
9 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
10 Haleywest L.L.C	4.5	4.5	4.2	4.6	4.4	4.4	4.0	4.0	4.2	3.7	3.7	4.2	4.3	3.9	4.2
11 Hampton Lumber Mill (Darrington)	1.9	1.9	2.0	2.4	2.5	2.5	2.4	2.5	2.6	2.2	2.2	1.0	0.8	1.6	2.0
12 Hermiston Generation Project	435.9	435.9	441.7	413.2	420.7	466.5	429.0	460.6	336.7	418.2	0.0	395.5	406.3	398.8	401.0
13 Hermiston Power Project	619.6	619.6	619.6	619.6	619.6	619.6	619.6	619.6	0.0	619.6	619.6	619.6	619.6	619.6	567.1
14 InterFor Pacific - Gilchrist	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
15 International Paper Energy Center	18.1	18.1	13.1	19.4	19.1	21.6	21.0	19.9	20.4	11.9	11.9	9.1	7.0	16.1	16.4
16 Longview Fibre Paper & Packaging	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
17 March Point Cogeneration	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0
18 Nippon Paper Cogen (Port Angeles)	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
19 Oregon State University Energy Center	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
20 Port Townsend Mill	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
21 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
22 Rupert Cogeneration Facility	7.5	7.5	8.0	9.4	9.4	8.6	8.2	9.1	9.1	7.7	7.7	7.5	8.0	8.0	8.4
23 SDS Lumber	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
24 Seneca Sawmill Cogen	13.7	13.7	13.4	14.0	14.0	13.1	13.6	13.9	13.6	13.8	13.8	9.0	13.1	12.9	13.2
25 Sierra Pacific - Abberdeen	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
26 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
27 Simplot Pocatello	9.1	9.1	9.4	8.4	8.7	8.7	8.7	8.6	9.1	8.5	8.5	8.9	1.2	7.9	8.1
28 Sumas	124.7	124.7	125.9	128.5	130.7	132.3	132.6	131.4	130.4	129.1	0.0	127.5	125.9	124.7	123.3
29 Sumas Compressor Station	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
30 Tacoma Biomass (WestRock)	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
31 Tamarack	3.9	3.9	3.9	3.2	3.3	2.7	3.0	2.6	2.8	2.9	2.9	3.3	3.5	3.8	3.2
32 TASCO - Nampa	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0
33 TASCO - Twin Falls	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
34 Thompson River Co-Gen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35 Vaagen Bros.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
36 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
37 Warm Springs Cogen	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
38 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
39 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
40 Total Thermal - Cogeneration	2425	2425	2429	2422	2470	2536	2499	2517	1737	2421	1867	2110	2353	2385	2334

Regional: Thermal - Cogeneration
Operating Year: 2027 Water Year: 1937
2018 White Book Report Date: 12/1/2018
S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Thermal - Cogeneration															
1 Boise Cascade Medford	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 Cogen Co	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
3 Cogen Co 2	6.0	6.0	5.8	6.0	5.8	6.0	6.0	5.4	6.0	7.2	0.0	6.0	5.8	6.0	5.7
4 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
5 Coyote Springs	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0
6 Coyote Springs 2	274.5	274.5	280.0	287.6	303.2	313.3	312.3	305.8	293.5	286.6	286.6	262.7	259.7	267.5	287.1
7 Evergreen Biopower Cogen	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
8 Ferndale Cogeneration Station	238.1	238.1	240.6	245.4	249.7	252.8	253.4	250.9	249.1	246.7	246.7	0.0	240.6	238.1	225.0
9 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
10 Haleywest L.L.C	4.5	4.5	4.2	4.6	4.4	4.4	4.0	4.0	4.2	3.7	3.7	4.2	4.3	3.9	4.2
11 Hampton Lumber Mill (Darrington)	1.9	1.9	2.0	2.4	2.5	2.5	2.4	2.5	2.6	2.2	2.2	1.0	0.8	1.6	2.0
12 Hermiston Generation Project	435.9	435.9	441.7	413.2	458.5	466.5	426.6	460.8	335.0	412.0	0.0	412.2	409.4	431.5	408.0
13 Hermiston Power Project	619.6	619.6	619.6	619.6	619.6	619.6	619.6	619.6	0.0	619.6	619.6	619.6	619.6	619.6	567.1
14 InterFor Pacific - Gilchrist	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
15 International Paper Energy Center	18.1	18.1	13.1	19.4	19.1	21.6	21.0	19.9	20.4	11.9	11.9	9.1	7.0	16.1	16.4
16 Longview Fibre Paper & Packaging	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
17 March Point Cogeneration	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0
18 Nippon Paper Cogen (Port Angeles)	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
19 Oregon State University Energy Center	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
20 Port Townsend Mill	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
21 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
22 Rupert Cogeneration Facility	7.5	7.5	8.0	9.4	9.4	8.6	8.2	9.1	9.1	7.7	7.7	7.5	8.0	8.0	8.4
23 SDS Lumber	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
24 Seneca Sawmill Cogen	13.7	13.7	13.4	14.0	14.0	13.1	13.6	13.9	13.6	13.8	13.8	9.0	13.1	12.9	13.2
25 Sierra Pacific - Abberdeen	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
26 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
27 Simplot Pocatello	9.1	9.1	9.4	8.4	8.7	8.7	8.7	8.6	9.1	8.5	8.5	8.9	1.2	7.9	8.1
28 Sumas	124.7	124.7	125.9	128.5	130.7	132.3	132.6	131.4	130.4	129.1	0.0	127.5	125.9	124.7	123.3
29 Sumas Compressor Station	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
30 Tacoma Biomass (WestRock)	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
31 Tamarack	3.9	3.9	3.9	3.2	3.3	2.7	3.0	2.6	2.8	2.9	2.9	3.3	3.5	3.8	3.2
32 TASCO - Nampa	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0
33 TASCO - Twin Falls	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
34 Thompson River Co-Gen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35 Vaagen Bros.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
36 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
37 Warm Springs Cogen	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
38 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
39 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
40 Total Thermal - Cogeneration	2425	2425	2429	2422	2507	2536	2497	2517	1736	2415	1867	2126	2356	2418	2341

Regional: Thermal - Cogeneration
Operating Year: 2028 Water Year: 1937
2018 White Book Report Date: 12/1/2018
S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Thermal - Cogeneration															
1 Boise Cascade Medford	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 Cogen Co	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
3 Cogen Co 2	6.0	6.0	5.8	6.0	5.8	6.0	6.0	5.6	6.0	7.2	0.0	6.0	5.8	6.0	5.7
4 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
5 Coyote Springs	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0
6 Coyote Springs 2	274.5	274.5	280.0	287.6	303.2	313.3	312.3	305.8	293.5	286.6	286.6	262.7	259.7	267.5	287.2
7 Evergreen Biopower Cogen	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
8 Ferndale Cogeneration Station	238.1	238.1	240.6	245.4	249.7	252.8	253.4	250.9	249.1	246.7	246.7	0.0	240.6	238.1	225.1
9 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
10 Haleywest L.L.C	4.5	4.5	4.2	4.6	4.4	4.4	4.0	4.0	4.2	3.7	3.7	4.2	4.3	3.9	4.2
11 Hampton Lumber Mill (Darrington)	1.9	1.9	2.0	2.4	2.5	2.5	2.4	2.5	2.6	2.2	2.2	1.0	0.8	1.6	2.0
12 Hermiston Generation Project	435.0	435.0	404.1	419.5	457.7	465.5	426.1	459.8	453.9	44.8	0.0	402.3	408.2	430.7	399.3
13 Hermiston Power Project	619.6	619.6	619.6	619.6	619.6	619.6	619.6	619.6	0.0	619.6	619.6	619.6	619.6	619.6	567.2
14 InterFor Pacific - Gilchrist	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
15 International Paper Energy Center	18.1	18.1	13.1	19.4	19.1	21.6	21.0	19.9	20.4	15.0	15.0	9.1	7.0	16.1	16.7
16 Longview Fibre Paper & Packaging	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
17 March Point Cogeneration	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0
18 Nippon Paper Cogen (Port Angeles)	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
19 Oregon State University Energy Center	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
20 Port Townsend Mill	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
21 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
22 Rupert Cogeneration Facility	7.5	7.5	8.0	9.4	9.4	8.6	8.2	9.1	9.1	7.7	7.7	7.5	8.0	8.0	8.4
23 SDS Lumber	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
24 Seneca Sawmill Cogen	13.7	13.7	13.4	14.0	14.0	13.1	13.6	13.9	13.6	13.8	13.8	9.0	13.1	12.9	13.2
25 Sierra Pacific - Abberdeen	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
26 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
27 Simplot Pocatello	9.1	9.1	9.4	8.4	8.7	8.7	8.7	8.6	9.1	8.5	8.5	8.9	1.2	7.9	8.1
28 Sumas	124.7	124.7	125.9	128.5	130.7	132.3	132.6	131.4	130.4	129.1	0.0	127.5	125.9	124.7	123.3
29 Sumas Compressor Station	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
30 Tacoma Biomass (WestRock)	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
31 Tamarack	3.9	3.9	3.9	3.2	3.3	2.7	3.0	2.6	2.8	2.9	2.9	3.3	3.5	3.8	3.2
32 TASCO - Nampa	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0
33 TASCO - Twin Falls	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
34 Thompson River Co-Gen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35 Vaagen Bros.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
36 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
37 Warm Springs Cogen	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
38 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
39 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
40 Total Thermal - Cogeneration	2424	2424	2391	2428	2507	2535	2496	2516	1855	2051	1870	2116	2355	2417	2333

Regional: Thermal - Cogeneration
Operating Year: 2029 Water Year: 1937
2018 White Book Report Date: 12/1/2018
S166-WB-20190220-091000

Energy-aMW	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
Thermal - Cogeneration															
1 Boise Cascade Medford	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 Cogen Co	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
3 Cogen Co 2	6.0	6.0	5.8	6.0	5.8	6.0	6.0	5.4	6.0	7.2	0.0	6.0	5.8	6.0	5.7
4 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
5 Coyote Springs	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0	228.0
6 Coyote Springs 2	274.5	274.5	280.0	287.6	303.2	313.3	312.3	305.8	293.5	286.6	286.6	262.7	259.7	267.5	287.1
7 Evergreen Biopower Cogen	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
8 Ferndale Cogeneration Station	238.1	238.1	240.6	245.4	249.7	252.8	253.4	250.9	249.1	246.7	246.7	0.0	240.6	238.1	225.0
9 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
10 Haleywest L.L.C	4.5	4.5	4.2	4.6	4.4	4.4	4.0	4.0	4.2	3.7	3.7	4.2	4.3	3.9	4.2
11 Hampton Lumber Mill (Darrington)	1.9	1.9	2.0	2.4	2.5	2.5	2.4	2.5	2.6	2.2	2.2	1.0	0.8	1.6	2.0
12 Hermiston Generation Project	435.9	435.9	441.7	413.2	420.7	466.5	429.0	460.6	336.7	418.2	0.0	395.5	406.3	398.8	401.0
13 Hermiston Power Project	619.6	619.6	619.6	619.6	619.6	619.6	619.6	619.6	0.0	619.6	619.6	619.6	619.6	619.6	567.1
14 InterFor Pacific - Gilchrist	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
15 International Paper Energy Center	18.1	18.1	13.1	19.4	19.1	21.6	21.0	19.9	20.4	15.0	15.0	10.0	7.0	16.1	16.7
16 Longview Fibre Paper & Packaging	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
17 March Point Cogeneration	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0	124.0
18 Nippon Paper Cogen (Port Angeles)	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
19 Oregon State University Energy Center	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
20 Port Townsend Mill	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
21 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
22 Rupert Cogeneration Facility	7.5	7.5	8.0	9.4	9.4	8.6	8.2	9.1	9.1	7.7	7.7	7.5	8.0	8.0	8.4
23 SDS Lumber	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
24 Seneca Sawmill Cogen	13.7	13.7	13.4	14.0	14.0	13.1	13.6	13.9	13.6	13.8	13.8	9.0	13.1	12.9	13.2
25 Sierra Pacific - Abberdeen	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
26 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
27 Simplot Pocatello	9.1	9.1	9.4	8.4	8.7	8.7	8.7	8.6	9.1	8.5	8.5	8.9	1.2	7.9	8.1
28 Sumas	124.7	124.7	125.9	128.5	130.7	132.3	132.6	131.4	130.4	129.1	0.0	127.5	125.9	124.7	123.3
29 Sumas Compressor Station	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
30 Tacoma Biomass (WestRock)	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
31 Tamarack	3.9	3.9	3.9	3.2	3.3	2.7	3.0	2.6	2.8	2.9	2.9	3.3	3.5	3.8	3.2
32 TASC0 - Nampa	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0
33 TASC0 - Twin Falls	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
34 Thompson River Co-Gen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35 Vaagen Bros.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
36 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
37 Warm Springs Cogen	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
38 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
39 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
40 Total Thermal - Cogeneration	2425	2425	2429	2422	2470	2536	2499	2517	1737	2424	1870	2111	2353	2385	2334

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Exhibit 42
Non-Federal CER Deliveries to BPA

Monthly Energy
Operating Year 2020 to 2029

Non-Federal CER Deliveries to BPA
Operating Year: 2020
2018 White Book Report Date: 12/1/2018
S166-WB-20190220-091000

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	18.7	17.8	18.6	18.5	17.9	18.6	18.4	17.9	18.5	18.5	17.9	18.5	18.6	18.3
2 CHPD to BPA CEAEA for Rocky Reach	38.1	38.5	36.7	38.3	38.1	36.9	38.3	37.9	37.0	38.1	38.1	36.9	38.1	38.3	37.7
3 DOPD to BPA CEAEA for Wells	23.7	23.9	22.8	23.8	23.7	22.9	23.8	23.6	23.0	23.7	23.7	22.9	23.7	23.8	23.4
4 GCPD to BPA CEAEA for Priest Rapids	28.9	29.2	27.8	29.0	28.8	28.0	29.0	28.7	28.0	28.9	28.9	28.0	28.9	29.0	28.6
5 GCPD to BPA CEAEA for Wanapum	28.9	29.2	27.8	29.0	28.8	28.0	29.0	28.7	28.0	28.9	28.9	28.0	28.9	29.0	28.6
6 Total Imports From PNW	138	139	133	139	138	134	139	137	134	138	138	134	138	139	137
Total Imports															
7 Federal Entities	138	139	133	139	138	134	139	137	134	138	138	134	138	139	137
8 Total Imports	138	139	133	139	138	134	139	137	134	138	138	134	138	139	137

Non-Federal CER Deliveries to BPA
Operating Year: 2021
2018 White Book Report Date: 12/1/2018
S166-WB-20190220-091000

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	17.3	18.5	18.6	17.8	18.6	17.9	18.3	18.6	18.5	18.5	17.9	18.5	18.6	18.3
2 CHPD to BPA CEAEA for Rocky Reach	38.1	35.8	38.1	38.3	36.6	38.3	36.9	37.7	38.4	38.1	38.1	36.9	38.1	38.3	37.7
3 DOPD to BPA CEAEA for Wells	23.7	22.2	23.7	23.8	22.7	23.8	22.9	23.4	23.8	23.7	23.7	22.9	23.7	23.8	23.4
4 GCPD to BPA CEAEA for Priest Rapids	28.9	27.1	28.9	29.0	27.7	29.0	28.0	28.6	29.1	28.9	28.9	28.0	28.9	29.0	28.6
5 GCPD to BPA CEAEA for Wanapum	28.9	27.1	28.9	29.0	27.7	29.0	28.0	28.6	29.1	28.9	28.9	28.0	28.9	29.0	28.6
6 Total Imports From PNW	138	129	138	139	133	139	134	137	139	138	138	134	138	139	137
Total Imports															
7 Federal Entities	138	129	138	139	133	139	134	137	139	138	138	134	138	139	137
8 Total Imports	138	129	138	139	133	139	134	137	139	138	138	134	138	139	137

Non-Federal CER Deliveries to BPA
Operating Year: 2022
2018 White Book Report Date: 12/1/2018
S166-WB-20190220-091000

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	18.7	18.5	17.9	18.5	18.6	17.9	18.3	18.6	18.5	18.5	17.9	18.5	17.9	18.2
2 CHPD to BPA CEAEA for Rocky Reach	35.2	38.5	38.1	36.9	38.1	38.3	36.9	37.7	38.4	38.1	38.1	36.9	38.1	36.9	37.6
3 DOPD to BPA CEAEA for Wells	21.9	23.9	23.7	22.9	23.7	23.8	22.9	23.4	23.8	23.7	23.7	22.9	23.7	22.9	23.4
4 GCPD to BPA CEAEA for Priest Rapids	26.7	29.2	28.9	28.0	28.8	29.0	28.0	28.6	29.1	28.9	28.9	28.0	28.9	28.0	28.5
5 GCPD to BPA CEAEA for Wanapum	26.7	29.2	28.9	28.0	28.8	29.0	28.0	28.6	29.1	28.9	28.9	28.0	28.9	28.0	28.5
6 Total Imports From PNW	127	139	138	134	138	139	134	137	139	138	138	134	138	134	136
Total Imports															
7 Federal Entities	127	139	138	134	138	139	134	137	139	138	138	134	138	134	136
8 Total Imports	127	139	138	134	138	139	134	137	139	138	138	134	138	134	136

Non-Federal CER Deliveries to BPA
Operating Year: 2023
2018 White Book Report Date: 12/1/2018
S166-WB-20190220-091000

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	18.7	18.5	17.9	18.5	18.6	17.9	18.3	18.6	18.5	17.1	18.6	18.5	17.9	18.3
2 CHPD to BPA CEAEA for Rocky Reach	38.1	38.5	38.1	36.9	38.1	38.3	36.9	37.7	38.4	38.1	35.2	38.3	38.1	36.9	37.7
3 DOPD to BPA CEAEA for Wells	23.7	23.9	23.7	22.9	23.7	23.8	22.9	23.4	23.8	23.7	21.9	23.8	23.7	22.9	23.4
4 GCPD to BPA CEAEA for Priest Rapids	28.9	29.2	28.9	28.0	28.8	29.0	28.0	28.6	29.1	28.9	26.7	29.0	28.9	28.0	28.6
5 GCPD to BPA CEAEA for Wanapum	28.9	29.2	28.9	28.0	28.8	29.0	28.0	28.6	29.1	28.9	26.7	29.0	28.9	28.0	28.6
6 Total Imports From PNW	138	139	138	134	138	139	134	137	139	138	127	139	138	134	137
Total Imports															
7 Federal Entities	138	139	138	134	138	139	134	137	139	138	127	139	138	134	137
8 Total Imports	138	139	138	134	138	139	134	137	139	138	127	139	138	134	137

Non-Federal CER Deliveries to BPA
Operating Year: 2024
2018 White Book Report Date: 12/1/2018
S166-WB-20190220-091000

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	18.7	18.5	17.9	18.5	17.9	18.6	18.4	17.9	18.5	18.5	18.6	17.8	18.6	18.3
2 CHPD to BPA CEAEA for Rocky Reach	38.1	38.5	38.1	36.9	38.1	36.9	38.3	37.9	37.0	38.1	38.1	38.3	36.7	38.3	37.7
3 DOPD to BPA CEAEA for Wells	23.7	23.9	23.7	22.9	23.7	22.9	23.8	23.6	23.0	23.7	23.7	23.8	22.8	23.8	23.4
4 GCPD to BPA CEAEA for Priest Rapids	28.9	29.2	28.9	28.0	28.8	28.0	29.0	28.7	28.0	28.9	28.9	29.0	27.8	29.0	28.6
5 GCPD to BPA CEAEA for Wanapum	28.9	29.2	28.9	28.0	28.8	28.0	29.0	28.7	28.0	28.9	28.9	29.0	27.8	29.0	28.6
6 Total Imports From PNW	138	139	138	134	138	134	139	137	134	138	138	139	133	139	137
Total Imports															
7 Federal Entities	138	139	138	134	138	134	139	137	134	138	138	139	133	139	137
8 Total Imports	138	139	138	134	138	134	139	137	134	138	138	139	133	139	137

Non-Federal CER Deliveries to BPA
Operating Year: 2025
2018 White Book Report Date: 12/1/2018
S166-WB-20190220-091000

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	18.7	17.8	18.6	18.5	17.9	18.6	18.3	17.9	18.5	18.5	18.6	17.8	18.6	18.3
2 CHPD to BPA CEAEA for Rocky Reach	38.1	38.5	38.1	36.9	38.1	36.9	38.3	39.3	37.0	38.1	38.1	38.3	36.7	38.3	37.9
3 DOPD to BPA CEAEA for Wells	23.7	23.9	22.8	23.8	23.7	22.9	23.8	23.4	23.0	23.7	23.7	23.8	22.8	23.8	23.4
4 GCPD to BPA CEAEA for Priest Rapids	28.9	29.2	27.8	29.0	28.8	28.0	29.0	28.6	28.0	28.9	28.9	29.0	27.8	29.0	28.6
5 GCPD to BPA CEAEA for Wanapum	28.9	29.2	28.9	28.0	28.8	28.0	29.0	29.8	28.0	28.9	28.9	29.0	27.8	29.0	28.7
6 Total Imports From PNW	138	139	135	136	138	134	139	139	134	138	138	139	133	139	137
Total Imports															
7 Federal Entities	138	139	135	136	138	134	139	139	134	138	138	139	133	139	137
8 Total Imports	138	139	135	136	138	134	139	139	134	138	138	139	133	139	137

Non-Federal CER Deliveries to BPA
Operating Year: 2026
2018 White Book Report Date: 12/1/2018
S166-WB-20190220-091000

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	17.3	18.5	18.6	17.8	18.6	18.6	18.3	17.9	18.5	18.5	17.9	18.5	18.6	18.3
2 CHPD to BPA CEAEA for Rocky Reach	39.6	37.1	38.1	36.9	38.1	36.9	38.3	39.3	37.0	38.1	38.1	38.3	36.7	38.3	37.9
3 DOPD to BPA CEAEA for Wells	23.7	22.2	22.8	23.8	23.7	22.9	23.8	23.4	23.0	23.7	23.7	23.8	22.8	23.8	23.4
4 GCPD to BPA CEAEA for Priest Rapids	28.9	27.1	27.8	29.0	28.8	28.0	29.0	28.6	28.0	28.9	28.9	29.0	27.8	29.0	28.5
5 GCPD to BPA CEAEA for Wanapum	30.0	28.1	28.9	28.0	28.8	28.0	29.0	29.8	28.0	28.9	28.9	29.0	27.8	29.0	28.7
6 Total Imports From PNW	141	132	136	136	137	134	139	139	134	138	138	138	133	139	137
Total Imports															
7 Federal Entities	141	132	136	136	137	134	139	139	134	138	138	138	133	139	137
8 Total Imports	141	132	136	136	137	134	139	139	134	138	138	138	133	139	137

Non-Federal CER Deliveries to BPA
Operating Year: 2027
2018 White Book Report Date: 12/1/2018
S166-WB-20190220-091000

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	17.3	18.5	18.6	17.8	18.6	17.9	18.3	18.6	18.5	18.5	17.9	18.5	18.6	18.3
2 CHPD to BPA CEAEA for Rocky Reach	39.6	37.1	38.1	36.9	38.1	36.9	38.3	39.3	37.0	38.1	38.1	38.3	36.7	38.3	37.9
3 DOPD to BPA CEAEA for Wells	23.7	22.2	24.6	21.2	23.7	22.9	23.8	24.4	23.8	23.7	23.7	22.0	24.6	22.9	23.4
4 GCPD to BPA CEAEA for Priest Rapids	28.9	27.1	27.8	29.0	28.8	28.0	29.0	28.6	28.0	28.9	28.9	29.0	27.8	29.0	28.5
5 GCPD to BPA CEAEA for Wanapum	30.0	28.1	28.9	28.0	28.8	28.0	29.0	29.8	28.0	28.9	28.9	29.0	27.8	29.0	28.7
6 Total Imports From PNW	141	132	138	134	137	134	138	140	135	138	138	136	135	138	137
Total Imports															
7 Federal Entities	141	132	138	134	137	134	138	140	135	138	138	136	135	138	137
8 Total Imports	141	132	138	134	137	134	138	140	135	138	138	136	135	138	137

Non-Federal CER Deliveries to BPA
Operating Year: 2028
2018 White Book Report Date: 12/1/2018
S166-WB-20190220-091000

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	18.7	18.5	17.9	18.5	18.6	17.9	18.4	18.6	18.5	17.1	18.6	18.5	17.9	18.2
2 CHPD to BPA CEAEA for Rocky Reach	36.6	40.0	38.1	36.9	38.1	36.9	38.3	37.9	37.0	39.7	36.6	38.3	36.7	38.3	37.7
3 DOPD to BPA CEAEA for Wells	22.0	23.8	24.6	21.2	23.7	22.9	23.8	23.6	23.8	24.6	22.7	22.0	24.6	22.9	23.3
4 GCPD to BPA CEAEA for Priest Rapids	26.7	29.2	27.8	29.0	28.8	28.0	29.0	27.6	28.0	30.0	27.7	29.0	27.8	29.0	28.4
5 GCPD to BPA CEAEA for Wanapum	27.7	30.3	28.9	28.0	28.8	28.0	29.0	28.7	28.0	30.0	27.7	29.0	27.8	29.0	28.6
6 Total Imports From PNW	130	142	138	133	138	134	138	136	135	143	132	137	135	137	136
Total Imports															
7 Federal Entities	130	142	138	133	138	134	138	136	135	143	132	137	135	137	136
8 Total Imports	130	142	138	133	138	134	138	136	135	143	132	137	135	137	136

Non-Federal CER Deliveries to BPA
Operating Year: 2029
2018 White Book Report Date: 12/1/2018
S166-WB-20190220-091000

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	18.7	18.5	17.9	18.5	17.9	18.6	18.3	18.6	17.1	18.5	18.6	18.5	17.9	18.3
2 CHPD to BPA CEAEA for Rocky Reach	38.1	38.5	38.1	36.9	38.1	36.9	38.3	39.3	37.0	36.6	39.7	38.3	36.7	38.3	37.9
3 DOPD to BPA CEAEA for Wells	22.8	23.0	24.6	21.2	23.7	22.9	23.8	24.4	23.8	22.7	24.6	22.0	24.6	22.9	23.4
4 GCPD to BPA CEAEA for Priest Rapids	27.8	28.1	27.8	29.0	28.8	28.0	29.0	28.6	28.0	27.7	30.0	29.0	27.8	29.0	28.5
5 GCPD to BPA CEAEA for Wanapum	28.9	29.2	28.9	28.0	28.8	28.0	29.0	29.8	28.0	27.7	30.0	29.0	27.8	29.0	28.7
6 Total Imports From PNW	136	137	138	133	138	134	139	140	135	132	143	137	135	137	137
Total Imports															
7 Federal Entities	136	137	138	133	138	134	139	140	135	132	143	137	135	137	137
8 Total Imports	136	137	138	133	138	134	139	140	135	132	143	137	135	137	137

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Exhibit 43
Federal Report Surplus Deficit By Water
Year 80 Water Year Surplus/Deficit

Monthly Energy
Operating Year 2020 to 2029

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Federal Report Surplus Deficit By Water Year

Operating Year 2020

2018 White Book Report Date: 12/1/2018

S166-WB-20190220-091000

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	1447	1353	-83.4	39.3	243	-651	-476	-33.8	-18.4	-1097	-1148	411	3241	-12.0	243
2 1930 Federal Report Surplus Deficit	663	90.4	383	71.3	377	-638	-1252	-9.00	-63.4	-475	-752	557	1208	934	108
3 1931 Federal Report Surplus Deficit	976	167	215	83.1	349	-459	-1170	-73.1	-2.87	-643	-1250	744	992	866	96.8
4 1932 Federal Report Surplus Deficit	831	159	26.2	-163	-23.9	-558	-529	-1540	1691	2236	4017	5495	4767	2338	1267
5 1933 Federal Report Surplus Deficit	1246	1075	706	52.0	136	1004	2296	2786	1736	935	218	3301	6510	4443	2055
6 1934 Federal Report Surplus Deficit	2748	1946	504	635	2739	4110	4678	4950	4026	4807	4119	3850	3461	490	3012
7 1935 Federal Report Surplus Deficit	263	-110	55.2	-8.29	-333	-53.1	2152	2444	1883	-267	510	2688	2177	2414	1134
8 1936 Federal Report Surplus Deficit	2290	338	-148	-28.9	181	-611	-1172	-656	225	-433	2650	5656	4176	1484	963
9 1937 Federal Report Surplus Deficit	765	75.9	173	93.4	474	-481	-1381	-1026	-307	-959	-1070	937	2420	634	78.8
10 1938 Federal Report Surplus Deficit	764	-25.7	152	25.5	225	309	1507	1766	2755	2786	4236	5064	3503	2670	1820
11 1939 Federal Report Surplus Deficit	311	-129	458	62.7	79.1	-726	667	950	749	295	1148	2624	1588	1058	691
12 1940 Federal Report Surplus Deficit	677	-11.6	330	151	533	461	1000	496	2134	1419	375	2923	1663	-73.0	905
13 1941 Federal Report Surplus Deficit	200	-310	176	-112	546	121	-111	284	628	-752	-1229	555	1667	767	288
14 1942 Federal Report Surplus Deficit	923	163	378	-173	728	1584	1589	1681	-2.67	-402	-195	1483	4663	3214	1278
15 1943 Federal Report Surplus Deficit	1344	872	896	108	-5.81	-46.0	2638	2457	2409	5352	5140	3661	6165	4584	2427
16 1944 Federal Report Surplus Deficit	2116	804	68.4	-21.4	249	-637	95.8	-13.9	-497	-1321	-1423	262	1145	176	75.5
17 1945 Federal Report Surplus Deficit	931	-86.8	78.5	-103	205	-478	-968	-299	-130	-1178	-1261	2656	4478	343	413
18 1946 Federal Report Surplus Deficit	595	34.8	133	-57.6	414	422	1322	1858	1759	3897	4639	5343	3569	3282	1883
19 1947 Federal Report Surplus Deficit	1651	1068	541	-52.7	878	2609	3619	3297	2964	2320	1159	4679	4145	2934	2393
20 1948 Federal Report Surplus Deficit	1467	648	313	2327	2020	1463	3412	3122	1832	1551	2907	6534	6386	3408	2840
21 1949 Federal Report Surplus Deficit	3178	2332	867	325	566	240	1359	1570	2783	2517	3505	5433	3409	481	1899
22 1950 Federal Report Surplus Deficit	256	-460	79.2	-58.8	145	541	3259	3455	3389	3972	2148	4280	6229	5248	2455
23 1951 Federal Report Surplus Deficit	3148	2215	704	991	2313	2846	4463	5212	4267	4404	3429	5304	3870	4078	3383
24 1952 Federal Report Surplus Deficit	1900	679	376	1814	1386	1567	3254	3200	1860	3900	5176	6264	4211	2740	2705
25 1953 Federal Report Surplus Deficit	1376	324	-190	22.1	240	-604	303	4058	1120	-1096	-294	3450	6562	4341	1608
26 1954 Federal Report Surplus Deficit	1879	1137	490	267	867	974	2790	3638	2540	1529	1070	5030	5364	5067	2484
27 1955 Federal Report Surplus Deficit	3500	3251	2450	395	1457	917	438	872	-478	-736	-744	2579	6461	5091	1901
28 1956 Federal Report Surplus Deficit	2867	1347	248	542	1922	2700	4353	4512	4126	3743	5683	6353	6124	3751	3448
29 1957 Federal Report Surplus Deficit	2481	1844	502	493	508	1157	1564	922	2290	3507	1504	6731	6399	1821	2258
30 1958 Federal Report Surplus Deficit	1000	459	363	33.6	340	179	2323	2451	1738	689	2151	5846	5243	1521	1845
31 1959 Federal Report Surplus Deficit	1271	267	91.8	266	1436	2216	3914	4642	2315	2895	1190	4161	5559	4390	2642
32 1960 Federal Report Surplus Deficit	2910	2312	2801	3082	2838	2132	2744	2362	1957	4583	2898	2834	4569	2338	2829
33 1961 Federal Report Surplus Deficit	1614	308	51.6	208	809	392	2174	2761	3219	2540	500	4412	5747	1763	1995
34 1962 Federal Report Surplus Deficit	1392	505	142	-66.5	423	400	2152	2523	519	1298	4284	3916	3714	1642	1584
35 1963 Federal Report Surplus Deficit	1317	785	-12.1	742	1540	1976	2728	2548	652	-149	-570	2951	4732	2287	1734
36 1964 Federal Report Surplus Deficit	1300	494	636	-34.8	470	343	1100	1356	127	891	10.8	4017	6619	4801	1729
37 1965 Federal Report Surplus Deficit	2814	2012	1129	912	1213	2872	4667	5432	4078	1015	4692	5460	4734	2819	3210
38 1966 Federal Report Surplus Deficit	2423	1893	104	427	606	635	1867	2044	616	1534	537	2241	3511	2130	1445

Federal Report Surplus Deficit By Water Year

Operating Year 2020

2018 White Book Report Date: 12/1/2018 *Continued*

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Energy-aMW - Surplus Deficit	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
39 1967 Federal Report Surplus Deficit	1976	352	114	-50.4	166	1144	3441	3708	2749	1141	-516	3822	5965	3851	2194
40 1968 Federal Report Surplus Deficit	1965	1398	510	314	923	672	2331	3044	2974	-791	-696	2097	4760	2579	1758
41 1969 Federal Report Surplus Deficit	2112	1243	1626	1035	2029	1571	3971	4693	2864	3840	4860	6158	4766	2838	3121
42 1970 Federal Report Surplus Deficit	1094	416	261	386	599	-72.6	2198	2790	1131	-593	-619	3424	5586	1545	1492
43 1971 Federal Report Surplus Deficit	1020	245	107	33.1	400	504	4057	5115	3953	3673	2978	6331	6444	4365	2930
44 1972 Federal Report Surplus Deficit	2729	2725	725	523	750	967	3957	4023	5788	5351	2311	6045	6077	4487	3326
45 1973 Federal Report Surplus Deficit	3261	2920	857	460	755	593	1777	2091	487	-1425	-1371	477	1731	523	952
46 1974 Federal Report Surplus Deficit	580	-107	97.7	-25.6	222	1662	5132	5496	4845	4609	4674	5588	6388	5407	3299
47 1975 Federal Report Surplus Deficit	3073	2898	780	-125	209	71.0	2055	2299	2648	44.4	6.75	4528	6086	5030	2220
48 1976 Federal Report Surplus Deficit	1967	1660	922	1137	2238	3536	3913	4525	3400	4250	2945	6203	4722	4469	3372
49 1977 Federal Report Surplus Deficit	3747	3724	3301	527	289	-524	356	156	-483	-1295	-1309	431	614	122	603
50 1978 Federal Report Surplus Deficit	810	-79.2	-404	-398	278	642	1644	1820	1450	3815	1031	4371	3114	2804	1508
51 1979 Federal Report Surplus Deficit	1009	267	1760	551	638	-404	1019	478	1641	-381	363	4056	1943	235	1047
52 1980 Federal Report Surplus Deficit	610	33.8	342	65.7	256	-805	1097	483	-105	1009	1539	5820	4963	1742	1287
53 1981 Federal Report Surplus Deficit	489	51.6	388	32.1	721	1985	3485	3499	844	-1226	-430	4039	6126	3809	2027
54 1982 Federal Report Surplus Deficit	3059	2145	502	169	1006	678	2875	4413	5462	3704	1336	5597	6182	5303	3106
55 1983 Federal Report Surplus Deficit	2949	2598	1552	1068	1055	1174	3197	3688	3898	2488	841	4251	4412	4439	2765
56 1984 Federal Report Surplus Deficit	2783	1565	857	348	2516	1467	2946	3092	3142	2159	3512	4064	5968	4118	2788
57 1985 Federal Report Surplus Deficit	2494	947	840	406	1045	561	1371	1412	764	1914	2163	3399	1826	596	1328
58 1986 Federal Report Surplus Deficit	101	-568	261	630	1506	756	2338	3238	4491	3952	3211	3198	4441	1237	2109
59 1987 Federal Report Surplus Deficit	832	136	-46.4	-131	890	647	727	285	1261	-303	31.3	3514	1916	104	796
60 1988 Federal Report Surplus Deficit	218	-424	0.27	-60.5	167	-865	-1055	-201	-24.3	-1008	-380	734	1790	1231	74.6
61 1989 Federal Report Surplus Deficit	739	29.6	90.6	-65.0	445	129	-256	-913	1409	1542	4085	3272	2082	794	852
62 1990 Federal Report Surplus Deficit	404	-104	165	91.0	720	1194	1936	3193	2080	1298	3243	3217	4588	2265	1813
63 1991 Federal Report Surplus Deficit	2215	1573	101	-91.6	2429	1701	3370	3283	2362	1671	688	3455	4564	4195	2368
64 1992 Federal Report Surplus Deficit	2951	1643	78.3	-80.2	396	-800	313	410	542	-1014	-604	2467	1348	19.6	517
65 1993 Federal Report Surplus Deficit	445	-235	-144	-73.5	356	-405	-733	-1094	801	-42.6	-937	4604	3536	1371	660
66 1994 Federal Report Surplus Deficit	980	400	385	73.5	554	-263	-611	282	-53.8	-893	106	1756	1600	1011	418
67 1995 Federal Report Surplus Deficit	656	-108	194	-19.3	-11.5	-289	848	1846	2441	390	-873	3476	4733	2451	1306
68 1996 Federal Report Surplus Deficit	881	303	706	1016	3109	4707	4938	5170	5335	3951	5293	5419	5225	4284	3755
69 1997 Federal Report Surplus Deficit	2807	1656	492	225	935	1612	5022	5300	5251	4405	5376	6368	6221	4625	3591
70 1998 Federal Report Surplus Deficit	2691	2742	1517	2558	1891	588	1405	2973	1493	-277	-418	5695	5763	2581	2402
71 1999 Federal Report Surplus Deficit	1778	457	108	50.6	143	1468	3821	3690	4785	2045	2554	4231	5862	4757	2693
72 2000 Federal Report Surplus Deficit	3473	2807	891	199	2682	2030	2087	2405	2251	3355	4196	3791	1563	2186	2249
73 2001 Federal Report Surplus Deficit	1519	-103	-134	106	232	-600	54.8	-50.7	-264	-1354	-1336	674	481	351	18.4
74 2002 Federal Report Surplus Deficit	931	-132	-330	-479	175	89.9	-419	244	531	1053	2639	2725	5376	3591	1143
75 2003 Federal Report Surplus Deficit	1252	455	349	158	458	-506	-200	800	2191	563	274	1630	4693	935	976
76 2004 Federal Report Surplus Deficit	368	-391	-198	6.40	813	592	229	-86.4	636	300	-14.4	2102	3055	930	684
77 2005 Federal Report Surplus Deficit	750	350	1055	520	659	937	1537	2281	658	-1162	-773	2228	2575	1321	1109

Federal Report Surplus Deficit By Water Year

Operating Year 2020

2018 White Book Report Date: **12/1/2018** *Continued*

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Energy-aMW - Surplus Deficit	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
78 2006 Federal Report Surplus Deficit	1014	-25.8	244	2.29	859	605	2824	3419	2059	4338	3926	5386	5343	1909	2261
79 2007 Federal Report Surplus Deficit	521	26.6	-112	-74.1	874	713	2143	1635	3340	1772	244	3982	3408	1990	1601
80 2008 Federal Report Surplus Deficit	718	-151	-260	141	698	-119	346	717	793	-105	-742	4377	6473	3380	1367
Ranked Averages															
81 Bottom 10 pct	988	207	99.9	25.0	330	-526	-662	-141	-68.6	-951	-1073	609	1618	618	123
82 Middle 80 pct	1548	808	483	296	794	639	1777	2080	1815	1371	1368	3876	4359	2487	1760
83 Top 10 pct	2224	1476	628	665	1588	2613	4556	4959	4636	3966	4300	5842	5420	4240	3423

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Federal Report Surplus Deficit By Water Year

Operating Year 2021

2018 White Book Report Date: 12/1/2018

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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	962	687	311	137	337	-553	-621	-288	-134	-1130	-1160	-451	2502	-242	54.1
2 1930 Federal Report Surplus Deficit	674	95.5	245	169	471	-540	-1398	-263	-178	-450	-622	-307	447	701	-68.6
3 1931 Federal Report Surplus Deficit	859	166	153	181	443	-361	-1316	-327	-118	-627	-1268	-124	219	632	-87.1
4 1932 Federal Report Surplus Deficit	1109	185	190	-65.3	70.0	-460	-674	-1794	1676	2197	4151	4720	4005	2114	1148
5 1933 Federal Report Surplus Deficit	1190	757	670	150	230	1081	2108	2548	1661	1013	399	2400	6139	3997	1882
6 1934 Federal Report Surplus Deficit	3015	2045	787	733	2813	4277	4748	4685	3882	4601	4154	3207	2884	256	2918
7 1935 Federal Report Surplus Deficit	330	169	-99.8	89.8	-239	44.8	1959	2207	1832	-279	780	1757	1417	2190	968
8 1936 Federal Report Surplus Deficit	2412	261	115	69.2	275	-514	-1318	-910	111	-397	2989	4908	3482	1250	848
9 1937 Federal Report Surplus Deficit	579	-36.8	-63.8	191	568	-383	-1526	-1280	-422	-997	-1064	72.0	1675	403	-123
10 1938 Federal Report Surplus Deficit	850	82.7	294	124	319	407	1364	1556	2680	2735	4472	4276	2787	2446	1693
11 1939 Federal Report Surplus Deficit	418	-126	479	161	173	-628	469	758	634	313	1379	1734	810	827	531
12 1940 Federal Report Surplus Deficit	439	-77.8	10.7	249	627	559	854	242	2107	1427	649	2030	905	-297	712
13 1941 Federal Report Surplus Deficit	324	-198	169	-13.7	640	219	-257	35.8	508	-771	-1266	-318	915	533	122
14 1942 Federal Report Surplus Deficit	966	46.0	445	-75.3	822	1695	1443	1427	-118	-375	92.8	613	3963	3003	1127
15 1943 Federal Report Surplus Deficit	1505	912	914	206	88.2	51.9	2493	2231	2562	5166	5105	2799	5666	4360	2302
16 1944 Federal Report Surplus Deficit	1641	582	348	76.7	343	-539	-104	-205	-612	-1317	-1454	-604	388	-47.3	-103
17 1945 Federal Report Surplus Deficit	823	-198	100	-4.55	299	-380	-1113	-553	-244	-1192	-1274	1789	3772	118	238
18 1946 Federal Report Surplus Deficit	767	-14.2	163	40.5	508	520	1176	1604	1799	3783	4846	4848	2849	3058	1770
19 1947 Federal Report Surplus Deficit	2059	1064	649	45.3	972	2830	3460	3174	2871	2241	1389	4022	3490	2713	2298
20 1948 Federal Report Surplus Deficit	1214	389	502	2426	2114	1527	3248	2850	1708	1640	3109	6106	5949	3184	2730
21 1949 Federal Report Surplus Deficit	3051	2096	946	423	660	338	1213	1316	2852	2569	3652	4800	2723	250	1768
22 1950 Federal Report Surplus Deficit	233	-439	5.04	39.3	239	639	3151	3482	3267	3814	2348	3428	5889	4837	2319
23 1951 Federal Report Surplus Deficit	2967	1898	909	1089	2409	2942	4540	5130	4140	4285	3505	4619	3160	3781	3244
24 1952 Federal Report Surplus Deficit	2229	461	635	1912	1479	1632	3097	2955	1756	3966	5252	5868	3566	2513	2609
25 1953 Federal Report Surplus Deficit	1374	128	-46.5	120	334	-507	99.0	3941	1025	-1078	-97.4	2532	6023	4122	1462
26 1954 Federal Report Surplus Deficit	1599	844	674	365	961	1065	2600	3442	2508	1497	1296	4549	5002	4560	2356
27 1955 Federal Report Surplus Deficit	3840	3169	2603	493	1550	1001	292	618	-593	-702	-666	1662	6156	4668	1774
28 1956 Federal Report Surplus Deficit	2817	1287	531	640	2016	2821	4341	4373	4124	3540	5470	6059	5803	3532	3392
29 1957 Federal Report Surplus Deficit	2445	1664	743	591	602	1223	1420	666	2352	3469	1749	6165	6079	1592	2182
30 1958 Federal Report Surplus Deficit	1471	8.36	185	132	434	277	2178	2189	1625	708	2374	5198	4714	1291	1702
31 1959 Federal Report Surplus Deficit	1247	155	255	364	1530	2352	4064	4237	2195	2826	1404	3632	5151	4072	2543
32 1960 Federal Report Surplus Deficit	2718	2121	2997	3197	2914	2203	2447	2276	1911	4398	3000	1944	3897	2117	2663
33 1961 Federal Report Surplus Deficit	1936	144	320	306	903	490	2029	2499	3080	2540	706	3817	5244	1536	1898
34 1962 Federal Report Surplus Deficit	1318	402	154	31.5	517	498	1868	2440	415	1229	4396	3002	2998	1417	1406
35 1963 Federal Report Surplus Deficit	1653	601	300	840	1634	2057	2622	2290	538	-130	-434	2030	4061	2063	1602
36 1964 Federal Report Surplus Deficit	1326	280	809	63.2	564	441	901	1165	22.9	886	252	3139	6094	4341	1573
37 1965 Federal Report Surplus Deficit	2741	1904	1416	1010	1307	3041	4684	5394	4081	925	4827	5027	4213	2617	3154
38 1966 Federal Report Surplus Deficit	2665	1704	387	525	700	732	1627	1907	507	1537	784	1316	2772	1905	1305

Federal Report Surplus Deficit By Water Year

Operating Year 2021

2018 White Book Report Date: 12/1/2018 *Continued*

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Energy-aMW - Surplus Deficit	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
39 1967 Federal Report Surplus Deficit	1681	219	271	47.6	260	1225	3321	3538	2642	1104	-424	2972	5700	3544	2058
40 1968 Federal Report Surplus Deficit	2011	1239	757	412	1017	769	2186	2784	2846	-761	-700	1155	4136	2352	1602
41 1969 Federal Report Surplus Deficit	2188	1698	1850	1133	2125	1636	4002	4259	2995	3778	4868	5777	4238	2626	3064
42 1970 Federal Report Surplus Deficit	935	199	382	484	693	25.3	2053	2529	1083	-621	-588	2508	5054	1323	1330
43 1971 Federal Report Surplus Deficit	951	61.9	43.8	131	494	602	4437	4670	4076	3552	3108	6048	6088	4231	2876
44 1972 Federal Report Surplus Deficit	2989	2465	955	621	844	1065	3953	4620	5175	5086	2507	5650	5775	4145	3270
45 1973 Federal Report Surplus Deficit	3115	2755	1109	558	849	692	1631	1837	372	-1466	-1432	-389	978	290	780
46 1974 Federal Report Surplus Deficit	869	-203	69.5	72.5	316	1803	5255	5325	4797	4466	4774	5116	5946	4912	3200
47 1975 Federal Report Surplus Deficit	3251	2736	1032	-27.0	303	169	1868	2110	2618	-0.85	258	3657	5566	4762	2101
48 1976 Federal Report Surplus Deficit	2061	1402	1200	1256	2332	3702	3846	4378	3311	4249	3110	5787	4102	4038	3275
49 1977 Federal Report Surplus Deficit	4018	3941	3373	625	383	-426	157	-33.4	-598	-1341	-1383	-365	-160	-101	459
50 1978 Federal Report Surplus Deficit	849	-10.2	-347	-300	372	782	1488	1613	1379	3737	1294	3519	2381	2583	1365
51 1979 Federal Report Surplus Deficit	1617	640	1687	649	732	-306	874	223	1525	-314	537	3178	1193	6.57	921
52 1980 Federal Report Surplus Deficit	449	-289	281	164	350	-707	952	229	-220	1010	1815	5086	4224	1515	1115
53 1981 Federal Report Surplus Deficit	423	-131	488	130	815	2057	3511	3331	729	-1181	-289	3098	5689	3531	1890
54 1982 Federal Report Surplus Deficit	2913	2109	741	267	1100	776	2730	4478	5251	3576	1588	4868	5639	4893	2978
55 1983 Federal Report Surplus Deficit	2793	2458	1839	1166	1149	1262	3104	3625	3839	2484	1083	3463	3793	4129	2645
56 1984 Federal Report Surplus Deficit	2722	2161	1140	446	2608	1551	2839	2906	3216	2143	3796	3394	5350	3904	2725
57 1985 Federal Report Surplus Deficit	2255	709	1110	504	1139	659	1177	1221	649	1893	2407	2504	1081	363	1165
58 1986 Federal Report Surplus Deficit	-57.9	-501	288	728	1601	854	2193	3331	4306	3866	3362	2359	3653	1005	1956
59 1987 Federal Report Surplus Deficit	1117	-29.3	132	-33.1	984	745	582	31.4	1146	-224	179	2642	1151	-130	652
60 1988 Federal Report Surplus Deficit	405	-286	54.7	37.6	261	-767	-1201	-455	-139	-997	-131	-135	1037	1000	-68.1
61 1989 Federal Report Surplus Deficit	867	110	199	33.1	539	227	-386	-1168	1405	1511	4182	2387	1342	576	716
62 1990 Federal Report Surplus Deficit	532	-10.3	199	189	814	1265	1738	2985	1966	1267	3394	2354	4128	2037	1675
63 1991 Federal Report Surplus Deficit	2076	1157	232	6.46	2524	1766	3366	3133	2269	1614	861	2591	3932	3823	2202
64 1992 Federal Report Surplus Deficit	2823	1509	330	17.9	490	-702	167	156	427	-1023	-553	1596	576	-214	354
65 1993 Federal Report Surplus Deficit	544	-135	-63.6	24.6	450	-307	-878	-1348	687	-18.3	-779	3904	2728	1239	533
66 1994 Federal Report Surplus Deficit	830	145	264	172	648	-165	-756	27.7	-169	-887	361	870	834	778	226
67 1995 Federal Report Surplus Deficit	719	-60.6	151	78.8	82.5	-191	703	1617	2333	428	-703	2644	4118	2233	1159
68 1996 Federal Report Surplus Deficit	1159	176	751	1114	3176	5048	5025	5114	5222	3823	5326	4733	4631	3989	3661
69 1997 Federal Report Surplus Deficit	2582	1689	762	323	1029	1703	4841	5244	5101	4232	5367	5898	5884	4241	3485
70 1998 Federal Report Surplus Deficit	2617	2550	1755	2647	1985	686	1260	2740	1379	-257	-234	5081	5093	2492	2286
71 1999 Federal Report Surplus Deficit	2433	1229	261	149	237	1532	3803	4179	4130	2087	2655	3413	5354	4300	2621
72 2000 Federal Report Surplus Deficit	3711	2765	1066	297	2774	2101	1941	2149	2149	3278	4283	2882	816	1958	2094
73 2001 Federal Report Surplus Deficit	1841	-122	148	205	326	-502	-199	-174	-379	-1371	-1381	-196	-287	117	-122
74 2002 Federal Report Surplus Deficit	922	-138	-284	-381	269	188	-564	-10.2	417	1090	2786	1836	4942	3408	1012
75 2003 Federal Report Surplus Deficit	875	342	270	256	552	-408	-345	546	2082	599	522	740	4026	701	794
76 2004 Federal Report Surplus Deficit	115	-312	-213	104	907	690	83.9	-340	521	345	191	1178	2323	702	513
77 2005 Federal Report Surplus Deficit	364	214	1016	618	753	1015	1392	2027	543	-1167	-680	1338	1804	1091	907

Federal Report Surplus Deficit By Water Year

Operating Year 2021

2018 White Book Report Date: **12/1/2018** *Continued*

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Energy-aMW - Surplus Deficit	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
78 2006 Federal Report Surplus Deficit	864	-9.02	28.0	100	953	703	2631	3262	1944	4305	4121	4739	4965	1677	2122
79 2007 Federal Report Surplus Deficit	566	-201	-277	23.9	970	811	1998	1381	3201	1784	475	3070	2676	1756	1412
80 2008 Federal Report Surplus Deficit	518	-384	-489	239	792	-21.3	201	463	678	-82.9	-608	3652	6284	3142	1223
Ranked Averages															
81 Bottom 10 pct	911	111	171	123	424	-428	-828	-370	-184	-957	-1043	-258	862	387	-49.4
82 Middle 80 pct	1575	743	575	394	888	734	1645	1874	1726	1352	1531	3094	3753	2235	1623
83 Top 10 pct	2273	1327	824	766	1679	2766	4561	4947	4494	3826	4361	5361	4939	3907	3335

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Federal Report Surplus Deficit By Water Year

Operating Year 2022

2018 White Book Report Date: 12/1/2018

S166-WB-20190220-091000

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	764	397	75.0	-196	-2.80	-903	-898	-575	-418	-1275	-1403	77.8	3019	-394	-83.2
2 1930 Federal Report Surplus Deficit	475	-184	9.01	-164	131	-890	-1675	-551	-463	-565	-865	202	993	548	-204
3 1931 Federal Report Surplus Deficit	671	-114	-82.9	-152	104	-711	-1592	-615	-402	-751	-1511	406	705	480	-225
4 1932 Federal Report Surplus Deficit	910	-94.6	-45.5	-398	-269	-810	-951	-2081	1330	2080	3687	5082	4409	1963	975
5 1933 Federal Report Surplus Deficit	992	468	435	-183	-110	691	1770	2139	1344	805	221	2693	6290	4218	1706
6 1934 Federal Report Surplus Deficit	2817	1755	551	400	2311	3678	3964	4328	3496	4377	3712	2996	3231	104	2601
7 1935 Federal Report Surplus Deficit	131	-111	-335	-243	-579	-305	1617	1807	1473	-401	537	2242	1960	2038	810
8 1936 Federal Report Surplus Deficit	2213	-19.1	-121	-264	-64.6	-863	-1595	-1198	-174	-515	2757	5259	3921	1097	691
9 1937 Federal Report Surplus Deficit	381	-317	-299	-142	228	-733	-1803	-1568	-707	-1140	-1307	637	2204	251	-256
10 1938 Federal Report Surplus Deficit	652	-197	58.7	-210	-20.3	56.9	1010	1167	2345	2582	4190	4190	3230	2296	1477
11 1939 Federal Report Surplus Deficit	220	-406	244	-172	-166	-978	245	408	350	159	1208	2356	1344	674	406
12 1940 Federal Report Surplus Deficit	240	-358	-225	-83.7	287	208	555	-46.1	1766	1316	406	2655	1433	-449	579
13 1941 Federal Report Surplus Deficit	136	-478	-66.5	-347	292	-131	-534	-257	229	-902	-1509	242	1456	380	-9.54
14 1942 Federal Report Surplus Deficit	768	-234	209	-408	463	1246	1110	1060	-402	-483	-150	1213	4335	2855	965
15 1943 Federal Report Surplus Deficit	1271	600	678	-127	-251	-298	2100	1827	2109	5120	4967	3383	5861	4311	2125
16 1944 Federal Report Surplus Deficit	1443	292	113	-256	3.55	-889	-326	-556	-896	-1463	-1697	-98.2	933	-200	-241
17 1945 Federal Report Surplus Deficit	634	-478	-136	-338	-40.5	-730	-1390	-840	-529	-1335	-1517	2375	4137	-34.4	94.3
18 1946 Federal Report Surplus Deficit	569	-294	-72.9	-293	169	170	829	1262	1483	3582	4432	4462	3313	2918	1529
19 1947 Federal Report Surplus Deficit	1861	784	414	-288	633	2356	3055	2629	2496	2188	1222	4447	3865	2564	2099
20 1948 Federal Report Surplus Deficit	1015	109	266	2041	1694	1106	2871	2446	1424	1435	2920	5799	5997	3021	2448
21 1949 Federal Report Surplus Deficit	2852	1806	711	89.8	321	-12.1	889	957	2480	2363	3472	5131	3150	97.9	1590
22 1950 Federal Report Surplus Deficit	35.0	-719	-231	-294	-100	262	2687	2807	3090	3665	2158	3490	5976	4970	2095
23 1951 Federal Report Surplus Deficit	2769	1608	673	756	1952	2485	3887	4321	3798	4056	3270	4366	3545	3748	2941
24 1952 Federal Report Surplus Deficit	2030	181	399	1560	1093	1205	2719	2552	1457	3673	5002	5527	3934	2363	2349
25 1953 Federal Report Surplus Deficit	1176	-162	-282	-213	-5.84	-856	-140	3499	721	-1211	-340	3148	6292	3989	1304
26 1954 Federal Report Surplus Deficit	1400	554	438	31.7	619	664	2252	3033	2065	1423	1107	4149	5022	4729	2098
27 1955 Federal Report Surplus Deficit	3622	2879	2367	160	1148	617	15.6	330	-877	-840	-906	2302	6165	4833	1623
28 1956 Federal Report Surplus Deficit	2618	997	296	307	1582	2379	3967	3985	3840	3397	5178	5623	5722	3380	3089
29 1957 Federal Report Surplus Deficit	2247	1374	507	258	262	812	1079	381	1973	3270	1519	5944	6115	1439	1921
30 1958 Federal Report Surplus Deficit	1273	-272	-50.8	-201	94.1	-72.6	1785	1786	1327	586	2131	5559	4919	1139	1507
31 1959 Federal Report Surplus Deficit	1049	-125	19.4	30.7	1133	1877	3604	3922	1862	2740	1214	3311	5249	4097	2282
32 1960 Federal Report Surplus Deficit	2515	1828	2761	2735	2448	1730	2216	1713	1564	4181	2786	2562	4259	1965	2464
33 1961 Federal Report Surplus Deficit	1738	-146	84.3	-27.4	564	140	1636	2096	2710	2403	501	3588	5343	1383	1638
34 1962 Federal Report Surplus Deficit	1120	122	-81.2	-302	177	148	1626	1876	120	1159	4110	3413	3436	1268	1235
35 1963 Federal Report Surplus Deficit	1455	320	64.3	507	1235	1593	2152	1886	253	-248	-677	2670	4361	1912	1418
36 1964 Federal Report Surplus Deficit	1128	0.29	573	-270	225	90.7	653	799	-272	789	11.7	3577	6335	4463	1427
37 1965 Federal Report Surplus Deficit	2835	1614	1180	677	941	2628	4470	4696	3744	913	4608	4643	4474	2462	2898
38 1966 Federal Report Surplus Deficit	2467	1424	151	192	360	370	1361	1436	216	1430	541	1960	3284	1753	1164

Federal Report Surplus Deficit By Water Year

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Energy-aMW - Surplus Deficit	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
39 1967 Federal Report Surplus Deficit	1482	-60.8	35.5	-285	-79.0	820	2869	3071	2302	1046	-667	3059	5761	3533	1823
40 1968 Federal Report Surplus Deficit	1813	949	522	78.7	652	392	1793	2381	2477	-905	-938	1820	4417	2199	1426
41 1969 Federal Report Surplus Deficit	1990	1418	1614	800	1706	1223	3677	3967	2418	3485	4383	5449	4478	2464	2774
42 1970 Federal Report Surplus Deficit	736	-80.9	146	151	353	-325	1660	2125	699	-680	-808	3155	5297	1170	1158
43 1971 Federal Report Surplus Deficit	752	-228	-192	-202	155	252	4047	4238	3675	3419	2934	5577	6030	4107	2582
44 1972 Federal Report Surplus Deficit	2791	2175	719	288	504	689	3456	4044	5068	4672	2264	5249	5757	4134	2982
45 1973 Federal Report Surplus Deficit	2916	2465	874	225	509	322	1273	1481	87.3	-1638	-1675	140	1523	138	630
46 1974 Federal Report Surplus Deficit	671	-483	-166	-261	-23.8	1329	4552	4960	4561	4325	4331	4836	5965	5043	2921
47 1975 Federal Report Surplus Deficit	3053	2446	796	-360	-36.5	-181	1517	1671	2221	-49.9	14.7	3732	5710	4686	1878
48 1976 Federal Report Surplus Deficit	1863	1112	964	923	1890	3351	3482	3990	2938	4079	2876	5514	4431	4175	3047
49 1977 Federal Report Surplus Deficit	3909	3632	3138	292	44.0	-776	-174	-256	-883	-1518	-1626	66.2	331	-254	313
50 1978 Federal Report Surplus Deficit	661	-290	-583	-633	32.7	328	1152	1213	1144	3482	1062	3570	2851	2425	1162
51 1979 Federal Report Surplus Deficit	1419	350	1451	316	392	-656	593	-64.2	1231	-485	327	3772	1739	-146	791
52 1980 Federal Report Surplus Deficit	250	-569	45.3	-169	10.3	-1057	653	-58.2	-504	871	1572	5086	4565	1366	918
53 1981 Federal Report Surplus Deficit	225	-411	253	-203	475	1583	2934	2927	444	-1390	-518	3645	5801	3491	1684
54 1982 Federal Report Surplus Deficit	2714	1819	505	-65.7	740	396	2337	4240	4789	3455	1373	4803	5788	4992	2758
55 1983 Federal Report Surplus Deficit	2888	2168	1604	833	792	834	2711	3237	3585	2293	868	3987	4108	4097	2489
56 1984 Federal Report Surplus Deficit	2523	1871	904	113	2142	1127	2446	2503	2876	1999	3576	3909	5604	3785	2529
57 1985 Federal Report Surplus Deficit	2057	419	874	171	791	309	896	843	365	1770	2164	3112	1623	210	1030
58 1986 Federal Report Surplus Deficit	-256	-780	52.8	395	1206	490	1800	2959	4055	3620	3116	2937	4033	854	1788
59 1987 Federal Report Surplus Deficit	918	-309	-104	-366	644	377	305	-256	861	-483	1.76	3060	1630	-283	499
60 1988 Federal Report Surplus Deficit	207	-566	-181	-295	-78.5	-1117	-1477	-743	-423	-1136	-374	438	1572	848	-200
61 1989 Federal Report Surplus Deficit	678	-170	-36.5	-300	200	-123	-687	-1454	1081	1395	3965	3002	1872	424	585
62 1990 Federal Report Surplus Deficit	344	-290	-36.7	-144	475	877	1421	2495	1710	1146	3189	2567	4294	1890	1466
63 1991 Federal Report Surplus Deficit	1878	867	-3.64	-327	2075	1321	2889	2612	1905	1560	708	3035	4228	3877	2005
64 1992 Federal Report Surplus Deficit	2916	1219	94.1	-315	151	-1052	-110	-132	143	-1167	-796	2173	1046	-367	229
65 1993 Federal Report Surplus Deficit	346	-415	-299	-308	110	-657	-1155	-1636	402	-123	-1048	4394	3299	997	390
66 1994 Federal Report Surplus Deficit	636	-142	28.0	-161	308	-515	-1033	-260	-453	-1028	118	1467	1344	626	94.8
67 1995 Federal Report Surplus Deficit	531	-341	-85.1	-254	-257	-541	409	1218	1960	297	-942	3203	4467	2080	995
68 1996 Federal Report Surplus Deficit	961	-104	516	781	2680	4303	4310	4708	4935	3609	4868	4583	4908	3956	3353
69 1997 Federal Report Surplus Deficit	2384	1409	526	-10.1	690	1249	4462	4832	4814	4044	4887	5485	5771	4314	3197
70 1998 Federal Report Surplus Deficit	2712	2260	1520	2226	1574	325	910	2337	1094	-373	-477	5403	5423	2339	2099
71 1999 Federal Report Surplus Deficit	1941	949	25.5	-184	-103	1093	3364	3618	4055	1879	2499	3905	5543	4515	2450
72 2000 Federal Report Surplus Deficit	3717	2475	830	-35.6	2255	1628	1560	1745	1798	3099	4034	3369	1361	1805	1914
73 2001 Federal Report Surplus Deficit	1643	-402	-87.3	-128	-13.1	-852	-367	-592	-663	-1516	-1624	375	218	-35.0	-257
74 2002 Federal Report Surplus Deficit	724	-417	-520	-714	-70.1	-162	-841	-298	132	937	2617	2462	5053	3256	852
75 2003 Federal Report Surplus Deficit	676	51.6	34.7	-77.0	213	-758	-622	246	1743	460	303	1359	4339	548	643
76 2004 Federal Report Surplus Deficit	-83.4	-592	-449	-229	555	336	-193	-628	237	202	-30.7	1828	2825	549	385
77 2005 Federal Report Surplus Deficit	166	-66.4	780	285	412	631	1052	1650	259	-1306	-947	1948	2368	939	765

Federal Report Surplus Deficit By Water Year

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Energy-aMW - Surplus Deficit	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
78 2006 Federal Report Surplus Deficit	666	-289	-208	-233	613	353	2321	2754	1649	4019	3945	5110	5031	1525	1911
79 2007 Federal Report Surplus Deficit	368	-481	-513	-309	609	446	1605	1022	2830	1609	252	3592	3161	1604	1246
80 2008 Federal Report Surplus Deficit	319	-664	-724	-94.2	453	-371	-76.0	176	394	-213	-840	4145	6291	2990	1042
Ranked Averages															
81 Bottom 10 pct	715	-171	-65.0	-210	83.1	-778	-1084	-682	-468	-1094	-1286	285	1388	235	-184
82 Middle 80 pct	1390	459	339	56.4	527	350	1297	1495	1406	1203	1296	3427	4069	2131	1436
83 Top 10 pct	2111	1041	588	433	1277	2302	4073	4442	4212	3637	4035	5037	5072	3901	3053

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Federal Report Surplus Deficit By Water Year

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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	624	351	-80.5	-265	-73.5	-978	-911	-639	-454	-1363	-1439	-540	2437	-442	-240
2 1930 Federal Report Surplus Deficit	331	-255	-141	-233	60.7	-965	-1709	-588	-499	-653	-901	-416	409	500	-362
3 1931 Federal Report Surplus Deficit	520	-190	-233	-221	33.3	-786	-1627	-652	-438	-839	-1548	-212	121	432	-384
4 1932 Federal Report Surplus Deficit	750	-192	-195	-468	-340	-885	-986	-2118	1203	1964	3884	4548	3937	1912	832
5 1933 Federal Report Surplus Deficit	848	404	283	-252	-180	573	1607	2022	1249	716	185	2406	5647	3997	1531
6 1934 Federal Report Surplus Deficit	2674	1698	396	330	2260	3714	3866	4120	3357	4223	3987	2924	2569	56.5	2477
7 1935 Federal Report Surplus Deficit	-25.9	-204	-485	-313	-649	-399	1451	1688	1392	-502	501	1800	1379	1988	642
8 1936 Federal Report Surplus Deficit	2065	-93.3	-271	-333	-135	-938	-1629	-1235	-210	-596	2709	4759	3351	1049	544
9 1937 Federal Report Surplus Deficit	231	-393	-449	-211	158	-808	-1838	-1605	-743	-1227	-1343	18.8	1621	203	-414
10 1938 Federal Report Surplus Deficit	499	-283	-91.9	-279	-91.0	-45.6	892	1085	2175	2485	4147	4069	2689	2242	1339
11 1939 Federal Report Surplus Deficit	77.7	-470	92.9	-242	-237	-1053	101	381	313	90.0	1164	1738	761	626	240
12 1940 Federal Report Surplus Deficit	88.3	-441	-375	-153	217	90.7	434	-87.3	1631	1223	370	2037	851	-497	401
13 1941 Federal Report Surplus Deficit	-23.9	-573	-216	-416	213	-233	-570	-290	183	-990	-1545	-375	873	333	-173
14 1942 Federal Report Surplus Deficit	624	-296	58.2	-478	384	1128	990	937	-438	-570	-187	595	3880	2798	799
15 1943 Federal Report Surplus Deficit	1165	572	524	-196	-322	-373	1980	1705	1970	4761	4880	2765	5254	4268	1933
16 1944 Federal Report Surplus Deficit	1301	249	-42.2	-326	-67.1	-964	-415	-530	-933	-1551	-1734	-716	350	-247	-397
17 1945 Federal Report Surplus Deficit	489	-548	-285	-407	-111	-805	-1425	-877	-565	-1423	-1553	1757	3663	-81.9	-54.6
18 1946 Federal Report Surplus Deficit	427	-357	-225	-362	98.2	70.3	847	973	1352	3372	4590	4295	2769	2867	1391
19 1947 Federal Report Surplus Deficit	1720	728	259	-357	555	2238	2920	2604	2359	2096	1185	3822	3353	2515	1926
20 1948 Federal Report Surplus Deficit	875	55.6	109	1929	1606	989	2751	2324	1308	1340	2884	5589	5402	2968	2295
21 1949 Federal Report Surplus Deficit	2709	1761	555	20.4	250	-99.5	769	835	2343	2248	3435	4506	2629	50.4	1413
22 1950 Federal Report Surplus Deficit	-109	-787	-383	-363	-171	145	2573	2846	2824	3485	2122	3359	5343	4661	1924
23 1951 Federal Report Surplus Deficit	2627	1562	516	687	1866	2368	3788	4157	3652	3877	3288	4253	3055	3628	2797
24 1952 Federal Report Surplus Deficit	1888	128	240	1448	1014	1088	2599	2430	1338	3479	5004	5349	3438	2312	2204
25 1953 Federal Report Surplus Deficit	1036	-209	-432	-282	-76.5	-931	-250	3384	676	-1299	-377	2547	5688	3953	1135
26 1954 Federal Report Surplus Deficit	1261	508	286	-37.8	539	546	2088	2916	1956	1357	1072	4038	4456	4489	1942
27 1955 Federal Report Surplus Deficit	3518	2834	2200	90.3	1068	499	-61.0	252	-914	-911	-945	1702	5614	4556	1441
28 1956 Federal Report Surplus Deficit	2477	950	142	237	1494	2261	3800	3816	3664	3207	5164	5422	5161	3337	2929
29 1957 Federal Report Surplus Deficit	2106	1330	352	188	192	694	960	299	1845	3101	1483	5761	5441	1388	1768
30 1958 Federal Report Surplus Deficit	1133	-323	-201	-271	23.4	-148	1665	1663	1199	499	2094	4934	4495	1092	1341
31 1959 Federal Report Surplus Deficit	908	-183	-131	-38.7	1054	1760	3537	3655	1726	2619	1177	3181	4697	3987	2129
32 1960 Federal Report Surplus Deficit	2378	1785	2592	2623	2361	1612	1965	1750	1445	3986	2803	1944	3773	1914	2284
33 1961 Federal Report Surplus Deficit	1597	-199	-70.1	-96.9	487	38.4	1516	1973	2575	2307	469	3490	4773	1335	1501
34 1962 Federal Report Surplus Deficit	969	45.6	-233	-371	106	59.3	1464	1807	93.0	1055	4178	3013	2888	1220	1088
35 1963 Federal Report Surplus Deficit	1315	269	-88.4	437	1156	1475	2070	1764	215	-335	-714	2052	3935	1863	1258
36 1964 Federal Report Surplus Deficit	987	-56.7	419	-339	154	-11.9	495	732	-298	689	-24.6	3120	5724	4350	1261
37 1965 Federal Report Surplus Deficit	2403	1570	1021	608	862	2511	4454	4237	3586	761	4583	4470	3943	2403	2722
38 1966 Federal Report Surplus Deficit	2327	1383	-9.37	122	283	253	1153	1424	185	1333	505	1342	2687	1703	988

Federal Report Surplus Deficit By Water Year

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Energy-aMW - Surplus Deficit	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
39 1967 Federal Report Surplus Deficit	1335	-134	-118	-355	-150	703	2777	2987	2161	958	-704	2899	5099	3428	1672
40 1968 Federal Report Surplus Deficit	1672	901	370	9.24	573	274	1673	2258	2337	-968	-976	1208	3970	2153	1255
41 1969 Federal Report Surplus Deficit	1849	1372	1453	724	1620	1105	3525	3676	2476	3324	4606	5231	3991	2419	2639
42 1970 Federal Report Surplus Deficit	595	-141	-7.91	81.8	283	-401	1540	2003	636	-768	-844	2556	4733	1121	987
43 1971 Federal Report Surplus Deficit	612	-276	-345	-271	84.3	140	3872	4062	3550	3258	2886	5367	5436	4008	2418
44 1972 Federal Report Surplus Deficit	2650	2131	563	219	434	571	3380	4036	4747	4667	2228	4999	5154	4107	2831
45 1973 Federal Report Surplus Deficit	2773	2421	718	156	439	204	1153	1359	49.9	-1726	-1711	-478	940	90.2	455
46 1974 Federal Report Surplus Deficit	523	-558	-317	-330	-94.5	1211	4431	4759	4359	4094	4569	4556	5337	4791	2738
47 1975 Federal Report Surplus Deficit	2913	2405	641	-429	-107	-269	1356	1611	2076	-140	-21.6	3604	5181	4663	1746
48 1976 Federal Report Surplus Deficit	1722	1071	804	839	1803	3233	3351	3821	2802	3874	2840	5324	3990	3996	2889
49 1977 Federal Report Surplus Deficit	3842	3361	2960	222	-26.7	-851	-189	-358	-919	-1606	-1662	-552	-253	-301	144
50 1978 Federal Report Surplus Deficit	498	-388	-732	-702	-38.0	211	1032	1134	976	3318	1015	3436	2278	2374	1015
51 1979 Federal Report Surplus Deficit	1277	305	1291	247	322	-731	473	-103	1128	-566	290	3154	1156	-193	620
52 1980 Federal Report Surplus Deficit	102	-632	-106	-239	-60.3	-1132	546	-95.3	-541	779	1536	4828	4124	1318	796
53 1981 Federal Report Surplus Deficit	82.0	-471	96.0	-272	401	1465	2894	2788	383	-1478	-554	3119	5205	3398	1515
54 1982 Federal Report Surplus Deficit	2572	1765	351	-135	661	278	2217	4155	4496	3264	1329	4625	5206	4842	2588
55 1983 Federal Report Surplus Deficit	2454	2125	1448	763	713	716	2591	3068	3373	2179	832	3369	3588	4022	2285
56 1984 Federal Report Surplus Deficit	2382	1828	748	43.4	2055	1009	2326	2381	2734	1886	3533	3284	4989	3740	2339
57 1985 Federal Report Surplus Deficit	1919	378	719	102	712	195	731	775	328	1672	2128	2494	1037	162	855
58 1986 Federal Report Surplus Deficit	-402	-854	-106	326	1129	372	1680	2767	3849	3459	3083	2310	3578	806	1598
59 1987 Federal Report Surplus Deficit	775	-372	-257	-436	567	259	204	-293	776	-572	-34.5	2615	1046	-330	342
60 1988 Federal Report Surplus Deficit	53.3	-647	-332	-365	-149	-1192	-1512	-780	-460	-1224	-410	-180	989	800	-359
61 1989 Federal Report Surplus Deficit	520	-261	-186	-369	129	-214	-722	-1491	990	1285	3986	2384	1287	377	421
62 1990 Federal Report Surplus Deficit	192	-364	-192	-213	404	759	1251	2427	1578	1047	3183	2321	3794	1837	1321
63 1991 Federal Report Surplus Deficit	1732	813	-157	-396	1989	1203	2752	2576	1783	1465	671	2545	3730	3791	1841
64 1992 Federal Report Surplus Deficit	2481	1163	-58.6	-385	80.0	-1127	-178	-169	106	-1255	-832	1555	462	-414	56.4
65 1993 Federal Report Surplus Deficit	190	-506	-449	-378	39.5	-732	-1190	-1673	365	-211	-1058	3759	2619	1039	230
66 1994 Federal Report Surplus Deficit	488	-186	-130	-231	238	-590	-1068	-297	-489	-1116	81.9	849	760	578	-62.7
67 1995 Federal Report Surplus Deficit	377	-427	-235	-324	-328	-616	313	1096	1827	229	-983	2585	4012	2030	827
68 1996 Federal Report Surplus Deficit	821	-151	362	711	2623	4326	4211	4517	4774	3428	5024	4462	4346	3845	3220
69 1997 Federal Report Surplus Deficit	2244	1362	371	-79.5	617	1132	4401	4523	4467	3830	5029	5238	5181	4168	3011
70 1998 Federal Report Surplus Deficit	2279	2220	1361	2114	1487	208	790	2214	1009	-461	-514	4778	4937	2286	1911
71 1999 Federal Report Surplus Deficit	1801	894	-126	-254	-174	975	3242	3622	3684	1774	2473	3313	4892	4246	2234
72 2000 Federal Report Surplus Deficit	3373	2433	678	-105	2222	1510	1440	1623	1666	2982	4050	2891	778	1757	1739
73 2001 Federal Report Surplus Deficit	1501	-472	-239	-198	-83.8	-927	-412	-629	-700	-1604	-1660	-243	-367	-82.5	-416
74 2002 Federal Report Surplus Deficit	573	-503	-670	-783	-141	-237	-772	-411	51.8	841	2581	1844	4545	3199	698
75 2003 Federal Report Surplus Deficit	535	-1.07	-117	-146	142	-833	-657	160	1613	372	267	741	3886	500	485
76 2004 Federal Report Surplus Deficit	-231	-667	-599	-298	476	219	-230	-665	200	112	-67.0	1210	2250	502	223
77 2005 Federal Report Surplus Deficit	20.3	-124	619	215	333	513	932	1528	222	-1394	-959	1320	1786	892	589

Federal Report Surplus Deficit By Water Year

Operating Year 2023

2018 White Book Report Date: **12/1/2018** *Continued*

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Energy-aMW - Surplus Deficit	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
78 2006 Federal Report Surplus Deficit	517	-365	-361	-302	536	245	2118	2737	1519	3849	3909	4459	4520	1476	1728
79 2007 Federal Report Surplus Deficit	220	-556	-663	-379	531	328	1485	900	2689	1528	231	3073	2545	1556	1067
80 2008 Federal Report Surplus Deficit	167	-745	-874	-164	382	-446	-132	111	357	-300	-877	3537	5749	2939	884
Ranked Averages															
81 Bottom 10 pct	567	-241	-217	-279	11.3	-857	-1124	-714	-505	-1181	-1323	-333	804	187	-343
82 Middle 80 pct	1231	395	185	-15.8	453	250	1189	1402	1302	1091	1280	2964	3515	2061	1272
83 Top 10 pct	1933	992	433	361	1201	2202	3977	4233	4006	3467	4091	4840	4521	3784	2892

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Federal Report Surplus Deficit By Water Year

Operating Year 2024

2018 White Book Report Date: 12/1/2018

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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	583	307	-112	-247	-35.2	-943	-884	-434	-420	-1318	-1446	45.1	2969	-420	-122
2 1930 Federal Report Surplus Deficit	290	-299	-178	-215	99.0	-930	-1661	-409	-465	-607	-907	169	951	522	-243
3 1931 Federal Report Surplus Deficit	480	-234	-270	-203	71.5	-751	-1578	-474	-405	-794	-1554	373	663	454	-265
4 1932 Federal Report Surplus Deficit	709	-236	-233	-449	-302	-850	-937	-1940	1226	1998	3877	5133	4456	1933	940
5 1933 Federal Report Surplus Deficit	807	360	248	-234	-142	608	1699	2195	1247	757	179	2992	6060	3973	1637
6 1934 Federal Report Surplus Deficit	2633	1654	364	349	2298	3748	3915	4299	3405	4265	3978	3509	3072	78.1	2599
7 1935 Federal Report Surplus Deficit	-66.8	-248	-522	-294	-610	-365	1546	1863	1367	-446	494	2385	1907	2011	762
8 1936 Federal Report Surplus Deficit	2024	-137	-308	-315	-97.0	-904	-1581	-1057	-176	-563	2707	5345	3858	1072	656
9 1937 Federal Report Surplus Deficit	190	-437	-487	-193	196	-774	-1789	-1427	-709	-1182	-1350	604	2136	225	-300
10 1938 Federal Report Surplus Deficit	458	-327	-128	-260	-52.7	-10.8	939	1223	2240	2510	4149	4655	3167	2264	1451
11 1939 Federal Report Surplus Deficit	36.8	-514	56.5	-223	-199	-1018	197	502	347	115	1166	2324	1298	648	359
12 1940 Federal Report Surplus Deficit	47.4	-485	-412	-135	255	125	483	90.9	1667	1260	363	2623	1388	-475	519
13 1941 Federal Report Surplus Deficit	-64.8	-617	-254	-398	251	-199	-521	-117	223	-945	-1551	210	1411	355	-53.7
14 1942 Federal Report Surplus Deficit	583	-340	22.0	-459	422	1163	1038	1116	-404	-526	-193	1180	4345	2820	913
15 1943 Federal Report Surplus Deficit	1124	528	491	-178	-284	-339	2029	1883	2005	4796	4874	3350	5797	4237	2047
16 1944 Federal Report Surplus Deficit	1264	205	-74.3	-307	-28.9	-930	-317	-414	-899	-1505	-1740	-131	891	-226	-278
17 1945 Federal Report Surplus Deficit	448	-592	-323	-389	-72.9	-770	-1376	-699	-531	-1378	-1560	2343	4163	-61.1	59.2
18 1946 Federal Report Surplus Deficit	386	-401	-260	-344	137	105	758	1318	1387	3410	4583	4831	3256	2886	1502
19 1947 Federal Report Surplus Deficit	1679	684	227	-339	593	2273	3022	2685	2393	2124	1179	4407	3838	2532	2039
20 1948 Federal Report Surplus Deficit	834	11.6	78.9	1947	1644	1023	2800	2502	1344	1370	2877	6146	5867	2996	2406
21 1949 Federal Report Surplus Deficit	2672	1717	511	38.8	288	-64.7	818	1013	2377	2270	3429	5091	3115	71.8	1525
22 1950 Federal Report Surplus Deficit	-150	-831	-418	-345	-132	180	2654	2863	2983	3498	2116	3926	5818	4696	2040
23 1951 Federal Report Surplus Deficit	2590	1521	486	705	1904	2402	3837	4335	3683	3886	3282	4806	3540	3635	2911
24 1952 Federal Report Surplus Deficit	1849	83.8	212	1467	1052	1122	2648	2608	1355	3526	4997	5907	3934	2333	2318
25 1953 Federal Report Surplus Deficit	995	-253	-469	-264	-38.2	-897	-148	3526	691	-1254	-383	3132	6160	3988	1256
26 1954 Federal Report Surplus Deficit	1220	464	251	-19.3	578	581	2180	3089	1966	1361	1067	4623	4930	4499	2058
27 1955 Federal Report Surplus Deficit	3442	2792	2030	109	1107	534	-12.1	430	-880	-882	-949	2270	6028	4581	1533
28 1956 Federal Report Surplus Deficit	2438	906	109	256	1532	2296	3849	3995	3712	3238	5143	5942	5621	3340	3037
29 1957 Federal Report Surplus Deficit	2066	1286	320	207	230	729	1008	480	1871	3157	1477	6335	5902	1413	1877
30 1958 Federal Report Surplus Deficit	1092	-367	-238	-252	61.7	-113	1714	1842	1231	531	2088	5519	4885	1108	1448
31 1959 Federal Report Surplus Deficit	867	-227	-168	-20.3	1092	1794	3509	3931	1755	2647	1171	3766	5181	3991	2247
32 1960 Federal Report Surplus Deficit	2339	1741	2407	2641	2399	1647	2145	1769	1477	3983	2796	2529	4273	1939	2383
33 1961 Federal Report Surplus Deficit	1556	-243	-103	-78.4	525	73.2	1565	2152	2606	2342	465	4075	5218	1357	1614
34 1962 Federal Report Surplus Deficit	928	1.58	-268	-352	145	94.1	1555	1932	116	1083	4171	3598	3407	1241	1205
35 1963 Federal Report Surplus Deficit	1274	225	-123	456	1194	1510	2119	1942	250	-290	-720	2637	4395	1886	1373
36 1964 Federal Report Surplus Deficit	946	-101	386	-321	193	22.9	590	856	-275	744	-31.0	3687	6166	4375	1369
37 1965 Federal Report Surplus Deficit	2363	1526	961	626	900	2545	4372	4683	3624	849	4577	5009	4486	2432	2853
38 1966 Federal Report Surplus Deficit	2289	1340	-35.9	141	321	287	1290	1492	214	1380	499	1927	3187	1726	1105

Federal Report Surplus Deficit By Water Year

Operating Year 2024

2018 White Book Report Date: 12/1/2018 *Continued*

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Energy-aMW - Surplus Deficit	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
39 1967 Federal Report Surplus Deficit	1294	-178	-152	-336	-111	738	2836	3127	2191	1003	-710	3484	5542	3459	1785
40 1968 Federal Report Surplus Deficit	1631	857	335	27.7	611	309	1722	2437	2375	-943	-978	1791	4419	2171	1369
41 1969 Federal Report Surplus Deficit	1808	1329	1347	743	1658	1140	3592	3981	2301	3306	4565	5793	4497	2435	2741
42 1970 Federal Report Surplus Deficit	554	-185	-41.2	100	321	-366	1589	2181	667	-723	-850	3122	5279	1143	1108
43 1971 Federal Report Surplus Deficit	571	-320	-379	-253	123	175	3949	4225	3548	3309	2892	5898	5884	4032	2529
44 1972 Federal Report Surplus Deficit	2612	2087	532	237	472	606	3412	4059	4900	4666	2222	5510	5569	4077	2928
45 1973 Federal Report Surplus Deficit	2736	2377	682	174	477	239	1202	1537	84.8	-1680	-1717	107	1476	112	577
46 1974 Federal Report Surplus Deficit	482	-602	-353	-312	-56.2	1246	4480	4937	4398	4120	4543	5107	5808	4794	2851
47 1975 Federal Report Surplus Deficit	2874	2361	609	-411	-68.9	-234	1446	1727	2122	-94.9	-27.9	4170	5702	4742	1867
48 1976 Federal Report Surplus Deficit	1685	1030	754	857	1841	3268	3400	4000	2821	3889	2833	5859	4476	3989	2997
49 1977 Federal Report Surplus Deficit	3730	3548	2747	241	11.6	-816	-189	-114	-885	-1561	-1669	33.5	289	-280	256
50 1978 Federal Report Surplus Deficit	457	-432	-770	-684	0.27	245	1080	1269	1054	3320	1020	4022	2803	2402	1133
51 1979 Federal Report Surplus Deficit	1238	262	1196	265	360	-696	522	75.4	1161	-529	286	3739	1686	-172	732
52 1980 Federal Report Surplus Deficit	61.5	-676	-142	-220	-22.1	-1097	595	83.0	-507	814	1529	5384	4547	1340	900
53 1981 Federal Report Surplus Deficit	41.1	-515	65.7	-254	440	1500	2943	2967	414	-1432	-561	3704	5745	3408	1637
54 1982 Federal Report Surplus Deficit	2531	1721	318	-117	699	313	2266	4227	4595	3313	1330	5211	5689	4836	2702
55 1983 Federal Report Surplus Deficit	2709	2081	1340	782	751	751	2640	3247	3398	2226	826	3954	4101	4082	2414
56 1984 Federal Report Surplus Deficit	2344	1784	706	61.8	2093	1044	2375	2559	2770	1923	3526	3869	5503	3741	2455
57 1985 Federal Report Surplus Deficit	1879	334	680	120	750	230	825	899	361	1708	2122	3079	1569	184	972
58 1986 Federal Report Surplus Deficit	-443	-898	-134	344	1167	407	1729	2946	3862	3452	3073	2904	4048	828	1713
59 1987 Federal Report Surplus Deficit	734	-416	-291	-417	605	294	253	-115	812	-526	-40.9	3200	1580	-309	459
60 1988 Federal Report Surplus Deficit	12.4	-691	-368	-346	-111	-1157	-1463	-602	-426	-1179	-417	405	1520	822	-241
61 1989 Federal Report Surplus Deficit	479	-305	-224	-351	167	-179	-673	-1313	1028	1324	3980	2969	1823	398	535
62 1990 Federal Report Surplus Deficit	151	-408	-224	-195	443	794	1350	2551	1612	1066	3177	2906	4223	1861	1434
63 1991 Federal Report Surplus Deficit	1691	769	-191	-378	2028	1238	2827	2668	1804	1503	665	3130	4233	3780	1951
64 1992 Federal Report Surplus Deficit	2441	1119	-92.9	-366	118	-1092	-129	9.55	140	-1210	-839	2141	1001	-393	175
65 1993 Federal Report Surplus Deficit	149	-550	-486	-359	77.8	-697	-1141	-1495	399	-165	-1090	4354	3249	970	344
66 1994 Federal Report Surplus Deficit	456	-229	-159	-212	276	-555	-1019	-119	-455	-1072	75.6	1434	1295	600	56.6
67 1995 Federal Report Surplus Deficit	337	-471	-272	-305	-289	-581	362	1274	1863	255	-985	3170	4469	2052	940
68 1996 Federal Report Surplus Deficit	780	-195	329	730	2662	4361	4260	4695	4802	3407	4961	5041	4873	3863	3336
69 1997 Federal Report Surplus Deficit	2203	1318	339	-61.0	655	1167	4335	4818	4659	3861	5012	5833	5680	4241	3149
70 1998 Federal Report Surplus Deficit	2241	2176	1263	2133	1525	242	839	2393	1040	-415	-520	5363	5480	2311	2026
71 1999 Federal Report Surplus Deficit	1760	850	-162	-235	-135	1010	3283	3627	3890	1797	2480	3898	5405	4297	2357
72 2000 Federal Report Surplus Deficit	3537	2389	628	-86.6	2260	1545	1489	1801	1698	2991	4044	3478	1306	1778	1863
73 2001 Federal Report Surplus Deficit	1460	-516	-274	-179	-45.5	-892	-363	-451	-666	-1558	-1666	342	177	-60.9	-296
74 2002 Federal Report Surplus Deficit	532	-547	-707	-765	-102	-202	-827	-157	129	882	2574	2430	5016	3227	810
75 2003 Federal Report Surplus Deficit	495	-45.1	-152	-128	180	-798	-608	339	1643	416	261	1326	4380	522	600
76 2004 Federal Report Surplus Deficit	-272	-711	-636	-280	514	253	-181	-487	234	159	-73.4	1796	2787	523	340
77 2005 Federal Report Surplus Deficit	-20.6	-168	592	234	371	548	981	1706	256	-1348	-989	1916	2318	913	711

Federal Report Surplus Deficit By Water Year

Operating Year 2024

2018 White Book Report Date: **12/1/2018** *Continued*

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Energy-aMW - Surplus Deficit	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
78 2006 Federal Report Surplus Deficit	476	-409	-395	-284	574	280	2250	2810	1552	3855	3903	5045	5012	1499	1844
79 2007 Federal Report Surplus Deficit	179	-600	-700	-360	569	363	1534	1078	2724	1557	229	3658	3065	1576	1184
80 2008 Federal Report Surplus Deficit	126	-789	-911	-145	420	-411	-83.1	289	391	-255	-883	4105	6176	2972	991
Ranked Averages															
81 Bottom 10 pct	527	-285	-252	-261	49.6	-822	-1072	-541	-471	-1136	-1329	252	1340	209	-225
82 Middle 80 pct	1197	355	139	2.62	492	285	1247	1565	1336	1125	1273	3544	4010	2081	1387
83 Top 10 pct	1894	949	395	380	1239	2236	3993	4440	4075	3489	4072	5388	5007	3796	3008

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Federal Report Surplus Deficit By Water Year

Operating Year 2025

2018 White Book Report Date: 12/1/2018

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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	590	313	-102	-296	-88.9	-1001	-917	-636	-451	-1374	-1498	-576	2375	-470	-265
2 1930 Federal Report Surplus Deficit	298	-293	-168	-264	45.3	-988	-1715	-585	-496	-663	-959	-452	367	472	-385
3 1931 Federal Report Surplus Deficit	487	-227	-260	-252	17.8	-809	-1633	-649	-436	-850	-1606	-249	77.4	404	-407
4 1932 Federal Report Surplus Deficit	716	-230	-222	-498	-356	-908	-992	-2116	1201	1908	3825	4512	3865	1885	804
5 1933 Federal Report Surplus Deficit	814	367	258	-283	-196	550	1601	2024	1250	695	128	2370	5648	3906	1506
6 1934 Federal Report Surplus Deficit	2641	1660	374	300	2245	3690	3860	4123	3328	4143	3860	2887	2508	28.0	2445
7 1935 Federal Report Surplus Deficit	-59.5	-242	-512	-343	-664	-423	1445	1691	1386	-515	442	1763	1319	1959	617
8 1936 Federal Report Surplus Deficit	2031	-131	-298	-364	-151	-962	-1636	-1232	-207	-621	2651	4723	3296	1020	519
9 1937 Federal Report Surplus Deficit	197	-430	-476	-242	142	-832	-1844	-1603	-740	-1238	-1402	-17.6	1571	174	-438
10 1938 Federal Report Surplus Deficit	465	-321	-118	-310	-106	-69.1	886	1088	2163	2396	4089	4033	2604	2213	1308
11 1939 Federal Report Surplus Deficit	44.1	-508	66.8	-272	-252	-1077	95.0	383	315	61.3	1105	1702	712	597	216
12 1940 Federal Report Surplus Deficit	54.7	-478	-402	-184	201	67.3	428	-84.7	1625	1204	311	2001	803	-525	376
13 1941 Federal Report Surplus Deficit	-57.5	-611	-243	-447	197	-257	-576	-288	187	-1001	-1603	-412	828	304	-196
14 1942 Federal Report Surplus Deficit	590	-334	32.3	-508	368	1105	984	940	-436	-581	-245	559	3769	2769	770
15 1943 Federal Report Surplus Deficit	1132	534	502	-227	-337	-397	1974	1708	1953	4671	4822	2729	5212	4206	1902
16 1944 Federal Report Surplus Deficit	1271	211	-64.0	-356	-82.5	-988	-421	-527	-930	-1561	-1792	-752	308	-276	-420
17 1945 Federal Report Surplus Deficit	456	-586	-312	-438	-127	-828	-1431	-875	-563	-1434	-1611	1721	3593	-111	-79.9
18 1946 Federal Report Surplus Deficit	393	-395	-250	-393	82.8	46.8	841	976	1346	3294	4532	4188	2684	2824	1354
19 1947 Federal Report Surplus Deficit	1686	690	237	-388	539	2215	2914	2607	2345	2059	1127	3786	3269	2483	1897
20 1948 Federal Report Surplus Deficit	841	17.9	89.2	1898	1591	965	2745	2327	1308	1290	2826	5577	5339	2943	2271
21 1949 Federal Report Surplus Deficit	2680	1723	521	-10.3	235	-123	763	837	2335	2196	3377	4470	2547	21.4	1383
22 1950 Federal Report Surplus Deficit	-143	-824	-407	-394	-186	121	2567	2849	2764	3375	2064	3323	5258	4607	1886
23 1951 Federal Report Surplus Deficit	2597	1527	496	656	1851	2344	3782	4160	3602	3795	3230	4214	2981	3558	2761
24 1952 Federal Report Surplus Deficit	1857	90.0	222	1418	999	1064	2593	2432	1337	3411	4945	5307	3372	2274	2176
25 1953 Federal Report Surplus Deficit	1002	-247	-459	-313	-91.9	-955	-256	3387	672	-1310	-435	2511	5670	3896	1111
26 1954 Federal Report Surplus Deficit	1227	471	261	-68.4	524	523	2082	2919	1952	1324	1020	4002	4384	4466	1916
27 1955 Federal Report Surplus Deficit	3449	2798	2040	59.6	1053	476	-67.0	255	-911	-922	-1004	1666	5485	4499	1396
28 1956 Federal Report Surplus Deficit	2445	912	119	207	1479	2238	3794	3819	3623	3116	5025	5343	5098	3277	2888
29 1957 Federal Report Surplus Deficit	2074	1292	330	158	176	671	954	302	1837	3053	1425	5747	5399	1361	1745
30 1958 Federal Report Surplus Deficit	1099	-361	-228	-301	7.96	-171	1659	1666	1197	463	2036	4898	4392	1063	1311
31 1959 Federal Report Surplus Deficit	874	-221	-157	-69.4	1039	1736	3531	3657	1711	2560	1119	3145	4606	3926	2096
32 1960 Federal Report Surplus Deficit	2346	1748	2418	2592	2346	1588	1959	1753	1441	3912	2744	1907	3692	1880	2242
33 1961 Federal Report Surplus Deficit	1564	-237	-92.4	-128	472	14.9	1510	1976	2564	2260	422	3454	4722	1306	1475
34 1962 Federal Report Surplus Deficit	935	7.83	-258	-402	91.0	35.8	1457	1809	93.4	989	4119	2976	2826	1191	1061
35 1963 Federal Report Surplus Deficit	1281	231	-113	407	1140	1452	2064	1767	218	-346	-772	2016	3867	1835	1233
36 1964 Federal Report Surplus Deficit	953	-94.4	396	-370	139	-35.4	489	734	-295	670	-82.9	3084	5659	4324	1236
37 1965 Federal Report Surplus Deficit	2371	1532	972	577	846	2487	4448	4240	3535	704	4525	4384	3901	2373	2687
38 1966 Federal Report Surplus Deficit	2296	1346	-25.7	91.6	268	229	1147	1426	187	1304	447	1306	2607	1676	963

Federal Report Surplus Deficit By Water Year

Operating Year 2025

2018 White Book Report Date: 12/1/2018 *Continued*

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Energy-aMW - Surplus Deficit	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
39 1967 Federal Report Surplus Deficit	1301	-172	-141	-385	-165	679	2771	2990	2144	947	-762	2863	5044	3395	1646
40 1968 Federal Report Surplus Deficit	1639	863	345	-21.4	557	251	1667	2261	2323	-971	-1034	1175	3868	2114	1226
41 1969 Federal Report Surplus Deficit	1816	1336	1358	693	1604	1082	3519	3679	2443	3202	4436	5168	3866	2379	2589
42 1970 Federal Report Surplus Deficit	562	-179	-30.9	51.2	267	-425	1534	2005	634	-779	-902	2520	4691	1093	964
43 1971 Federal Report Surplus Deficit	579	-313	-369	-302	68.9	117	3866	4064	3505	3190	2828	5347	5400	3975	2390
44 1972 Federal Report Surplus Deficit	2619	2093	543	188	418	548	3374	4039	4710	4606	2170	4944	5117	3996	2795
45 1973 Federal Report Surplus Deficit	2744	2383	693	125	423	181	1147	1362	52.6	-1737	-1769	-515	892	61.8	432
46 1974 Federal Report Surplus Deficit	490	-596	-343	-361	-110	1188	4425	4761	4293	4002	4429	4483	5277	4771	2698
47 1975 Federal Report Surplus Deficit	2882	2367	620	-460	-123	-292	1350	1613	2063	-160	-79.9	3567	5091	4622	1717
48 1976 Federal Report Surplus Deficit	1692	1037	764	808	1787	3210	3345	3824	2783	3810	2781	5267	3923	3967	2857
49 1977 Federal Report Surplus Deficit	3629	3554	2757	192	-42.1	-874	-195	-355	-916	-1617	-1721	-588	-295	-330	109
50 1978 Federal Report Surplus Deficit	465	-426	-759	-733	-53.4	187	1026	1137	976	3276	957	3400	2223	2347	989
51 1979 Federal Report Surplus Deficit	1246	268	1206	216	306	-754	467	-100	1128	-583	233	3118	1107	-222	592
52 1980 Federal Report Surplus Deficit	68.8	-670	-132	-269	-75.8	-1156	540	-92.7	-538	747	1477	4785	4026	1290	767
53 1981 Federal Report Surplus Deficit	48.4	-509	76.0	-303	386	1442	2888	2791	381	-1488	-613	3083	5163	3357	1491
54 1982 Federal Report Surplus Deficit	2538	1727	329	-166	646	255	2211	4158	4458	3214	1271	4588	5164	4818	2560
55 1983 Federal Report Surplus Deficit	2716	2088	1351	733	698	693	2585	3071	3325	2136	774	3332	3514	3990	2260
56 1984 Federal Report Surplus Deficit	2351	1791	716	12.7	2040	986	2320	2383	2714	1838	3474	3247	4948	3711	2313
57 1985 Federal Report Surplus Deficit	1886	340	690	70.9	696	171	725	778	329	1629	2070	2458	991	134	830
58 1986 Federal Report Surplus Deficit	-435	-892	-124	295	1113	348	1674	2770	3774	3332	3024	2274	3484	777	1561
59 1987 Federal Report Surplus Deficit	741	-410	-280	-466	551	236	198	-291	779	-585	-92.9	2579	1000	-359	319
60 1988 Federal Report Surplus Deficit	19.7	-685	-358	-396	-165	-1215	-1518	-778	-457	-1235	-469	-217	943	772	-382
61 1989 Federal Report Surplus Deficit	487	-298	-213	-400	114	-237	-728	-1488	990	1219	3928	2348	1230	348	394
62 1990 Federal Report Surplus Deficit	159	-402	-213	-244	389	736	1245	2430	1578	1011	3125	2285	3691	1813	1293
63 1991 Federal Report Surplus Deficit	1698	776	-180	-427	1974	1179	2746	2579	1770	1428	613	2508	3645	3757	1812
64 1992 Federal Report Surplus Deficit	2449	1125	-82.6	-415	64.6	-1150	-184	-166	108	-1266	-891	1519	417	-443	33.4
65 1993 Federal Report Surplus Deficit	157	-543	-476	-409	24.1	-756	-1196	-1670	366	-221	-1116	3722	2565	1009	206
66 1994 Federal Report Surplus Deficit	459	-223	-149	-262	222	-614	-1074	-294	-487	-1127	23.6	813	716	550	-85.1
67 1995 Federal Report Surplus Deficit	344	-465	-262	-354	-343	-639	307	1099	1812	218	-1041	2548	3928	1992	798
68 1996 Federal Report Surplus Deficit	788	-188	339	681	2608	4303	4205	4520	4713	3327	4875	4426	4289	3792	3181
69 1997 Federal Report Surplus Deficit	2211	1325	349	-110	602	1108	4395	4526	4413	3757	4909	5207	5121	4149	2978
70 1998 Federal Report Surplus Deficit	2249	2182	1274	2084	1471	184	784	2217	1005	-472	-572	4742	4896	2254	1882
71 1999 Federal Report Surplus Deficit	1767	856	-151	-285	-189	952	3236	3625	3648	1692	2432	3277	4850	4187	2203
72 2000 Federal Report Surplus Deficit	3545	2395	639	-136	2206	1486	1434	1625	1665	2895	3993	2857	719	1726	1719
73 2001 Federal Report Surplus Deficit	1467	-509	-264	-229	-99.2	-950	-418	-627	-697	-1615	-1718	-280	-408	-111	-438
74 2002 Federal Report Surplus Deficit	539	-540	-697	-814	-156	-261	-778	-409	55.2	799	2522	1808	4484	3159	671
75 2003 Federal Report Surplus Deficit	502	-38.8	-142	-177	127	-856	-663	163	1603	350	209	705	3825	472	459
76 2004 Federal Report Surplus Deficit	-265	-705	-625	-329	461	195	-236	-663	201	97.3	-125	1174	2194	473	199
77 2005 Federal Report Surplus Deficit	-13.3	-162	602	184	318	490	926	1530	224	-1404	-1018	1284	1736	863	566

Federal Report Surplus Deficit By Water Year

Operating Year 2025

2018 White Book Report Date: **12/1/2018** *Continued*

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Energy-aMW - Surplus Deficit	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
78 2006 Federal Report Surplus Deficit	483	-402	-384	-333	521	222	2112	2739	1516	3767	3852	4426	4438	1448	1699
79 2007 Federal Report Surplus Deficit	186	-594	-690	-409	516	305	1479	902	2663	1518	173	3037	2494	1528	1041
80 2008 Federal Report Surplus Deficit	134	-783	-901	-194	366	-470	-138	113	360	-311	-935	3500	5656	2904	856
Ranked Averages															
81 Bottom 10 pct	534	-279	-242	-310	-4.10	-880	-1130	-712	-503	-1192	-1381	-369	758	159	-366
82 Middle 80 pct	1202	361	149	-46.5	438	226	1183	1404	1293	1052	1219	2927	3450	2027	1244
83 Top 10 pct	1901	955	405	331	1185	2178	3971	4236	3959	3390	3993	4784	4464	3735	2856

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Federal Report Surplus Deficit By Water Year

Operating Year 2026

2018 White Book Report Date: 12/1/2018

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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	527	296	-135	-281	-71.2	-979	-717	-405	-252	-1157	-1281	212	3136	-253	-48.6
2 1930 Federal Report Surplus Deficit	235	-310	-201	-249	63.0	-966	-1494	-380	-297	-446	-742	336	1118	690	-170
3 1931 Federal Report Surplus Deficit	424	-244	-293	-237	35.5	-787	-1412	-444	-237	-633	-1389	540	830	621	-192
4 1932 Federal Report Surplus Deficit	653	-247	-256	-484	-338	-886	-770	-1911	1394	2159	4042	5300	4623	2101	1021
5 1933 Federal Report Surplus Deficit	751	350	224	-268	-178	572	1866	2224	1414	918	344	3159	6227	4140	1708
6 1934 Federal Report Surplus Deficit	2578	1643	341	314	2262	3712	4082	4328	3572	4426	4143	3676	3239	246	2667
7 1935 Federal Report Surplus Deficit	-122	-258	-546	-329	-646	-400	1713	1892	1535	-286	659	2552	2074	2178	832
8 1936 Federal Report Surplus Deficit	1968	-148	-331	-349	-133	-940	-1414	-1027	-8.89	-402	2872	5512	4025	1239	733
9 1937 Federal Report Surplus Deficit	134	-447	-510	-227	160	-810	-1622	-1398	-541	-1021	-1185	771	2303	392	-224
10 1938 Federal Report Surplus Deficit	402	-338	-152	-295	-88.7	-46.7	1106	1252	2408	2671	4314	4822	3333	2431	1524
11 1939 Federal Report Surplus Deficit	-18.9	-525	33.3	-258	-235	-1054	364	531	514	276	1331	2491	1465	815	431
12 1940 Federal Report Surplus Deficit	-8.29	-495	-435	-169	219	89.6	650	120	1835	1421	528	2790	1555	-308	592
13 1941 Federal Report Surplus Deficit	-121	-628	-277	-432	215	-234	-354	-87.8	390	-784	-1386	377	1578	522	19.0
14 1942 Federal Report Surplus Deficit	527	-350	-1.27	-494	386	1127	1205	1145	-237	-365	-27.9	1348	4511	2987	985
15 1943 Federal Report Surplus Deficit	1069	517	468	-212	-320	-375	2196	1913	2173	4957	5039	3518	5964	4405	2120
16 1944 Federal Report Surplus Deficit	1208	194	-97.6	-342	-64.8	-965	-150	-385	-731	-1344	-1575	36.5	1058	-58.4	-205
17 1945 Federal Report Surplus Deficit	393	-602	-346	-423	-109	-806	-1209	-670	-364	-1217	-1395	2510	4330	106	134
18 1946 Federal Report Surplus Deficit	330	-412	-283	-378	101	69.2	925	1347	1555	3571	4748	4998	3423	3053	1575
19 1947 Federal Report Surplus Deficit	1623	674	203	-373	557	2237	3189	2715	2560	2285	1344	4575	4005	2699	2109
20 1948 Federal Report Surplus Deficit	778	1.07	55.6	1913	1608	988	2967	2531	1511	1531	3042	6313	6034	3163	2478
21 1949 Federal Report Surplus Deficit	2617	1706	488	4.44	252	-101	984	1042	2544	2431	3594	5259	3282	239	1599
22 1950 Federal Report Surplus Deficit	-206	-841	-441	-379	-168	144	2821	2892	3150	3658	2280	4094	5984	4864	2110
23 1951 Federal Report Surplus Deficit	2534	1511	463	671	1868	2367	4003	4364	3850	4047	3447	4973	3707	3802	2979
24 1952 Federal Report Surplus Deficit	1794	73.2	189	1433	1016	1086	2815	2637	1523	3687	5162	6075	4101	2500	2390
25 1953 Federal Report Surplus Deficit	939	-264	-492	-298	-74.2	-933	18.9	3555	858	-1093	-218	3300	6326	4156	1322
26 1954 Federal Report Surplus Deficit	1164	454	228	-53.7	542	545	2347	3119	2133	1522	1232	4791	5097	4667	2128
27 1955 Federal Report Surplus Deficit	3386	2781	2006	74.3	1071	498	155	459	-712	-721	-784	2437	6195	4748	1608
28 1956 Federal Report Surplus Deficit	2382	896	85.3	221	1497	2260	4016	4024	3880	3398	5308	6110	5788	3508	3107
29 1957 Federal Report Surplus Deficit	2011	1275	297	172	194	693	1174	509	2038	3318	1641	6502	6069	1581	1953
30 1958 Federal Report Surplus Deficit	1036	-377	-261	-287	25.7	-149	1881	1871	1399	692	2253	5687	5052	1275	1519
31 1959 Federal Report Surplus Deficit	811	-237	-191	-54.7	1056	1759	3676	3960	1923	2808	1336	3934	5348	4158	2315
32 1960 Federal Report Surplus Deficit	2283	1731	2384	2607	2363	1611	2312	1798	1644	4144	2961	2696	4439	2106	2457
33 1961 Federal Report Surplus Deficit	1501	-253	-126	-113	489	37.3	1732	2181	2773	2503	630	4242	5385	1524	1685
34 1962 Federal Report Surplus Deficit	872	-8.97	-292	-387	109	58.2	1722	1961	283	1244	4336	3765	3574	1409	1276
35 1963 Federal Report Surplus Deficit	1218	214	-146	421	1158	1474	2285	1971	418	-129	-555	2805	4562	2053	1444
36 1964 Federal Report Surplus Deficit	890	-111	363	-355	157	-13.0	756	885	-108	904	134	3854	6333	4542	1442
37 1965 Federal Report Surplus Deficit	2308	1516	938	592	864	2510	4539	4712	3791	1009	4742	5176	4653	2600	2921
38 1966 Federal Report Surplus Deficit	2233	1329	-59.2	106	285	251	1457	1522	381	1541	664	2095	3354	1893	1177

Federal Report Surplus Deficit By Water Year

Operating Year 2026

2018 White Book Report Date: 12/1/2018 *Continued*

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Energy-aMW - Surplus Deficit	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
39 1967 Federal Report Surplus Deficit	1238	-188	-175	-371	-147	702	3003	3156	2359	1164	-545	3652	5709	3626	1854
40 1968 Federal Report Surplus Deficit	1576	846	311	-6.70	575	273	1889	2466	2542	-782	-813	1959	4586	2339	1439
41 1969 Federal Report Surplus Deficit	1753	1319	1324	708	1622	1104	3759	4010	2468	3467	4730	5960	4664	2603	2810
42 1970 Federal Report Surplus Deficit	499	-196	-64.4	65.9	285	-402	1756	2210	834	-562	-685	3289	5446	1310	1178
43 1971 Federal Report Surplus Deficit	516	-330	-402	-287	86.6	139	4116	4254	3716	3470	3056	6066	6051	4200	2597
44 1972 Federal Report Surplus Deficit	2556	2077	509	203	436	570	3579	4088	5068	4827	2386	5678	5736	4244	2997
45 1973 Federal Report Surplus Deficit	2681	2366	659	140	441	203	1369	1566	252	-1520	-1552	274	1643	279	647
46 1974 Federal Report Surplus Deficit	427	-613	-376	-346	-92.2	1210	4647	4966	4565	4281	4708	5274	5975	4962	2918
47 1975 Federal Report Surplus Deficit	2819	2350	586	-445	-105	-270	1613	1756	2289	65.8	137	4337	5868	4909	1939
48 1976 Federal Report Surplus Deficit	1629	1020	730	823	1805	3232	3567	4029	2989	4050	2998	6027	4643	4156	3066
49 1977 Federal Report Surplus Deficit	3674	3537	2723	207	-24.4	-852	-22.7	-85.3	-717	-1400	-1504	201	456	-112	329
50 1978 Federal Report Surplus Deficit	402	-443	-793	-718	-35.7	210	1247	1298	1222	3481	1185	4189	2970	2569	1205
51 1979 Federal Report Surplus Deficit	1183	252	1173	231	324	-732	689	105	1329	-368	450	3907	1853	-4.39	806
52 1980 Federal Report Surplus Deficit	5.78	-687	-165	-255	-58.1	-1133	762	112	-339	975	1694	5551	4714	1507	975
53 1981 Federal Report Surplus Deficit	-14.6	-525	42.4	-288	404	1464	3109	2996	582	-1272	-396	3871	5912	3575	1706
54 1982 Federal Report Surplus Deficit	2475	1710	295	-151	663	277	2433	4256	4763	3474	1495	5378	5856	5004	2771
55 1983 Federal Report Surplus Deficit	2653	2071	1317	748	715	715	2807	3276	3566	2387	990	4121	4268	4249	2484
56 1984 Federal Report Surplus Deficit	2288	1774	683	27.4	2057	1008	2542	2588	2937	2083	3691	4036	5670	3909	2527
57 1985 Federal Report Surplus Deficit	1823	323	657	85.7	714	194	992	928	528	1868	2287	3246	1736	352	1045
58 1986 Federal Report Surplus Deficit	-498	-908	-158	310	1131	371	1896	2975	4029	3613	3238	3072	4215	995	1782
59 1987 Federal Report Surplus Deficit	678	-426	-314	-451	569	258	419	-85.9	980	-365	124	3368	1747	-141	534
60 1988 Federal Report Surplus Deficit	-43.3	-702	-391	-381	-147	-1193	-1297	-573	-258	-1018	-252	572	1687	989	-167
61 1989 Federal Report Surplus Deficit	423	-315	-247	-385	131	-215	-506	-1283	1195	1485	4145	3136	1990	565	612
62 1990 Federal Report Surplus Deficit	95.8	-418	-247	-229	407	758	1517	2581	1779	1227	3342	3074	4390	2029	1503
63 1991 Federal Report Surplus Deficit	1635	759	-214	-412	1992	1202	2993	2698	1971	1664	830	3297	4399	3947	2022
64 1992 Federal Report Surplus Deficit	2386	1108	-116	-401	82.3	-1128	37.7	38.7	308	-1049	-674	2308	1168	-225	248
65 1993 Federal Report Surplus Deficit	93.5	-560	-510	-394	41.8	-733	-974	-1466	567	-4.56	-925	4521	3416	1137	421
66 1994 Federal Report Surplus Deficit	400	-240	-182	-247	240	-591	-852	-89.6	-288	-911	240	1601	1462	767	130
67 1995 Federal Report Surplus Deficit	281	-482	-295	-340	-325	-617	529	1303	2030	415	-820	3337	4636	2219	1012
68 1996 Federal Report Surplus Deficit	725	-205	305	695	2626	4325	4426	4724	4970	3568	5126	5208	5040	4030	3404
69 1997 Federal Report Surplus Deficit	2148	1308	316	-95.4	619	1131	4502	4847	4826	4022	5177	6000	5847	4409	3217
70 1998 Federal Report Surplus Deficit	2186	2165	1240	2098	1489	207	1006	2422	1207	-255	-355	5531	5647	2479	2098
71 1999 Federal Report Surplus Deficit	1704	839	-185	-270	-171	974	3449	3656	4058	1958	2645	4066	5572	4464	2427
72 2000 Federal Report Surplus Deficit	3482	2378	605	-121	2224	1509	1656	1830	1866	3151	4209	3645	1472	1945	1936
73 2001 Federal Report Surplus Deficit	1404	-526	-298	-214	-81.5	-928	-196	-422	-498	-1398	-1501	509	344	106	-223
74 2002 Federal Report Surplus Deficit	476	-557	-730	-799	-138	-238	-660	-128	296	1043	2739	2597	5183	3395	885
75 2003 Federal Report Surplus Deficit	439	-55.6	-176	-162	144	-834	-441	368	1811	577	426	1494	4547	690	673
76 2004 Federal Report Surplus Deficit	-328	-722	-659	-314	478	218	-13.9	-458	402	320	91.5	1963	2954	691	415
77 2005 Federal Report Surplus Deficit	-76.3	-178	568	199	335	512	1147	1735	423	-1187	-824	2083	2485	1080	780

Federal Report Surplus Deficit By Water Year

Operating Year 2026

2018 White Book Report Date: **12/1/2018** *Continued*

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Energy-aMW - Surplus Deficit	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
78 2006 Federal Report Surplus Deficit	420	-419	-418	-318	538	244	2417	2839	1720	4016	4068	5212	5179	1666	1914
79 2007 Federal Report Surplus Deficit	123	-611	-723	-394	533	327	1701	1107	2892	1718	394	3826	3232	1744	1257
80 2008 Federal Report Surplus Deficit	70.7	-799	-935	-180	384	-447	83.6	318	559	-94.4	-718	4273	6343	3140	1066
Ranked Averages															
81 Bottom 10 pct	471	-296	-275	-295	13.6	-858	-905	-512	-303	-975	-1164	419	1507	376	-151
82 Middle 80 pct	1141	344	116	-31.8	456	249	1414	1594	1504	1286	1438	3712	4177	2248	1459
83 Top 10 pct	1838	939	371	346	1203	2201	4160	4469	4242	3650	4236	5556	5174	3964	3076

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Federal Report Surplus Deficit By Water Year

Operating Year 2027

2018 White Book Report Date: 12/1/2018

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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	744	514	83.9	-124	82.1	-831	-754	-491	-309	-1223	-1343	-422	2533	-316	-102
2 1930 Federal Report Surplus Deficit	452	-92.4	17.8	-91.9	216	-818	-1552	-440	-354	-513	-805	-298	524	627	-222
3 1931 Federal Report Surplus Deficit	641	-26.6	-74.1	-80.1	189	-639	-1470	-505	-294	-699	-1452	-93.9	235	559	-245
4 1932 Federal Report Surplus Deficit	871	-29.4	-36.7	-326	-185	-738	-829	-1971	1343	2058	3980	4666	4023	2040	967
5 1933 Federal Report Surplus Deficit	968	567	443	-111	-24.6	720	1764	2169	1392	846	283	2525	5806	4061	1668
6 1934 Federal Report Surplus Deficit	2795	1861	560	471	2415	3861	4023	4268	3470	4293	4014	3042	2666	183	2607
7 1935 Federal Report Surplus Deficit	94.8	-41.0	-327	-171	-493	-252	1608	1836	1528	-365	597	1918	1477	2114	779
8 1936 Federal Report Surplus Deficit	2185	69.6	-112	-192	20.2	-791	-1472	-1088	-65.2	-471	2805	4878	3454	1175	682
9 1937 Federal Report Surplus Deficit	351	-230	-291	-69.8	313	-661	-1681	-1458	-598	-1088	-1247	137	1729	329	-275
10 1938 Federal Report Surplus Deficit	619	-121	67.5	-138	64.5	101	1049	1233	2305	2547	4243	4188	2762	2368	1470
11 1939 Federal Report Surplus Deficit	198	-307	252	-100	-81.5	-906	258	528	458	212	1260	1857	870	752	378
12 1940 Federal Report Surplus Deficit	209	-278	-216	-11.9	372	238	592	60.1	1767	1354	466	2156	960	-370	539
13 1941 Federal Report Surplus Deficit	96.8	-411	-57.7	-275	368	-86.2	-413	-143	329	-850	-1449	-257	985	459	-33.6
14 1942 Federal Report Surplus Deficit	744	-133	218	-336	539	1275	1147	1085	-293	-430	-90.5	714	3927	2924	933
15 1943 Federal Report Surplus Deficit	1286	735	687	-54.9	-166	-226	2137	1853	2096	4821	4976	2883	5370	4361	2065
16 1944 Federal Report Surplus Deficit	1425	411	122	-184	88.4	-817	-258	-382	-788	-1411	-1638	-598	466	-121	-257
17 1945 Federal Report Surplus Deficit	610	-385	-127	-266	44.4	-658	-1268	-730	-420	-1283	-1457	1876	3751	44.2	82.4
18 1946 Federal Report Surplus Deficit	547	-195	-64.1	-221	254	217	1004	1121	1488	3445	4686	4343	2842	2979	1516
19 1947 Federal Report Surplus Deficit	1840	891	423	-216	710	2385	3077	2752	2488	2210	1281	3941	3427	2638	2059
20 1948 Federal Report Surplus Deficit	995	219	275	2070	1762	1136	2908	2471	1450	1440	2980	5732	5497	3098	2433
21 1949 Federal Report Surplus Deficit	2834	1924	707	162	406	47.6	926	982	2477	2346	3531	4624	2705	176	1546
22 1950 Federal Report Surplus Deficit	11.6	-624	-222	-222	-15.2	292	2730	2994	2906	3526	2218	3477	5416	4762	2049
23 1951 Federal Report Surplus Deficit	2751	1728	682	828	2022	2515	3945	4304	3745	3945	3384	4368	3139	3713	2924
24 1952 Federal Report Surplus Deficit	2011	291	408	1590	1170	1235	2756	2577	1479	3562	5100	5461	3530	2429	2339
25 1953 Federal Report Surplus Deficit	1156	-46.6	-273	-141	79.0	-784	-92.5	3531	815	-1159	-281	2665	5828	4051	1273
26 1954 Federal Report Surplus Deficit	1382	671	447	103	695	694	2245	3063	2095	1475	1174	4156	4541	4621	2079
27 1955 Federal Report Surplus Deficit	3604	2999	2226	232	1224	646	96.1	399	-769	-771	-849	1821	5643	4654	1558
28 1956 Federal Report Surplus Deficit	2599	1113	304	378	1650	2408	3957	3964	3766	3266	5180	5498	5256	3432	3050
29 1957 Federal Report Surplus Deficit	2228	1493	516	330	347	841	1118	446	1979	3204	1579	5902	5557	1515	1908
30 1958 Federal Report Surplus Deficit	1253	-160	-42.0	-130	179	-0.83	1822	1811	1340	613	2190	5053	4550	1217	1474
31 1959 Federal Report Surplus Deficit	1029	-19.9	28.2	103	1210	1907	3694	3802	1853	2711	1274	3299	4764	4081	2259
32 1960 Federal Report Surplus Deficit	2501	1948	2603	2764	2517	1759	2122	1898	1583	4063	2899	2062	3849	2035	2404
33 1961 Federal Report Surplus Deficit	1718	-36.0	93.2	44.4	643	185	1673	2121	2706	2410	577	3608	4880	1461	1638
34 1962 Federal Report Surplus Deficit	1089	208	-72.4	-230	262	206	1621	1954	236	1139	4274	3131	2984	1346	1223
35 1963 Federal Report Surplus Deficit	1435	432	73.1	578	1311	1622	2227	1911	360	-195	-618	2171	4025	1990	1396
36 1964 Federal Report Surplus Deficit	1108	106	582	-198	310	135	652	879	-153	821	71.4	3239	5816	4479	1398
37 1965 Federal Report Surplus Deficit	2525	1733	1157	749	1017	2658	4611	4385	3677	854	4679	4539	4059	2528	2849
38 1966 Federal Report Surplus Deficit	2450	1546	160	264	438	400	1310	1571	330	1454	601	1460	2765	1831	1125

Federal Report Surplus Deficit By Water Year

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Energy-aMW - Surplus Deficit	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
39 1967 Federal Report Surplus Deficit	1456	29.0	44.3	-214	5.83	850	2934	3134	2286	1098	-607	3018	5202	3550	1808
40 1968 Federal Report Surplus Deficit	1793	1063	531	150	728	421	1830	2406	2465	-821	-880	1329	4026	2269	1388
41 1969 Federal Report Surplus Deficit	1970	1536	1543	865	1775	1252	3682	3824	2585	3353	4591	5323	4024	2534	2751
42 1970 Federal Report Surplus Deficit	716	21.5	155	223	438	-254	1697	2150	776	-628	-748	2674	4849	1247	1126
43 1971 Federal Report Surplus Deficit	733	-113	-183	-130	240	287	4029	4209	3647	3340	2982	5502	5558	4130	2552
44 1972 Federal Report Surplus Deficit	2773	2294	728	360	589	718	3537	4184	4852	4757	2324	5099	5275	4151	2958
45 1973 Federal Report Surplus Deficit	2898	2584	878	297	594	352	1310	1506	195	-1586	-1615	-360	1049	217	594
46 1974 Federal Report Surplus Deficit	644	-395	-157	-189	61.0	1358	4588	4906	4435	4152	4583	4638	5435	4926	2861
47 1975 Federal Report Surplus Deficit	3036	2568	805	-288	48.4	-122	1513	1758	2205	-9.31	74.5	3722	5249	4776	1879
48 1976 Federal Report Surplus Deficit	1846	1237	949	980	1958	3381	3508	3969	2925	3960	2936	5422	4081	4122	3020
49 1977 Federal Report Surplus Deficit	3783	3755	2943	364	129	-704	-32.2	-211	-774	-1466	-1566	-433	-137	-175	272
50 1978 Federal Report Surplus Deficit	619	-225	-574	-561	118	358	1189	1282	1119	3427	1111	3555	2380	2502	1152
51 1979 Federal Report Surplus Deficit	1400	469	1392	388	477	-584	630	44.6	1270	-433	387	3273	1265	-67.0	754
52 1980 Federal Report Surplus Deficit	223	-469	54.1	-97.4	95.2	-985	703	52.1	-396	897	1632	4940	4184	1445	929
53 1981 Federal Report Surplus Deficit	203	-308	262	-131	557	1612	3051	2936	524	-1338	-458	3237	5321	3511	1653
54 1982 Federal Report Surplus Deficit	2693	1928	514	6.12	817	425	2374	4302	4600	3365	1425	4743	5322	4973	2723
55 1983 Federal Report Surplus Deficit	2871	2288	1536	905	869	864	2748	3216	3467	2286	928	3487	3671	4145	2422
56 1984 Federal Report Surplus Deficit	2505	1991	902	185	2211	1156	2483	2528	2856	1989	3629	3402	5105	3866	2475
57 1985 Federal Report Surplus Deficit	2040	540	876	243	867	342	888	922	472	1780	2224	2612	1148	289	992
58 1986 Federal Report Surplus Deficit	-281	-691	61.6	467	1284	519	1837	2915	3917	3482	3179	2429	3642	932	1723
59 1987 Federal Report Surplus Deficit	895	-209	-94.8	-294	722	406	361	-146	921	-434	61.5	2733	1157	-204	481
60 1988 Federal Report Surplus Deficit	174	-484	-172	-224	6.32	-1045	-1355	-633	-315	-1084	-314	-62.0	1101	927	-219
61 1989 Federal Report Surplus Deficit	641	-97.8	-27.7	-228	285	-66.8	-565	-1343	1132	1369	4082	2502	1388	503	556
62 1990 Federal Report Surplus Deficit	313	-201	-27.8	-72.1	560	906	1408	2574	1721	1162	3280	2440	3849	1967	1455
63 1991 Federal Report Surplus Deficit	1852	976	5.17	-255	2145	1350	2909	2724	1912	1578	767	2663	3803	3912	1974
64 1992 Federal Report Surplus Deficit	2603	1326	103	-243	236	-980	-20.9	-21.3	250	-1115	-736	1674	575	-288	196
65 1993 Federal Report Surplus Deficit	311	-343	-290	-237	195	-585	-1033	-1526	508	-70.9	-962	3877	2723	1164	368
66 1994 Federal Report Surplus Deficit	613	-22.4	36.9	-89.7	393	-443	-911	-150	-345	-976	178	967	873	705	77.3
67 1995 Federal Report Surplus Deficit	498	-264	-76.2	-182	-172	-469	470	1243	1955	369	-887	2703	4086	2147	961
68 1996 Federal Report Surplus Deficit	942	12.4	525	853	2779	4473	4368	4664	4855	3477	5030	4581	4447	3947	3343
69 1997 Federal Report Surplus Deficit	2365	1525	535	61.8	773	1279	4558	4670	4555	3908	5063	5361	5279	4303	3141
70 1998 Federal Report Surplus Deficit	2403	2383	1459	2256	1642	355	947	2362	1148	-321	-418	4896	5053	2409	2044
71 1999 Federal Report Surplus Deficit	1921	1056	34.3	-113	-18.1	1122	3399	3769	3790	1842	2586	3431	5008	4342	2366
72 2000 Federal Report Surplus Deficit	3699	2595	824	36.2	2377	1657	1597	1770	1807	3045	4147	3012	877	1881	1881
73 2001 Federal Report Surplus Deficit	1621	-309	-78.4	-56.7	71.7	-780	-255	-482	-555	-1464	-1564	-125	-250	43.9	-276
74 2002 Federal Report Surplus Deficit	693	-340	-511	-642	14.8	-90.1	-615	-264	197	949	2677	1963	4642	3314	834
75 2003 Federal Report Surplus Deficit	656	162	43.5	-5.15	298	-686	-500	308	1745	501	363	860	3983	627	622
76 2004 Federal Report Surplus Deficit	-111	-505	-440	-157	632	366	-72.5	-518	344	248	29.0	1329	2352	628	361
77 2005 Federal Report Surplus Deficit	141	39.1	787	356	489	660	1089	1675	366	-1254	-863	1439	1894	1018	728

Federal Report Surplus Deficit By Water Year

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Energy-aMW - Surplus Deficit	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
78 2006 Federal Report Surplus Deficit	637	-202	-199	-161	692	392	2275	2884	1658	3918	4006	4580	4596	1603	1861
79 2007 Federal Report Surplus Deficit	340	-393	-504	-237	687	475	1642	1047	2806	1668	327	3192	2652	1683	1204
80 2008 Federal Report Surplus Deficit	288	-582	-716	-22.3	537	-299	25.1	258	502	-160	-781	3655	5814	3059	1018
Ranked Averages															
81 Bottom 10 pct	688	-78.4	-56.2	-138	167	-710	-967	-567	-360	-1042	-1227	-215	915	313	-204
82 Middle 80 pct	1357	561	335	125	609	397	1346	1549	1436	1202	1374	3081	3607	2182	1407
83 Top 10 pct	2056	1156	590	503	1356	2349	4134	4381	4101	3540	4147	4938	4621	3890	3018

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Federal Report Surplus Deficit By Water Year

Operating Year 2028

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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	744	409	30.4	-134	64.1	-839	-769	-329	-308	-1256	-1323	148	3073	-319	-11.7
2 1930 Federal Report Surplus Deficit	452	-196	-35.6	-102	198	-826	-1545	-304	-353	-545	-785	272	1056	624	-132
3 1931 Federal Report Surplus Deficit	641	-131	-128	-90.4	171	-647	-1463	-368	-293	-732	-1431	476	768	556	-155
4 1932 Federal Report Surplus Deficit	871	-133	-90.2	-337	-203	-746	-822	-1835	1338	2060	4000	5236	4561	2035	1050
5 1933 Federal Report Surplus Deficit	968	463	390	-121	-42.6	712	1814	2301	1358	819	302	3094	6165	4075	1748
6 1934 Federal Report Surplus Deficit	2795	1757	507	461	2398	3852	4030	4404	3517	4327	4101	3611	3177	180	2710
7 1935 Federal Report Surplus Deficit	94.8	-145	-380	-182	-511	-261	1661	1968	1479	-385	617	2487	2012	2113	873
8 1936 Federal Report Surplus Deficit	2185	-34.4	-166	-202	2.27	-800	-1465	-951	-64.8	-501	2830	5447	3963	1174	766
9 1937 Federal Report Surplus Deficit	351	-334	-344	-80.1	295	-670	-1674	-1321	-597	-1120	-1227	707	2241	327	-190
10 1938 Federal Report Surplus Deficit	619	-225	14.1	-148	46.6	93.0	1054	1328	2352	2572	4272	4758	3271	2366	1561
11 1939 Federal Report Surplus Deficit	198	-411	199	-111	-99.5	-915	312	607	458	177	1289	2426	1403	749	469
12 1940 Federal Report Surplus Deficit	209	-382	-270	-22.2	354	229	598	196	1779	1322	486	2725	1493	-373	629
13 1941 Federal Report Surplus Deficit	96.8	-515	-111	-285	350	-94.6	-406	-11.5	334	-883	-1429	312	1515	456	56.5
14 1942 Federal Report Surplus Deficit	744	-237	164	-347	521	1267	1154	1221	-293	-464	-70.2	1283	4449	2922	1023
15 1943 Federal Report Surplus Deficit	1286	631	634	-65.2	-184	-235	2144	1989	2117	4858	4997	3453	5902	4339	2158
16 1944 Federal Report Surplus Deficit	1425	307	68.1	-195	70.5	-826	-202	-309	-787	-1443	-1617	-28.2	996	-124	-168
17 1945 Federal Report Surplus Deficit	610	-489	-180	-276	26.4	-666	-1261	-594	-419	-1316	-1437	2445	4267	40.8	169
18 1946 Federal Report Surplus Deficit	547	-299	-118	-231	236	209	873	1423	1499	3472	4706	4934	3360	2988	1612
19 1947 Federal Report Surplus Deficit	1840	787	369	-226	692	2377	3137	2791	2504	2186	1302	4510	3943	2633	2149
20 1948 Federal Report Surplus Deficit	995	114	221	2060	1744	1127	2915	2608	1455	1432	3000	6248	5972	3098	2516
21 1949 Federal Report Surplus Deficit	2834	1820	653	151	388	39.2	933	1118	2489	2332	3552	5194	3220	174	1635
22 1950 Federal Report Surplus Deficit	11.6	-728	-275	-232	-33.1	283	2769	2968	3094	3559	2238	4029	5922	4798	2150
23 1951 Federal Report Surplus Deficit	2751	1624	628	818	2004	2506	3952	4441	3794	3948	3405	4909	3644	3737	3021
24 1952 Federal Report Surplus Deficit	2011	187	355	1579	1152	1226	2763	2713	1467	3588	5120	6010	4039	2435	2428
25 1953 Federal Report Surplus Deficit	1156	-151	-327	-151	61.1	-793	-32.8	3631	802	-1192	-260	3235	6264	4090	1366
26 1954 Federal Report Surplus Deficit	1382	567	393	93.2	677	685	2296	3195	2077	1423	1190	4726	5035	4601	2168
27 1955 Federal Report Surplus Deficit	3604	2895	2172	221	1206	638	103	536	-768	-820	-826	2372	6132	4683	1643
28 1956 Federal Report Surplus Deficit	2599	1009	251	368	1632	2400	3964	4100	3824	3299	5266	6045	5726	3442	3148
29 1957 Federal Report Surplus Deficit	2228	1389	462	319	329	833	1123	585	1982	3219	1599	6438	6006	1515	1987
30 1958 Federal Report Surplus Deficit	1253	-264	-95.5	-140	161	-9.28	1829	1947	1343	593	2211	5622	4990	1210	1558
31 1959 Federal Report Surplus Deficit	1029	-124	-25.2	92.2	1192	1898	3624	4036	1867	2709	1294	3869	5286	4093	2357
32 1960 Federal Report Surplus Deficit	2501	1844	2550	2754	2499	1750	2260	1874	1589	4045	2919	2632	4377	2041	2493
33 1961 Federal Report Surplus Deficit	1718	-140	39.7	34.1	625	177	1680	2257	2717	2404	588	4178	5323	1458	1724
34 1962 Federal Report Surplus Deficit	1089	104	-126	-240	244	198	1670	2037	227	1145	4294	3701	3512	1343	1315
35 1963 Federal Report Surplus Deficit	1435	328	19.6	568	1293	1614	2234	2048	362	-228	-597	2740	4500	1988	1483
36 1964 Federal Report Surplus Deficit	1108	2.18	528	-208	292	127	705	962	-164	805	91.7	3790	6271	4477	1479
37 1965 Federal Report Surplus Deficit	2525	1629	1104	739	1000	2649	4487	4788	3736	910	4700	5111	4591	2534	2963
38 1966 Federal Report Surplus Deficit	2450	1442	107	253	421	391	1405	1598	325	1442	621	2030	3292	1828	1216

Federal Report Surplus Deficit By Water Year

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2018 White Book Report Date: 12/1/2018 *Continued*

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Energy-aMW - Surplus Deficit	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
39 1967 Federal Report Surplus Deficit	1456	-75.0	-9.15	-224	-12.1	841	2951	3232	2303	1065	-587	3587	5646	3561	1896
40 1968 Federal Report Surplus Deficit	1793	959	477	140	710	413	1837	2542	2486	-881	-856	1894	4524	2273	1480
41 1969 Federal Report Surplus Deficit	1970	1432	1490	855	1757	1244	3707	4087	2413	3368	4688	5896	4602	2537	2851
42 1970 Federal Report Surplus Deficit	716	-82.5	101	213	420	-263	1704	2287	779	-661	-728	3225	5383	1245	1219
43 1971 Federal Report Surplus Deficit	733	-217	-236	-140	222	279	4064	4330	3660	3371	3014	6001	5989	4134	2639
44 1972 Federal Report Surplus Deficit	2773	2190	675	350	571	710	3527	4165	5012	4728	2344	5613	5674	4178	3038
45 1973 Federal Report Surplus Deficit	2898	2480	825	287	576	343	1317	1643	196	-1619	-1595	210	1581	214	688
46 1974 Federal Report Surplus Deficit	644	-499	-211	-199	43.1	1350	4595	5042	4510	4181	4665	5210	5913	4896	2962
47 1975 Federal Report Surplus Deficit	3036	2464	752	-299	30.5	-130	1561	1833	2233	-33.2	94.7	4273	5806	4843	1977
48 1976 Federal Report Surplus Deficit	1846	1133	896	970	1940	3372	3515	4105	2933	3951	2956	5962	4581	4091	3107
49 1977 Federal Report Surplus Deficit	3892	3651	2889	353	111	-712	-74.4	-9.00	-773	-1499	-1546	136	394	-178	366
50 1978 Federal Report Surplus Deficit	619	-329	-627	-571	99.6	349	1196	1375	1166	3382	1142	4124	2908	2504	1243
51 1979 Federal Report Surplus Deficit	1400	365	1339	378	459	-592	637	181	1273	-467	408	3842	1791	-70.0	842
52 1980 Federal Report Surplus Deficit	223	-573	0.67	-108	77.2	-993	710	188	-395	876	1652	5487	4652	1441	1011
53 1981 Federal Report Surplus Deficit	203	-412	208	-141	539	1604	3058	3072	526	-1371	-438	3807	5850	3509	1747
54 1982 Federal Report Surplus Deficit	2693	1824	461	-4.21	799	417	2381	4332	4707	3375	1453	5313	5794	4938	2812
55 1983 Federal Report Surplus Deficit	2871	2184	1483	894	851	855	2755	3352	3510	2288	948	4057	4205	4184	2524
56 1984 Federal Report Surplus Deficit	2505	1887	849	174	2193	1148	2490	2664	2881	1984	3649	3972	5607	3843	2565
57 1985 Federal Report Surplus Deficit	2040	436	822	233	849	333	940	1004	472	1769	2244	3182	1674	286	1082
58 1986 Federal Report Surplus Deficit	-281	-795	8.15	457	1266	511	1844	3051	3973	3514	3196	3007	4152	930	1823
59 1987 Federal Report Surplus Deficit	895	-313	-148	-305	704	398	368	-9.55	924	-464	81.8	3303	1685	-207	570
60 1988 Federal Report Surplus Deficit	174	-588	-226	-234	-11.6	-1053	-1348	-496	-314	-1117	-294	508	1625	924	-131
61 1989 Federal Report Surplus Deficit	641	-202	-81.1	-238	267	-75.3	-558	-1207	1140	1386	4102	3072	1928	500	645
62 1990 Federal Report Surplus Deficit	313	-305	-81.3	-82.4	542	898	1465	2657	1723	1128	3300	3009	4328	1963	1544
63 1991 Federal Report Surplus Deficit	1852	872	-48.3	-265	2127	1342	2942	2774	1915	1565	788	3233	4337	3881	2061
64 1992 Federal Report Surplus Deficit	2603	1222	49.5	-254	218	-988	-14.0	115	252	-1148	-716	2243	1106	-291	286
65 1993 Federal Report Surplus Deficit	311	-447	-344	-247	177	-594	-1026	-1389	511	-104	-968	4457	3354	1072	454
66 1994 Federal Report Surplus Deficit	618	-126	-16.6	-100.0	375	-452	-904	-13.3	-344	-1010	198	1537	1400	702	167
67 1995 Federal Report Surplus Deficit	498	-368	-130	-193	-190	-477	477	1380	1974	316	-862	3273	4574	2154	1050
68 1996 Federal Report Surplus Deficit	942	-91.6	471	842	2761	4465	4375	4801	4914	3469	5083	5144	4978	3965	3446
69 1997 Federal Report Surplus Deficit	2365	1421	481	51.4	755	1270	4450	4924	4771	3923	5135	5935	5784	4343	3259
70 1998 Federal Report Surplus Deficit	2403	2279	1406	2245	1624	346	954	2498	1151	-354	-397	5466	5585	2413	2137
71 1999 Federal Report Surplus Deficit	1921	952	-19.1	-123	-36.0	1114	3398	3733	4002	1859	2602	4001	5510	4399	2468
72 2000 Federal Report Surplus Deficit	3699	2491	771	25.9	2359	1649	1604	1907	1810	3052	4167	3580	1410	1879	1973
73 2001 Federal Report Surplus Deficit	1621	-413	-132	-67.0	53.8	-788	-248	-346	-554	-1497	-1544	445	281	40.9	-186
74 2002 Federal Report Surplus Deficit	693	-444	-565	-652	-3.14	-98.5	-712	-51.2	240	944	2697	2532	5120	3329	920
75 2003 Federal Report Surplus Deficit	656	57.8	-9.91	-15.5	280	-694	-493	444	1755	478	383	1429	4485	624	710
76 2004 Federal Report Surplus Deficit	-111	-609	-493	-167	614	357	-65.6	-381	346	221	49.3	1898	2892	625	450
77 2005 Federal Report Surplus Deficit	141	-65.0	734	346	471	652	1096	1811	367	-1286	-867	2018	2423	1015	821

Federal Report Surplus Deficit By Water Year

Operating Year 2028

2018 White Book Report Date: **12/1/2018** *Continued*

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Energy-aMW - Surplus Deficit	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
78 2006 Federal Report Surplus Deficit	637	-306	-252	-171	674	384	2365	2916	1664	3917	4025	5148	5117	1601	1954
79 2007 Federal Report Surplus Deficit	340	-497	-558	-248	669	467	1649	1183	2836	1619	351	3761	3170	1678	1295
80 2008 Federal Report Surplus Deficit	288	-686	-769	-32.7	519	-308	31.9	394	503	-193	-760	4208	6281	3074	1102
Ranked Averages															
81 Bottom 10 pct	688	-182	-110	-148	149	-718	-957	-436	-359	-1074	-1206	355	1444	311	-115
82 Middle 80 pct	1358	457	281	115	591	389	1362	1670	1448	1187	1396	3647	4115	2182	1497
83 Top 10 pct	2056	1052	537	492	1338	2340	4108	4546	4187	3551	4194	5491	5111	3898	3118

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Federal Report Surplus Deficit By Water Year

Operating Year 2029

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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	436	32.8	-164	33.3	-874	-777	-506	-315	-1232	-1400	-448	2503	-345	-135
2 1930 Federal Report Surplus Deficit	431	-169	-33.3	-132	168	-861	-1576	-455	-360	-522	-862	-324	495	597	-255
3 1931 Federal Report Surplus Deficit	620	-104	-125	-120	140	-682	-1494	-519	-300	-708	-1508	-121	206	529	-278
4 1932 Federal Report Surplus Deficit	849	-107	-87.8	-367	-233	-781	-852	-1986	1337	2049	3923	4639	3994	2011	934
5 1933 Federal Report Surplus Deficit	947	490	392	-152	-73.4	677	1740	2155	1386	837	226	2498	5777	4032	1635
6 1934 Federal Report Surplus Deficit	2774	1784	509	431	2367	3817	3999	4253	3465	4284	3957	3015	2636	154	2574
7 1935 Federal Report Surplus Deficit	73.6	-118	-378	-212	-542	-296	1585	1821	1523	-374	540	1891	1447	2085	746
8 1936 Federal Report Surplus Deficit	2164	-7.50	-163	-232	-28.5	-835	-1496	-1102	-71.1	-480	2749	4851	3424	1146	649
9 1937 Federal Report Surplus Deficit	330	-307	-342	-110	264	-705	-1705	-1472	-604	-1097	-1304	110	1700	300	-308
10 1938 Federal Report Surplus Deficit	598	-198	16.4	-178	15.8	58.2	1025	1218	2299	2538	4187	4161	2733	2338	1437
11 1939 Federal Report Surplus Deficit	177	-384	201	-141	-130	-949	234	514	452	203	1203	1830	840	723	345
12 1940 Federal Report Surplus Deficit	188	-355	-267	-52.3	324	194	568	45.5	1761	1345	409	2129	931	-399	506
13 1941 Federal Report Surplus Deficit	75.5	-488	-109	-315	319	-129	-436	-157	323	-859	-1505	-284	956	430	-66.6
14 1942 Federal Report Surplus Deficit	723	-210	167	-377	491	1232	1123	1070	-299	-440	-147	687	3897	2895	900
15 1943 Federal Report Surplus Deficit	1265	658	636	-95.2	-215	-270	2113	1838	2090	4812	4920	2857	5341	4332	2032
16 1944 Federal Report Surplus Deficit	1404	334	70.5	-225	39.7	-861	-282	-397	-794	-1420	-1694	-624	436	-150	-290
17 1945 Federal Report Surplus Deficit	589	-462	-178	-306	-4.38	-701	-1291	-745	-426	-1292	-1514	1849	3721	15.0	49.4
18 1946 Federal Report Surplus Deficit	526	-272	-115	-261	205	174	981	1106	1482	3436	4629	4316	2812	2950	1483
19 1947 Federal Report Surplus Deficit	1819	814	371	-256	662	2342	3053	2737	2482	2201	1225	3914	3397	2608	2026
20 1948 Federal Report Surplus Deficit	974	141	224	2029	1713	1092	2884	2457	1444	1431	2923	5705	5468	3068	2400
21 1949 Federal Report Surplus Deficit	2813	1847	656	121	357	4.35	902	968	2471	2337	3475	4598	2675	147	1513
22 1950 Federal Report Surplus Deficit	-9.60	-701	-273	-262	-63.9	249	2706	2979	2900	3517	2161	3451	5387	4733	2016
23 1951 Federal Report Surplus Deficit	2730	1651	631	788	1973	2471	3921	4290	3739	3936	3328	4342	3110	3683	2890
24 1952 Federal Report Surplus Deficit	1990	214	357	1549	1121	1191	2733	2563	1473	3553	5043	5435	3501	2400	2305
25 1953 Federal Report Surplus Deficit	1135	-124	-324	-181	30.3	-828	-116	3517	809	-1169	-337	2639	5798	4022	1240
26 1954 Federal Report Surplus Deficit	1360	594	396	63.1	646	650	2221	3049	2089	1466	1118	4130	4512	4592	2046
27 1955 Federal Report Surplus Deficit	3582	2922	2175	191	1175	603	72.4	385	-775	-780	-906	1794	5614	4625	1525
28 1956 Federal Report Surplus Deficit	2578	1036	253	338	1601	2365	3934	3949	3760	3257	5123	5471	5227	3403	3017
29 1957 Federal Report Surplus Deficit	2207	1416	465	289	298	798	1094	432	1973	3195	1522	5875	5528	1486	1875
30 1958 Federal Report Surplus Deficit	1232	-237	-93.1	-170	130	-44.1	1799	1796	1334	604	2134	5026	4520	1188	1441
31 1959 Federal Report Surplus Deficit	1008	-97.0	-22.9	62.1	1161	1863	3670	3788	1848	2702	1217	3273	4734	4052	2226
32 1960 Federal Report Surplus Deficit	2479	1871	2552	2724	2468	1716	2098	1883	1577	4054	2842	2035	3820	2006	2371
33 1961 Federal Report Surplus Deficit	1697	-113	42.1	4.02	594	142	1649	2106	2700	2401	520	3582	4850	1432	1605
34 1962 Federal Report Surplus Deficit	1068	131	-123	-270	213	163	1597	1940	230	1130	4217	3104	2954	1316	1190
35 1963 Federal Report Surplus Deficit	1414	355	22.0	538	1262	1579	2203	1897	354	-205	-674	2144	3996	1960	1363
36 1964 Federal Report Surplus Deficit	1086	29.1	531	-238	261	91.9	628	864	-159	812	14.8	3212	5787	4449	1365
37 1965 Federal Report Surplus Deficit	2504	1656	1106	709	969	2614	4587	4370	3671	845	4623	4512	4029	2499	2816
38 1966 Federal Report Surplus Deficit	2429	1469	109	223	390	356	1286	1556	324	1445	544	1434	2735	1801	1092

Federal Report Surplus Deficit By Water Year

Operating Year 2029

2018 White Book Report Date: 12/1/2018 *Continued*

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Energy-aMW - Surplus Deficit	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
39 1967 Federal Report Surplus Deficit	1435	-48.1	-6.80	-254	-42.9	807	2910	3120	2280	1088	-664	2991	5172	3521	1775
40 1968 Federal Report Surplus Deficit	1772	986	479	110	680	378	1807	2391	2460	-830	-937	1303	3997	2240	1355
41 1969 Federal Report Surplus Deficit	1949	1459	1492	825	1727	1209	3659	3809	2579	3344	4534	5296	3995	2505	2718
42 1970 Federal Report Surplus Deficit	695	-55.6	104	183	389	-297	1674	2136	770	-638	-805	2648	4820	1218	1093
43 1971 Federal Report Surplus Deficit	712	-190	-234	-170	191	244	4005	4194	3641	3331	2926	5475	5528	4101	2519
44 1972 Federal Report Surplus Deficit	2752	2217	677	320	541	675	3514	4169	4846	4748	2267	5072	5246	4122	2924
45 1973 Federal Report Surplus Deficit	2877	2507	827	257	546	308	1286	1492	189	-1595	-1671	-387	1020	187	561
46 1974 Federal Report Surplus Deficit	623	-472	-208	-229	12.3	1315	4564	4891	4430	4143	4527	4611	5405	4897	2828
47 1975 Federal Report Surplus Deficit	3015	2491	754	-329	-0.34	-165	1489	1744	2199	-18.4	17.8	3695	5219	4747	1846
48 1976 Federal Report Surplus Deficit	1825	1160	898	940	1910	3337	3485	3954	2919	3951	2879	5395	4052	4093	2987
49 1977 Federal Report Surplus Deficit	3762	3678	2891	323	80.1	-747	-55.9	-225	-780	-1475	-1623	-460	-166	-204	239
50 1978 Federal Report Surplus Deficit	598	-302	-625	-601	68.8	315	1165	1267	1113	3418	1055	3528	2351	2473	1118
51 1979 Federal Report Surplus Deficit	1379	392	1341	348	428	-627	606	30.0	1264	-442	331	3246	1236	-96.2	721
52 1980 Federal Report Surplus Deficit	202	-546	3.02	-138	46.4	-1028	679	37.6	-402	888	1575	4913	4155	1416	896
53 1981 Federal Report Surplus Deficit	181	-385	210	-171	508	1569	3027	2921	518	-1347	-515	3211	5292	3482	1620
54 1982 Federal Report Surplus Deficit	2671	1851	463	-34.2	768	382	2350	4288	4594	3355	1369	4716	5292	4944	2690
55 1983 Federal Report Surplus Deficit	2849	2211	1485	864	820	820	2724	3201	3461	2277	871	3460	3642	4116	2389
56 1984 Federal Report Surplus Deficit	2484	1914	851	144	2162	1113	2460	2513	2850	1979	3572	3375	5076	3837	2442
57 1985 Federal Report Surplus Deficit	2019	463	825	202	818	299	865	908	466	1770	2168	2586	1119	260	959
58 1986 Federal Report Surplus Deficit	-302	-768	10.5	427	1235	476	1814	2900	3911	3473	3122	2402	3612	903	1690
59 1987 Federal Report Surplus Deficit	874	-286	-146	-335	674	363	337	-160	916	-443	4.87	2707	1128	-233	448
60 1988 Federal Report Surplus Deficit	153	-561	-223	-264	-42.4	-1088	-1379	-647	-321	-1093	-371	-88.6	1072	897	-252
61 1989 Federal Report Surplus Deficit	620	-175	-78.8	-268	236	-110	-589	-1358	1126	1360	4026	2476	1358	473	523
62 1990 Federal Report Surplus Deficit	292	-278	-78.9	-112	511	863	1385	2560	1715	1153	3223	2413	3819	1938	1422
63 1991 Federal Report Surplus Deficit	1831	899	-45.9	-295	2096	1307	2885	2709	1907	1569	711	2636	3773	3883	1941
64 1992 Federal Report Surplus Deficit	2582	1249	51.9	-284	187	-1023	-44.6	-35.8	244	-1124	-793	1647	545	-317	163
65 1993 Federal Report Surplus Deficit	290	-420	-341	-277	146	-628	-1056	-1540	502	-80.1	-1018	3850	2694	1134	335
66 1994 Federal Report Surplus Deficit	592	-99.5	-14.2	-130	344	-486	-935	-164	-350	-985	121	941	844	676	44.2
67 1995 Federal Report Surplus Deficit	477	-341	-127	-223	-221	-512	446	1229	1949	360	-943	2676	4056	2117	928
68 1996 Federal Report Surplus Deficit	921	-64.7	473	812	2730	4430	4344	4650	4849	3468	4973	4554	4418	3918	3310
69 1997 Federal Report Surplus Deficit	2344	1448	484	21.4	724	1236	4535	4656	4549	3898	5006	5335	5249	4274	3108
70 1998 Federal Report Surplus Deficit	2382	2306	1408	2215	1594	311	923	2347	1142	-330	-474	4870	5024	2380	2011
71 1999 Federal Report Surplus Deficit	1900	979	-16.7	-153	-66.8	1079	3376	3755	3784	1833	2529	3405	4979	4313	2333
72 2000 Federal Report Surplus Deficit	3678	2518	773	-4.15	2329	1614	1573	1756	1802	3036	4091	2985	848	1851	1848
73 2001 Federal Report Surplus Deficit	1600	-386	-130	-97.0	23.0	-823	-278	-497	-561	-1473	-1621	-152	-280	14.7	-309
74 2002 Federal Report Surplus Deficit	672	-417	-562	-682	-33.9	-133	-638	-278	192	940	2620	1936	4612	3285	801
75 2003 Federal Report Surplus Deficit	635	84.7	-7.56	-45.5	249	-729	-523	293	1739	492	306	833	3954	598	589
76 2004 Federal Report Surplus Deficit	-132	-582	-491	-197	583	323	-96.2	-532	338	239	-27.6	1302	2322	599	328
77 2005 Federal Report Surplus Deficit	120	-38.0	736	316	440	617	1065	1660	360	-1263	-920	1412	1865	989	695

Federal Report Surplus Deficit By Water Year

Operating Year 2029

2018 White Book Report Date: **12/1/2018** *Continued*

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Energy-aMW - Surplus Deficit	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
78 2006 Federal Report Surplus Deficit	616	-279	-250	-201	643	349	2252	2870	1652	3909	3950	4554	4566	1574	1828
79 2007 Federal Report Surplus Deficit	319	-470	-555	-278	638	432	1618	1032	2800	1659	270	3165	2623	1654	1171
80 2008 Federal Report Surplus Deficit	267	-659	-767	-62.7	489	-342	1.34	243	496	-169	-837	3628	5785	3030	985
Ranked Averages															
81 Bottom 10 pct	667	-156	-107	-179	118	-753	-991	-581	-366	-1051	-1283	-241	886	284	-237
82 Middle 80 pct	1335	484	284	85.1	560	354	1323	1535	1430	1193	1317	3055	3578	2153	1374
83 Top 10 pct	2035	1079	539	462	1307	2305	4110	4366	4095	3531	4091	4912	4592	3861	2985

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Exhibit 44
Regional Report Surplus Deficit By Water
Year 80 Water Year Surplus/Deficit

Monthly Energy
Operating Year 2020 to 2029

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Regional Report Surplus Deficit By Water Year

Operating Year 2020

2018 White Book Report Date: 12/1/2018

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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	6086	6403	4929	5559	5723	2783	2468	3577	3666	4209	1662	2684	10370	4442	4607
2 1930 Regional Report Surplus Deficit	4373	3659	5279	5472	4869	2231	1787	4004	3543	4493	2354	2781	6269	5825	4116
3 1931 Regional Report Surplus Deficit	4704	3740	5074	5492	4852	2492	2039	3969	3658	3825	1334	2721	5413	5113	3962
4 1932 Regional Report Surplus Deficit	4171	3498	4612	5044	4356	2418	3308	1500	7131	9882	11489	11650	13102	8742	6371
5 1933 Regional Report Surplus Deficit	6152	5418	6026	5230	5973	6160	8179	8773	7357	7488	4394	8476	15725	13348	8072
6 1934 Regional Report Surplus Deficit	8918	7591	6208	7243	10875	12239	13054	13243	11833	14063	11138	9194	10005	4935	9954
7 1935 Regional Report Surplus Deficit	3703	3396	4702	5145	5461	4345	7904	8607	7382	4940	5017	7780	9025	9030	6485
8 1936 Regional Report Surplus Deficit	7499	4874	4395	4967	5009	2475	2310	2924	3946	4760	8916	11828	12362	7069	5858
9 1937 Regional Report Surplus Deficit	4585	3686	4869	5507	4914	2543	1403	1673	2951	3795	838	3238	9410	5762	4058
10 1938 Regional Report Surplus Deficit	4769	3539	4981	5157	5966	4988	6891	7258	9046	10682	12111	11709	10784	9334	7632
11 1939 Regional Report Surplus Deficit	4265	3521	5551	5176	5177	2883	5298	5809	5401	6358	6800	7253	7469	6069	5537
12 1940 Regional Report Surplus Deficit	4376	3496	5244	5373	5483	4875	5546	5143	8067	8058	4586	7638	7084	3598	5690
13 1941 Regional Report Surplus Deficit	3143	2735	4908	5177	5293	3873	3172	4431	4744	3742	266	2534	6973	4889	4237
14 1942 Regional Report Surplus Deficit	4286	3403	5211	4872	6215	7089	6435	7047	3627	4649	4023	4927	12785	10293	6377
15 1943 Regional Report Surplus Deficit	5584	5189	6410	5195	5590	4394	8657	8862	8837	15789	13481	9586	15264	13710	8859
16 1944 Regional Report Surplus Deficit	7718	5344	5219	5888	4952	2876	3656	3890	3567	3456	657	1770	6152	4071	4214
17 1945 Regional Report Surplus Deficit	4472	3201	4742	4919	4433	2427	2809	3539	3658	3322	1057	6960	12753	5095	4772
18 1946 Regional Report Surplus Deficit	4293	3476	5026	5636	5635	5270	6807	7691	7555	12799	12796	11989	11526	10912	7884
19 1947 Regional Report Surplus Deficit	6477	5781	5986	5319	7239	9826	10109	10773	10065	10357	7581	10450	12105	9798	8889
20 1948 Regional Report Surplus Deficit	6055	5552	5505	10324	9579	7061	10026	9664	7281	8762	9934	13512	15799	11068	9575
21 1949 Regional Report Surplus Deficit	9610	8477	6779	6040	6595	4496	5967	7084	9457	10732	11089	12008	11450	5726	7955
22 1950 Regional Report Surplus Deficit	4313	3091	5073	5647	5550	5324	10192	10966	11248	13468	9220	10163	15571	14942	9129
23 1951 Regional Report Surplus Deficit	9904	8629	6553	7950	10654	10809	12458	14700	12505	14281	11285	11776	11868	12383	11128
24 1952 Regional Report Surplus Deficit	7291	5371	6117	9572	8397	7553	9653	10190	7632	12601	13465	13523	12664	9526	9504
25 1953 Regional Report Surplus Deficit	5932	4958	4477	5739	4834	2504	5392	11850	6306	4004	3488	9285	15850	12785	7326
26 1954 Regional Report Surplus Deficit	7179	6095	5954	5959	7222	6615	9589	11182	9183	9489	6792	11110	14059	14638	9182
27 1955 Regional Report Surplus Deficit	10384	10286	9908	6238	8527	6033	4917	5947	3063	4949	1863	6596	15777	14313	7917
28 1956 Regional Report Surplus Deficit	9116	6450	5585	7139	9735	10173	12447	12388	12179	13143	14295	13343	15781	12063	11015
29 1957 Regional Report Surplus Deficit	8410	7568	6193	6694	6532	6960	6978	6402	8704	12427	7186	14041	15548	7843	8642
30 1958 Regional Report Surplus Deficit	5355	4583	5478	5284	5514	4571	8425	9396	7450	7573	8397	12594	13992	7228	7725
31 1959 Regional Report Surplus Deficit	5776	4339	4996	5764	8392	8996	11321	12510	8626	11598	7567	9876	14041	12844	9315
32 1960 Regional Report Surplus Deficit	8827	8168	10842	11946	11230	8455	8616	8926	7791	14395	10045	7973	12616	8920	9820
33 1961 Regional Report Surplus Deficit	6555	5009	5048	5559	7231	4953	8175	9871	10075	10549	4996	9977	14176	7480	7990
34 1962 Regional Report Surplus Deficit	6267	4313	5042	5270	5737	4899	7776	8536	4787	8861	12422	9608	11329	7369	7170
35 1963 Regional Report Surplus Deficit	6032	5296	5035	6700	8691	8327	8570	9833	5342	5625	2535	7742	13227	8507	7629
36 1964 Regional Report Surplus Deficit	5543	4644	6190	5287	6427	4866	6392	6769	4301	7937	4322	9763	16274	13794	7598
37 1965 Regional Report Surplus Deficit	9025	7805	7429	7192	7678	10365	12626	14427	12078	8258	13086	11993	12887	9850	10453
38 1966 Regional Report Surplus Deficit	8233	7651	5556	6238	6578	5324	7430	7631	5511	9438	5592	6844	11129	8450	7170

Regional Report Surplus Deficit By Water Year

Operating Year 2020

2018 White Book Report Date: 12/1/2018 *Continued*

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Energy-aMW - Surplus Deficit	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
39 1967 Regional Report Surplus Deficit	6813	4485	5165	5219	5528	6753	10424	11114	9475	8244	3057	9530	15373	11965	8475
40 1968 Regional Report Surplus Deficit	7214	6379	5962	6394	7275	5632	8733	10434	10240	4181	1701	6475	13512	9448	7809
41 1969 Regional Report Surplus Deficit	7375	6506	8567	7834	9710	7550	11236	12431	9535	13396	13125	13284	13329	9787	10266
42 1970 Regional Report Surplus Deficit	5858	4699	5452	5953	6321	4138	8409	9570	6265	4654	2016	9006	14098	7496	7093
43 1971 Regional Report Surplus Deficit	5777	4271	5053	5779	5509	5191	11749	14270	12209	12999	10624	13295	16323	13600	9962
44 1972 Regional Report Surplus Deficit	9195	9050	6557	6621	7129	6250	11598	12360	16225	16449	9827	12873	16018	13522	10945
45 1973 Regional Report Surplus Deficit	10084	9570	7041	6430	6860	5961	7352	7852	4856	3279	302	2747	7547	5257	6120
46 1974 Regional Report Surplus Deficit	4186	3203	5039	5679	5705	7803	14231	15064	13946	14630	12888	12199	16225	15142	10687
47 1975 Regional Report Surplus Deficit	9812	9513	6677	5256	5820	4915	8184	8742	9062	6370	4576	10841	15210	14478	8697
48 1976 Regional Report Surplus Deficit	7393	7423	7011	8074	10232	11922	11730	12609	10600	13656	10315	13030	13327	13219	10923
49 1977 Regional Report Surplus Deficit	11014	11150	11371	6169	5610	2997	4083	4075	3532	3006	369	2400	4406	3597	5083
50 1978 Regional Report Surplus Deficit	4186	3124	3706	4025	4945	5727	6869	7255	6823	12754	6906	10481	9959	9916	6927
51 1979 Regional Report Surplus Deficit	5404	4532	8892	6222	6290	3366	5324	5235	7463	4634	4312	9458	8059	4837	6212
52 1980 Regional Report Surplus Deficit	4176	3705	5434	5196	5176	2945	5887	5591	4039	7782	7934	12460	13590	7825	6652
53 1981 Regional Report Surplus Deficit	4344	3919	5666	5150	6599	8887	10287	11064	5662	3259	2936	9398	14635	11304	7978
54 1982 Regional Report Surplus Deficit	8861	7569	5882	5722	7207	5795	9170	13010	14610	12835	7137	12085	14985	14697	10102
55 1983 Regional Report Surplus Deficit	9134	8662	8063	7508	7465	6972	10575	11559	12071	10645	6229	10426	12804	13183	9826
56 1984 Regional Report Surplus Deficit	9054	7005	6701	6156	10737	7296	10360	10123	10245	9450	10065	9511	14788	12184	9643
57 1985 Regional Report Surplus Deficit	8382	5747	6811	6287	7838	5249	6285	6606	5550	9469	8242	9071	8076	5406	6913
58 1986 Regional Report Surplus Deficit	3561	2664	5634	6739	8692	5456	8736	10662	13366	13213	10435	8648	12505	6545	8467
59 1987 Regional Report Surplus Deficit	4958	4016	4894	5609	6660	5324	5110	4920	6938	5191	4485	8595	7288	4178	5738
60 1988 Regional Report Surplus Deficit	3459	2640	4724	5163	4415	1963	2322	3681	3660	3677	3524	3222	7427	6218	4112
61 1989 Regional Report Surplus Deficit	4302	3543	4652	5384	5662	4082	3440	2111	6548	8700	12077	8750	8469	6048	5791
62 1990 Regional Report Surplus Deficit	4255	3764	5149	5158	6964	6829	8188	9919	8113	8573	10176	8340	12788	8978	7797
63 1991 Regional Report Surplus Deficit	7516	6701	5048	5624	10446	7318	9902	10537	8721	9364	5919	8684	12717	12607	8852
64 1992 Regional Report Surplus Deficit	9030	7037	5032	4830	5813	2635	4338	4913	4903	3553	2020	6202	5682	3590	4895
65 1993 Regional Report Surplus Deficit	3563	2694	4209	4814	4931	2565	2666	1620	5263	5676	1932	10503	10511	6884	5084
66 1994 Regional Report Surplus Deficit	5641	4460	5492	5574	5147	3037	2394	5047	3787	3931	4936	5418	6656	5652	4798
67 1995 Regional Report Surplus Deficit	4132	3071	4928	5380	4450	3683	5463	7977	9070	6661	2069	8851	13347	8919	6659
68 1996 Regional Report Surplus Deficit	5461	4234	6049	7246	12000	13597	13829	15084	14916	13652	13978	11985	13852	12479	11623
69 1997 Regional Report Surplus Deficit	8729	7027	6041	5768	7263	7572	13759	14572	14759	14425	13952	13481	15798	13716	11216
70 1998 Regional Report Surplus Deficit	9037	9178	8509	11108	9357	5766	7238	9815	7378	5788	3377	12312	14883	9183	9097
71 1999 Regional Report Surplus Deficit	6584	5095	5176	5855	5227	7517	11434	11312	13409	10210	9471	10417	15244	14033	9604
72 2000 Regional Report Surplus Deficit	10573	9491	6777	5789	10912	8501	8021	8482	8179	12263	12203	9472	7699	8389	8700
73 2001 Regional Report Surplus Deficit	6117	3888	4620	5316	5099	2534	3168	3431	3591	3194	460	2791	4666	4207	3852
74 2002 Regional Report Surplus Deficit	4290	2947	3795	3711	4536	4090	3662	4498	4838	7515	9223	7681	13890	11407	6166
75 2003 Regional Report Surplus Deficit	5622	5035	5257	5101	5300	2705	3576	5500	7972	6538	4787	5147	12324	5639	5778
76 2004 Regional Report Surplus Deficit	3689	2534	4220	5337	5880	4673	4318	3766	4930	5898	4088	5901	9736	6088	5242
77 2005 Regional Report Surplus Deficit	4588	4373	7072	5997	6394	5839	6592	7661	4919	3196	1787	6044	8946	6604	6076

Regional Report Surplus Deficit By Water Year

Operating Year 2020

2018 White Book Report Date: **12/1/2018** *Continued*

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Energy-aMW - Surplus Deficit	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
78 2006 Regional Report Surplus Deficit	5126	3432	4982	4882	5971	4916	9792	10253	7866	13356	11467	11837	14138	7657	8223
79 2007 Regional Report Surplus Deficit	4516	3688	4406	4785	7038	5517	7900	7189	10859	9385	4792	9335	10378	7746	7193
80 2008 Regional Report Surplus Deficit	4799	3294	4102	5357	5375	3581	4336	4927	5320	5335	2269	9984	15782	11144	6478
Ranked Averages															
81 Bottom 10 pct	5023	4012	4953	5447	5015	2662	2502	3582	3672	3799	1387	2718	7085	5066	4145
82 Middle 80 pct	6313	5307	5829	5935	6689	5465	7324	8093	7573	8388	6709	9323	12237	9119	7569
83 Top 10 pct	7876	6728	6283	6959	8799	9811	12835	13901	13401	13562	12453	12585	14469	12797	10999

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Regional Report Surplus Deficit By Water Year

Operating Year 2021

2018 White Book Report Date: 12/1/2018

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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	5414	4765	5172	5396	5588	1990	1144	1974	2223	3655	1116	2169	8465	3157	3725
2 1930 Regional Report Surplus Deficit	4069	3542	4764	5309	4734	1438	461	2369	2111	3963	1819	2275	4364	4535	3251
3 1931 Regional Report Surplus Deficit	4135	3520	4751	5329	4717	1698	722	2375	2244	3317	834	2219	3503	3823	3105
4 1932 Regional Report Surplus Deficit	4160	3212	4535	4880	4221	1625	1986	-93.1	5805	9292	10897	11151	11152	7466	5566
5 1933 Regional Report Surplus Deficit	5619	4648	5533	5066	5838	5339	6793	7202	5987	7081	3724	7882	14213	11790	7174
6 1934 Regional Report Surplus Deficit	8941	7513	6269	7079	10714	11534	11986	11634	10398	13376	10520	8958	8311	3645	9203
7 1935 Regional Report Surplus Deficit	3346	3632	4200	4981	5327	3551	6508	7022	6048	4346	4440	7155	7100	7753	5620
8 1936 Regional Report Surplus Deficit	7305	4499	4556	4803	4874	1681	956	1289	2490	4199	8574	11407	10503	5778	5063
9 1937 Regional Report Surplus Deficit	3619	3189	4242	5343	4779	1749	84.3	67.2	1499	3224	273	2708	7485	4475	3141
10 1938 Regional Report Surplus Deficit	4487	3537	4900	4993	5831	4194	5557	5701	7620	10072	11714	11179	8876	8057	6817
11 1939 Regional Report Surplus Deficit	4067	3385	5176	5012	5042	2089	3878	4304	3946	5869	6223	6713	5545	4782	4682
12 1940 Regional Report Surplus Deficit	3522	3141	4472	5209	5348	4082	4198	3509	6725	7486	4007	7097	5177	2321	4773
13 1941 Regional Report Surplus Deficit	2930	2676	4536	5013	5158	3080	1839	2809	3289	3203	-266	1993	5056	3598	3384
14 1942 Regional Report Surplus Deficit	4039	3115	5025	4708	6080	6312	5087	5413	2191	4084	3467	4344	10898	9030	5527
15 1943 Regional Report Surplus Deficit	5447	5067	6030	5031	5455	3600	7303	7264	7800	15165	12976	8994	13522	12441	8051
16 1944 Regional Report Surplus Deficit	6424	4820	5469	5724	4817	2082	2237	2387	2124	2913	122	1239	4216	2795	3351
17 1945 Regional Report Surplus Deficit	3888	2806	4393	4755	4298	1634	1489	1905	2216	2786	528	6382	10863	3816	3896
18 1946 Regional Report Surplus Deficit	4197	3322	4874	5472	5500	4477	5452	6064	6298	12164	12411	11806	9616	9635	7100
19 1947 Regional Report Surplus Deficit	6850	5635	5758	5155	7104	9190	8749	9357	8660	9658	6982	10145	10245	8523	8112
20 1948 Regional Report Surplus Deficit	5583	4649	5441	10160	9444	6224	8674	8030	5833	8331	9390	13305	14152	9789	8749
21 1949 Regional Report Surplus Deficit	9078	7893	6511	5876	6460	3703	4646	5450	8239	10281	10509	11641	9592	4440	7120
22 1950 Regional Report Surplus Deficit	3842	2957	4659	5483	5415	4530	8890	9768	9658	12789	8604	9625	14075	13430	8284
23 1951 Regional Report Surplus Deficit	9254	7881	6487	7786	10521	10013	11390	13286	11066	13626	10630	11345	9983	11016	10278
24 1952 Regional Report Surplus Deficit	7505	4829	6146	9408	8261	6717	8288	8568	6190	12281	13084	13330	10788	8233	8721
25 1953 Regional Report Surplus Deficit	5551	4449	4509	5575	4699	1710	3939	10396	4886	3432	2924	8641	14079	11510	6476
26 1954 Regional Report Surplus Deficit	6271	5454	5862	5795	7087	5814	8170	9621	7922	8830	6089	10948	12515	13008	8328
27 1955 Regional Report Surplus Deficit	10479	9857	9788	6074	8392	5222	3572	4323	1607	4399	1284	5989	14322	12776	7093
28 1956 Regional Report Surplus Deficit	8679	6214	5771	6976	9599	9410	11264	10906	10874	12418	13674	13283	14258	10774	10288
29 1957 Regional Report Surplus Deficit	7962	7110	6186	6530	6397	6126	5626	4762	7474	11847	6590	13638	14065	6559	7855
30 1958 Regional Report Surplus Deficit	5809	3596	4886	5120	5379	3778	7071	7751	5996	7000	7819	12214	12233	5913	6854
31 1959 Regional Report Surplus Deficit	5327	3978	4987	5601	8257	8252	10405	10649	7171	10989	6977	9709	12585	11449	8538
32 1960 Regional Report Surplus Deficit	8188	7626	10812	11803	11071	7627	7058	7551	6499	13648	9329	7398	10779	7647	8959
33 1961 Regional Report Surplus Deficit	6746	4547	5118	5395	7096	4160	6846	8226	8587	10001	4404	9756	12524	6199	7210
34 1962 Regional Report Surplus Deficit	5702	3977	4791	5106	5602	4105	6224	7171	3346	8200	11836	8989	9432	6090	6288
35 1963 Regional Report Surplus Deficit	6242	4815	5268	6536	8556	7512	7289	8194	3887	5054	1958	7082	11394	7230	6815
36 1964 Regional Report Surplus Deficit	5206	4101	6071	5123	6292	4073	4944	5247	2860	7345	3752	9181	14566	12213	6727
37 1965 Regional Report Surplus Deficit	8542	7448	7496	7029	7543	9664	11481	13075	10767	7550	12689	11828	11154	8601	9707
38 1966 Regional Report Surplus Deficit	8269	7217	5634	6074	6443	4530	5927	6181	4063	8854	5017	6272	9217	7172	6342

Regional Report Surplus Deficit By Water Year
Operating Year 2021
2018 White Book Report Date: **12/1/2018** *Continued*
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Energy-aMW - Surplus Deficit	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
39 1967 Regional Report Surplus Deficit	5868	4329	5096	5055	5393	5939	9092	9600	8028	7610	2492	8962	13946	10590	7639
40 1968 Regional Report Surplus Deficit	6901	5963	5974	6231	7140	4838	7388	8792	8767	3684	1185	5897	11733	8167	6968
41 1969 Regional Report Surplus Deficit	7127	7199	8523	7670	9577	6715	10141	10541	8488	12840	12580	13137	11636	8521	9549
42 1970 Regional Report Surplus Deficit	5189	4140	5322	5789	6186	3345	7054	7926	4975	4006	1422	8346	12358	6221	6222
43 1971 Regional Report Surplus Deficit	4899	3712	4755	5615	5374	4397	11183	12260	11070	12347	9987	13230	14762	12412	9186
44 1972 Regional Report Surplus Deficit	9235	8418	6538	6457	6994	5456	10425	12025	14061	15638	9226	12715	14534	12110	10199
45 1973 Regional Report Surplus Deficit	9452	9046	7048	6266	6725	5169	5998	6218	3401	2732	-237	2222	5644	3968	5256
46 1974 Regional Report Surplus Deficit	4428	2916	4791	5515	5570	7066	13220	13536	12583	14002	12454	11973	14606	13535	9913
47 1975 Regional Report Surplus Deficit	9688	9011	6685	5092	5685	4121	6763	7214	7795	5665	4010	10226	13437	13138	7868
48 1976 Regional Report Surplus Deficit	7156	6817	7064	7938	10097	11216	10476	11120	9173	13192	9717	12849	11546	11657	10124
49 1977 Regional Report Surplus Deficit	10966	11201	11100	6005	5475	2203	2655	2574	2086	2499	-130	1853	2495	2320	4258
50 1978 Regional Report Surplus Deficit	3784	2951	4053	3861	4810	4986	5502	5709	5397	12139	6305	9896	8061	8641	6123
51 1979 Regional Report Surplus Deficit	6577	5117	8119	6058	6155	2572	3974	3608	6006	4178	3710	8882	6156	3554	5412
52 1980 Regional Report Surplus Deficit	3552	2978	4975	5033	5041	2151	4532	3956	2583	7223	7381	11995	11696	6546	5754
53 1981 Regional Report Surplus Deficit	3651	3331	5432	4986	6464	8060	9169	9540	4218	2824	2526	8777	13056	9947	7134
54 1982 Regional Report Surplus Deficit	8247	7284	5899	5558	7072	5001	7816	11795	13036	12131	6553	11652	13255	13179	9262
55 1983 Regional Report Surplus Deficit	8486	8221	8129	7344	7330	6165	9288	10169	10693	10095	5594	9895	10961	11802	8992
56 1984 Regional Report Surplus Deficit	8544	7939	6765	5993	10599	6485	9054	8576	9032	8914	9696	9067	12961	10919	8908
57 1985 Regional Report Surplus Deficit	7530	5197	6865	6123	7703	4455	4845	5084	4095	8894	7742	8479	6173	4116	6043
58 1986 Regional Report Surplus Deficit	2821	2578	5281	6575	8559	4663	7381	9483	11828	12624	9835	8100	10535	5257	7603
59 1987 Regional Report Surplus Deficit	4989	3445	4976	5445	6525	4531	3758	3285	5482	4793	3942	8054	5377	2887	4916
60 1988 Regional Report Surplus Deficit	3340	2663	4949	4999	4280	1169	970	2046	2205	3140	2993	2704	5519	4932	3317
61 1989 Regional Report Surplus Deficit	4126	3348	4607	5220	5527	3288	2160	506	5303	8079	11442	8148	6553	4774	4983
62 1990 Regional Report Surplus Deficit	4022	3723	4909	4994	6829	6000	6796	8395	6694	8013	9592	7820	11205	7692	6979
63 1991 Regional Report Surplus Deficit	6867	5794	5062	5460	10313	6482	8764	9132	7398	8787	5281	8165	10912	11109	8000
64 1992 Regional Report Surplus Deficit	8447	6606	5119	4666	5678	1842	3049	3353	3524	3050	1524	5700	3768	2299	4070
65 1993 Regional Report Surplus Deficit	3305	2633	4824	4650	4796	1771	1379	57.2	3830	5114	1410	10115	8450	5741	4344
66 1994 Regional Report Surplus Deficit	4980	3862	4903	5410	5012	2243	1097	3483	2404	3432	4445	4909	4739	4357	3904
67 1995 Regional Report Surplus Deficit	3778	2899	4637	5216	4315	2889	4171	6444	7645	6128	1498	8326	11557	7635	5823
68 1996 Regional Report Surplus Deficit	5567	3875	5718	7082	11830	13114	12774	13710	13471	12992	13489	11584	12072	11098	10844
69 1997 Regional Report Surplus Deficit	8017	6940	6089	5604	7128	6770	12354	13189	13269	13737	13553	13250	14272	12217	10416
70 1998 Regional Report Surplus Deficit	8505	8644	8484	10933	9222	4972	5900	8201	5924	5224	2821	11934	13044	8138	8276
71 1999 Regional Report Surplus Deficit	7410	6388	5185	5691	5092	6680	10237	10835	11035	9729	8749	9894	13521	12438	8884
72 2000 Regional Report Surplus Deficit	10506	9146	6650	5625	10775	7672	6682	6924	6740	11642	11644	8862	5771	7088	7852
73 2001 Regional Report Surplus Deficit	6328	3797	4847	5153	4964	1740	1672	2085	2190	2667	-59.6	2249	2716	2899	3074
74 2002 Regional Report Surplus Deficit	3842	2681	4110	3547	4401	3296	2353	2903	3414	7072	8575	7134	12299	10157	5391
75 2003 Regional Report Surplus Deficit	5116	4333	4880	4938	5165	1911	2283	3931	6575	6022	4180	4572	10470	4333	4897
76 2004 Regional Report Surplus Deficit	2740	2499	4640	5173	5745	3879	3020	2188	3530	5433	3528	5316	7815	4789	4438
77 2005 Regional Report Surplus Deficit	3439	4277	6502	5833	6259	5019	5293	6081	3520	2681	1309	5486	6984	5292	5168

Regional Report Surplus Deficit By Water Year
Operating Year 2021
2018 White Book Report Date: **12/1/2018** *Continued*
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Energy-aMW - Surplus Deficit	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
78 2006 Regional Report Surplus Deficit	4163	3147	5114	4719	5836	4122	8382	8798	6443	12918	11033	11387	12588	6316	7416
79 2007 Regional Report Surplus Deficit	4197	3050	4640	4621	6905	4723	6584	5600	9409	8878	4250	8737	8452	6432	6359
80 2008 Regional Report Surplus Deficit	4011	2612	4163	5193	5240	2788	3026	3338	3911	4829	1743	9541	14402	9825	5674
Ranked Averages															
81 Bottom 10 pct	4532	3622	4841	5283	4880	1868	1141	2014	2236	3260	854	2195	5166	3777	3294
82 Middle 80 pct	5959	4998	5716	5772	6553	4668	6004	6546	6167	7829	6151	8838	10455	7801	6742
83 Top 10 pct	7610	6314	6244	6798	8660	9088	11673	12606	11908	12894	11929	12353	12803	11376	10221

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Regional Report Surplus Deficit By Water Year

Operating Year 2022

2018 White Book Report Date: 12/1/2018

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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	4539	3447	4022	4041	4208	1228	424	1233	1791	1395	-788	2129	8790	2483	2884
2 1930 Regional Report Surplus Deficit	3194	2237	3625	3962	3378	659	-258	1629	1679	1703	-85.3	2235	4684	3862	2412
3 1931 Regional Report Surplus Deficit	3273	2215	3597	3991	3349	948	2.45	1635	1812	1057	-1070	2179	3822	3150	2268
4 1932 Regional Report Surplus Deficit	3285	1907	3391	3538	2857	871	1266	-833	5293	7031	8689	10974	11383	6793	4690
5 1933 Regional Report Surplus Deficit	4744	3332	4394	3728	4470	4531	6004	6298	5501	4677	1949	7447	14291	11574	6294
6 1934 Regional Report Surplus Deficit	8066	6196	5128	5739	9138	10464	10617	10792	9789	11065	8342	7948	8494	2971	8136
7 1935 Regional Report Surplus Deficit	2471	2327	3061	3637	3944	2791	5713	6136	5501	2098	2536	6948	7430	7080	4741
8 1936 Regional Report Surplus Deficit	6431	3194	3417	3451	3511	924	236	549	2058	1925	6680	11158	10736	5105	4200
9 1937 Regional Report Surplus Deficit	2744	1884	3094	3997	3414	994	-635	-673	1067	964	-1631	2669	7798	3801	2303
10 1938 Regional Report Surplus Deficit	3613	2232	3758	3639	4446	3403	4738	4810	7143	7774	9739	10460	9147	7385	5884
11 1939 Regional Report Surplus Deficit	3193	2080	4031	3659	3665	1318	3252	3453	3514	3482	4386	6694	5888	4108	3842
12 1940 Regional Report Surplus Deficit	2647	1836	3319	3859	3983	3304	3449	2769	6219	5225	2102	7055	5495	1647	3923
13 1941 Regional Report Surplus Deficit	2068	1371	3369	3659	3772	2309	1119	2058	2866	943	-2170	1954	5374	2925	2541
14 1942 Regional Report Surplus Deficit	3164	1810	3859	3360	4685	5393	4295	4570	1759	1824	1563	4300	11095	8361	4647
15 1943 Regional Report Surplus Deficit	4528	3720	4875	3687	4052	2808	6435	6375	7026	13175	11209	8964	13660	11870	7161
16 1944 Regional Report Surplus Deficit	5549	3502	4311	4362	3431	1311	1616	1534	1692	653	-1782	1199	4536	2121	2507
17 1945 Regional Report Surplus Deficit	3027	1501	3238	3416	2905	870	769	1165	1784	526	-1376	6333	11051	3142	3044
18 1946 Regional Report Surplus Deficit	3322	2017	3719	4122	4110	3685	4642	5254	5825	9798	10268	10717	9885	8972	6133
19 1947 Regional Report Surplus Deficit	5975	4330	4594	3797	5720	8267	7885	8256	8111	7526	5167	10024	10427	7856	7197
20 1948 Regional Report Surplus Deficit	4708	3344	4285	8742	7960	5377	7826	7141	5400	5927	7501	12401	14132	9103	7757
21 1949 Regional Report Surplus Deficit	8203	6575	5352	4512	5076	2924	3866	4619	7692	7872	8698	11523	9827	3767	6237
22 1950 Regional Report Surplus Deficit	2967	1652	3515	4123	4036	3742	7937	8429	9461	10551	6825	8977	14093	13103	7354
23 1951 Regional Report Surplus Deficit	8379	6563	5332	6410	8964	9084	10222	11804	10504	11319	8720	10461	10183	10479	9228
24 1952 Regional Report Surplus Deficit	6630	3524	4995	8000	6802	5827	7439	7679	5739	9780	11130	12381	10986	7562	7735
25 1953 Regional Report Surplus Deficit	4671	3125	3342	4202	3304	918	3290	9453	4418	1172	1020	8616	14290	10846	5607
26 1954 Regional Report Surplus Deficit	5383	4123	4689	4413	5677	4956	7366	8726	7183	6661	4336	9792	12347	12723	7334
27 1955 Regional Report Surplus Deficit	9568	8528	8610	4701	6907	4389	2852	3583	1175	2118	-616	5998	14223	12487	6233
28 1956 Regional Report Surplus Deficit	7805	4896	4612	5613	8071	8500	10419	10037	10434	10166	11693	12233	14020	10094	9264
29 1957 Regional Report Surplus Deficit	7073	5778	5013	5137	4992	5255	4824	4027	6921	9499	4696	12866	14031	5885	6884
30 1958 Regional Report Surplus Deficit	4934	2291	3714	3727	3973	2986	6203	6862	5547	4734	5909	12162	12257	5240	5952
31 1959 Regional Report Surplus Deficit	4428	2648	3803	4222	6778	7300	9425	9893	6674	8777	5138	8632	12515	10980	7539
32 1960 Regional Report Surplus Deficit	7307	6303	9641	10269	9524	6697	6433	6413	5911	11352	7455	7370	10964	6974	8026
33 1961 Regional Report Surplus Deficit	5871	3229	3966	4034	5700	3368	5978	7337	8043	7725	2537	8705	12449	5525	6213
34 1962 Regional Report Surplus Deficit	4827	2672	3640	3739	4198	3313	5591	6026	2900	5970	9835	8733	9698	5421	5391
35 1963 Regional Report Surplus Deficit	5367	3510	4127	5142	7074	6573	6320	7305	3455	2794	54.2	7109	11521	6559	5906
36 1964 Regional Report Surplus Deficit	4332	2796	4917	3762	4886	3289	4286	4381	2414	5092	1852	8986	14756	11870	5880
37 1965 Regional Report Surplus Deficit	8147	6130	6352	5675	6103	8791	10916	11722	10272	5448	10792	10796	11358	7924	8745
38 1966 Regional Report Surplus Deficit	7382	5899	4482	4706	5037	3722	5251	5174	3623	6595	3107	6267	9536	6498	5478

Regional Report Surplus Deficit By Water Year

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2018 White Book Report Date: 12/1/2018 *Continued*

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Energy-aMW - Surplus Deficit	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
39 1967 Regional Report Surplus Deficit	4993	3024	3946	3701	3999	5076	8158	8617	7525	5434	588	8334	13928	10078	6685
40 1968 Regional Report Surplus Deficit	6026	4645	4832	4861	5731	4016	6520	7903	8224	1400	-710	5914	11838	7493	6072
41 1969 Regional Report Surplus Deficit	6249	5891	7375	6319	8075	5841	9363	9785	7557	10429	10365	12186	11676	7836	8520
42 1970 Regional Report Surplus Deficit	4314	2835	4179	4414	4806	2553	6186	7037	4295	1886	-432	8411	12577	5547	5341
43 1971 Regional Report Surplus Deficit	4024	2394	3611	4252	3968	3605	10327	11331	10472	10099	8125	12149	14635	11764	8178
44 1972 Regional Report Surplus Deficit	8360	7100	5369	5080	5588	4631	9423	10863	13875	13100	7304	11684	14433	11585	9192
45 1973 Regional Report Surplus Deficit	8577	7728	5888	4898	5319	4352	5174	5391	2968	472	-2141	2181	5961	3295	4390
46 1974 Regional Report Surplus Deficit	3554	1611	3636	4149	4164	6114	11954	12697	12198	11797	10281	11060	14558	13206	8919
47 1975 Regional Report Surplus Deficit	8813	7693	5537	3733	4304	3329	5962	6257	7138	3534	2103	9644	13551	12544	6930
48 1976 Regional Report Surplus Deficit	6282	5499	5911	6557	8560	10423	9645	10251	8625	10928	7805	12002	11708	11350	9184
49 1977 Regional Report Surplus Deficit	10222	9818	9943	4642	4080	1434	1839	1950	1653	239	-2034	1813	2814	1646	3417
50 1978 Regional Report Surplus Deficit	2923	1646	2911	2504	3405	4062	4706	4797	5055	9752	4399	9238	8357	7960	5195
51 1979 Regional Report Surplus Deficit	5703	3799	6958	4713	4781	1804	3250	2868	5562	1831	1861	8880	6478	2880	4571
52 1980 Regional Report Surplus Deficit	2678	1673	3825	3680	3643	1366	3784	3216	2151	4957	5473	11393	11862	5876	4847
53 1981 Regional Report Surplus Deficit	2776	2026	4281	3642	5089	7120	8065	8651	3786	436	480	8678	13057	9416	6205
54 1982 Regional Report Surplus Deficit	7372	5966	4760	4198	5640	4170	6948	11192	12287	9900	4706	10989	13327	12815	8339
55 1983 Regional Report Surplus Deficit	8137	6903	6964	5976	5907	5273	8420	9300	10292	7737	3735	9868	11152	11247	8134
56 1984 Regional Report Surplus Deficit	7669	6589	5597	4627	9031	5597	8186	7687	8528	6622	7832	9086	13226	10278	8010
57 1985 Regional Report Surplus Deficit	6655	3869	5676	4732	6286	3663	4148	4196	3663	6631	5837	8483	6491	3443	5184
58 1986 Regional Report Surplus Deficit	1944	1273	4093	5205	7094	3859	6513	8635	11425	10248	7913	8049	10758	4585	6714
59 1987 Regional Report Surplus Deficit	4114	2140	3799	4080	5133	3732	3039	2545	5048	2293	2092	7824	5697	2213	4044
60 1988 Regional Report Surplus Deficit	2465	1358	3800	3655	2909	377	250	1306	1773	880	1089	2663	5839	4258	2475
61 1989 Regional Report Surplus Deficit	3246	2025	3449	3887	4180	2547	1396	-233	4725	5844	9578	8145	6869	4101	4136
62 1990 Regional Report Surplus Deficit	3138	2397	3745	3651	5475	5206	6033	7360	6326	5720	7723	7312	11146	7023	6044
63 1991 Regional Report Surplus Deficit	5974	4457	3901	4119	8820	5607	7806	8043	6808	6681	3589	7947	11022	10710	7083
64 1992 Regional Report Surplus Deficit	7997	5280	3970	3337	4339	1115	2330	2613	3091	790	-380	5655	4088	1626	3253
65 1993 Regional Report Surplus Deficit	2429	1327	3681	3320	3453	1045	660	-683	3397	2854	-527	10062	8898	4926	3507
66 1994 Regional Report Surplus Deficit	4092	2526	3734	4064	3654	1501	377	2743	1972	1172	2541	4866	5058	3684	3063
67 1995 Regional Report Surplus Deficit	2909	1587	3481	3886	2975	2162	3430	5560	7098	3842	-400	8264	11760	6962	4955
68 1996 Regional Report Surplus Deficit	4675	2552	4549	5738	10276	11864	11492	12818	13023	10661	11307	10831	12326	10564	9816
69 1997 Regional Report Surplus Deficit	7122	5615	4921	4260	5773	5858	11504	12289	12830	11469	11343	12236	14087	11823	9424
70 1998 Regional Report Surplus Deficit	8138	7307	7327	9472	7766	4199	5086	7312	5491	2964	917	11808	13237	7463	7400
71 1999 Regional Report Surplus Deficit	5972	5060	4017	4359	3716	5765	9312	9686	10934	7313	7026	9790	13733	12210	8011
72 2000 Regional Report Surplus Deficit	9928	7807	5487	4284	9179	6760	5828	6035	6222	9295	9667	8698	6088	6414	6943
73 2001 Regional Report Surplus Deficit	5436	2476	3688	3813	3615	927	1150	1113	1758	407	-1963	2209	3036	2225	2229
74 2002 Regional Report Surplus Deficit	2951	1359	2954	2208	3051	2563	1634	2163	2982	4700	6788	7098	12195	9484	4521
75 2003 Regional Report Surplus Deficit	4234	3007	3736	3613	3827	1185	1564	3176	6072	3709	2321	4548	10601	3659	4043
76 2004 Regional Report Surplus Deficit	1848	1177	3477	3834	4374	3129	2300	1448	3099	3127	1666	5329	8114	4115	3600
77 2005 Regional Report Surplus Deficit	2551	2958	5346	4502	4912	4239	4492	5226	3088	421	-626	5454	7323	4618	4314

Regional Report Surplus Deficit By Water Year

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Energy-aMW - Surplus Deficit	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
78 2006 Regional Report Surplus Deficit	3265	1819	3956	3385	4488	3385	7643	7749	5994	10452	9169	11349	12437	5643	6507
79 2007 Regional Report Surplus Deficit	3278	1701	3468	3277	5515	3953	5716	4768	8860	6579	2347	8615	8766	5760	5473
80 2008 Regional Report Surplus Deficit	3117	1287	3002	3856	3886	2044	2306	2598	3479	2543	-147	9483	14311	9149	4800
Ranked Averages															
81 Bottom 10 pct	3659	2311	3688	3935	3509	1094	459	1229	1805	1000	-1050	2155	5485	3103	2452
82 Middle 80 pct	5100	3679	4559	4411	5145	3852	5198	5681	5677	5541	4253	8548	10619	7185	5841
83 Top 10 pct	6790	4996	5085	5435	7187	8158	10697	11560	11470	10611	9906	11413	12834	10878	9221

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Regional Report Surplus Deficit By Water Year

Operating Year 2023

2018 White Book Report Date: 12/1/2018

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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	3536	2681	3130	3126	3240	312	29.1	769	1074	1784	-527	1148	7758	2352	2218
2 1930 Regional Report Surplus Deficit	2190	1470	2739	3047	2409	-257	-694	1211	962	2093	176	1253	3649	3730	1747
3 1931 Regional Report Surplus Deficit	2269	1449	2711	3076	2380	31.6	-433	1217	1095	1446	-809	1196	2788	3019	1602
4 1932 Regional Report Surplus Deficit	2281	1141	2506	2623	1889	-44.7	831	-1251	4460	7384	9232	10120	10493	6657	4047
5 1933 Regional Report Surplus Deficit	3741	2566	3506	2813	3502	3561	5395	5776	4729	5065	2208	6885	13182	11221	5606
6 1934 Regional Report Surplus Deficit	7062	5429	4235	4824	8195	9689	10100	10156	8941	11370	8991	7653	7359	2840	7511
7 1935 Regional Report Surplus Deficit	1467	1560	2175	2722	2976	1851	5101	5614	4746	2469	2791	6181	6399	6945	4064
8 1936 Regional Report Surplus Deficit	5427	2427	2531	2536	2543	8.16	-199	131	1341	2324	6927	10350	9720	4972	3550
9 1937 Regional Report Surplus Deficit	1741	1118	2209	3082	2445	77.8	-1071	-1091	350	1353	-1369	1684	6765	3671	1637
10 1938 Regional Report Surplus Deficit	2609	1466	2872	2724	3477	2451	4196	4356	6233	8150	9976	10082	8169	7247	5241
11 1939 Regional Report Surplus Deficit	2189	1313	3145	2744	2696	402	2650	3078	2796	3895	4635	5722	4855	3977	3167
12 1940 Regional Report Surplus Deficit	1643	1070	2433	2944	3015	2334	2904	2345	5377	5608	2358	6085	4462	1516	3233
13 1941 Regional Report Surplus Deficit	1064	605	2484	2744	2793	1358	682	1649	2134	1332	-1908	973	4341	2794	1871
14 1942 Regional Report Surplus Deficit	2161	1044	2973	2445	3705	4423	3750	4043	1042	2214	1824	3321	10226	8219	3971
15 1943 Regional Report Surplus Deficit	3569	2996	3984	2772	3083	1892	5890	5848	6177	13216	11376	7979	12732	11745	6460
16 1944 Regional Report Surplus Deficit	4541	2736	3419	3447	2463	395	1082	1229	975	1042	-1521	218	3502	1990	1841
17 1945 Regional Report Surplus Deficit	2023	735	2353	2501	1936	-45.8	334	747	1067	916	-1114	5338	10157	3011	2388
18 1946 Regional Report Surplus Deficit	2319	1250	2831	3207	3142	2737	4361	4417	4987	10030	10722	10303	8903	8836	5489
19 1947 Regional Report Surplus Deficit	4971	3564	3703	2882	4742	7296	7300	7884	7264	7909	5422	9038	9485	7723	6512
20 1948 Regional Report Surplus Deficit	3705	2578	3391	7772	6970	4406	7281	6614	4578	6306	7753	11942	13084	8965	7095
21 1949 Regional Report Surplus Deficit	7194	5808	4459	3598	4107	1992	3321	4092	6846	8227	8925	10553	8874	3636	5545
22 1950 Regional Report Surplus Deficit	1963	886	2627	3208	3068	2772	7393	8163	8374	10822	7077	8605	13052	12636	6673
23 1951 Regional Report Surplus Deficit	7372	5792	4438	5495	7976	8114	9704	11224	9647	11592	9043	10093	9269	10256	8576
24 1952 Regional Report Surplus Deficit	5623	2757	4097	7030	5822	4856	6895	7152	4916	10033	11432	11966	10065	7425	7085
25 1953 Regional Report Surplus Deficit	3667	2359	2456	3287	2335	2.47	2737	8940	3700	1562	1281	7666	13230	10730	4926
26 1954 Regional Report Surplus Deficit	4380	3357	3801	3498	4698	3985	6757	8205	6381	7099	4586	9437	11336	12345	6668
27 1955 Regional Report Surplus Deficit	8609	7758	7702	3786	5928	3419	2363	3112	458	2528	-358	5023	13241	12061	5533
28 1956 Regional Report Surplus Deficit	6799	4130	3722	4698	7081	7529	9814	9450	9539	10425	11983	11787	13015	9970	8594
29 1957 Regional Report Surplus Deficit	6068	5012	4121	4222	4023	4285	4282	3550	6086	9783	4934	12442	12895	5749	6223
30 1958 Regional Report Surplus Deficit	3930	1525	2829	2812	3004	2069	5658	6335	4712	5124	6171	11202	11428	5109	5278
31 1959 Regional Report Surplus Deficit	3425	1882	2917	3307	5798	6329	8972	9160	5829	9124	5384	8256	11522	10769	6877
32 1960 Regional Report Surplus Deficit	6310	5541	8730	9300	8535	5727	5685	6135	5087	11603	7755	6376	10056	6839	7328
33 1961 Regional Report Surplus Deficit	4868	2463	3075	3119	4724	2418	5433	6810	7192	8108	2793	8382	11434	5393	5571
34 1962 Regional Report Surplus Deficit	3823	1906	2753	2824	3229	2380	4979	5584	2195	6339	10226	8009	8710	5289	4738
35 1963 Regional Report Surplus Deficit	4363	2743	3238	4228	6094	5603	5825	6778	2736	3183	315	6121	10689	6425	5237
36 1964 Regional Report Surplus Deficit	3328	2030	4028	2848	3917	2338	3668	3949	1710	5465	2112	8196	13686	11656	5202
37 1965 Regional Report Surplus Deficit	6662	5363	5454	4760	5123	7820	10588	10673	9394	5737	11029	10375	10416	7778	8049
38 1966 Regional Report Surplus Deficit	6375	5132	3583	3791	4060	2751	4563	4820	2913	6973	3365	5287	8485	6365	4788

Regional Report Surplus Deficit By Water Year

Operating Year 2023

2018 White Book Report Date: 12/1/2018 *Continued*

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Energy-aMW - Surplus Deficit	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
39 1967 Regional Report Surplus Deficit	3990	2257	3056	2786	3030	4106	7639	8152	6674	5823	850	7908	12794	9873	6025
40 1968 Regional Report Surplus Deficit	5022	3879	3944	3946	4751	3046	5975	7376	7365	1817	-451	4925	10979	7363	5386
41 1969 Regional Report Surplus Deficit	5245	5123	6475	5397	7087	4870	8774	9029	7052	10725	10959	11719	10766	7708	7889
42 1970 Regional Report Surplus Deficit	3311	2068	3289	3499	3837	1635	5641	6510	3544	2275	-170	7457	11658	5413	4666
43 1971 Regional Report Surplus Deficit	3019	1628	2722	3337	2999	2642	9704	10739	9654	10390	8362	11692	13588	11566	7503
44 1972 Regional Report Surplus Deficit	7353	6336	4476	4165	4619	3660	8935	10536	12760	13596	7538	11175	13375	11479	8534
45 1973 Regional Report Surplus Deficit	7568	6961	4995	3983	4350	3381	4629	4863	2250	861	-1880	1201	4928	3163	3701
46 1974 Regional Report Surplus Deficit	2550	845	2749	3234	3195	5143	11408	12068	11270	12002	10890	10508	13467	12813	8221
47 1975 Regional Report Surplus Deficit	7806	6928	4645	2818	3335	2397	5350	5832	6282	3920	2362	9270	12609	12444	6297
48 1976 Regional Report Surplus Deficit	5273	4727	5012	5623	7570	9452	9087	9664	7781	11167	8034	11569	10858	11037	8514
49 1977 Regional Report Surplus Deficit	9311	8705	9023	3727	3112	518	1456	1416	937	629	-1773	832	1780	1515	2733
50 1978 Regional Report Surplus Deficit	1919	880	2025	1589	2436	3091	4161	4354	4141	10044	4633	8860	7337	7826	4544
51 1979 Regional Report Surplus Deficit	4696	3031	6060	3798	3812	888	2705	2448	4757	2231	2116	7905	5444	2749	3888
52 1980 Regional Report Surplus Deficit	1674	907	2937	2765	2675	450	3256	2798	1434	5341	5727	10874	11012	5744	4227
53 1981 Regional Report Surplus Deficit	1772	1260	3387	2727	4116	6149	7622	8103	3036	825	742	7816	12059	9227	5529
54 1982 Regional Report Surplus Deficit	6368	5200	3870	3283	4660	3200	6403	10748	11212	10142	4935	10535	12324	12540	7654
55 1983 Regional Report Surplus Deficit	6604	6137	6072	5061	4928	4302	7875	8713	9351	8092	3987	8876	10200	11082	7400
56 1984 Regional Report Surplus Deficit	6662	5822	4704	3712	8041	4626	7641	7160	7675	6979	8052	8076	12203	10150	7303
57 1985 Regional Report Surplus Deficit	5652	3102	4784	3817	5307	2697	3518	3770	2945	7007	6084	7501	5454	3311	4494
58 1986 Regional Report Surplus Deficit	941	506	3197	4290	6116	2888	5968	8018	10491	10549	8185	7062	9889	4453	6009
59 1987 Regional Report Surplus Deficit	3110	1373	2909	3165	4156	2761	2518	2127	4270	2681	2352	7061	4663	2082	3378
60 1988 Regional Report Surplus Deficit	1461	592	2913	2740	1940	-539	-185	888	1056	1269	1351	1681	4805	4127	1810
61 1989 Regional Report Surplus Deficit	2243	1258	2563	2972	3212	1611	960	-651	3938	6205	9884	7148	5832	3970	3462
62 1990 Regional Report Surplus Deficit	2134	1630	2852	2736	4506	4235	5416	6911	5484	6094	8008	6799	10220	6886	5394
63 1991 Regional Report Surplus Deficit	4970	3691	3012	3204	7831	4636	7221	7650	5980	7060	3850	7133	10098	10529	6410
64 1992 Regional Report Surplus Deficit	6559	4514	3081	2422	3371	199	1851	2195	2373	1179	-118	4663	3054	1495	2565
65 1993 Regional Report Surplus Deficit	1425	561	2796	2405	2485	129	224	-1101	2679	3243	-232	9059	7712	4936	2841
66 1994 Regional Report Surplus Deficit	3075	1759	2839	3149	2686	586	-58.5	2325	1255	1562	2802	3877	4024	3553	2396
67 1995 Regional Report Surplus Deficit	1905	821	2596	2971	2006	1246	2916	5033	6258	4257	-144	7273	10892	6827	4277
68 1996 Regional Report Surplus Deficit	3671	1786	3658	4823	9325	11075	10974	12202	12147	10931	11816	10469	11320	10352	9179
69 1997 Regional Report Surplus Deficit	6118	4849	4029	3345	4802	4888	11110	11515	11660	11699	11834	11730	13045	11567	8723
70 1998 Regional Report Surplus Deficit	6603	6542	6430	8503	6776	3229	4541	6785	4711	3354	1178	10861	12305	7326	6689
71 1999 Regional Report Surplus Deficit	4969	4294	3130	3445	2747	4795	8762	9380	9709	7679	7263	8841	12632	11789	7267
72 2000 Regional Report Surplus Deficit	8605	7041	4598	3369	8258	5790	5283	5508	5379	9646	9996	7900	5055	6282	6252
73 2001 Regional Report Surplus Deficit	4432	1709	2801	2898	2646	10.7	702	695	1041	796	-1702	1227	2001	2094	1563
74 2002 Regional Report Surplus Deficit	1947	593	2069	1294	2083	1648	1387	1611	2185	5079	7039	6118	11285	9341	3862
75 2003 Regional Report Surplus Deficit	3231	2241	2848	2698	2859	269	1128	2696	5235	4097	2581	3566	9735	3528	3376
76 2004 Regional Report Surplus Deficit	844	410	2591	2919	3395	2158	1862	1030	2381	3512	1925	4342	7092	3985	2929
77 2005 Regional Report Surplus Deficit	1547	2191	4446	3587	3932	3269	3947	4699	2370	810	-334	4453	6292	4488	3624

Regional Report Surplus Deficit By Water Year
Operating Year 2023
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Energy-aMW - Surplus Deficit	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
78 2006 Regional Report Surplus Deficit	2261	1052	3066	2470	3511	2427	6969	7382	5160	10736	9445	10350	11497	5510	5813
79 2007 Regional Report Surplus Deficit	2274	935	2582	2362	4537	2982	5171	4241	8004	6966	2598	7754	7691	5627	4779
80 2008 Regional Report Surplus Deficit	2113	521	2117	2942	2917	1128	1844	2144	2761	2933	114	8520	13329	9013	4135
Ranked Averages															
81 Bottom 10 pct	2654	1545	2801	3020	2540	174	14.1	821	1086	1390	-789	1173	4451	2972	1786
82 Middle 80 pct	4070	2908	3668	3492	4173	2904	4667	5196	4872	5900	4532	7762	9631	7025	5167
83 Top 10 pct	5725	4229	4192	4518	6212	7210	10202	10917	10525	10894	10271	10963	11846	10656	8549

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Regional Report Surplus Deficit By Water Year

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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	3423	2583	3097	3074	3246	219	-136	1019	1207	2487	-15.8	1642	8298	2282	2338
2 1930 Regional Report Surplus Deficit	2078	1372	2699	2995	2415	-350	-819	1414	1095	2796	687	1749	4202	3660	1869
3 1931 Regional Report Surplus Deficit	2157	1351	2671	3024	2386	-61.2	-558	1420	1227	2150	-298	1693	3341	2948	1725
4 1932 Regional Report Surplus Deficit	2169	1043	2465	2572	1895	-138	706	-1048	4579	8074	9711	10573	11016	6587	4148
5 1933 Regional Report Surplus Deficit	3628	2468	3468	2762	3508	3468	5334	5973	4794	5763	2715	7346	13569	11091	5708
6 1934 Regional Report Surplus Deficit	6950	5331	4202	4772	8201	9596	9975	10359	9091	12069	9497	8128	7862	2770	7638
7 1935 Regional Report Surplus Deficit	1355	1462	2135	2671	2983	1758	5043	5812	4785	3186	3303	6654	6935	6877	4187
8 1936 Regional Report Surplus Deficit	5314	2329	2491	2485	2549	-84.7	-324	334	1474	3010	7438	10797	10229	4904	3656
9 1937 Regional Report Surplus Deficit	1628	1020	2168	3030	2451	-15.1	-1195	-888	483	2057	-858	2174	7284	3600	1750
10 1938 Regional Report Surplus Deficit	2496	1368	2833	2673	3484	2358	4068	4486	6428	8828	10473	10494	8638	7176	5346
11 1939 Regional Report Surplus Deficit	2076	1215	3105	2692	2703	309	2614	3177	2929	4572	5156	6202	5402	3906	3287
12 1940 Regional Report Surplus Deficit	1531	972	2393	2893	3021	2241	2780	2548	5512	6300	2858	6571	5010	1446	3353
13 1941 Regional Report Surplus Deficit	952	507	2444	2693	2799	1265	558	1843	2277	2036	-1397	1467	4888	2724	1994
14 1942 Regional Report Surplus Deficit	2048	946	2933	2394	3711	4330	3625	4246	1175	2916	2333	3805	10680	8148	4086
15 1943 Regional Report Surplus Deficit	3456	2898	3949	2720	3089	1799	5765	6051	6311	13907	11874	8440	13162	11607	6563
16 1944 Regional Report Surplus Deficit	4433	2638	3385	3396	2469	302	1050	1320	1108	1746	-1010	714	4054	1920	1963
17 1945 Regional Report Surplus Deficit	1911	637	2312	2449	1942	-139	209	950	1200	1619	-603	5822	10656	2940	2502
18 1946 Regional Report Surplus Deficit	2206	1152	2793	3155	3148	2644	3972	4930	5121	10724	11223	10733	9384	8763	5600
19 1947 Regional Report Surplus Deficit	4859	3466	3669	2830	4748	7203	7264	7932	7397	8591	5911	9507	9965	7646	6624
20 1948 Regional Report Surplus Deficit	3592	2480	3359	7721	6976	4313	7156	6817	4715	6990	8245	12402	13538	8902	7206
21 1949 Regional Report Surplus Deficit	7087	5710	4409	3546	4113	1900	3196	4295	6979	8900	9406	11002	9354	3565	5652
22 1950 Regional Report Surplus Deficit	1851	788	2589	3156	3074	2679	7317	8105	8743	11483	7546	9052	13462	12584	6786
23 1951 Regional Report Surplus Deficit	7264	5699	4406	5443	7983	8021	9579	11427	9775	12248	9508	10538	9749	10166	8692
24 1952 Regional Report Surplus Deficit	5514	2659	4069	6979	5828	4763	6770	7355	5028	10738	11934	12427	10559	7355	7200
25 1953 Regional Report Surplus Deficit	3555	2261	2416	3235	2341	-90.4	2702	9092	3798	2265	1793	8133	13692	10678	5054
26 1954 Regional Report Surplus Deficit	4267	3259	3763	3446	4704	3892	6697	8402	6472	7731	5084	9899	11801	12259	6783
27 1955 Regional Report Surplus Deficit	8452	7663	7491	3734	5934	3326	2238	3315	591	3211	157	5481	13620	11995	5617
28 1956 Regional Report Surplus Deficit	6688	4032	3686	4647	7087	7436	9690	9653	9690	11109	12474	12200	13462	9875	8703
29 1957 Regional Report Surplus Deficit	5956	4914	4087	4171	4029	4192	4154	3758	6208	10501	5442	12923	13329	5683	6330
30 1958 Regional Report Surplus Deficit	3818	1427	2789	2760	3010	1977	5533	6538	4842	5810	6665	11649	11786	5031	5382
31 1959 Regional Report Surplus Deficit	3312	1784	2877	3256	5804	6236	8726	9509	5957	9805	5872	8697	11951	10676	6989
32 1960 Regional Report Surplus Deficit	6200	5443	8501	9248	8541	5634	5764	6089	5218	12245	8205	6841	10554	6772	7419
33 1961 Regional Report Surplus Deficit	4755	2365	3041	3067	4730	2325	5309	7013	7317	8801	3293	8850	11862	5323	5685
34 1962 Regional Report Surplus Deficit	3711	1808	2715	2772	3236	2287	4922	5702	2314	7020	10697	8491	9234	5219	4856
35 1963 Regional Report Surplus Deficit	4251	2645	3201	4176	6100	5510	5700	6981	2870	3886	827	6596	11137	6356	5355
36 1964 Regional Report Surplus Deficit	3215	1932	3992	2796	3923	2245	3626	4059	1829	6180	2620	8628	14112	11589	5306
37 1965 Regional Report Surplus Deficit	6551	5265	5386	4709	5130	7727	10212	11309	9537	6513	11552	10812	10862	7718	8182
38 1966 Regional Report Surplus Deficit	6266	5035	3557	3740	4066	2659	4581	4850	3039	7679	3870	5776	8985	6296	4906

Regional Report Surplus Deficit By Water Year

Operating Year 2024

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Energy-aMW - Surplus Deficit	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
39 1967 Regional Report Surplus Deficit	3877	2159	3020	2734	3036	4013	7537	8293	6802	6527	1361	8380	13219	9815	6140
40 1968 Regional Report Surplus Deficit	4910	3781	3906	3895	4757	2953	5851	7579	7506	2495	65.5	5411	11413	7289	5504
41 1969 Regional Report Surplus Deficit	5133	5026	6347	5345	7093	4778	8675	9407	6825	11347	11427	12185	11273	7631	7983
42 1970 Regional Report Surplus Deficit	3198	1970	3253	3447	3844	1542	5516	6713	3673	2979	341	7889	12061	5344	4777
43 1971 Regional Report Surplus Deficit	2908	1530	2686	3285	3005	2549	9623	10917	9729	11105	8881	12119	14020	11499	7619
44 1972 Regional Report Surplus Deficit	7244	6238	4444	4113	4625	3567	8788	10486	13079	14239	7989	11577	13764	11343	8626
45 1973 Regional Report Surplus Deficit	7461	6863	4956	3931	4356	3288	4504	5067	2384	1565	-1369	1693	5474	3093	3828
46 1974 Regional Report Surplus Deficit	2437	747	2710	3182	3202	5050	11283	12271	11409	12680	11376	10960	13929	12719	8341
47 1975 Regional Report Surplus Deficit	7697	6830	4611	2766	3341	2304	5292	5933	6429	4623	2872	9712	13112	12446	6417
48 1976 Regional Report Surplus Deficit	5165	4634	4955	5572	7576	9359	8962	9867	7894	11831	8505	12002	11339	10943	8622
49 1977 Regional Report Surplus Deficit	9106	8954	8756	3675	3118	425	1240	1735	1070	1332	-1262	1327	2332	1445	2847
50 1978 Regional Report Surplus Deficit	1807	782	1985	1537	2442	2998	4036	4473	4356	10691	5128	9316	7868	7763	4660
51 1979 Regional Report Surplus Deficit	4586	2934	5945	3746	3819	795	2580	2651	4889	2923	2632	8364	5982	2679	3997
52 1980 Regional Report Surplus Deficit	1561	809	2899	2713	2681	357	3131	3001	1567	6032	6226	11333	11412	5673	4331
53 1981 Regional Report Surplus Deficit	1660	1162	3355	2675	4123	6056	7497	8306	3166	1529	1253	8266	12527	9141	5648
54 1982 Regional Report Surplus Deficit	6256	5102	3834	3231	4666	3107	6278	10779	11457	10865	5434	10992	12773	12434	7768
55 1983 Regional Report Surplus Deficit	7020	6039	5941	5009	4934	4210	7750	8916	9472	8798	4488	9347	10715	11061	7540
56 1984 Regional Report Surplus Deficit	6553	5724	4657	3660	8047	4534	7517	7363	7810	7670	8551	8540	12593	10053	7408
57 1985 Regional Report Surplus Deficit	5539	3004	4741	3766	5313	2604	3479	3872	3076	7698	6583	7963	5995	3241	4610
58 1986 Regional Report Surplus Deficit	828	408	3167	4239	6122	2795	5844	8222	10597	11180	8635	7547	10349	4383	6123
59 1987 Regional Report Surplus Deficit	2998	1275	2874	3114	4162	2668	2393	2330	4405	3385	2864	7529	5206	2012	3496
60 1988 Regional Report Surplus Deficit	1349	494	2874	2688	1946	-632	-310	1091	1189	1973	1862	2171	5345	4057	1930
61 1989 Regional Report Surplus Deficit	2130	1160	2523	2920	3218	1518	836	-448	4076	6900	10388	7632	6378	3899	3573
62 1990 Regional Report Surplus Deficit	2022	1532	2819	2684	4513	4143	5364	7036	5616	6763	8484	7249	10628	6819	5504
63 1991 Regional Report Surplus Deficit	4857	3593	2975	3152	7837	4543	7148	7719	6097	7755	4342	7605	10601	10417	6519
64 1992 Regional Report Surplus Deficit	6448	4416	3044	2371	3377	106	1727	2398	2507	1882	393	5157	3603	1424	2688
65 1993 Regional Report Surplus Deficit	1313	463	2755	2354	2491	36.2	99.5	-898	2812	3947	245	9511	8406	4723	2948
66 1994 Regional Report Surplus Deficit	2976	1662	2809	3097	2692	493	-183	2528	1388	2264	3312	4366	4568	3482	2520
67 1995 Regional Report Surplus Deficit	1793	723	2555	2920	2012	1153	2791	5236	6393	4935	372	7759	11336	6757	4393
68 1996 Regional Report Surplus Deficit	3558	1688	3623	4771	9331	10982	10849	12405	12272	11548	12254	10910	11802	10276	9294
69 1997 Regional Report Surplus Deficit	6006	4751	3995	3293	4808	4795	10763	11876	12050	12382	12331	12239	13542	11562	8872
70 1998 Regional Report Surplus Deficit	6495	6444	6312	8451	6782	3136	4417	6988	4840	4057	1689	11259	12829	7260	6796
71 1999 Regional Report Surplus Deficit	4856	4196	3091	3393	2753	4702	8629	9302	10123	8354	7747	9316	13056	11756	7386
72 2000 Regional Report Surplus Deficit	8811	6943	4542	3317	8264	5697	5159	5711	5507	10303	10461	8346	5589	6211	6376
73 2001 Regional Report Surplus Deficit	4320	1611	2762	2846	2652	-82.2	577	898	1174	1500	-1191	1723	2556	2024	1685
74 2002 Regional Report Surplus Deficit	1835	495	2028	1242	2089	1555	1073	1949	2397	5777	7545	6597	11746	9279	3973
75 2003 Regional Report Surplus Deficit	3118	2143	2811	2646	2865	177	1004	2899	5363	4799	3092	4054	10227	3458	3492
76 2004 Regional Report Surplus Deficit	731	312	2551	2867	3401	2065	1738	1233	2514	4218	2438	4841	7639	3914	3048
77 2005 Regional Report Surplus Deficit	1434	2093	4418	3536	3938	3176	3823	4902	2503	1513	147	4955	6831	4417	3750

Regional Report Surplus Deficit By Water Year

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2018 White Book Report Date: **12/1/2018** *Continued*

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Energy-aMW - Surplus Deficit	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
78 2006 Regional Report Surplus Deficit	2148	954	3030	2418	3517	2335	6974	7424	5290	11389	9905	10825	11986	5441	5929
79 2007 Regional Report Surplus Deficit	2162	837	2542	2310	4543	2889	5047	4444	8139	7648	3114	8215	8215	5556	4896
80 2008 Regional Report Surplus Deficit	2001	423	2077	2890	2923	1035	1719	2347	2895	3636	625	8983	13735	8958	4240
Ranked Averages															
81 Bottom 10 pct	2542	1447	2763	2968	2546	80.7	-104	1015	1220	2093	-278	1667	4996	2902	1907
82 Middle 80 pct	3969	2816	3616	3441	4179	2811	4555	5374	5006	6589	5030	8227	10112	6952	5280
83 Top 10 pct	5614	4132	4151	4466	6218	7117	10016	11162	10713	11569	10749	11404	12306	10575	8666

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Regional Report Surplus Deficit By Water Year

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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	3296	2461	2926	2953	3112	90.2	-226	529	1014	1368	-779	754	7516	2169	1996
2 1930 Regional Report Surplus Deficit	1950	1251	2529	2874	2282	-478	-949	972	901	1677	-75.6	860	3432	3547	1527
3 1931 Regional Report Surplus Deficit	2029	1229	2500	2902	2253	-190	-689	978	1033	1030	-1060	804	2570	2836	1382
4 1932 Regional Report Surplus Deficit	2042	921	2295	2450	1761	-266	575	-1490	4393	6910	8922	9710	10238	6476	3817
5 1933 Regional Report Surplus Deficit	3501	2346	3298	2640	3374	3339	5140	5537	4662	4639	1946	6480	13021	10958	5382
6 1934 Regional Report Surplus Deficit	6822	5209	4032	4651	8067	9468	9844	9917	8839	10865	8649	7229	7118	2657	7276
7 1935 Regional Report Surplus Deficit	1227	1340	1964	2549	2849	1629	4846	5375	4674	2051	2537	5778	6160	6762	3840
8 1936 Regional Report Surplus Deficit	5187	2207	2320	2363	2415	-213	-455	-108	1280	1889	6656	9933	9488	4789	3325
9 1937 Regional Report Surplus Deficit	1501	898	1998	2908	2318	-144	-1326	-1330	290	937	-1621	1290	6539	3487	1416
10 1938 Regional Report Surplus Deficit	2369	1246	2662	2551	3350	2230	3941	4117	6153	7635	9626	9628	7898	7062	5001
11 1939 Regional Report Surplus Deficit	1949	1094	2934	2570	2569	181	2394	2839	2735	3456	4360	5295	4630	3793	2941
12 1940 Regional Report Surplus Deficit	1403	850	2222	2771	2888	2112	2649	2106	5305	5181	2094	5675	4239	1333	3009
13 1941 Regional Report Surplus Deficit	825	385	2273	2571	2665	1136	427	1410	2074	916	-2160	578	4120	2611	1651
14 1942 Regional Report Surplus Deficit	1921	824	2763	2272	3578	4201	3494	3804	981	1798	1572	2916	9921	8035	3742
15 1943 Regional Report Surplus Deficit	3329	2776	3779	2598	2956	1670	5634	5608	6092	12699	11022	7550	12412	11518	6215
16 1944 Regional Report Surplus Deficit	4306	2516	3214	3274	2335	173	827	989	915	626	-1773	-176	3286	1807	1622
17 1945 Regional Report Surplus Deficit	1783	515	2142	2327	1809	-267	78.0	508	1006	500	-1366	4942	9905	2828	2165
18 1946 Regional Report Surplus Deficit	2079	1031	2622	3033	3014	2515	4106	4178	4915	9528	10384	9815	8631	8635	5246
19 1947 Regional Report Surplus Deficit	4731	3344	3498	2708	4615	7075	7045	7645	7184	7460	5137	8608	9215	7535	6279
20 1948 Regional Report Surplus Deficit	3465	2358	3188	7599	6843	4185	7025	6375	4510	5840	7451	11580	12841	8786	6871
21 1949 Regional Report Surplus Deficit	6960	5589	4239	3424	3980	1771	3065	3853	6772	7758	8620	10135	8606	3452	5313
22 1950 Regional Report Surplus Deficit	1724	666	2419	3034	2940	2550	7137	7924	8233	10279	6698	8169	12725	12421	6420
23 1951 Regional Report Surplus Deficit	7137	5577	4236	5321	7849	7892	9448	10985	9519	11084	8699	9685	9013	10019	8334
24 1952 Regional Report Surplus Deficit	5387	2537	3899	6857	5695	4635	6639	6913	4851	9543	11106	11563	9818	7231	6855
25 1953 Regional Report Surplus Deficit	3428	2139	2245	3114	2208	-219	2481	8701	3632	1146	1030	7251	13045	10512	4703
26 1954 Regional Report Surplus Deficit	4140	3137	3592	3325	4570	3764	6502	7966	6304	6660	4312	9047	11081	12169	6443
27 1955 Regional Report Surplus Deficit	8325	7542	7320	3612	5800	3197	2108	2872	397	2113	-610	4625	12904	11842	5284
28 1956 Regional Report Surplus Deficit	6561	3910	3515	4525	6954	7308	9559	9211	9423	9906	11627	11338	12772	9746	8350
29 1957 Regional Report Surplus Deficit	5829	4792	3916	4049	3896	4063	4026	3311	6012	9320	4635	12076	12680	5567	6001
30 1958 Regional Report Surplus Deficit	3690	1305	2618	2638	2877	1848	5402	6095	4646	4675	5886	10836	11133	4925	5050
31 1959 Regional Report Surplus Deficit	3185	1662	2706	3134	5671	6108	8717	8921	5746	8646	5069	7842	11243	10544	6639
32 1960 Regional Report Surplus Deficit	6073	5321	8330	9126	8407	5505	5429	5896	5018	11107	7423	5955	9789	6648	7078
33 1961 Regional Report Surplus Deficit	4628	2243	2870	2945	4596	2196	5178	6571	7098	7656	2505	7958	11206	5210	5342
34 1962 Regional Report Surplus Deficit	3584	1686	2544	2650	3102	2158	4724	5345	2132	5851	9902	7600	8468	5105	4509
35 1963 Regional Report Surplus Deficit	4123	2523	3031	4054	5967	5381	5569	6538	2675	2767	63.8	5711	10440	6242	5013
36 1964 Regional Report Surplus Deficit	3088	1810	3821	2674	3790	2117	3412	3710	1650	5039	1850	7768	13441	11475	4976
37 1965 Regional Report Surplus Deficit	6424	5144	5215	4587	4996	7599	10332	10433	9264	5262	10717	9917	10131	7593	7804
38 1966 Regional Report Surplus Deficit	6139	4913	3386	3618	3932	2530	4308	4581	2852	6534	3090	4871	8220	6183	4561

Regional Report Surplus Deficit By Water Year

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Energy-aMW - Surplus Deficit	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
39 1967 Regional Report Surplus Deficit	3750	2038	2850	2612	2903	3884	7383	7912	6588	5408	598	7509	12561	9684	5801
40 1968 Regional Report Surplus Deficit	4782	3659	3735	3773	4624	2824	5720	7137	7279	1411	-703	4525	10687	7167	5156
41 1969 Regional Report Surplus Deficit	5005	4904	6177	5223	6959	4649	8518	8790	6946	10166	10565	11290	10444	7510	7634
42 1970 Regional Report Surplus Deficit	3071	1848	3083	3325	3710	1413	5386	6271	3477	1859	-422	7060	11427	5231	4444
43 1971 Regional Report Surplus Deficit	2780	1408	2515	3163	2872	2421	9448	10500	9532	9900	8035	11318	13379	11377	7274
44 1972 Regional Report Surplus Deficit	7116	6116	4273	3991	4492	3439	8679	10297	12648	13116	7222	10757	13165	11191	8294
45 1973 Regional Report Surplus Deficit	7334	6741	4786	3809	4223	3160	4373	4624	2190	446	-2132	806	4704	2980	3480
46 1974 Regional Report Surplus Deficit	2310	625	2540	3061	3068	4922	11152	11829	11121	11482	10534	10066	13228	12641	7980
47 1975 Regional Report Surplus Deficit	7569	6708	4440	2645	3208	2176	5094	5593	6201	3493	2099	8819	12309	12244	6061
48 1976 Regional Report Surplus Deficit	5038	4512	4784	5450	7443	9231	8831	9425	7692	10682	7713	11149	10610	10854	8280
49 1977 Regional Report Surplus Deficit	8783	8832	8585	3553	2984	297	1200	1176	876	213	-2025	438	1564	1332	2497
50 1978 Regional Report Surplus Deficit	1679	660	1814	1415	2309	2870	3905	4115	4075	9588	4342	8461	7104	7644	4318
51 1979 Regional Report Surplus Deficit	4459	2812	5774	3624	3685	667	2449	2209	4689	1808	1859	7483	5220	2566	3657
52 1980 Regional Report Surplus Deficit	1434	687	2728	2592	2547	228	3000	2559	1373	4898	5449	10471	10724	5561	3998
53 1981 Regional Report Surplus Deficit	1532	1040	3184	2554	3989	5928	7367	7864	2971	409	490	7409	11837	9027	5306
54 1982 Regional Report Surplus Deficit	6128	4980	3664	3109	4533	2979	6147	10508	11099	9676	4634	10124	12097	12363	7423
55 1983 Regional Report Surplus Deficit	6893	5917	5770	4887	4800	4081	7619	8474	9224	7635	3695	8459	9942	10894	7180
56 1984 Regional Report Surplus Deficit	6425	5602	4487	3538	7914	4405	7386	6920	7585	6515	7752	7647	11965	9966	7072
57 1985 Regional Report Surplus Deficit	5412	2883	4570	3644	5179	2475	3263	3531	2882	6550	5792	7076	5233	3128	4267
58 1986 Regional Report Surplus Deficit	701	286	2997	4117	5989	2667	5713	7779	10331	9984	7784	6635	9606	4270	5761
59 1987 Regional Report Surplus Deficit	2871	1154	2703	2992	4028	2540	2262	1888	4209	2263	2098	6649	4441	1899	3156
60 1988 Regional Report Surplus Deficit	1221	372	2704	2567	1813	-760	-441	649	995	854	1099	1285	4584	3944	1589
61 1989 Regional Report Surplus Deficit	2003	1039	2352	2799	3084	1390	705	-890	3874	5719	9563	6721	5597	3786	3231
62 1990 Regional Report Surplus Deficit	1895	1411	2648	2563	4379	4014	5160	6672	5418	5646	7724	6381	9926	6708	5163
63 1991 Regional Report Surplus Deficit	4730	3471	2805	3031	7704	4415	6965	7411	5900	6611	3564	6701	9827	10340	6177
64 1992 Regional Report Surplus Deficit	6320	4294	2873	2249	3243	-22.2	1596	1956	2312	763	-370	4261	2834	1311	2344
65 1993 Regional Report Surplus Deficit	1185	341	2585	2232	2357	-92.4	-31.4	-1340	2616	2827	-484	8633	7481	4751	2616
66 1994 Regional Report Surplus Deficit	2840	1540	2638	2975	2558	364	-314	2086	1195	1146	2551	3478	3805	3369	2176
67 1995 Regional Report Surplus Deficit	1665	601	2385	2798	1879	1025	2660	4794	6175	3841	-396	6853	10622	6632	4047
68 1996 Regional Report Surplus Deficit	3431	1566	3453	4650	9197	10853	10718	11963	12004	10399	11448	10038	11069	10137	8934
69 1997 Regional Report Surplus Deficit	5879	4629	3825	3171	4675	4666	10854	11276	11526	11203	11502	11342	12805	11394	8490
70 1998 Regional Report Surplus Deficit	6368	6323	6141	8329	6648	3007	4286	6546	4643	2938	926	10469	12086	7138	6461
71 1999 Regional Report Surplus Deficit	4729	4074	2921	3271	2620	4573	8507	9140	9582	7175	6924	8386	12398	11567	7024
72 2000 Regional Report Surplus Deficit	8684	6821	4371	3195	8131	5568	5028	5269	5309	9132	9647	7478	4817	6096	6031
73 2001 Regional Report Surplus Deficit	4193	1489	2592	2725	2519	-211	446	456	980	381	-1954	833	1786	1911	1343
74 2002 Regional Report Surplus Deficit	1708	373	1858	1120	1956	1426	1132	1371	2126	4622	6746	5693	11044	9143	3633
75 2003 Regional Report Surplus Deficit	2991	2021	2640	2524	2731	48.0	873	2457	5158	3667	2316	3165	9495	3345	3151
76 2004 Regional Report Surplus Deficit	604	190	2380	2745	3268	1937	1607	791	2319	3092	1667	3941	6858	3802	2706
77 2005 Regional Report Surplus Deficit	1307	1972	4247	3414	3805	3048	3692	4460	2309	394	-586	4057	6065	4305	3403

Regional Report Surplus Deficit By Water Year
Operating Year 2025
2018 White Book Report Date: **12/1/2018** *Continued*
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Energy-aMW - Surplus Deficit	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
78 2006 Regional Report Surplus Deficit	2021	833	2859	2297	3383	2206	6713	7142	5082	10229	9101	9906	11230	5328	5576
79 2007 Regional Report Surplus Deficit	2034	715	2371	2188	4410	2761	4916	4002	7907	6550	2321	7344	7463	5445	4552
80 2008 Regional Report Surplus Deficit	1873	301	1906	2768	2790	906	1588	1905	2700	2517	-138	8107	13049	8823	3907
Ranked Averages															
81 Bottom 10 pct	2415	1325	2592	2847	2412	-47.8	-242	582	1025	974	-1040	778	4229	2789	1566
82 Middle 80 pct	3839	2694	3445	3319	4046	2683	4411	4957	4795	5447	4243	7348	9381	6835	4937
83 Top 10 pct	5487	4010	3980	4345	6084	6989	9947	10677	10400	10392	9933	10537	11599	10447	8308

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Regional Report Surplus Deficit By Water Year

Operating Year 2026

2018 White Book Report Date: 12/1/2018

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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	3091	2467	2864	2851	2976	-619	-1100	-276	240	831	-1678	638	7385	1311	1549
2 1930 Regional Report Surplus Deficit	1746	1257	2467	2772	2146	-1187	-1783	119	127	1140	-975	745	3290	2690	1078
3 1931 Regional Report Surplus Deficit	1825	1235	2439	2800	2116	-899	-1522	125	260	494	-1959	689	2428	1978	933
4 1932 Regional Report Surplus Deficit	1837	927	2233	2348	1625	-975	-258	-2343	3611	6418	8050	9569	10103	5616	3369
5 1933 Regional Report Surplus Deficit	3296	2352	3236	2538	3238	2631	4370	4679	3827	4108	1053	6342	12656	10121	4915
6 1934 Regional Report Surplus Deficit	6618	5216	3970	4549	7931	8759	9011	9065	8124	10413	7835	7124	6949	1799	6838
7 1935 Regional Report Surplus Deficit	1023	1347	1902	2447	2713	921	4079	4518	3817	1530	1641	5650	6022	5906	3390
8 1936 Regional Report Surplus Deficit	4982	2214	2259	2261	2279	-922	-1288	-961	506	1355	5776	9793	9316	3933	2873
9 1937 Regional Report Surplus Deficit	1296	904	1936	2807	2181	-852	-2160	-2183	-484	401	-2520	1170	6371	2629	965
10 1938 Regional Report Surplus Deficit	2164	1253	2600	2449	3214	1521	3104	3191	5461	7172	8811	9490	7726	6205	4556
11 1939 Regional Report Surplus Deficit	1744	1100	2873	2469	2433	-528	1649	1882	1961	2917	3494	5198	4489	2935	2495
12 1940 Regional Report Surplus Deficit	1199	856	2161	2669	2751	1403	1815	1254	4544	4645	1196	5567	4097	475	2562
13 1941 Regional Report Surplus Deficit	620	391	2211	2469	2529	428	-407	548	1309	380	-3059	462	3976	1753	1202
14 1942 Regional Report Surplus Deficit	1716	830	2701	2170	3441	3492	2661	2951	207	1260	672	2801	9767	7177	3293
15 1943 Regional Report Surplus Deficit	3125	2782	3717	2496	2820	962	4801	4756	5344	12251	10212	7436	12249	10636	5772
16 1944 Regional Report Surplus Deficit	4101	2522	3153	3172	2199	-535	85.9	24.8	140	89.9	-2672	-290	3141	949	1172
17 1945 Regional Report Surplus Deficit	1579	521	2080	2226	1672	-976	-755	-345	232	-36.7	-2265	4818	9743	1969	1714
18 1946 Regional Report Surplus Deficit	1874	1037	2560	2932	2878	1806	3008	3635	4154	9068	9561	9729	8472	7792	4809
19 1947 Regional Report Surplus Deficit	4527	3350	3436	2607	4478	6366	6300	6637	6430	6935	4250	8503	9052	6676	5828
20 1948 Regional Report Surplus Deficit	3260	2364	3127	7497	6706	3476	6192	5522	3747	5335	6583	11398	12626	7932	6415
21 1949 Regional Report Surplus Deficit	6755	5595	4177	3322	3843	1062	2232	3000	6011	7244	7744	9998	8442	2595	4864
22 1950 Regional Report Surplus Deficit	1519	672	2357	2933	2804	1842	6352	6810	7776	9827	5884	8048	12550	11613	5990
23 1951 Regional Report Surplus Deficit	6932	5584	4174	5220	7713	7184	8615	10132	8808	10592	7846	9533	8836	9196	7892
24 1952 Regional Report Surplus Deficit	5182	2544	3837	6755	5558	3926	5806	6060	4060	9082	10272	11423	9646	6384	6407
25 1953 Regional Report Surplus Deficit	3223	2145	2184	3012	2071	-928	1738	7797	2831	609	131	7129	12780	9707	4250
26 1954 Regional Report Surplus Deficit	3935	3143	3530	3223	4434	3055	5732	7107	5504	6075	3423	8895	10889	11289	5986
27 1955 Regional Report Surplus Deficit	8120	7548	7259	3510	5664	2489	1274	2020	-377	1555	-1505	4477	12707	11024	4831
28 1956 Regional Report Surplus Deficit	6356	3916	3454	4423	6818	6599	8725	8358	8723	9453	10813	11196	12550	8905	7908
29 1957 Regional Report Surplus Deficit	5625	4798	3855	3947	3759	3355	3190	2463	5241	8845	3780	11919	12416	4713	5544
30 1958 Regional Report Surplus Deficit	3486	1311	2556	2536	2740	1139	4569	5243	3875	4154	5003	10645	10873	4061	4586
31 1959 Regional Report Surplus Deficit	2980	1669	2645	3032	5535	5399	7762	8214	4989	8149	4210	7693	11038	9705	6190
32 1960 Regional Report Surplus Deficit	5868	5328	8269	9024	8271	4797	4799	4794	4250	10589	6544	5837	9641	5802	6630
33 1961 Regional Report Surplus Deficit	4423	2250	2808	2844	4460	1488	4344	5718	6350	7145	1631	7845	10950	4352	4889
34 1962 Regional Report Surplus Deficit	3379	1692	2482	2549	2966	1450	3957	4407	1346	5364	9035	7487	8321	4248	4061
35 1963 Regional Report Surplus Deficit	3919	2530	2969	3952	5830	4672	4736	5686	1902	2231	-835	5592	10225	5386	4558
36 1964 Regional Report Surplus Deficit	2884	1816	3759	2572	3654	1408	2662	2764	861	4524	958	7624	13199	10619	4517
37 1965 Regional Report Surplus Deficit	6219	5150	5153	4485	4860	6890	9248	10014	8570	4857	9890	9807	9949	6747	7381
38 1966 Regional Report Surplus Deficit	5934	4919	3324	3516	3796	1821	3617	3555	2071	6023	2208	4772	8072	5325	4113

Regional Report Surplus Deficit By Water Year

Operating Year 2026

2018 White Book Report Date: 12/1/2018 *Continued*

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Energy-aMW - Surplus Deficit	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
39 1967 Regional Report Surplus Deficit	3545	2044	2788	2511	2766	3175	6573	6998	5834	4871	-301	7376	12307	8844	5342
40 1968 Regional Report Surplus Deficit	4578	3665	3674	3671	4487	2116	4886	6284	6539	839	-1596	4407	10501	6318	4706
41 1969 Regional Report Surplus Deficit	4801	4911	6115	5122	6823	3940	7711	8112	5858	9691	9765	11180	10361	6660	7187
42 1970 Regional Report Surplus Deficit	2866	1855	3021	3224	3574	705	4552	5418	2705	1323	-1321	6884	11148	4373	3979
43 1971 Regional Report Surplus Deficit	2576	1414	2453	3062	2735	1712	8658	9622	8761	9449	7219	11114	13107	10529	6817
44 1972 Regional Report Surplus Deficit	6912	6123	4211	3890	4355	2730	7823	9191	12111	12584	6327	10572	12852	10372	7828
45 1973 Regional Report Surplus Deficit	7129	6748	4724	3707	4086	2451	3540	3772	1417	-91.1	-3031	689	4561	2123	3032
46 1974 Regional Report Surplus Deficit	2105	631	2478	2959	2932	4213	10319	10976	10441	11024	9714	9956	13016	11749	7538
47 1975 Regional Report Surplus Deficit	7365	6714	4379	2543	3071	1467	4328	4638	5462	2967	1211	8708	12199	11476	5625
48 1976 Regional Report Surplus Deficit	4833	4519	4722	5348	7306	8522	7998	8572	6927	10175	6843	10998	10427	9973	7826
49 1977 Regional Report Surplus Deficit	8774	8839	8524	3452	2848	-412	276	440	102	-324	-2924	323	1420	474	2058
50 1978 Regional Report Surplus Deficit	1475	666	1753	1314	2172	2161	3072	3178	3389	9036	3466	8312	6955	6792	3868
51 1979 Regional Report Surplus Deficit	4254	2819	5713	3523	3549	-41.9	1616	1356	3922	1267	970	7359	5069	1708	3208
52 1980 Regional Report Surplus Deficit	1230	693	2666	2490	2411	-480	2167	1706	599	4376	4564	10328	10499	4703	3542
53 1981 Regional Report Surplus Deficit	1328	1046	3123	2452	3853	5219	6533	7011	2199	-127	-409	7262	11614	8170	4848
54 1982 Regional Report Surplus Deficit	5924	4987	3602	3008	4396	2270	5314	9484	10489	9209	3772	9988	11860	11464	6967
55 1983 Regional Report Surplus Deficit	6688	5924	5708	4786	4664	3372	6786	7622	8504	7143	2827	8343	9802	10090	6744
56 1984 Regional Report Surplus Deficit	6221	5609	4425	3436	7778	3696	6552	6068	6842	6015	6889	7536	11680	9082	6615
57 1985 Regional Report Surplus Deficit	5207	2889	4508	3542	5043	1767	2514	2577	2108	6042	4922	6958	5082	2271	3819
58 1986 Regional Report Surplus Deficit	496	293	2935	4015	5853	1958	4879	6927	9629	9524	6973	6543	9436	3412	5325
59 1987 Regional Report Surplus Deficit	2666	1160	2641	2890	3892	1831	1429	1035	3437	1730	1202	6525	4293	1041	2707
60 1988 Regional Report Surplus Deficit	1017	378	2642	2465	1676	-1469	-1274	-204	221	317	200	1167	4432	3086	1140
61 1989 Regional Report Surplus Deficit	1798	1045	2291	2697	2948	681	-129	-1742	3109	5245	8726	6628	5465	2929	2792
62 1990 Regional Report Surplus Deficit	1690	1417	2586	2461	4243	3305	4399	5741	4649	5108	6822	6245	9715	5848	4707
63 1991 Regional Report Surplus Deficit	4525	3477	2743	2929	7568	3706	6184	6424	5129	6099	2680	6601	9688	9446	5723
64 1992 Regional Report Surplus Deficit	6116	4300	2812	2147	3107	-731	762	1104	1539	227	-1269	4153	2690	454	1896
65 1993 Regional Report Surplus Deficit	981	347	2523	2130	2221	-801	-865	-2193	1845	2291	-1416	8507	7494	3752	2166
66 1994 Regional Report Surplus Deficit	2644	1546	2576	2874	2422	-345	-1147	1233	421	608	1651	3362	3655	2512	1727
67 1995 Regional Report Surplus Deficit	1461	607	2323	2696	1742	316	1827	3942	5425	3279	-1289	6754	10423	5787	3598
68 1996 Regional Report Surplus Deficit	3226	1572	3391	4548	9061	10144	9885	11110	11304	9892	10592	9905	10889	9306	8493
69 1997 Regional Report Surplus Deficit	5674	4635	3763	3070	4538	3958	9799	10581	11082	10726	10669	11234	12629	10591	8071
70 1998 Regional Report Surplus Deficit	6163	6329	6080	8228	6512	2298	3452	5694	3873	2401	27.5	10255	11916	6289	6003
71 1999 Regional Report Surplus Deficit	4524	4080	2859	3169	2484	3865	7665	8008	9155	6698	6085	8312	12143	10785	6589
72 2000 Regional Report Surplus Deficit	8479	6827	4309	3093	7994	4860	4194	4416	4540	8647	8799	7342	4676	5240	5585
73 2001 Regional Report Surplus Deficit	3988	1496	2530	2623	2382	-919	-387	-397	206	-156	-2853	718	1643	1053	894
74 2002 Regional Report Surplus Deficit	1503	380	1796	1018	1819	717	109	654	1429	4121	5883	5593	10833	8309	3186
75 2003 Regional Report Surplus Deficit	2786	2028	2578	2422	2595	-661	39.3	1604	4395	3143	1430	3049	9314	2487	2701
76 2004 Regional Report Surplus Deficit	399	197	2319	2644	3131	1228	773	-61.7	1547	2563	777	3837	6726	2943	2260
77 2005 Regional Report Surplus Deficit	1102	1978	4186	3312	3668	2339	2858	3607	1536	-143	-1515	3951	5919	3446	2954

Regional Report Surplus Deficit By Water Year

Operating Year 2026

2018 White Book Report Date: **12/1/2018** *Continued*

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Energy-aMW - Surplus Deficit	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
78 2006 Regional Report Surplus Deficit	1816	839	2798	2195	3247	1497	6009	6130	4322	9733	8243	9821	11073	4470	5132
79 2007 Regional Report Surplus Deficit	1830	721	2309	2087	4273	2052	4082	3149	7171	5992	1452	7210	7303	4585	4104
80 2008 Regional Report Surplus Deficit	1669	307	1844	2666	2653	197	755	1052	1927	1980	-1037	7979	12822	7987	3452
Ranked Averages															
81 Bottom 10 pct	2210	1331	2530	2745	2276	-757	-1068	-280	252	437	-1939	662	4083	1931	1117
82 Middle 80 pct	3637	2700	3384	3217	3909	1974	3591	4080	4039	4933	3369	7222	9199	5981	4488
83 Top 10 pct	5282	4016	3918	4243	5948	6280	9051	9867	9746	9913	9087	10400	11393	9605	7867

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Regional Report Surplus Deficit By Water Year

Operating Year 2027

2018 White Book Report Date: 12/1/2018

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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	2265	1641	2041	2029	2187	-838	-1156	-420	23.4	1505	-998	449	6607	1259	1194
2 1930 Regional Report Surplus Deficit	919	431	1644	1950	1356	-1406	-1879	21.9	-89.0	1813	-295	555	2523	2637	725
3 1931 Regional Report Surplus Deficit	998	409	1615	1979	1327	-1118	-1619	27.8	43.1	1167	-1280	499	1661	1925	580
4 1932 Regional Report Surplus Deficit	1010	101	1410	1527	836	-1194	-355	-2440	3403	7047	8703	9405	9329	5566	3016
5 1933 Regional Report Surplus Deficit	2470	1526	2413	1716	2449	2411	4210	4587	3671	4775	1727	6175	12112	10048	4580
6 1934 Regional Report Surplus Deficit	5791	4390	3147	3727	7142	8540	8914	8967	7849	11001	8429	6924	6209	1747	6475
7 1935 Regional Report Surplus Deficit	196	521	1079	1625	1923	701	3916	4425	3684	2187	2317	5473	5251	5851	3038
8 1936 Regional Report Surplus Deficit	4156	1388	1435	1439	1490	-1141	-1385	-1058	290	2025	6436	9629	8579	3879	2523
9 1937 Regional Report Surplus Deficit	470	78.5	1113	1985	1392	-1072	-2256	-2280	-701	1074	-1841	985	5630	2577	614
10 1938 Regional Report Surplus Deficit	1338	427	1777	1628	2424	1302	3011	3167	5163	7771	9406	9323	6988	6152	4199
11 1939 Regional Report Surplus Deficit	918	274	2050	1647	1643	-748	1465	1889	1745	3593	4141	4990	3721	2883	2139
12 1940 Regional Report Surplus Deficit	372	30.3	1337	1847	1962	1184	1719	1156	4314	5317	1874	5371	3329	423	2207
13 1941 Regional Report Surplus Deficit	-206	-434	1388	1648	1740	208	-503	460	1084	1053	-2380	273	3211	1700	849
14 1942 Regional Report Surplus Deficit	890	4.45	1878	1348	2652	3273	2564	2854	-8.93	1934	1353	2611	9012	7125	2941
15 1943 Regional Report Surplus Deficit	2298	1956	2894	1675	2030	742	4704	4659	5101	12835	10802	7245	11503	10608	5413
16 1944 Regional Report Surplus Deficit	3274	1696	2329	2351	1410	-755	-103	39.5	-75.7	763	-1992	-481	2377	897	820
17 1945 Regional Report Surplus Deficit	752	-305	1257	1404	883	-1195	-852	-442	15.9	636	-1586	4637	8996	1917	1363
18 1946 Regional Report Surplus Deficit	1048	211	1737	2110	2089	1587	3176	3228	3925	9665	10164	9511	7722	7725	4445
19 1947 Regional Report Surplus Deficit	3700	2524	2613	1785	3689	6146	6115	6695	6193	7597	4917	8303	8306	6625	5478
20 1948 Regional Report Surplus Deficit	2434	1538	2303	6675	5917	3256	6096	5425	3519	5976	7232	11275	11932	7876	6070
21 1949 Regional Report Surplus Deficit	5928	4769	3354	2501	3054	843	2135	2903	5781	7894	8400	9830	7696	2542	4511
22 1950 Regional Report Surplus Deficit	693	-154	1534	2111	2015	1622	6207	6974	7243	10415	6478	7864	11816	11511	5618
23 1951 Regional Report Surplus Deficit	6106	4758	3351	4398	6923	6964	8518	10035	8528	11220	8479	9380	8104	9109	7532
24 1952 Regional Report Surplus Deficit	4356	1718	3014	5933	4769	3706	5709	5963	3860	9680	10887	11258	8909	6321	6053
25 1953 Regional Report Surplus Deficit	2396	1319	1360	2190	1282	-1147	1551	7751	2641	1282	810	6946	12135	9601	3901
26 1954 Regional Report Surplus Deficit	3109	2317	2707	2401	3645	2836	5572	7016	5314	6796	4092	8743	10172	11258	5641
27 1955 Regional Report Surplus Deficit	7294	6722	6436	2689	4875	2269	1178	1923	-593	2249	-829	4320	11995	10932	4482
28 1956 Regional Report Surplus Deficit	5530	3090	2630	3602	6028	6380	8629	8261	8432	10042	11407	11033	11863	8836	7549
29 1957 Regional Report Surplus Deficit	4798	3973	3032	3125	2970	3135	3096	2361	5021	9456	4415	11771	11771	4657	5199
30 1958 Regional Report Surplus Deficit	2659	485	1733	1715	1951	920	4472	5146	3655	4811	5667	10531	10224	4015	4248
31 1959 Regional Report Surplus Deficit	2154	843	1822	2210	4745	5180	7787	7971	4756	8783	4849	7537	10334	9634	5838
32 1960 Regional Report Surplus Deficit	5042	4502	7445	8203	7482	4577	4499	4946	4028	11243	7203	5651	8880	5738	6276
33 1961 Regional Report Surplus Deficit	3597	1424	1985	2022	3671	1268	4248	5621	6107	7792	2285	7653	10297	4299	4540
34 1962 Regional Report Surplus Deficit	2553	867	1659	1727	2176	1230	3794	4395	1141	5988	9683	7295	7559	4195	3707
35 1963 Regional Report Surplus Deficit	3092	1704	2146	3131	5041	4453	4639	5589	1685	2904	-156	5406	9531	5332	4211
36 1964 Regional Report Surplus Deficit	2057	991	2936	1751	2864	1189	2482	2760	659	5175	1630	7463	12532	10565	4174
37 1965 Regional Report Surplus Deficit	5393	4324	4330	3663	4070	6671	9403	9484	8274	5398	10497	9612	9222	6683	7003
38 1966 Regional Report Surplus Deficit	5108	4093	2501	2695	3007	1602	3378	3631	1862	6670	2870	4566	7311	5272	3759

Regional Report Surplus Deficit By Water Year

Operating Year 2027

2018 White Book Report Date: 12/1/2018 *Continued*

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Energy-aMW - Surplus Deficit	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
39 1967 Regional Report Surplus Deficit	2719	1218	1965	1689	1977	2956	6453	6963	5597	5544	378	7204	11652	8774	4999
40 1968 Regional Report Surplus Deficit	3751	2840	2850	2849	3698	1896	4790	6187	6288	1547	-922	4220	9778	6257	4354
41 1969 Regional Report Surplus Deficit	3974	4085	5292	4300	6034	3721	7588	7840	5956	10303	10345	10985	9535	6600	6832
42 1970 Regional Report Surplus Deficit	2040	1029	2198	2402	2784	485	4456	5321	2487	1996	-642	6755	10518	4320	3642
43 1971 Regional Report Surplus Deficit	1749	588	1630	2240	1946	1492	8518	9550	8542	10036	7816	11013	12470	10467	6472
44 1972 Regional Report Surplus Deficit	6085	5297	3388	3068	3566	2511	7749	9347	11658	13252	7002	10452	12256	10280	7493
45 1973 Regional Report Surplus Deficit	6302	5922	3901	2886	3297	2231	3443	3674	1199	582	-2351	501	3795	2070	2679
46 1974 Regional Report Surplus Deficit	1279	-194	1655	2137	2142	3994	10222	10879	10130	11618	10314	9761	12318	11731	7178
47 1975 Regional Report Surplus Deficit	6538	5888	3555	1721	2282	1247	4164	4643	5210	3629	1879	8514	11400	11334	5260
48 1976 Regional Report Surplus Deficit	4007	3693	3899	4527	6517	8303	7901	8475	6702	10819	7494	10844	9701	9943	7478
49 1977 Regional Report Surplus Deficit	7752	8013	7700	2630	2059	-631	270	227	-114	349	-2244	133	655	422	1696
50 1978 Regional Report Surplus Deficit	648	-159	929	492	1383	1942	2975	3165	3084	9725	4122	8156	6194	6734	3516
51 1979 Regional Report Surplus Deficit	3428	1993	4889	2701	2759	-261	1519	1259	3699	1945	1639	7179	4310	1656	2856
52 1980 Regional Report Surplus Deficit	403	-133	1843	1668	1622	-700	2070	1609	383	5034	5229	10166	9815	4651	3197
53 1981 Regional Report Surplus Deficit	501	220	2299	1630	3063	4999	6437	6914	1981	546	270	7105	10927	8117	4504
54 1982 Regional Report Surplus Deficit	5097	4161	2779	2186	3607	2050	5217	9559	10109	9813	4414	9819	11188	11453	6622
55 1983 Regional Report Surplus Deficit	5862	5098	4885	3964	3875	3153	6689	7524	8234	7771	3475	8154	9033	9984	6378
56 1984 Regional Report Surplus Deficit	5394	4783	3602	2615	6988	3477	6456	5971	6595	6651	7532	7342	11056	9056	6270
57 1985 Regional Report Surplus Deficit	4381	2063	3685	2721	4254	1547	2333	2581	1892	6687	5572	6771	4324	2218	3465
58 1986 Regional Report Surplus Deficit	-330	-533	2112	3194	5063	1739	4783	6829	9341	10121	7564	6330	8697	3360	4959
59 1987 Regional Report Surplus Deficit	1840	334	1818	2068	3103	1612	1332	938	3219	2399	1878	6344	3532	989	2355
60 1988 Regional Report Surplus Deficit	190	-448	1819	1643	887	-1689	-1371	-301	4.63	990	879	980	3675	3034	787
61 1989 Regional Report Surplus Deficit	972	219	1467	1875	2159	462	-225	-1840	2883	5855	9343	6416	4688	2876	2430
62 1990 Regional Report Surplus Deficit	863	591	1763	1639	3453	3086	4230	5722	4427	5783	7504	6076	9017	5797	4361
63 1991 Regional Report Surplus Deficit	3699	2651	1920	2107	6778	3487	6035	6461	4910	6747	3344	6396	8917	9429	5375
64 1992 Regional Report Surplus Deficit	5289	3474	1988	1326	2318	-950	666	1006	1322	900	-590	3957	1925	401	1543
65 1993 Regional Report Surplus Deficit	154	-479	1700	1308	1432	-1021	-961	-2290	1626	2964	-704	8328	6572	3841	1815
66 1994 Regional Report Surplus Deficit	1809	720	1753	2052	1633	-564	-1244	1136	204	1282	2331	3173	2896	2459	1374
67 1995 Regional Report Surplus Deficit	634	-219	1500	1875	953	96.5	1730	3844	5184	3978	-616	6548	9713	5721	3246
68 1996 Regional Report Surplus Deficit	2400	746	2568	3726	8272	9925	9788	11013	11013	10536	11228	9733	10160	9226	8133
69 1997 Regional Report Surplus Deficit	4848	3809	2940	2248	3749	3738	9924	10326	10536	11339	11282	11037	11896	10484	7689
70 1998 Regional Report Surplus Deficit	5337	5503	5256	7406	5723	2079	3356	5596	3652	3074	707	10164	11177	6228	5659
71 1999 Regional Report Surplus Deficit	3698	3255	2036	2348	1694	3645	7577	8191	8592	7311	6704	8081	11489	10657	6223
72 2000 Regional Report Surplus Deficit	7653	6001	3486	2272	7205	4640	4098	4319	4318	9269	9427	7173	3908	5185	5229
73 2001 Regional Report Surplus Deficit	3162	670	1707	1801	1593	-1139	-484	-494	-10.2	517	-2174	528	877	1001	541
74 2002 Regional Report Surplus Deficit	677	-446	973	197	1030	498	202	421	1135	4759	6527	5388	10135	8232	2831
75 2003 Regional Report Surplus Deficit	1960	1202	1755	1601	1806	-880	-57.3	1507	4167	3804	2096	2860	8586	2435	2349
76 2004 Regional Report Surplus Deficit	-427	-629	1495	1822	2342	1009	677	-159	1328	3228	1447	3636	5949	2891	1904
77 2005 Regional Report Surplus Deficit	276	1152	3362	2490	2879	2119	2762	3510	1318	531	-805	3752	5156	3394	2602

Regional Report Surplus Deficit By Water Year
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Energy-aMW - Surplus Deficit	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
78 2006 Regional Report Surplus Deficit	990	13.1	1975	1373	2458	1278	5783	6193	4092	10365	8881	9601	10320	4417	4774
79 2007 Regional Report Surplus Deficit	1003	-105	1486	1265	3484	1832	3986	3052	6917	6686	2101	7039	6554	4535	3751
80 2008 Regional Report Surplus Deficit	842	-518	1021	1845	1864	-22.0	658	955	1710	2654	-358	7802	12139	7912	3105
Ranked Averages															
81 Bottom 10 pct	1384	506	1707	1923	1487	-976	-1171	-368	35.0	1110	-1260	473	3320	1879	764
82 Middle 80 pct	2808	1874	2560	2396	3120	1755	3481	4007	3805	5584	4023	7044	8471	5924	4136
83 Top 10 pct	4456	3190	3095	3421	5159	6061	9017	9727	9409	10528	9713	10232	10690	9537	7507

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Regional Report Surplus Deficit By Water Year

Operating Year 2028

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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	2416	1337	1923	1954	2066	-886	-1244	-120	273	30.1	-1919	824	7203	1182	1166
2 1930 Regional Report Surplus Deficit	1071	126	1525	1875	1236	-1455	-1927	275	161	339	-1216	931	3107	2560	698
3 1931 Regional Report Surplus Deficit	1150	105	1497	1903	1207	-1166	-1666	281	293	-307	-2200	875	2246	1848	554
4 1932 Regional Report Surplus Deficit	1162	-203	1291	1451	715	-1242	-402	-2187	3644	5617	7808	9755	9920	5487	2976
5 1933 Regional Report Surplus Deficit	2621	1222	2294	1641	2328	2363	4226	4835	3860	3306	812	6528	12474	9991	4537
6 1934 Regional Report Surplus Deficit	5942	4085	3028	3652	7021	8492	8867	9221	8157	9612	7594	7310	6767	1670	6467
7 1935 Regional Report Surplus Deficit	348	216	961	1550	1803	653	3935	4674	3850	729	1400	5836	5839	5777	3016
8 1936 Regional Report Surplus Deficit	4307	1083	1317	1364	1369	-1190	-1432	-804	539	553	5535	9979	9133	3804	2485
9 1937 Regional Report Surplus Deficit	621	-226	994	1909	1272	-1120	-2304	-2026	-451	-401	-2761	1356	6188	2500	579
10 1938 Regional Report Surplus Deficit	1489	122	1658	1552	2304	1254	2960	3347	5494	6371	8570	9676	7543	6076	4174
11 1939 Regional Report Surplus Deficit	1069	-30.6	1931	1571	1523	-796	1505	2039	1994	2115	3253	5384	4306	2806	2116
12 1940 Regional Report Surplus Deficit	524	-274	1219	1772	1841	1136	1671	1410	4577	3843	955	5753	3914	346	2181
13 1941 Regional Report Surplus Deficit	-55.1	-739	1270	1572	1619	160	-551	704	1342	-422	-3300	648	3793	1624	823
14 1942 Regional Report Surplus Deficit	1041	-300	1759	1273	2531	3225	2517	3108	241	459	431	2987	9584	7048	2914
15 1943 Regional Report Surplus Deficit	2449	1652	2775	1599	1910	694	4657	4912	5377	11450	9971	7622	12066	10507	5392
16 1944 Regional Report Surplus Deficit	3426	1392	2211	2275	1289	-803	-58.1	181	174	-711	-2913	-104	2959	820	792
17 1945 Regional Report Surplus Deficit	903	-609	1138	1328	762	-1244	-899	-189	265	-838	-2506	5004	9560	1840	1331
18 1946 Regional Report Surplus Deficit	1199	-93.6	1619	2034	1968	1539	2864	3792	4187	8267	9320	9915	8289	7663	4428
19 1947 Regional Report Surplus Deficit	3852	2220	2494	1709	3568	6098	6156	6793	6463	6133	4009	8689	8870	6546	5453
20 1948 Regional Report Surplus Deficit	2585	1234	2185	6600	5796	3208	6048	5678	3780	4533	6342	11584	12443	7802	6035
21 1949 Regional Report Surplus Deficit	6080	4464	3235	2425	2934	795	2088	3156	6045	6443	7503	10184	8259	2465	4481
22 1950 Regional Report Surplus Deficit	844	-458	1415	2035	1894	1574	6208	6966	7809	9026	5643	8234	12367	11484	5615
23 1951 Regional Report Surplus Deficit	6257	4453	3232	4322	6803	6916	8471	10288	8841	9791	7605	9720	8654	9066	7520
24 1952 Regional Report Surplus Deficit	4507	1413	2895	5858	4649	3658	5662	6216	4093	8281	10031	11609	9464	6255	6029
25 1953 Regional Report Surplus Deficit	2548	1015	1242	2115	1161	-1195	1594	7953	2864	-192	-110	7315	12597	9578	3882
26 1954 Regional Report Surplus Deficit	3260	2013	2589	2326	3524	2788	5588	7263	5537	5274	3182	9081	10706	11159	5612
27 1955 Regional Report Surplus Deficit	7445	6417	6317	2613	4754	2221	1130	2176	-343	754	-1746	4663	12524	10895	4446
28 1956 Regional Report Surplus Deficit	5681	2786	2512	3526	5908	6331	8581	8514	8756	8652	10572	11382	12367	8776	7531
29 1957 Regional Report Surplus Deficit	4949	3668	2913	3050	2849	3087	3046	2619	5274	8044	3539	12105	12234	4583	5158
30 1958 Regional Report Surplus Deficit	2811	181	1615	1639	1830	872	4425	5399	3908	3353	4762	10831	10691	3931	4211
31 1959 Regional Report Surplus Deficit	2305	538	1703	2135	4625	5132	7618	8371	5022	7348	3969	7879	10856	9576	5818
32 1960 Regional Report Surplus Deficit	5193	4197	7327	8127	7361	4529	4655	4951	4283	9788	6303	6023	9459	5672	6247
33 1961 Regional Report Surplus Deficit	3748	1119	1866	1946	3550	1220	4200	5874	6383	6344	1390	8031	10767	4223	4514
34 1962 Regional Report Surplus Deficit	2704	562	1540	1651	2056	1182	3813	4564	1379	4563	8794	7673	8139	4119	3685
35 1963 Regional Report Surplus Deficit	3243	1399	2027	3055	4920	4405	4592	5842	1935	1429	-1076	5778	10042	5256	4184
36 1964 Regional Report Surplus Deficit	2208	686	2818	1675	2744	1140	2518	2921	894	3723	717	7810	13016	10489	4134
37 1965 Regional Report Surplus Deficit	5544	4019	4212	3588	3950	6622	9104	10170	8603	4055	9649	9993	9766	6618	7011
38 1966 Regional Report Surplus Deficit	5259	3789	2382	2619	2886	1554	3473	3712	2104	5221	1967	4958	7889	5196	3734

Regional Report Surplus Deficit By Water Year

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Energy-aMW - Surplus Deficit	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
39 1967 Regional Report Surplus Deficit	2870	913	1846	1613	1856	2908	6429	7155	5867	4070	-542	7562	12124	8715	4969
40 1968 Regional Report Surplus Deficit	3903	2535	2732	2774	3578	1848	4742	6441	6572	38.1	-1837	4593	10318	6189	4333
41 1969 Regional Report Surplus Deficit	4125	3780	5173	4224	5913	3673	7567	8269	5891	8890	9524	11366	10178	6531	6812
42 1970 Regional Report Surplus Deficit	2191	724	2079	2326	2664	437	4408	5575	2738	521	-1562	7071	10966	4244	3606
43 1971 Regional Report Surplus Deficit	1901	284	1512	2164	1826	1444	8514	9779	8795	8648	6978	11301	12925	10399	6447
44 1972 Regional Report Surplus Deficit	6237	4992	3270	2992	3446	2463	7680	9348	12144	11782	6086	10759	12669	10243	7455
45 1973 Regional Report Surplus Deficit	6454	5617	3782	2810	3177	2183	3396	3928	1450	-892	-3272	875	4378	1993	2656
46 1974 Regional Report Surplus Deficit	1430	-499	1536	2062	2022	3945	10175	11133	10474	10223	9473	10142	12833	11619	7170
47 1975 Regional Report Surplus Deficit	6690	5584	3437	1646	2161	1199	4184	4794	5495	2166	970	8894	12017	11346	5245
48 1976 Regional Report Surplus Deficit	4158	3388	3781	4451	6396	8254	7854	8729	6960	9374	6602	11184	10244	9843	7451
49 1977 Regional Report Surplus Deficit	8099	7708	7582	2554	1938	-680	132	597	135	-1125	-3165	509	1237	345	1676
50 1978 Regional Report Surplus Deficit	799	-464	811	416	1262	1894	2928	3334	3422	8234	3225	8498	6772	6663	3489
51 1979 Regional Report Surplus Deficit	3579	1688	4771	2625	2639	-310	1472	1513	3955	466	729	7545	4886	1579	2826
52 1980 Regional Report Surplus Deficit	554	-437	1725	1593	1501	-748	2023	1863	632	3575	4323	10514	10317	4573	3159
53 1981 Regional Report Surplus Deficit	653	-84.4	2181	1555	2943	4951	6389	7167	2232	-928	-650	7448	11432	8041	4476
54 1982 Regional Report Surplus Deficit	5249	3856	2660	2110	3487	2002	5170	9640	10522	8408	3531	10174	11677	11334	6596
55 1983 Regional Report Surplus Deficit	6013	4793	4767	3888	3754	3105	6642	7778	8538	6341	2586	8529	9620	9961	6369
56 1984 Regional Report Surplus Deficit	5546	4478	3483	2539	6868	3429	6409	6224	6875	5213	6648	7722	11497	8953	6236
57 1985 Regional Report Surplus Deficit	4532	1758	3567	2645	4133	1499	2371	2733	2141	5241	4680	7145	4900	2141	3438
58 1986 Regional Report Surplus Deficit	-179	-838	1993	3118	4943	1690	4735	7083	9662	8722	6732	6729	9254	3283	4952
59 1987 Regional Report Surplus Deficit	1991	29.4	1700	1993	2982	1563	1285	1192	3470	928	961	6711	4110	912	2325
60 1988 Regional Report Surplus Deficit	342	-752	1700	1568	766	-1737	-1418	-47.6	254	-484	-41.0	1353	4249	2957	758
61 1989 Regional Report Surplus Deficit	1123	-85.5	1349	1800	2038	413	-273	-1586	3142	4443	8485	6814	5282	2799	2402
62 1990 Regional Report Surplus Deficit	1015	286	1645	1564	3333	3038	4255	5897	4682	4306	6581	6431	9533	5719	4333
63 1991 Regional Report Surplus Deficit	3850	2347	1801	2032	6658	3439	6040	6580	5162	5298	2439	6787	9505	9317	5348
64 1992 Regional Report Surplus Deficit	5441	3170	1870	1250	2197	-999	618	1260	1572	-575	-1510	4339	2508	324	1517
65 1993 Regional Report Surplus Deficit	306	-783	1581	1233	1311	-1069	-1009	-2036	1878	1489	-1657	8693	7311	3623	1777
66 1994 Regional Report Surplus Deficit	1969	416	1634	1976	1512	-612	-1291	1389	454	-193	1410	3548	3473	2382	1348
67 1995 Regional Report Surplus Deficit	786	-523	1381	1799	832	48.4	1683	4098	5458	2478	-1531	6941	10240	5657	3221
68 1996 Regional Report Surplus Deficit	2551	442	2449	3651	8151	9877	9741	11267	11337	9091	10351	10091	10706	9176	8122
69 1997 Regional Report Surplus Deficit	4999	3505	2821	2172	3628	3690	9655	10737	11115	9925	10428	11420	12447	10462	7700
70 1998 Regional Report Surplus Deficit	5488	5199	5138	7330	5602	2031	3308	5850	3906	1600	-214	10441	11733	6160	5625
71 1999 Regional Report Surplus Deficit	3849	2950	1917	2272	1574	3597	7521	8164	9189	5897	5844	8498	11960	10656	6215
72 2000 Regional Report Surplus Deficit	7804	5697	3367	2196	7084	4592	4050	4573	4573	7846	8558	7528	4494	5111	5205
73 2001 Regional Report Surplus Deficit	3313	365	1588	1726	1473	-1187	-531	-240	239	-957	-3094	904	1461	924	513
74 2002 Regional Report Surplus Deficit	828	-751	854	121	909	450	-34.9	810	1462	3320	5642	5779	10650	8179	2802
75 2003 Regional Report Surplus Deficit	2111	897	1636	1525	1685	-928	-105	1760	4428	2342	1189	3236	9132	2358	2321
76 2004 Regional Report Surplus Deficit	-276	-934	1377	1746	2221	960	629	94.6	1580	1761	536	4023	6543	2814	1876
77 2005 Regional Report Surplus Deficit	427	847	3244	2415	2759	2071	2714	3764	1569	-944	-1756	4137	5736	3317	2579

Regional Report Surplus Deficit By Water Year
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2018 White Book Report Date: **12/1/2018** *Continued*
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Energy-aMW - Surplus Deficit	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
78 2006 Regional Report Surplus Deficit	1141	-291	1856	1298	2337	1230	5865	6286	4355	8931	8002	10007	10891	4341	4757
79 2007 Regional Report Surplus Deficit	1155	-409	1368	1189	3363	1784	3938	3306	7204	5191	1211	7396	7120	4456	3724
80 2008 Regional Report Surplus Deficit	994	-823	903	1769	1744	-70.2	611	1208	1960	1179	-1278	8165	12640	7858	3068
Ranked Averages															
81 Bottom 10 pct	1535	201	1588	1848	1366	-1024	-1212	-124	286	-364	-2180	849	3901	1802	735
82 Middle 80 pct	2962	1570	2442	2320	2999	1706	3447	4236	4072	4132	3128	7408	9017	5852	4109
83 Top 10 pct	4607	2886	2977	3346	5038	6012	8907	10023	9779	9112	8846	10586	11211	9475	7495

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Regional Report Surplus Deficit By Water Year

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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	2220	1382	1885	1884	1966	-947	-1279	-583	-98.0	1004	-1694	18.3	6467	1089	984
2 1930 Regional Report Surplus Deficit	874	172	1487	1805	1135	-1516	-2002	-141	-210	1312	-991	124	2383	2468	514
3 1931 Regional Report Surplus Deficit	953	150	1459	1834	1106	-1227	-1742	-135	-78.3	666	-1976	68.4	1520	1756	369
4 1932 Regional Report Surplus Deficit	965	-158	1253	1381	614	-1304	-478	-2603	3281	6546	8007	8974	9188	5397	2805
5 1933 Regional Report Surplus Deficit	2425	1267	2256	1571	2227	2302	4087	4425	3550	4274	1031	5745	11972	9878	4369
6 1934 Regional Report Surplus Deficit	5746	4131	2990	3582	6920	8430	8791	8804	7728	10500	7733	6494	6068	1577	6264
7 1935 Regional Report Surplus Deficit	151	262	923	1480	1702	592	3793	4263	3563	1686	1621	5042	5110	5682	2828
8 1936 Regional Report Surplus Deficit	4111	1129	1279	1294	1269	-1251	-1508	-1221	169	1524	5740	9198	8438	3710	2313
9 1937 Regional Report Surplus Deficit	425	-181	957	1840	1171	-1181	-2379	-2443	-822	573	-2537	555	5489	2407	403
10 1938 Regional Report Surplus Deficit	1293	168	1621	1483	2203	1192	2888	3004	5041	7270	8710	8893	6848	5982	3988
11 1939 Regional Report Surplus Deficit	873	15.0	1893	1502	1422	-857	1341	1726	1623	3092	3445	4559	3580	2713	1929
12 1940 Regional Report Surplus Deficit	327	-229	1181	1702	1741	1075	1596	993	4193	4816	1178	4940	3189	254	1997
13 1941 Regional Report Surplus Deficit	-252	-693	1232	1503	1519	98.8	-626	297	963	552	-3076	-157	3071	1531	638
14 1942 Regional Report Surplus Deficit	845	-255	1721	1203	2431	3163	2441	2691	-130	1433	657	2181	8871	6955	2730
15 1943 Regional Report Surplus Deficit	2253	1697	2738	1530	1809	633	4581	4496	4980	12334	10107	6814	11362	10439	5202
16 1944 Regional Report Surplus Deficit	3229	1437	2173	2205	1189	-864	-226	-123	-197	262	-2688	-912	2236	727	609
17 1945 Regional Report Surplus Deficit	707	-564	1101	1259	662	-1305	-975	-605	-106	136	-2282	4207	8856	1748	1153
18 1946 Regional Report Surplus Deficit	1003	-48.0	1581	1965	1868	1478	3053	3065	3803	9164	9468	9080	7581	7555	4234
19 1947 Regional Report Surplus Deficit	3655	2265	2457	1640	3468	6037	5992	6532	6072	7096	4221	7872	8166	6456	5267
20 1948 Regional Report Surplus Deficit	2389	1279	2147	6530	5696	3147	5972	5262	3398	5475	6536	10844	11791	7707	5859
21 1949 Regional Report Surplus Deficit	5883	4510	3198	2356	2833	733	2012	2740	5660	7393	7704	9400	7556	2372	4300
22 1950 Regional Report Surplus Deficit	647	-413	1378	1966	1794	1513	6084	6811	7121	9915	5783	7434	11676	11342	5407
23 1951 Regional Report Surplus Deficit	6060	4499	3195	4253	6702	6855	8395	9872	8407	10719	7783	8949	7963	8940	7321
24 1952 Regional Report Surplus Deficit	4310	1459	2857	5788	4548	3597	5586	5800	3739	9179	10191	10828	8768	6151	5843
25 1953 Regional Report Surplus Deficit	2351	1060	1204	2045	1061	-1257	1428	7588	2520	781	114	6516	11995	9432	3691
26 1954 Regional Report Surplus Deficit	3063	2058	2551	2256	3423	2726	5449	6853	5193	6296	3396	8312	10031	11089	5430
27 1955 Regional Report Surplus Deficit	7248	6463	6279	2544	4653	2160	1055	1760	-714	1748	-1525	3889	11854	10762	4272
28 1956 Regional Report Surplus Deficit	5485	2831	2474	3457	5807	6270	8506	8098	8311	9541	10712	10603	11722	8666	7338
29 1957 Regional Report Surplus Deficit	4753	3714	2875	2980	2749	3026	2973	2198	4900	8956	3719	11341	11631	4488	4989
30 1958 Regional Report Surplus Deficit	2614	226	1577	1570	1730	810	4349	4983	3534	4311	4971	10101	10084	3845	4038
31 1959 Regional Report Surplus Deficit	2109	584	1665	2065	4524	5070	7664	7808	4635	8282	4154	7107	10193	9465	5627
32 1960 Regional Report Surplus Deficit	4996	4243	7289	8058	7260	4468	4376	4784	3906	10742	6508	5220	8739	5569	6065
33 1961 Regional Report Surplus Deficit	3552	1165	1829	1877	3450	1159	4125	5458	5986	7291	1589	7222	10156	4130	4330
34 1962 Regional Report Surplus Deficit	2507	608	1503	1582	1955	1121	3671	4232	1020	5487	8987	6865	7418	4026	3496
35 1963 Regional Report Surplus Deficit	3047	1445	1990	2986	4820	4343	4516	5426	1564	2403	-852	4976	9391	5163	4000
36 1964 Regional Report Surplus Deficit	2012	732	2780	1606	2643	1079	2359	2597	538	4674	935	7033	12391	10396	3963
37 1965 Regional Report Surplus Deficit	5348	4065	4174	3518	3849	6561	9279	9321	8153	4897	9802	9182	9082	6513	6792
38 1966 Regional Report Surplus Deficit	5062	3834	2345	2549	2786	1492	3255	3468	1740	6169	2174	4135	7171	5103	3548

Regional Report Surplus Deficit By Water Year

Operating Year 2029

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Energy-aMW - Surplus Deficit	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
39 1967 Regional Report Surplus Deficit	2674	959	1809	1544	1756	2847	6330	6800	5476	5043	-318	6773	11511	8605	4788
40 1968 Regional Report Surplus Deficit	3706	2581	2694	2704	3477	1787	4667	6024	6167	1046	-1618	3790	9637	6087	4143
41 1969 Regional Report Surplus Deficit	3929	3826	5136	4155	5813	3611	7465	7677	5834	9802	9649	10555	9394	6431	6621
42 1970 Regional Report Surplus Deficit	1995	770	2041	2257	2563	376	4333	5158	2365	1495	-1338	6325	10377	4151	3431
43 1971 Regional Report Surplus Deficit	1704	329	1474	2095	1725	1383	8395	9387	8421	9535	7120	10583	12329	10298	6262
44 1972 Regional Report Surplus Deficit	6040	5038	3232	2923	3345	2401	7626	9184	11536	12751	6307	10021	12115	10111	7282
45 1973 Regional Report Surplus Deficit	6257	5663	3744	2741	3076	2122	3320	3512	1078	81.1	-3047	70.8	3654	1901	2468
46 1974 Regional Report Surplus Deficit	1234	-454	1498	1992	1921	3884	10099	10716	10009	11117	9618	9331	12178	11561	6967
47 1975 Regional Report Surplus Deficit	6493	5629	3399	1576	2061	1138	4041	4480	5089	3128	1183	8083	11259	11164	5049
48 1976 Regional Report Surplus Deficit	3962	3434	3743	4381	6296	8193	7778	8312	6580	10318	6798	10414	9561	9774	7267
49 1977 Regional Report Surplus Deficit	7706	7754	7544	2485	1838	-741	147	63.7	-236	-152	-2940	-298	514	252	1485
50 1978 Regional Report Surplus Deficit	603	-418	773	347	1162	1832	2852	3002	2963	9224	3426	7725	6054	6564	3306
51 1979 Regional Report Surplus Deficit	3383	1734	4733	2556	2538	-371	1396	1096	3578	1444	944	6748	4170	1487	2645
52 1980 Regional Report Surplus Deficit	358	-392	1687	1523	1401	-809	1947	1446	262	4533	4533	9736	9675	4482	2986
53 1981 Regional Report Surplus Deficit	456	-38.8	2143	1485	2842	4890	6314	6751	1859	45.1	-426	6674	10787	7947	4293
54 1982 Regional Report Surplus Deficit	5052	3902	2623	2041	3386	1941	5094	9396	9987	9312	3718	9388	11047	11283	6411
55 1983 Regional Report Surplus Deficit	5817	4839	4729	3819	3654	3043	6566	7361	8112	7271	2779	7724	8893	9815	6167
56 1984 Regional Report Surplus Deficit	5349	4524	3446	2470	6767	3367	6333	5808	6473	6150	6836	6912	10916	8886	6059
57 1985 Regional Report Surplus Deficit	4336	1804	3529	2576	4032	1438	2210	2418	1770	6186	4876	6340	4183	2048	3254
58 1986 Regional Report Surplus Deficit	-375	-792	1956	3048	4842	1629	4660	6667	9219	9620	6868	5900	8556	3190	4748
59 1987 Regional Report Surplus Deficit	1794	74.9	1662	1923	2882	1502	1209	775	3097	1898	1182	5914	3392	819	2144
60 1988 Regional Report Surplus Deficit	145	-707	1663	1498	666	-1798	-1494	-464	-117	489	183	549	3535	2864	577
61 1989 Regional Report Surplus Deficit	927	-39.9	1311	1730	1938	352	-348	-2003	2762	5354	8647	5985	4547	2706	2219
62 1990 Regional Report Surplus Deficit	818	332	1607	1494	3232	2976	4107	5559	4306	5282	6809	5645	8876	5628	4150
63 1991 Regional Report Surplus Deficit	3654	2392	1763	1962	6557	3377	5912	6298	4789	6246	2648	5965	8777	9260	5165
64 1992 Regional Report Surplus Deficit	5244	3215	1832	1181	2097	-1060	543	843	1200	399	-1286	3526	1784	232	1332
65 1993 Regional Report Surplus Deficit	109	-738	1544	1163	1211	-1130	-1084	-2453	1504	2463	-1400	7898	6431	3672	1604
66 1994 Regional Report Surplus Deficit	1763	461	1597	1907	1412	-673	-1367	973	82.8	781	1635	2742	2755	2290	1164
67 1995 Regional Report Surplus Deficit	589	-478	1344	1730	732	-12.9	1607	3681	5063	3477	-1312	6118	9572	5552	3035
68 1996 Regional Report Surplus Deficit	2355	487	2411	3581	8051	9815	9665	10850	10892	10035	10533	9303	10019	9057	7922
69 1997 Regional Report Surplus Deficit	4803	3550	2783	2103	3528	3629	9801	10163	10415	10838	10586	10607	11755	10315	7478
70 1998 Regional Report Surplus Deficit	5292	5244	5100	7261	5502	1970	3233	5433	3531	2573	10.9	9733	11036	6059	5449
71 1999 Regional Report Surplus Deficit	3653	2996	1880	2203	1473	3536	7454	8028	8470	6810	6008	7651	11348	10487	6012
72 2000 Regional Report Surplus Deficit	7608	5742	3330	2127	6984	4531	3975	4156	4197	8768	8731	6742	3767	5016	5018
73 2001 Regional Report Surplus Deficit	3116	411	1551	1656	1372	-1248	-607	-657	-132	16.2	-2869	97.8	736	831	330
74 2002 Regional Report Surplus Deficit	631	-705	817	51.6	809	389	78.6	259	1014	4258	5831	4957	9994	8063	2620
75 2003 Regional Report Surplus Deficit	1915	943	1599	1456	1584	-990	-180	1344	4046	3303	1401	2429	8445	2265	2138
76 2004 Regional Report Surplus Deficit	-472	-888	1339	1677	2121	899	554	-322	1207	2727	752	3205	5808	2722	1694
77 2005 Regional Report Surplus Deficit	231	893	3206	2345	2658	2010	2639	3347	1197	29.7	-1501	3322	5016	3225	2391

Regional Report Surplus Deficit By Water Year

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Energy-aMW - Surplus Deficit	Aug1	Aug16	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr1	Apr16	May	Jun	Jul	Avg
78 2006 Regional Report Surplus Deficit	945	-246	1818	1228	2236	1168	5660	6030	3971	9865	8185	9171	10180	4248	4563
79 2007 Regional Report Surplus Deficit	958	-364	1330	1120	3263	1723	3863	2889	6795	6185	1406	6609	6413	4366	3540
80 2008 Regional Report Surplus Deficit	797	-777	865	1700	1643	-131	535	792	1588	2153	-1053	7371	11999	7743	2894
Ranked Averages															
81 Bottom 10 pct	1339	246	1551	1778	1265	-1085	-1295	-531	-86.5	609	-1956	42.9	3180	1709	553
82 Middle 80 pct	2762	1615	2404	2250	2899	1645	3358	3844	3684	5083	3328	6613	8331	5755	3925
83 Top 10 pct	4411	2931	2939	3276	4937	5951	8894	9565	9288	10027	9017	9801	10549	9367	7296

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