2010 BPA Rate Case
Wholesale Power Rate Initial Proposal

RISK ANALYSIS AND MITIGATION STUDY DOCUMENTATION

Volume 2

February 2009

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RISK ANALYSIS AND MITIGATION STUDY DOCUMENTATION VOLUME 2

GRAPHS AND TABLES

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RISK ANALYSIS AND MITIGATION STUDY DOCUMENTATION

OPERATING RISK ANALYSIS GRAPHS

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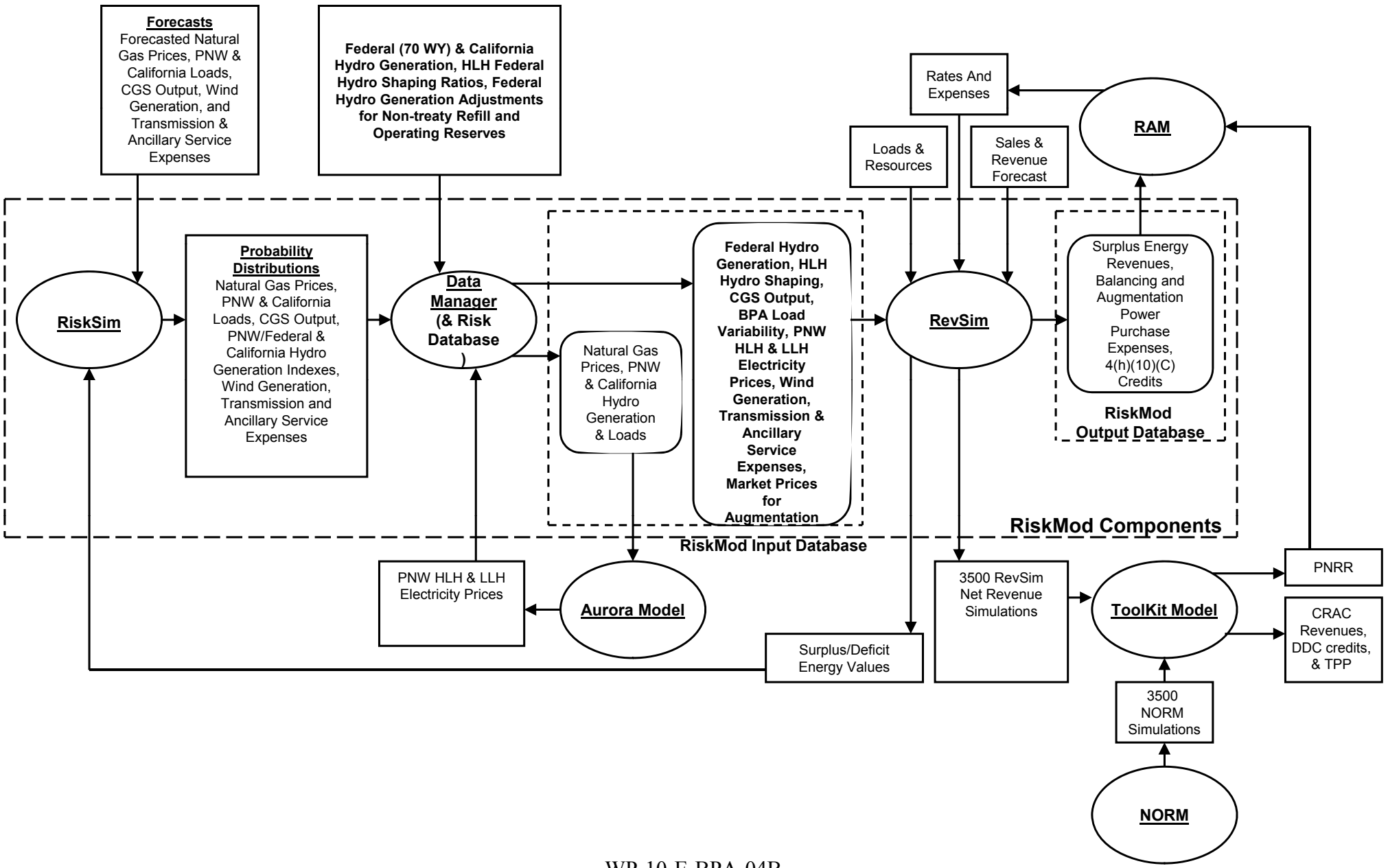
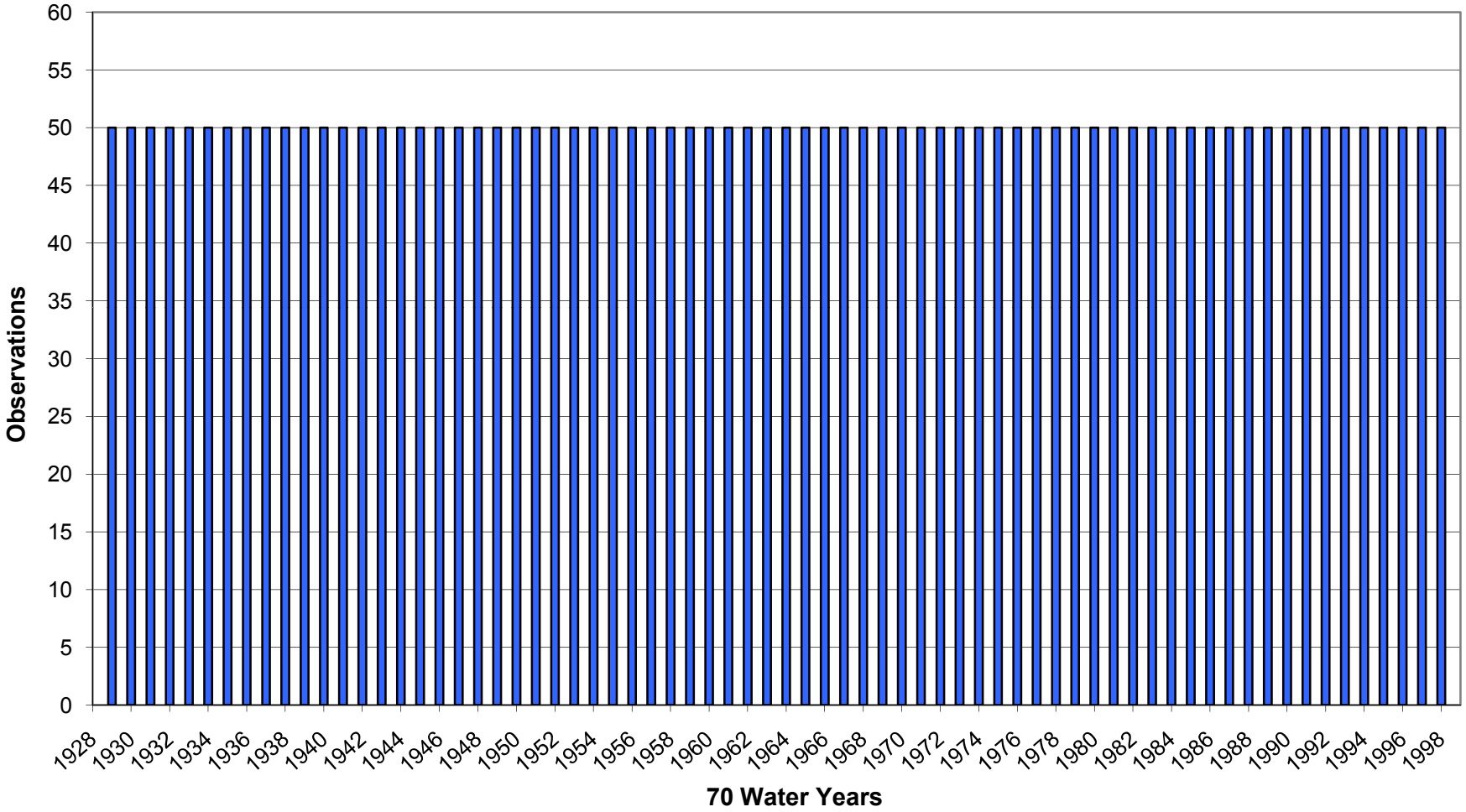
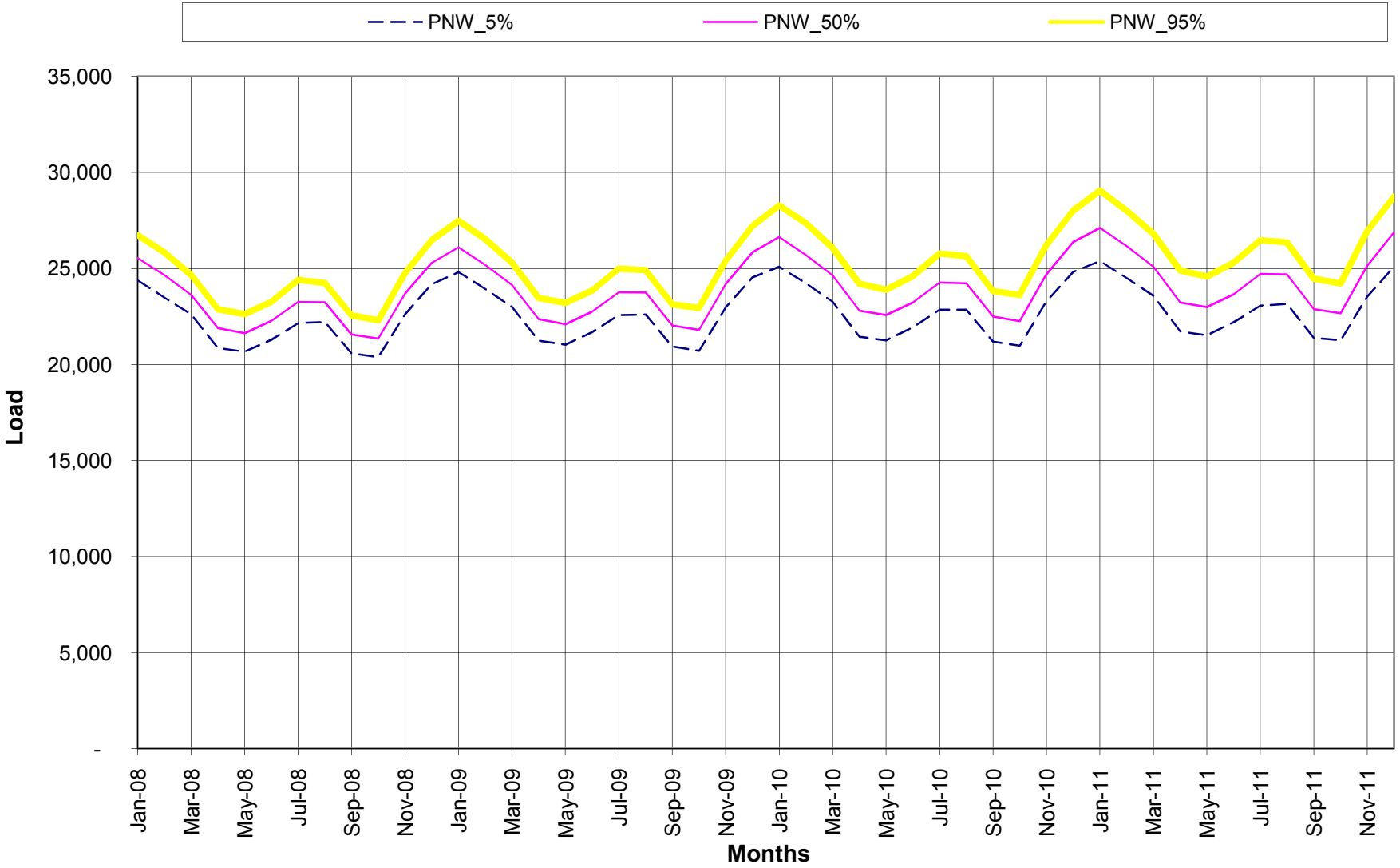
Graph 1: RiskMod Risk Analysis Information Flow



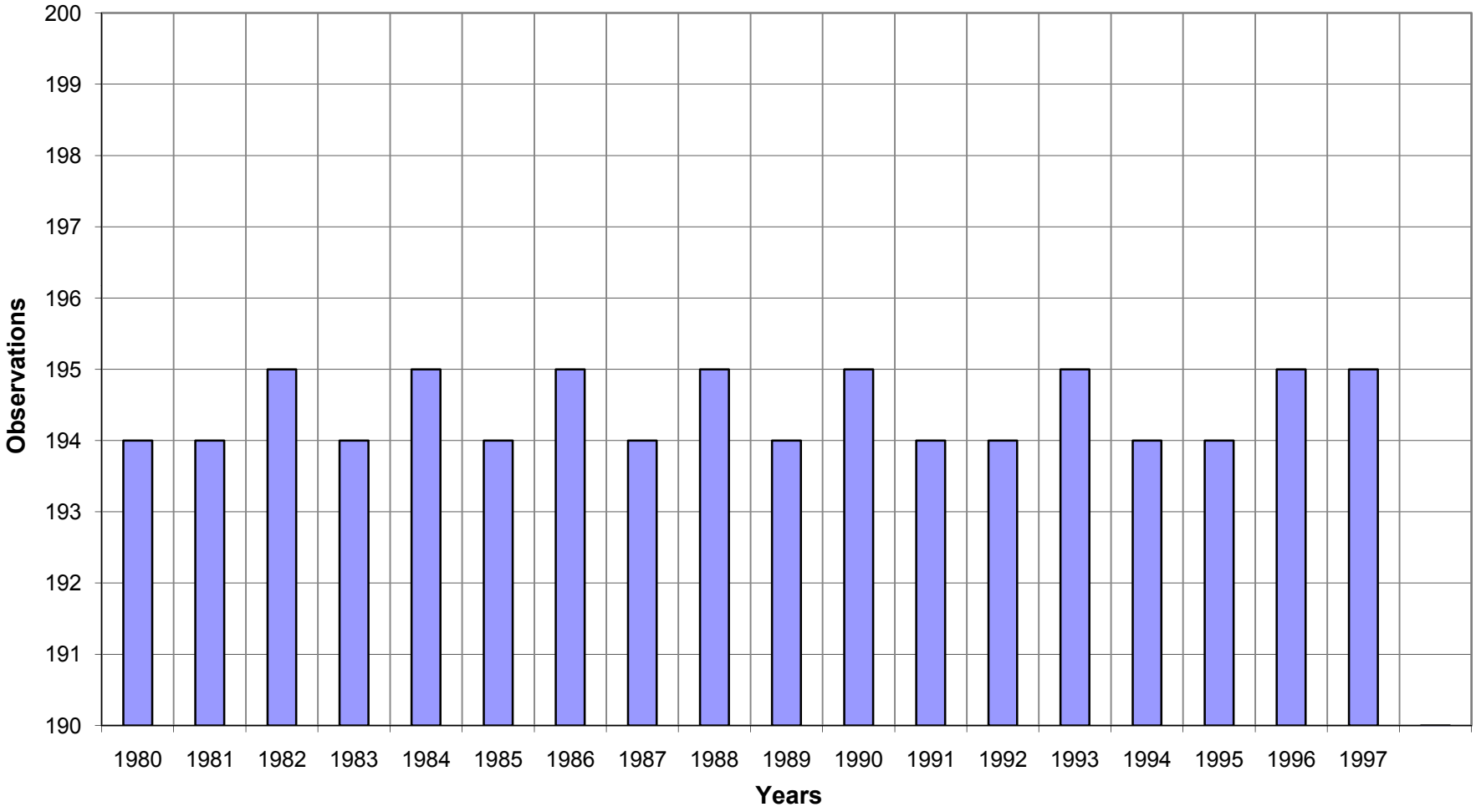
Graph 2: Number of Times PNW and Federal Hydro Generation for the 70 Water Years were Sampled Based on 3,500 Sampled Values



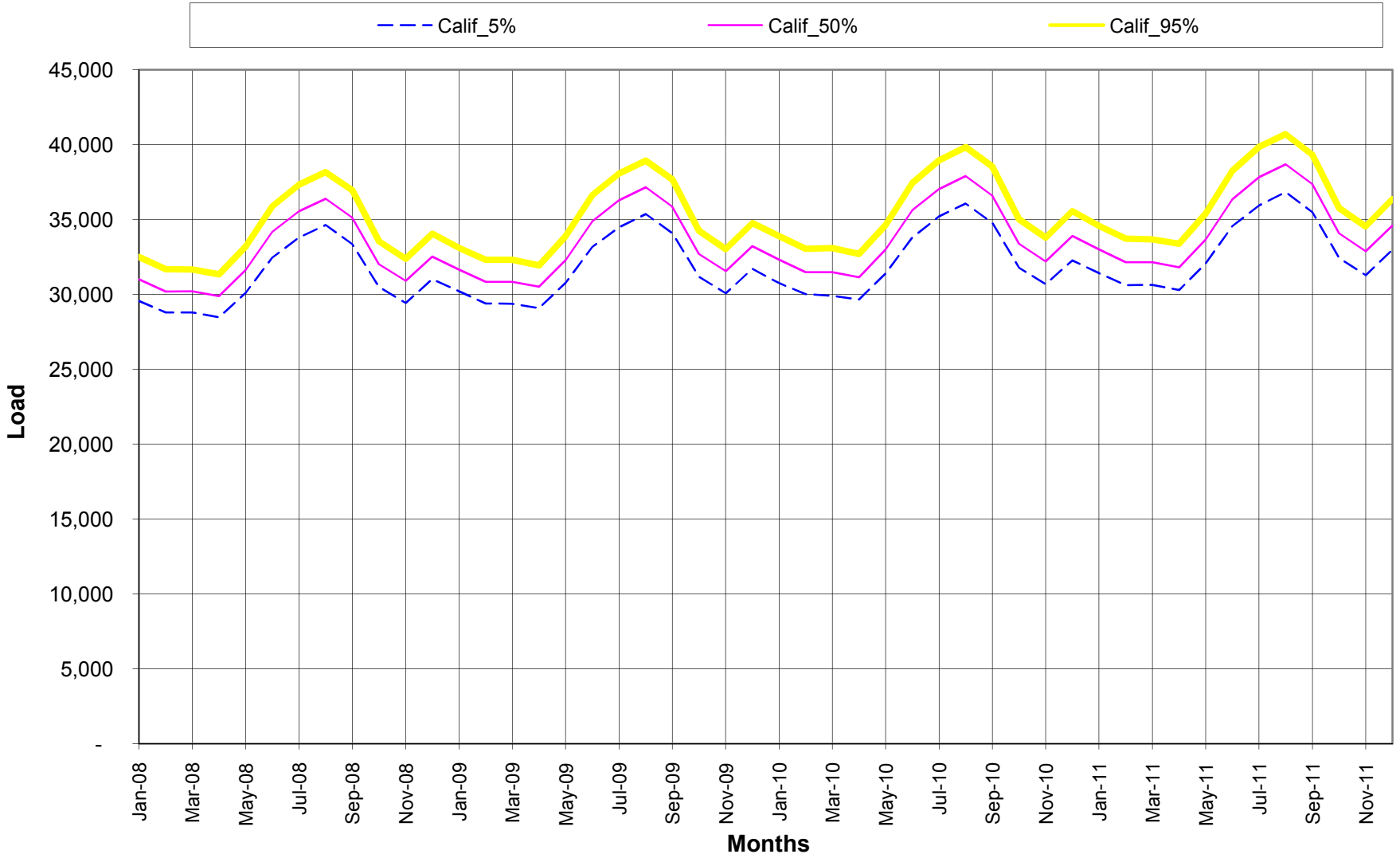
Graph 3: Simulated PNW Loads for CY 2008 - 2011



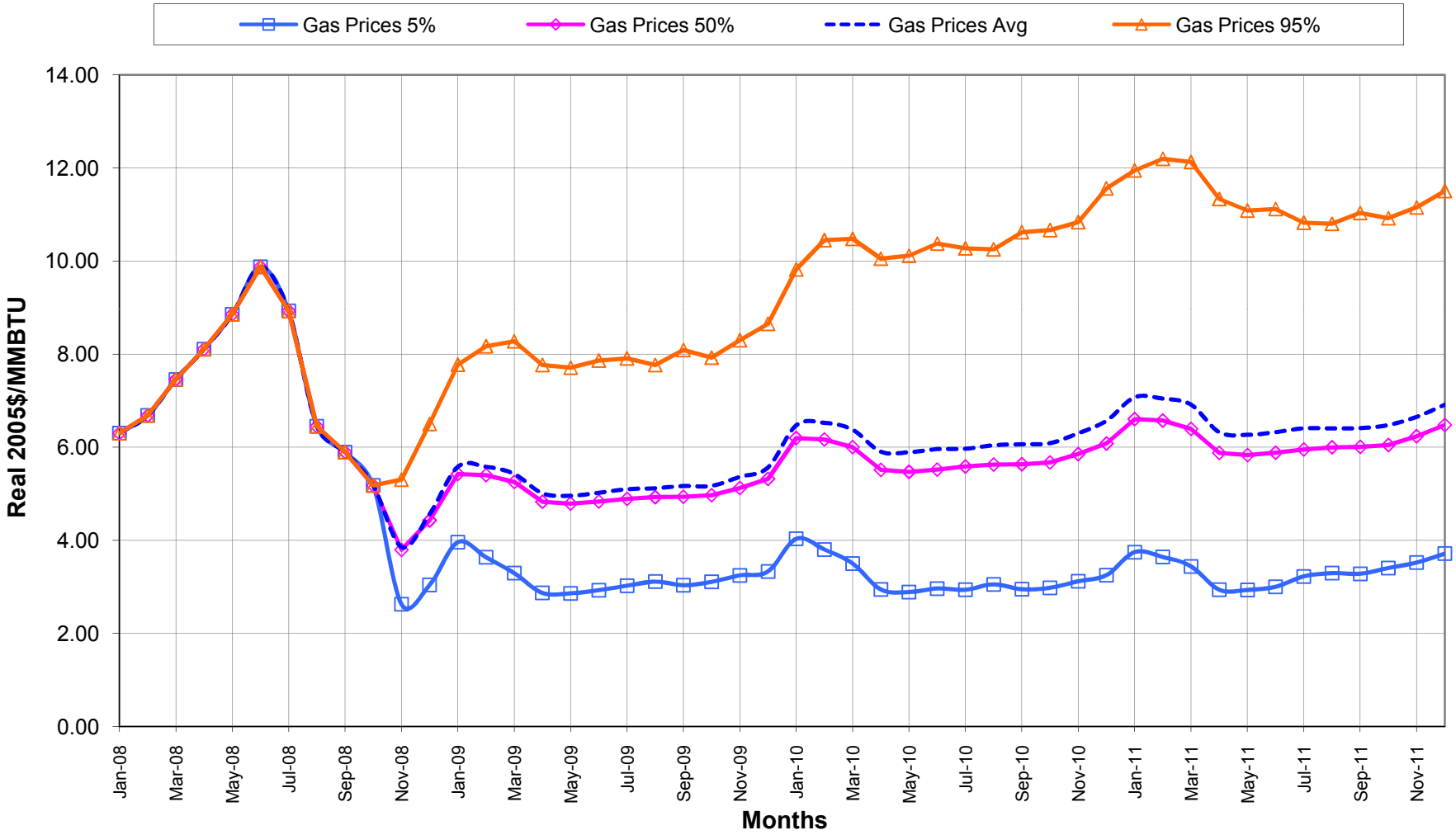
Graph 4: Number of Times California Hydro Generation for 18 Years were Sampled Based on 3,500 Sampled Values



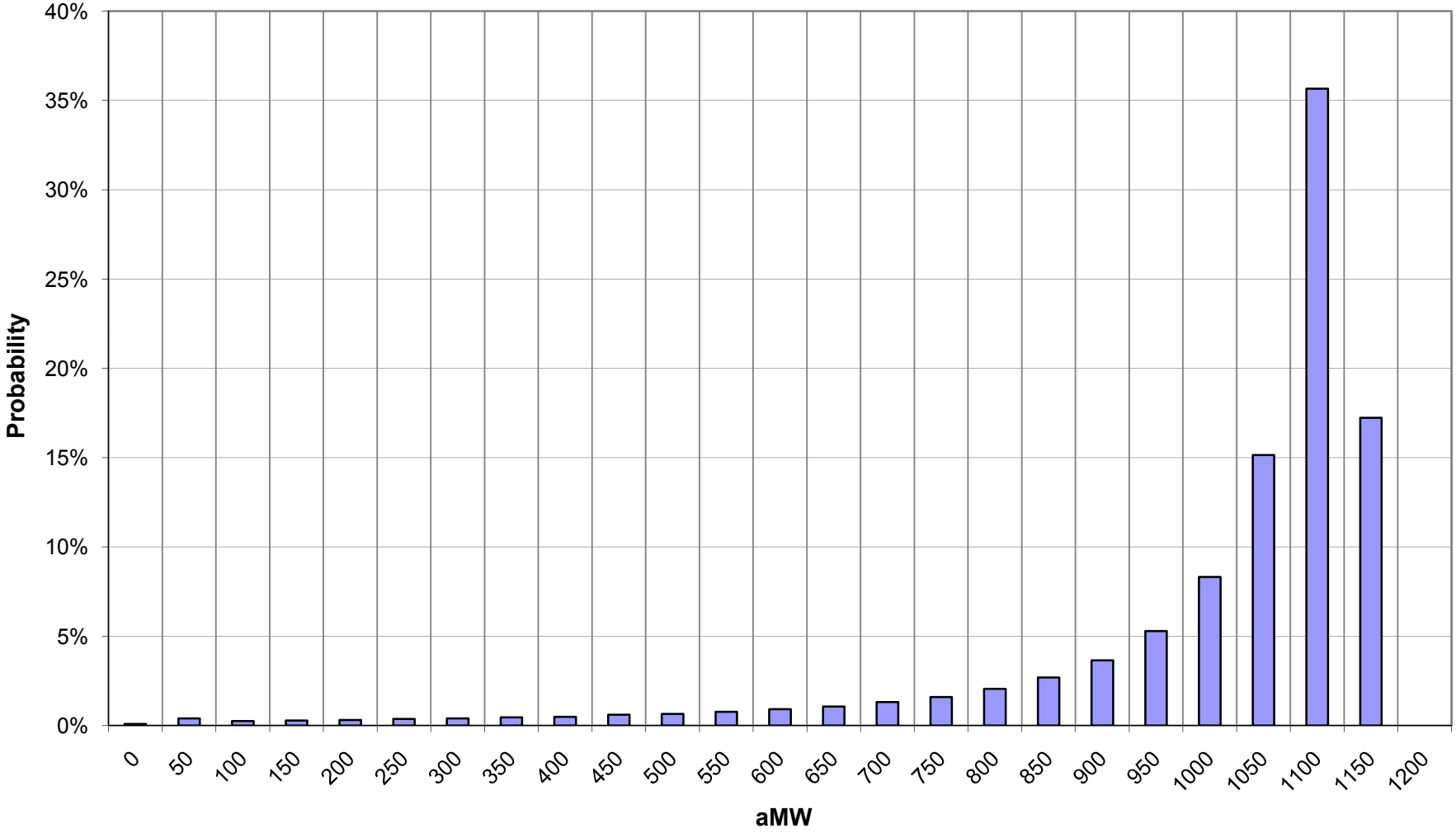
Graph 5: Simulated California Loads for CY 2008 - 2011



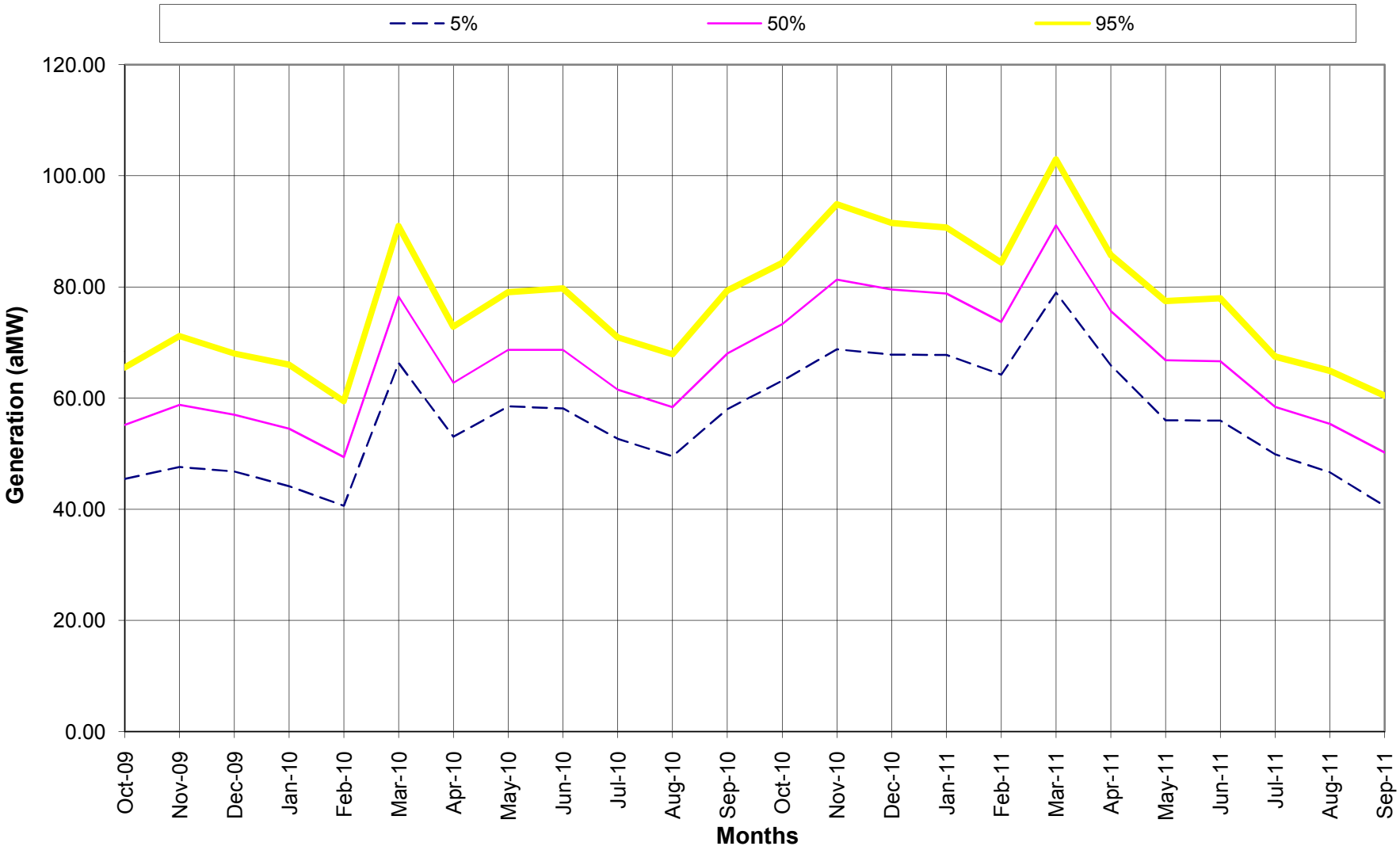
Graph 6: Simulated Natural Gas Prices for CY 2008 - 2011



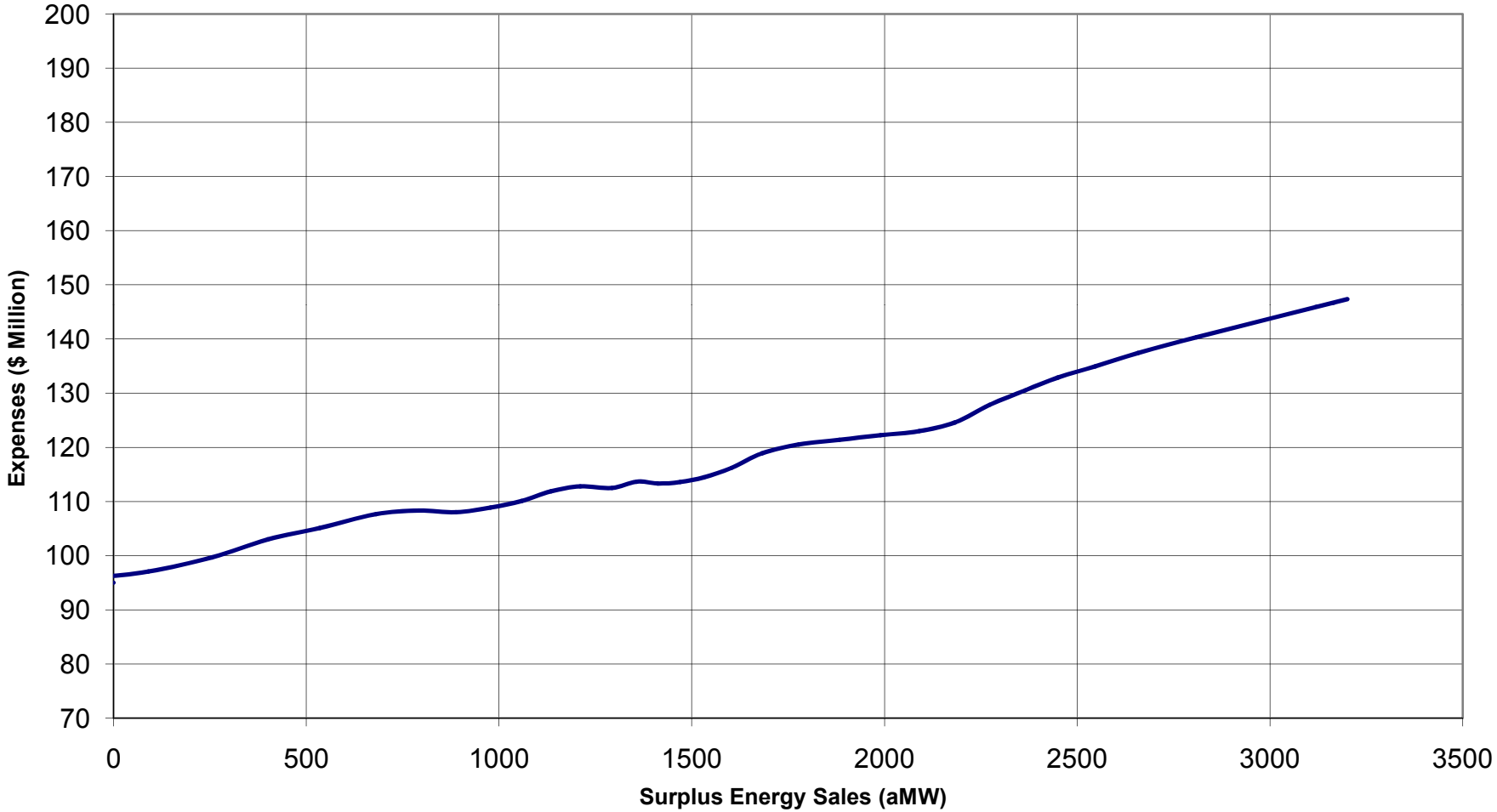
Graph 7: Simulated CGS Output Distribution for October 2010



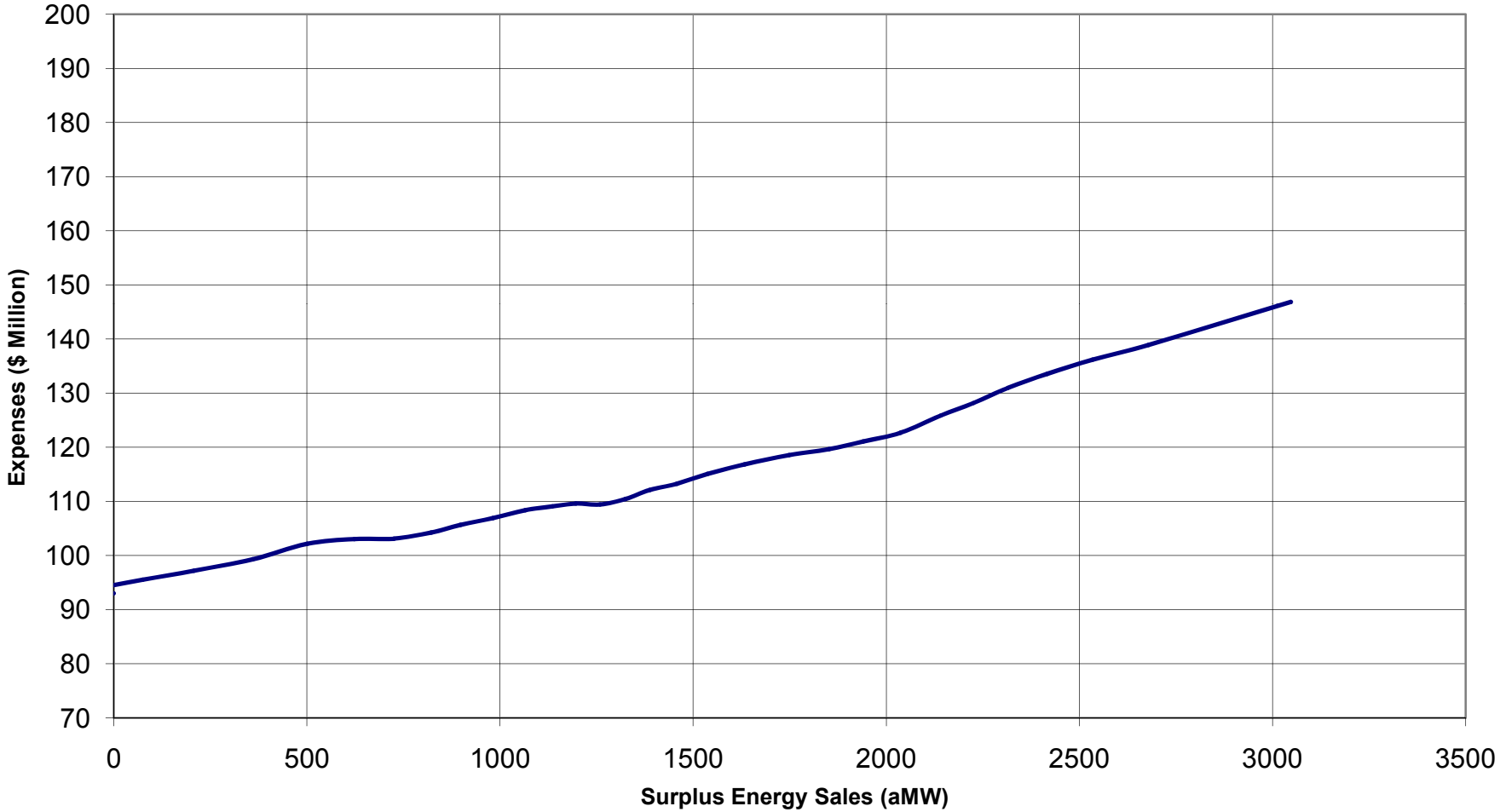
Graph 8: Simulated Total Wind Generation for FY 2010-2011



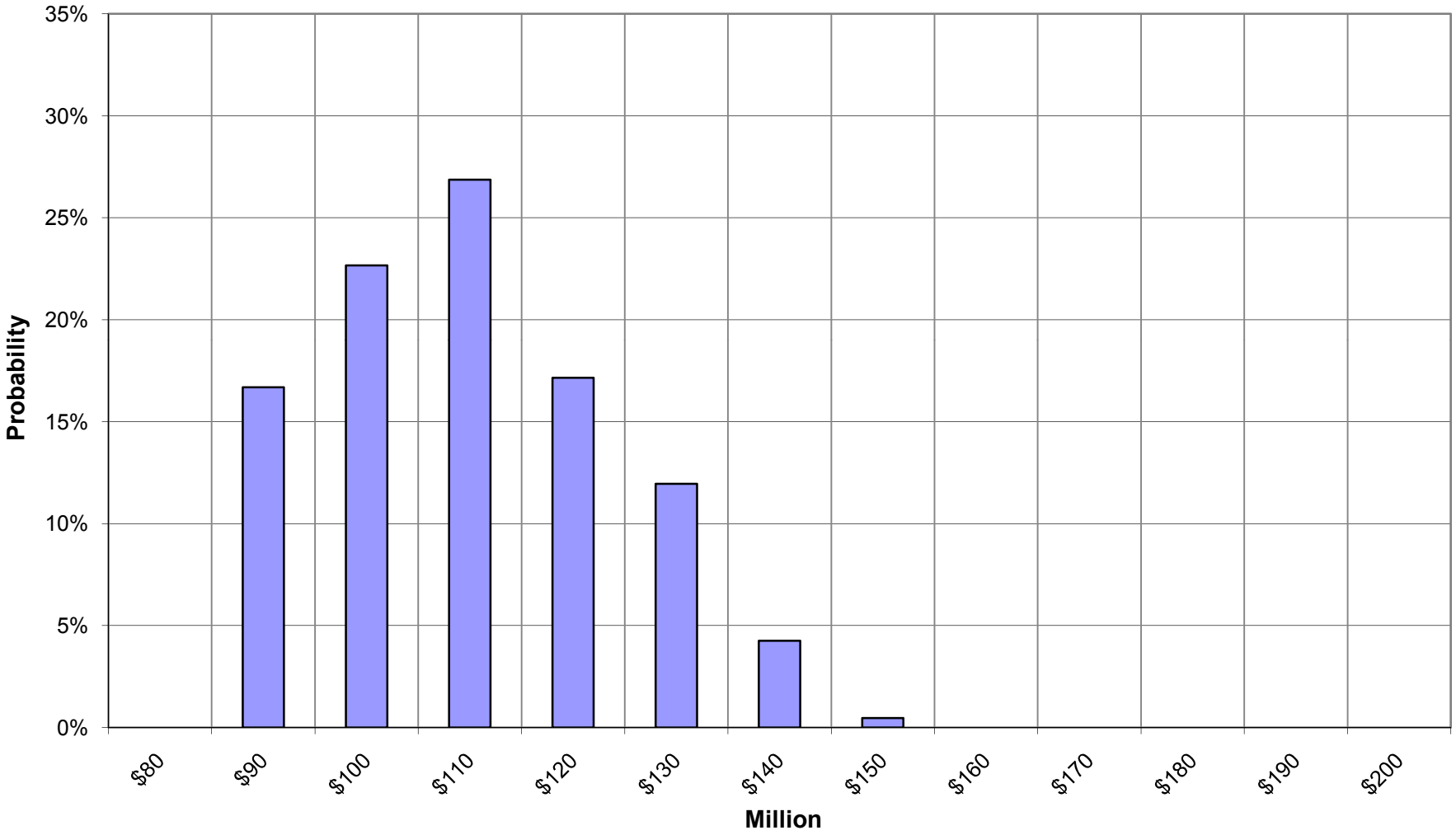
Graph 9: PS Transmission & Ancillary Services Expenses vs. Surplus Energy Sales For FY 2010



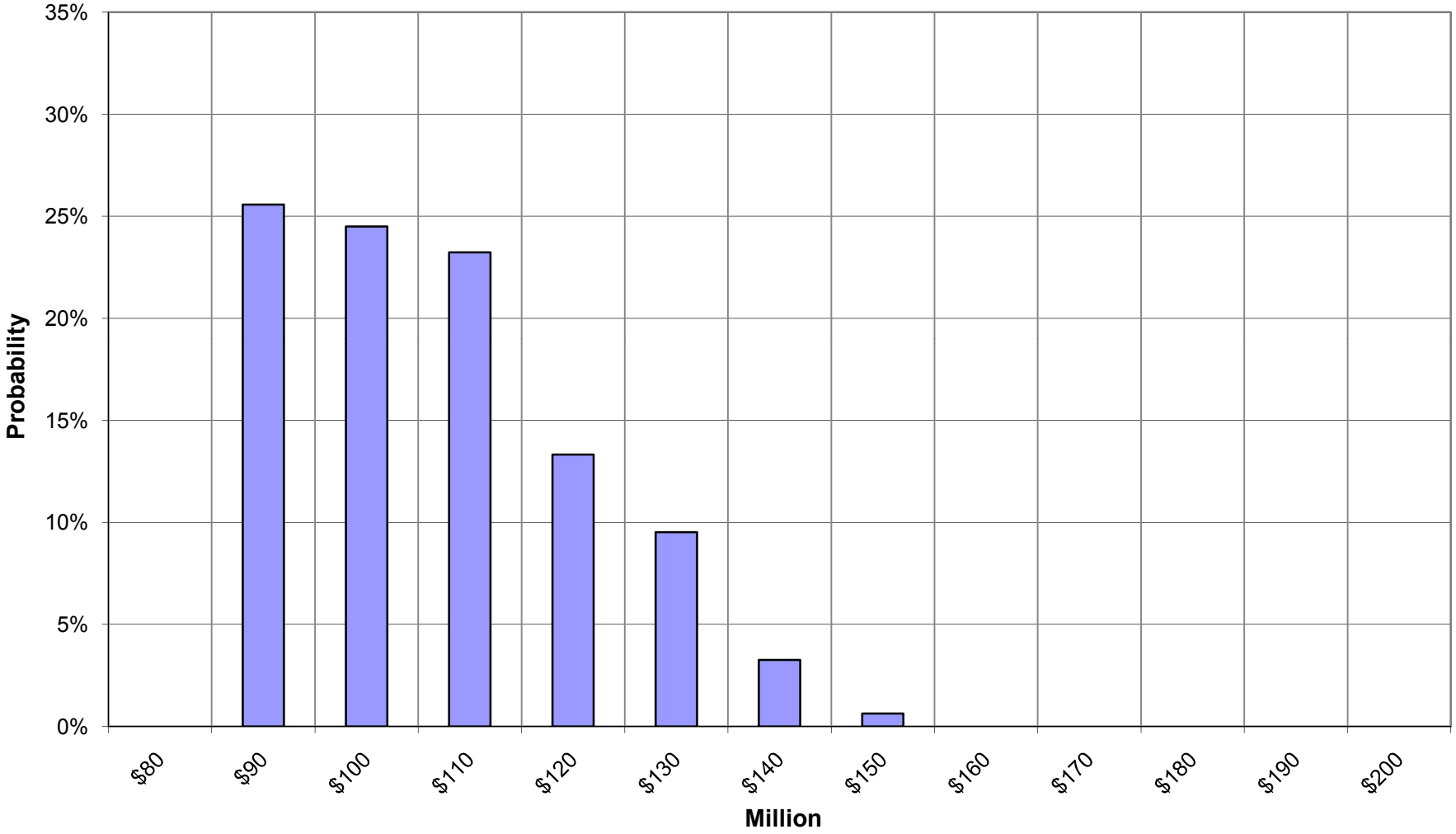
Graph 10: PS Transmission & Ancillary Services Expenses vs. Surplus Energy Sales For FY 2011



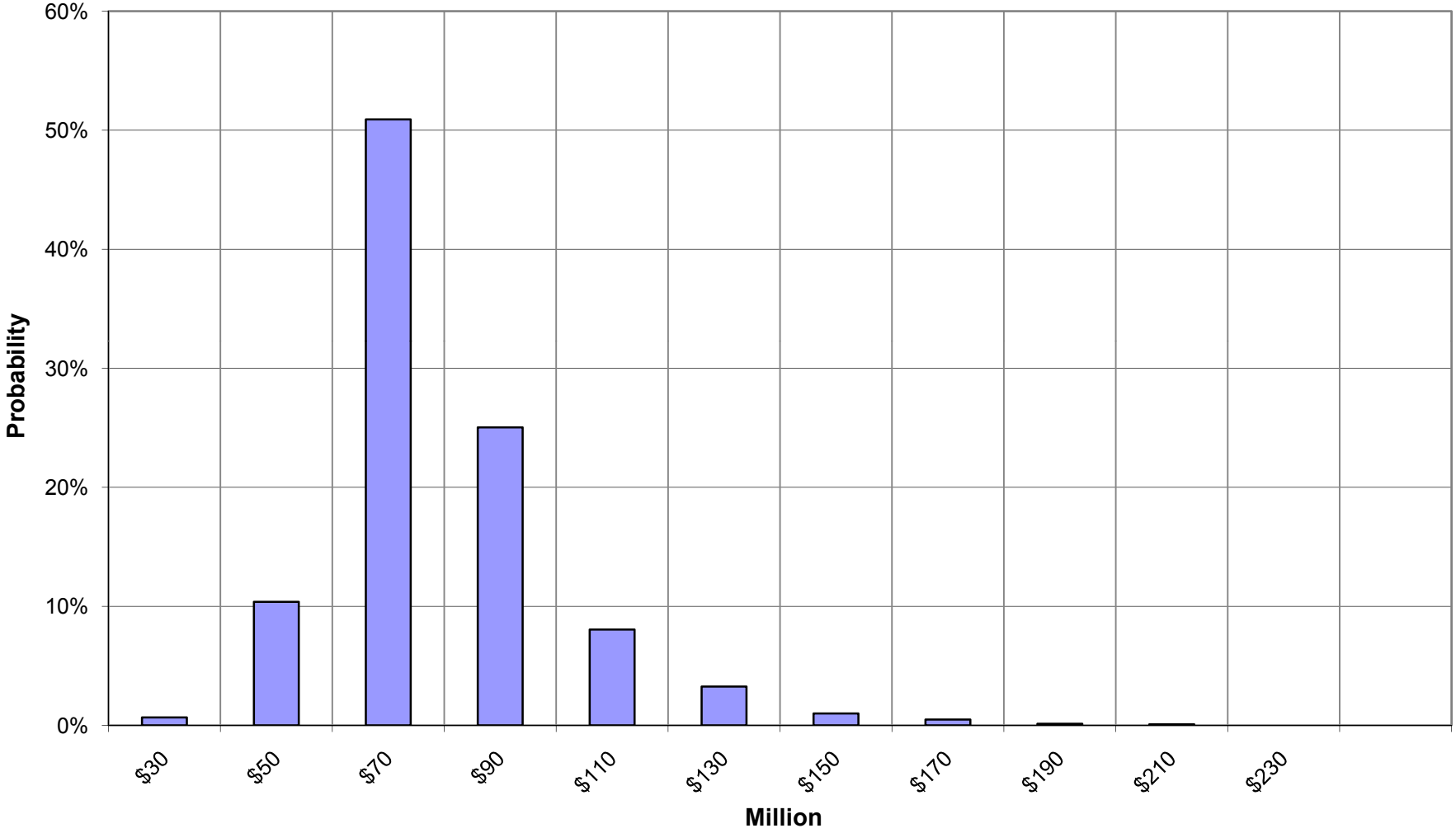
Graph 11: PS Transmission and Ancillary Service Expense Distribution for FY 2010



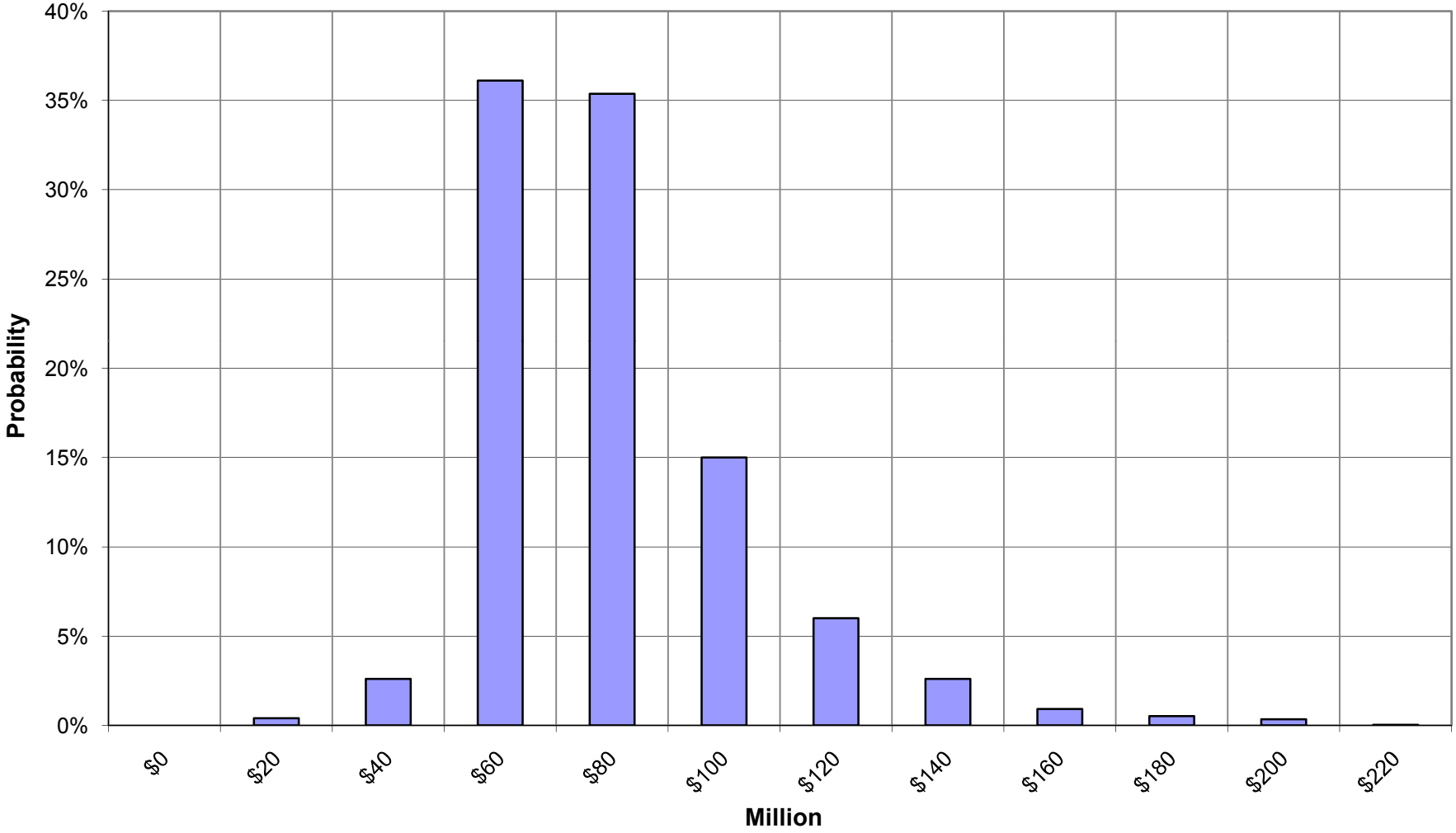
Graph 12: PS Transmission and Ancillary Service Expense Distribution for FY 2011



Graph 13: Simulated 4(h)(10)(C) Credits for FY 2010



Graph 14: Simulated 4(h)(10)(C) Credits for FY 2011



RISK ANALYSIS AND MITIGATION STUDY DOCUMENTATION

OPERATING RISK ANALYSIS TABLES

(TABLES 1-42)

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	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	**Table 1: PNW Hydro Generation (aMW) with Hydro Independents for FY 2010**													
2														
3														
4														
5	**Water Year**	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**June**	**July**	**Aug**	**Sep**	**Wtd Avg.**
6	**1929**	11,305	13,949	13,497	12,320	12,045	10,981	11,995	13,227	15,640	13,743	11,057	10,259	**12,501**
7	**1930**	11,191	13,451	13,030	12,686	12,402	11,285	12,111	12,718	13,008	13,730	10,766	10,320	**12,224**
8	**1931**	10,849	13,339	13,194	12,783	11,842	10,612	10,436	12,758	12,533	13,365	11,550	10,748	**12,005**
9	**1932**	10,091	12,432	13,140	12,106	9,662	13,160	18,983	22,463	20,295	15,505	11,788	10,909	**14,233**
10	**1933**	11,374	12,890	15,478	19,911	16,644	12,019	15,692	19,863	20,446	20,038	15,183	12,170	**15,978**
11	**1934**	13,430	17,507	22,656	23,109	21,934	19,360	20,932	20,525	18,456	14,856	10,673	10,509	**17,806**
12	**1935**	11,210	12,720	14,524	18,692	18,620	11,696	15,113	19,295	17,570	17,291	12,871	10,167	**14,963**
13	**1936**	11,051	13,471	13,090	12,131	12,498	11,163	15,525	20,704	19,823	14,015	11,821	9,632	**13,745**
14	**1937**	11,035	13,451	13,395	12,888	11,234	9,833	10,126	14,622	14,083	12,746	12,289	10,441	**12,188**
15	**1938**	11,184	13,362	15,022	18,800	15,673	15,452	19,412	23,095	19,614	16,351	11,199	11,062	**15,353**
16	**1939**	11,470	12,829	13,390	14,044	13,539	11,929	15,603	20,585	16,228	13,476	10,327	9,631	**13,588**
17	**1940**	11,440	13,575	14,599	14,049	14,955	15,067	15,803	17,471	16,977	12,084	10,077	10,303	**13,854**
18	**1941**	10,975	13,200	13,600	13,049	13,189	12,039	12,168	13,729	13,132	13,115	11,287	11,444	**12,573**
19	**1942**	10,373	13,114	15,589	15,096	14,289	12,981	14,154	17,520	18,932	17,873	12,568	10,652	**14,432**
20	**1943**	11,372	13,340	15,037	18,055	18,104	16,821	22,230	22,535	20,624	19,094	12,494	10,007	**16,631**
21	**1944**	10,877	13,662	13,687	12,674	12,249	12,027	11,742	12,209	12,043	11,762	11,088	11,007	**12,084**
22	**1945**	10,088	12,980	13,087	12,461	11,056	9,317	9,324	18,568	18,187	13,439	11,374	10,031	**12,503**
23	**1946**	10,903	14,034	15,340	17,023	14,443	17,640	20,539	23,107	20,216	18,222	12,698	11,191	**16,292**
24	**1947**	11,301	14,106	19,567	19,477	20,661	18,564	17,756	21,326	20,136	18,019	12,176	10,901	**16,983**
25	**1948**	15,910	17,679	16,630	21,604	15,751	15,285	17,552	23,114	20,891	19,993	15,149	12,049	**17,656**
26	**1949**	12,313	13,718	14,799	13,149	15,527	18,290	20,080	23,208	20,189	13,257	10,945	9,564	**15,413**
27	**1950**	11,282	13,652	14,795	18,269	20,316	20,156	19,965	21,586	20,166	20,215	14,124	11,495	**17,151**
28	**1951**	13,995	17,209	21,128	23,640	23,021	20,703	21,790	22,690	20,176	19,958	13,936	11,208	**19,105**
29	**1952**	14,929	15,637	16,955	21,139	17,507	13,637	20,558	23,259	20,770	17,055	12,485	10,259	**17,014**
30	**1953**	11,205	13,060	13,475	14,167	19,052	14,626	14,054	21,088	20,763	20,266	13,040	11,037	**15,465**
31	**1954**	12,286	14,282	16,435	18,263	20,726	15,649	17,707	22,185	20,129	20,225	18,085	15,102	**17,572**
32	**1955**	12,458	15,756	15,808	14,274	12,884	12,381	13,567	17,154	20,343	20,122	14,889	10,988	**15,069**
33	**1956**	13,284	17,235	20,342	23,886	20,417	19,582	21,155	22,971	20,752	20,234	13,724	11,327	**18,741**
34	**1957**	12,851	13,944	15,680	16,187	15,705	17,233	17,783	23,306	20,490	15,216	11,562	10,601	**15,883**
35	**1958**	11,375	13,145	14,479	16,660	17,537	16,122	17,356	23,231	20,498	15,022	11,867	10,361	**15,625**
36	**1959**	11,938	15,294	18,492	22,742	20,227	15,972	17,761	21,277	19,905	17,332	13,661	15,543	**17,494**
37	**1960**	16,984	19,442	18,933	19,605	17,870	15,833	20,242	20,000	19,992	16,990	12,240	11,029	**17,424**
38	**1961**	11,593	13,804	13,877	18,531	18,117	17,362	16,726	21,496	19,756	15,929	12,533	10,121	**15,809**
39	**1962**	10,791	13,318	15,589	16,898	16,262	12,804	18,948	21,045	19,995	14,380	12,105	10,029	**15,167**
40	**1963**	12,880	15,673	18,091	18,440	17,643	15,258	14,174	18,820	18,349	17,274	12,967	10,972	**15,876**
41	**1964**	11,117	13,828	14,763	16,323	14,860	11,983	14,305	20,166	20,995	20,089	14,258	12,714	**15,455**

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1	**Table 1: PNW Hydro Generation (aMW) with Hydro Independents for FY 2010**													
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5	**Water Year**	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**June**	**July**	**Aug**	**Sep**	**Wtd Avg.**
42	**1965**	13,284	14,970	20,202	23,756	22,885	18,707	19,171	22,731	20,314	16,991	14,344	11,746	**18,239**
43	**1966**	12,503	13,361	14,660	17,965	14,726	13,150	16,998	19,248	18,453	17,443	12,772	10,494	**15,155**
44	**1967**	11,182	12,886	15,599	21,930	21,035	16,139	13,400	19,990	20,785	19,996	13,599	11,163	**16,459**
45	**1968**	12,324	13,756	15,047	19,653	18,758	17,237	12,284	17,628	19,998	18,909	14,072	14,022	**16,131**
46	**1969**	13,880	17,201	17,101	23,078	20,202	16,154	21,540	23,304	20,377	18,661	11,743	10,758	**17,818**
47	**1970**	12,221	13,565	13,797	15,493	17,233	16,131	13,561	19,207	20,694	15,943	11,447	10,010	**14,928**
48	**1971**	11,274	13,248	15,303	22,749	22,724	19,891	20,138	23,027	20,850	20,751	15,376	11,855	**18,077**
49	**1972**	12,736	14,261	15,353	22,697	23,095	23,085	21,372	22,910	20,849	20,321	17,045	12,468	**18,831**
50	**1973**	12,322	13,775	16,522	16,265	13,682	13,195	11,596	14,919	14,011	13,722	10,167	9,973	**13,354**
51	**1974**	11,086	12,629	18,288	24,089	23,016	22,222	22,058	22,731	20,721	20,392	15,241	11,575	**18,655**
52	**1975**	10,981	13,364	14,129	17,828	16,427	16,522	14,208	22,052	20,821	20,676	13,304	12,139	**16,044**
53	**1976**	14,077	17,535	22,675	23,736	21,346	17,455	20,560	23,012	20,621	20,115	19,000	16,530	**19,718**
54	**1977**	12,185	13,866	13,562	12,573	12,519	11,698	10,348	11,323	10,775	11,824	11,619	10,667	**11,914**
55	**1978**	9,139	11,831	16,487	16,181	15,592	14,511	18,031	21,296	18,720	17,512	12,435	13,887	**15,465**
56	**1979**	12,273	14,012	13,387	14,513	15,335	15,958	13,424	20,237	15,117	13,081	10,054	9,765	**13,927**
57	**1980**	10,941	13,367	14,737	13,021	13,913	13,407	15,551	23,029	20,463	14,844	11,236	10,923	**14,620**
58	**1981**	11,279	14,115	19,881	22,346	18,527	14,960	13,301	18,044	20,071	19,745	15,480	11,211	**16,585**
59	**1982**	11,936	14,373	15,293	19,488	22,959	22,120	18,224	22,731	20,388	19,449	14,789	13,503	**17,910**
60	**1983**	13,780	14,940	16,529	21,478	18,169	21,891	18,760	21,487	20,708	20,428	14,980	12,295	**17,965**
61	**1984**	12,178	18,399	15,589	22,912	18,711	19,646	19,573	19,024	20,763	19,896	13,039	11,693	**17,610**
62	**1985**	12,128	15,281	14,628	16,019	13,814	14,085	18,827	21,693	17,274	12,643	9,729	10,595	**14,726**
63	**1986**	12,060	16,012	12,886	19,279	19,945	22,104	20,300	18,442	19,274	15,726	11,841	10,184	**16,476**
64	**1987**	11,080	14,825	14,490	13,766	15,778	12,515	14,097	17,420	16,030	13,260	10,196	9,659	**13,575**
65	**1988**	10,435	13,040	12,765	11,838	11,670	11,393	13,500	14,669	11,992	13,998	11,670	10,103	**12,262**
66	**1989**	10,135	12,717	14,332	13,387	14,020	13,392	19,030	20,441	17,345	13,800	10,234	10,147	**14,074**
67	**1990**	10,945	13,678	17,129	20,163	17,924	14,809	19,775	19,524	19,831	16,357	13,155	9,924	**16,089**
68	**1991**	10,733	17,559	17,192	21,317	21,281	14,090	16,457	21,497	19,551	19,795	14,553	10,632	**17,031**
69	**1992**	10,722	13,823	13,036	13,560	15,087	13,668	12,339	13,615	13,041	12,693	9,768	9,179	**12,528**
70	**1993**	10,513	13,000	13,460	12,499	11,810	12,164	13,975	19,575	14,831	14,834	12,076	9,581	**13,208**
71	**1994**	10,470	13,896	13,499	13,645	14,506	12,611	13,790	14,774	13,036	13,513	10,120	9,448	**12,764**
72	**1995**	10,340	12,261	14,668	15,173	17,939	17,854	15,812	19,288	19,032	17,177	12,342	10,637	**15,196**
73	**1996**	12,709	19,645	23,149	23,752	23,040	22,516	21,380	23,029	20,359	20,088	13,922	11,370	**19,566**
74	**1997**	12,128	14,021	16,958	23,990	23,027	22,071	21,280	23,033	20,704	20,465	14,743	14,076	**18,855**
75	**1998**	17,021	16,187	14,990	19,338	18,721	15,776	15,068	19,945	20,599	17,223	12,164	10,753	**16,473**
76	**50 WY Average**	**11,958**	**14,207**	**15,798**	**17,662**	**16,834**	**15,218**	**16,573**	**19,926**	**18,802**	**16,911**	**12,860**	**11,261**	**15,663**
77	**70 WY Average**	**11,882**	**14,364**	**15,693**	**17,637**	**16,970**	**15,542**	**16,616**	**19,826**	**18,579**	**16,779**	**12,702**	**11,125**	**15,637**
78	**Hours**	**744**	**721**	**744**	**744**	**672**	**743**	**720**	**744**	**720**	**744**	**744**	**720**	**8,760**

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	**Table 2: PNW Hydro Generation (aMW) with Hydro Independents for FY 2011**													
2														
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4														
5	**Water Year**	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**June**	**July**	**Aug**	**Sep**	**Wtd Avg.**
6	**1929**	11,320	13,968	13,500	12,321	12,046	11,255	11,778	13,216	15,621	13,736	11,051	10,260	**12,506**
7	**1930**	11,205	13,468	13,031	12,688	12,392	11,280	12,102	12,711	12,998	13,730	10,767	10,323	**12,224**
8	**1931**	10,865	13,361	13,197	12,783	11,839	10,607	10,427	12,742	12,521	13,366	11,552	10,751	**12,005**
9	**1932**	10,108	12,450	13,143	12,102	9,657	13,536	18,518	22,422	21,625	15,496	11,790	10,912	**14,334**
10	**1933**	11,390	12,880	15,472	19,882	16,621	12,015	15,692	19,468	21,796	20,340	15,184	12,169	**16,076**
11	**1934**	13,432	17,491	22,907	23,505	22,302	19,319	20,719	20,064	18,034	15,318	10,667	10,506	**17,831**
12	**1935**	11,223	12,724	14,518	18,679	18,594	11,692	15,111	19,185	17,545	17,254	12,923	10,171	**14,951**
13	**1936**	11,069	13,493	13,094	12,128	12,498	11,553	15,113	20,671	19,792	14,018	11,815	9,635	**13,742**
14	**1937**	11,049	13,469	13,397	12,890	11,235	9,829	10,118	14,604	14,043	12,729	12,285	10,444	**12,184**
15	**1938**	11,201	13,370	15,013	18,787	15,654	15,449	19,342	22,589	19,578	16,352	11,197	11,065	**15,300**
16	**1939**	11,485	12,847	13,387	14,039	13,538	11,923	15,596	20,469	16,217	13,467	10,328	9,629	**13,578**
17	**1940**	11,457	13,594	14,594	14,046	14,948	15,057	15,796	17,462	16,973	12,083	10,075	10,305	**13,854**
18	**1941**	10,993	13,219	13,599	13,048	13,188	12,038	12,168	13,723	13,127	13,116	11,290	11,447	**12,576**
19	**1942**	10,381	13,125	15,575	15,095	14,288	12,980	14,148	17,511	18,917	17,830	12,623	10,650	**14,430**
20	**1943**	11,387	13,350	15,031	18,045	18,077	16,816	22,260	22,085	21,968	19,029	12,547	10,004	**16,703**
21	**1944**	10,892	13,681	13,688	12,962	12,226	12,005	11,491	12,204	12,032	11,751	11,086	11,004	**12,085**
22	**1945**	10,101	13,001	13,090	12,456	11,262	9,108	9,322	18,552	18,176	13,440	11,364	10,031	**12,501**
23	**1946**	10,916	14,051	15,336	17,008	14,439	17,636	20,457	22,653	20,181	18,176	12,751	11,185	**16,244**
24	**1947**	11,314	14,118	19,523	19,470	20,622	18,549	17,748	21,303	21,162	17,971	12,217	10,903	**17,057**
25	**1948**	15,886	17,669	16,628	21,575	15,727	15,280	17,541	23,354	22,224	20,320	15,194	12,051	**17,809**
26	**1949**	12,325	13,734	14,800	13,149	15,505	18,253	19,988	23,254	20,997	13,247	10,942	9,560	**15,472**
27	**1950**	11,297	13,659	14,791	18,260	20,282	20,111	19,933	21,178	21,497	20,147	14,166	11,498	**17,216**
28	**1951**	14,002	17,193	21,070	24,042	23,369	19,360	21,597	22,173	20,229	20,297	13,979	11,204	**19,023**
29	**1952**	14,926	15,652	16,955	21,114	17,484	13,632	20,481	23,237	21,650	17,007	12,537	10,255	**17,075**
30	**1953**	11,220	13,080	13,479	14,151	19,021	14,620	14,184	20,885	22,130	20,583	13,084	11,039	**15,601**
31	**1954**	12,301	14,297	16,423	18,251	20,693	15,641	17,702	21,741	21,474	20,532	17,854	15,148	**17,652**
32	**1955**	12,471	15,773	15,811	14,274	12,883	12,551	13,566	17,151	21,698	20,441	14,958	10,982	**15,229**
33	**1956**	13,284	17,217	20,281	23,811	20,386	19,547	21,211	22,808	22,103	20,546	13,773	11,323	**18,854**
34	**1957**	12,863	13,961	15,674	16,189	15,704	17,226	17,777	23,632	21,859	15,216	11,557	10,597	**16,023**
35	**1958**	11,391	13,164	14,477	16,647	17,506	16,120	17,347	23,592	21,836	15,018	11,862	10,362	**15,763**
36	**1959**	11,955	15,301	18,464	22,688	20,194	15,969	17,718	20,834	21,281	17,283	13,707	15,514	**17,555**
37	**1960**	16,956	19,397	18,909	19,601	17,843	15,831	20,146	19,885	21,242	16,993	12,238	11,016	**17,497**
38	**1961**	11,608	13,811	13,876	18,517	18,079	17,353	16,721	21,056	21,099	15,922	12,528	10,122	**15,877**
39	**1962**	10,806	13,335	15,587	16,879	16,234	12,803	18,863	20,806	21,187	14,377	12,105	10,025	**15,236**
40	**1963**	12,895	15,677	18,063	18,433	17,608	15,250	14,170	18,811	18,340	17,238	13,016	10,971	**15,870**
41	**1964**	11,133	13,844	14,762	16,319	14,859	12,045	14,396	20,118	22,323	20,389	14,283	12,712	**15,602**

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	**Table 2: PNW Hydro Generation (aMW) with Hydro Independents for FY 2011**													
2														
3														
4														
5	**Water Year**	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**June**	**July**	**Aug**	**Sep**	**Wtd Avg.**
42	**1965**	13,294	14,988	20,145	23,821	22,709	18,691	19,203	22,239	21,421	16,940	14,391	11,740	**18,278**
43	**1966**	12,519	13,375	14,662	17,960	14,726	13,150	16,992	19,207	18,442	17,407	12,821	10,493	**15,153**
44	**1967**	11,198	12,902	15,593	21,898	20,999	16,134	13,397	19,950	22,123	19,884	13,612	11,166	**16,553**
45	**1968**	12,331	13,765	15,039	19,638	18,712	17,231	12,283	17,624	19,983	18,783	14,120	14,010	**16,117**
46	**1969**	13,887	17,207	17,100	23,025	20,152	16,183	21,491	23,132	21,166	18,531	11,791	10,750	**17,852**
47	**1970**	12,237	13,583	13,798	15,473	17,202	16,128	13,559	19,197	22,019	15,945	11,442	10,010	**15,034**
48	**1971**	11,290	13,262	15,302	22,695	22,971	19,302	20,063	23,074	22,195	21,047	15,381	11,852	**18,178**
49	**1972**	12,752	14,276	15,354	22,661	23,185	22,915	21,257	23,003	22,188	20,632	17,034	12,465	**18,957**
50	**1973**	12,338	13,791	16,513	16,261	13,679	13,196	11,597	14,914	14,000	13,720	10,160	9,967	**13,353**
51	**1974**	11,102	12,638	18,262	24,496	23,383	22,141	22,093	22,445	22,071	20,692	15,303	11,575	**18,831**
52	**1975**	10,995	13,383	14,124	17,808	16,400	16,517	14,208	21,634	22,171	20,982	13,349	12,136	**16,147**
53	**1976**	14,092	17,526	22,617	24,126	20,656	17,415	20,501	22,776	21,885	20,427	18,608	16,578	**19,767**
54	**1977**	12,200	13,885	13,565	12,861	12,495	11,675	10,087	11,317	10,762	11,825	11,610	10,664	**11,914**
55	**1978**	9,155	11,850	16,433	16,167	15,583	14,507	17,999	21,041	18,697	17,464	12,483	13,854	**15,433**
56	**1979**	12,288	14,027	13,382	14,512	15,317	15,954	13,419	20,225	15,093	13,072	10,050	9,764	**13,923**
57	**1980**	10,956	13,382	14,733	13,016	13,908	13,402	15,547	22,878	20,878	14,836	11,233	10,922	**14,641**
58	**1981**	11,288	14,130	19,858	22,192	18,502	15,109	13,296	18,031	21,428	19,496	15,476	11,210	**16,671**
59	**1982**	11,951	14,388	15,289	19,478	23,015	21,753	18,220	22,226	21,724	19,396	14,822	13,479	**17,947**
60	**1983**	13,794	14,955	16,523	21,445	18,143	21,781	18,731	21,438	20,676	20,755	15,036	12,294	**17,976**
61	**1984**	12,192	18,394	15,584	22,859	18,686	19,592	19,517	19,011	22,100	19,851	13,088	11,691	**17,703**
62	**1985**	12,141	15,295	14,623	16,009	13,808	14,081	18,792	21,657	17,251	12,634	9,724	10,592	**14,717**
63	**1986**	12,074	16,028	12,881	19,268	19,868	21,962	20,246	18,429	19,252	15,720	11,839	10,182	**16,451**
64	**1987**	11,094	14,840	14,485	13,763	15,775	12,509	14,093	17,408	16,010	13,253	10,192	9,657	**13,572**
65	**1988**	10,443	13,055	12,760	11,834	11,664	11,369	13,488	14,652	11,966	14,003	11,668	10,102	**12,256**
66	**1989**	10,149	12,772	14,327	13,382	14,015	13,385	19,001	20,328	17,322	13,793	10,230	10,146	**14,063**
67	**1990**	10,959	13,693	17,128	20,156	17,901	14,805	19,639	19,278	21,167	16,350	13,154	9,922	**16,166**
68	**1991**	10,747	17,563	17,192	21,286	21,242	14,085	16,453	21,139	19,892	20,114	14,552	10,631	**17,051**
69	**1992**	10,734	13,835	13,033	13,560	15,083	13,664	12,338	13,603	13,024	12,687	9,765	9,177	**12,526**
70	**1993**	10,526	13,015	13,458	12,498	11,805	12,157	13,968	19,552	14,807	14,827	12,074	9,579	**13,204**
71	**1994**	10,477	13,912	13,495	13,642	14,502	12,606	13,785	14,759	13,011	13,506	10,116	9,446	**12,760**
72	**1995**	10,352	12,276	14,668	15,169	17,910	17,829	15,808	19,274	19,012	17,123	12,390	10,637	**15,190**
73	**1996**	12,724	19,617	23,426	24,154	23,393	22,422	21,442	22,558	21,694	20,403	13,938	11,369	**19,745**
74	**1997**	12,143	14,034	16,932	24,394	23,394	21,967	21,343	22,682	22,052	20,779	14,801	14,051	**19,024**
75	**1998**	17,010	16,202	14,986	19,326	18,697	15,772	15,064	19,919	21,947	17,171	12,212	10,752	**16,577**
76	**50 WY Average**	**11,970**	**14,217**	**15,793**	**17,694**	**16,833**	**15,188**	**16,520**	**19,794**	**19,492**	**16,981**	**12,868**	**11,261**	**15,712**
77	**70 WY Average**	**11,893**	**14,375**	**15,692**	**17,667**	**16,975**	**15,509**	**16,574**	**19,696**	**19,213**	**16,840**	**12,711**	**11,123**	**15,682**
78	**Hours**	**744**	**721**	**744**	**744**	**672**	**743**	**720**	**744**	**720**	**744**	**744**	**720**	**8,760**

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	**Table 3: Federal Hydro Generation (aMW) with Hydro Independents for FY 2010**													
2														
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4														
5	**Water Year**	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**June**	**July**	**Aug**	**Sep**	**Wtd Avg.**
6	**1929**	6,009	7,720	7,200	7,108	6,720	6,351	6,577	7,139	8,652	7,857	6,244	6,185	**6,979**
7	**1930**	6,507	7,997	7,154	7,260	6,971	6,539	6,824	6,848	7,136	7,888	6,293	6,228	**6,970**
8	**1931**	6,281	7,768	7,355	7,110	6,813	5,927	5,885	7,472	6,919	7,967	6,844	6,595	**6,914**
9	**1932**	5,728	7,081	7,226	6,426	5,097	7,501	11,471	14,057	11,147	8,857	6,665	6,738	**8,181**
10	**1933**	6,504	6,610	8,796	11,776	10,108	6,690	9,033	11,881	10,948	11,173	9,181	7,119	**9,152**
11	**1934**	7,140	9,674	13,302	13,433	12,975	11,424	12,790	12,383	10,962	8,919	6,025	6,407	**10,437**
12	**1935**	6,266	6,218	7,860	10,945	11,085	6,580	8,930	11,354	9,583	10,139	7,576	6,006	**8,534**
13	**1936**	6,314	7,800	7,121	6,580	7,381	6,342	8,968	12,397	11,282	8,336	6,813	5,826	**7,929**
14	**1937**	6,439	8,062	7,273	7,355	6,503	5,512	5,222	8,472	7,257	7,142	7,066	6,358	**6,894**
15	**1938**	6,395	7,103	8,416	10,765	9,261	9,186	11,650	13,702	11,408	9,494	6,267	6,832	**9,205**
16	**1939**	6,571	7,223	7,047	7,927	7,733	6,785	8,992	12,390	8,672	7,810	5,881	5,785	**7,735**
17	**1940**	6,632	8,068	8,474	7,966	8,371	8,858	9,418	10,703	10,098	6,706	5,721	6,304	**8,104**
18	**1941**	6,362	7,716	8,034	7,516	7,423	7,101	7,014	8,171	7,408	7,744	6,785	7,133	**7,367**
19	**1942**	5,796	7,600	9,008	9,001	8,232	7,803	8,093	10,547	11,019	10,851	7,725	6,259	**8,499**
20	**1943**	6,495	7,142	8,178	10,492	10,914	10,124	13,130	13,559	11,109	10,723	7,111	5,681	**9,546**
21	**1944**	5,982	7,673	7,133	7,237	6,917	6,705	6,492	6,858	6,300	6,849	6,655	6,784	**6,798**
22	**1945**	5,799	7,670	7,252	6,654	5,975	5,074	4,799	11,095	10,359	7,727	6,490	5,992	**7,082**
23	**1946**	6,008	7,739	8,704	9,270	8,227	10,552	12,440	13,406	11,337	10,607	7,377	6,693	**9,370**
24	**1947**	6,233	7,688	11,498	11,692	12,045	10,932	10,091	13,126	11,746	10,862	7,025	6,482	**9,945**
25	**1948**	8,718	9,968	9,710	13,116	9,237	9,108	10,297	13,923	10,698	11,970	9,085	6,978	**10,251**
26	**1949**	6,764	7,420	8,348	7,341	9,125	11,265	11,898	13,895	11,502	7,268	5,936	5,457	**8,846**
27	**1950**	6,327	7,098	8,070	10,370	12,246	11,901	11,460	12,884	10,552	11,433	8,001	6,702	**9,741**
28	**1951**	7,524	9,198	11,914	14,160	13,430	12,450	12,866	13,356	11,304	11,765	8,055	6,465	**11,033**
29	**1952**	8,116	8,541	9,833	12,857	10,039	7,803	12,427	13,902	12,005	10,005	7,262	5,949	**9,896**
30	**1953**	6,392	7,468	7,223	7,346	11,320	8,575	7,847	12,477	11,613	11,979	7,485	6,518	**8,839**
31	**1954**	6,752	7,791	9,231	10,142	12,369	8,859	10,011	13,483	10,532	10,985	11,177	8,987	**10,015**
32	**1955**	6,777	8,575	9,113	7,753	7,120	7,068	7,485	10,353	11,233	11,098	8,992	6,221	**8,495**
33	**1956**	6,990	9,332	11,778	14,455	12,017	11,568	12,106	13,295	10,570	11,764	7,860	6,628	**10,697**
34	**1957**	6,996	7,455	8,679	9,099	8,782	9,959	10,551	14,282	11,111	8,959	6,476	6,373	**9,064**
35	**1958**	6,393	7,400	8,003	9,418	9,908	9,635	10,080	14,155	11,792	8,843	6,731	6,208	**9,042**
36	**1959**	6,689	8,256	10,727	13,914	12,096	9,332	10,031	12,589	10,588	9,729	7,942	9,380	**10,095**
37	**1960**	9,406	10,988	11,067	11,916	10,042	9,199	11,843	12,046	11,757	9,874	6,829	6,590	**10,129**
38	**1961**	6,528	7,297	7,922	10,574	10,358	10,352	9,752	13,264	11,115	9,447	7,355	6,016	**9,162**
39	**1962**	6,010	7,430	8,746	9,939	9,577	7,436	11,252	12,807	11,878	8,147	6,816	5,962	**8,824**
40	**1963**	7,308	8,550	10,488	10,846	9,775	9,030	8,012	11,466	10,262	10,356	7,686	6,542	**9,198**
41	**1964**	6,079	7,459	8,425	9,021	8,575	6,563	7,937	12,198	11,593	11,738	8,591	7,426	**8,805**

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1	**Table 3: Federal Hydro Generation (aMW) with Hydro Independents for FY 2010**													
2														
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4														
5	**Water Year**	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**June**	**July**	**Aug**	**Sep**	**Wtd Avg.**
42	**1965**	7,466	8,348	11,848	14,612	13,745	11,262	11,218	13,576	12,141	9,734	8,553	6,772	**10,761**
43	**1966**	6,921	7,190	8,527	10,388	8,650	7,419	9,650	11,320	10,444	10,312	7,430	6,062	**8,697**
44	**1967**	6,217	6,936	8,756	12,972	12,672	9,375	7,088	11,704	11,281	12,026	8,090	6,707	**9,475**
45	**1968**	6,661	7,306	8,551	11,242	10,730	9,898	6,795	10,435	11,272	11,498	8,494	8,178	**9,252**
46	**1969**	7,539	9,504	9,902	14,089	12,456	9,578	12,561	13,600	11,560	11,276	6,833	6,262	**10,418**
47	**1970**	6,796	7,450	7,781	8,412	9,920	9,660	7,718	11,245	12,185	9,347	6,429	5,953	**8,566**
48	**1971**	6,339	7,320	8,407	13,412	13,813	11,794	11,795	13,527	10,952	11,768	9,367	6,933	**10,437**
49	**1972**	6,965	7,593	8,850	13,327	13,914	13,370	11,838	13,561	10,678	11,091	10,347	7,131	**10,711**
50	**1973**	6,769	7,520	9,321	9,008	7,599	7,658	6,134	8,666	7,662	7,765	5,809	5,850	**7,487**
51	**1974**	6,256	6,672	10,700	14,024	12,934	13,285	12,916	13,428	10,701	11,140	9,141	6,664	**10,651**
52	**1975**	5,988	7,262	7,734	9,734	9,457	9,878	7,870	13,308	11,234	11,941	7,570	7,135	**9,097**
53	**1976**	7,713	9,668	13,108	14,105	12,715	10,351	12,246	13,676	11,762	11,675	11,634	10,051	**11,556**
54	**1977**	6,811	7,782	7,263	7,243	7,211	6,785	5,518	6,069	5,600	7,002	6,945	6,564	**6,733**
55	**1978**	5,143	6,468	9,488	9,451	9,095	8,574	10,487	12,704	10,866	10,267	7,168	8,280	**8,998**
56	**1979**	7,014	7,939	7,191	8,467	8,955	9,222	7,663	12,424	7,805	7,346	5,798	5,779	**7,966**
57	**1980**	6,325	7,854	8,363	7,050	7,559	7,697	8,777	14,038	11,665	8,591	6,351	6,518	**8,402**
58	**1981**	6,445	7,798	11,313	13,648	10,342	8,439	7,440	10,734	11,290	12,131	9,718	6,519	**9,661**
59	**1982**	6,585	8,001	8,660	11,155	13,806	13,285	10,687	13,872	11,270	11,259	9,058	8,058	**10,457**
60	**1983**	7,715	8,282	9,325	12,240	10,432	13,243	11,111	12,923	11,961	11,977	8,997	7,111	**10,452**
61	**1984**	6,776	10,230	8,796	13,287	10,459	11,798	12,014	11,705	12,064	11,987	7,555	6,986	**10,303**
62	**1985**	6,664	8,268	8,521	9,444	7,700	8,187	11,257	12,960	8,902	7,005	5,388	6,131	**8,372**
63	**1986**	6,669	9,008	7,452	10,808	12,019	13,196	11,958	10,983	11,029	9,437	7,012	5,878	**9,602**
64	**1987**	6,073	8,102	7,779	7,773	8,741	6,896	8,094	10,315	9,489	7,803	5,854	5,641	**7,704**
65	**1988**	6,089	7,694	6,794	6,873	6,627	6,377	7,567	8,265	6,318	8,393	6,818	6,161	**7,002**
66	**1989**	5,827	6,842	7,811	7,393	8,163	7,559	11,344	12,230	9,596	7,457	5,611	5,975	**7,977**
67	**1990**	6,247	7,532	9,657	11,451	10,546	8,486	11,958	11,523	11,256	9,283	7,690	5,827	**9,279**
68	**1991**	5,871	9,388	9,932	12,945	12,703	7,762	9,445	13,124	11,260	11,543	8,861	6,136	**9,901**
69	**1992**	6,133	7,558	6,873	7,535	8,636	7,699	6,545	7,875	7,396	7,408	5,741	5,494	**7,065**
70	**1993**	6,139	7,588	7,396	7,276	6,491	6,860	7,670	12,001	8,269	8,623	7,068	5,542	**7,589**
71	**1994**	6,010	8,146	7,801	7,882	8,005	7,009	7,612	8,451	7,126	7,877	5,841	5,653	**7,280**
72	**1995**	5,999	6,765	8,033	8,502	10,144	10,504	8,973	11,560	10,767	10,205	7,044	6,408	**8,736**
73	**1996**	7,090	10,953	13,198	14,141	13,172	13,386	12,333	13,899	11,874	11,946	8,501	6,544	**11,416**
74	**1997**	6,622	7,484	9,812	14,015	13,491	13,155	12,426	13,474	10,941	11,658	8,761	8,196	**10,826**
75	**1998**	9,446	8,883	8,420	10,941	10,487	8,978	8,328	12,129	11,676	10,098	7,114	6,363	**9,403**
76	**50 WY Average**	**6,656**	**7,836**	**8,931**	**10,216**	**9,794**	**8,900**	**9,550**	**11,855**	**10,436**	**9,797**	**7,517**	**6,687**	**9,012**
77	**70 WY Average**	**6,636**	**7,944**	**8,852**	**10,195**	**9,831**	**9,067**	**9,582**	**11,818**	**10,339**	**9,741**	**7,437**	**6,590**	**9,000**
78	**Hours**	**744**	**721**	**744**	**744**	**672**	**743**	**720**	**744**	**720**	**744**	**744**	**720**	**8,760**

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	**Table 4: Federal Hydro Generation (aMW) with Hydro Independents for FY 2011**													
2														
3														
4														
5	**Water Year**	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**June**	**July**	**Aug**	**Sep**	**Wtd Avg.**
6	**1929**	6,015	7,728	7,208	7,115	6,726	6,546	6,411	7,144	8,658	7,865	6,251	6,191	**6,988**
7	**1930**	6,514	8,006	7,161	7,268	6,976	6,544	6,830	6,853	7,143	7,896	6,300	6,233	**6,976**
8	**1931**	6,288	7,777	7,363	7,117	6,819	5,932	5,890	7,478	6,927	7,977	6,852	6,602	**6,921**
9	**1932**	5,734	7,088	7,233	6,432	5,101	7,774	11,135	14,048	12,526	8,866	6,672	6,744	**8,294**
10	**1933**	6,510	6,616	8,804	11,756	10,096	6,695	9,042	11,504	12,336	11,515	9,175	7,126	**9,263**
11	**1934**	7,147	9,657	13,591	13,858	13,355	11,401	12,597	11,937	10,612	9,273	6,031	6,413	**10,473**
12	**1935**	6,273	6,224	7,867	10,946	11,074	6,586	8,938	11,263	9,593	10,120	7,622	6,012	**8,532**
13	**1936**	6,320	7,809	7,128	6,586	7,388	6,618	8,694	12,407	11,294	8,345	6,821	5,831	**7,936**
14	**1937**	6,445	8,071	7,280	7,363	6,509	5,517	5,227	8,479	7,263	7,149	7,074	6,364	**6,900**
15	**1938**	6,401	7,110	8,424	10,765	9,253	9,192	11,600	13,223	11,418	9,505	6,273	6,838	**9,165**
16	**1939**	6,577	7,231	7,054	7,935	7,741	6,790	9,000	12,300	8,682	7,818	5,888	5,790	**7,734**
17	**1940**	6,639	8,077	8,483	7,974	8,378	8,863	9,426	10,713	10,110	6,714	5,728	6,309	**8,112**
18	**1941**	6,368	7,724	8,041	7,523	7,429	7,108	7,021	8,179	7,415	7,753	6,793	7,139	**7,374**
19	**1942**	5,801	7,607	9,015	9,009	8,239	7,810	8,099	10,557	11,029	10,831	7,771	6,265	**8,508**
20	**1943**	6,501	7,148	8,185	10,490	10,900	10,131	12,985	13,134	12,360	10,700	7,156	5,685	**9,604**
21	**1944**	5,987	7,680	7,140	7,446	6,902	6,691	6,307	6,864	6,305	6,856	6,663	6,790	**6,802**
22	**1945**	5,804	7,679	7,260	6,660	6,124	4,936	4,803	11,104	10,368	7,735	6,497	5,997	**7,087**
23	**1946**	6,014	7,747	8,712	9,267	8,233	10,559	12,371	12,982	11,348	10,588	7,422	6,699	**9,335**
24	**1947**	6,238	7,695	11,486	11,691	12,021	10,929	10,100	13,127	12,461	10,828	7,070	6,488	**10,003**
25	**1948**	8,704	9,955	9,719	13,094	9,225	9,116	10,295	14,032	12,077	12,324	9,133	6,984	**10,404**
26	**1949**	6,770	7,427	8,356	7,348	9,110	11,239	11,816	13,976	12,173	7,276	5,942	5,461	**8,902**
27	**1950**	6,333	7,105	8,077	10,370	12,223	11,874	11,442	12,498	11,730	11,412	8,047	6,707	**9,804**
28	**1951**	7,531	9,185	11,880	14,433	13,671	11,485	12,700	12,869	11,390	12,118	8,101	6,471	**10,975**
29	**1952**	8,112	8,549	9,842	12,835	10,025	7,809	12,358	13,758	12,666	9,984	7,307	5,954	**9,933**
30	**1953**	6,398	7,476	7,230	7,351	11,307	8,582	7,942	12,315	13,000	12,332	7,531	6,524	**8,983**
31	**1954**	6,758	7,798	9,240	10,142	12,347	8,866	10,018	13,059	11,917	11,336	10,961	9,018	**10,108**
32	**1955**	6,783	8,584	9,122	7,761	7,127	7,196	7,492	10,362	12,620	11,451	9,057	6,226	**8,660**
33	**1956**	6,996	9,319	11,743	14,388	11,994	11,543	12,164	13,165	11,967	12,075	7,906	6,633	**10,823**
34	**1957**	7,002	7,462	8,687	9,108	8,789	9,966	10,559	14,343	12,357	8,969	6,482	6,378	**9,178**
35	**1958**	6,399	7,408	8,010	9,416	9,894	9,643	10,083	14,390	12,829	8,853	6,738	6,213	**9,150**
36	**1959**	6,695	8,263	10,714	13,871	12,073	9,340	10,005	12,165	11,983	9,707	7,988	9,356	**10,167**
37	**1960**	9,392	10,954	11,055	11,917	10,030	9,207	11,762	11,955	12,673	9,885	6,836	6,596	**10,187**
38	**1961**	6,534	7,304	7,929	10,574	10,344	10,361	9,762	12,843	11,977	9,458	7,364	6,021	**9,201**
39	**1962**	6,015	7,437	8,754	9,938	9,563	7,443	11,179	12,592	12,777	8,155	6,823	5,967	**8,876**
40	**1963**	7,314	8,558	10,475	10,846	9,761	9,039	8,019	11,476	10,271	10,336	7,732	6,548	**9,203**
41	**1964**	6,085	7,466	8,433	9,030	8,583	6,616	8,009	12,164	12,498	12,081	8,606	7,433	**8,921**

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	**Table 4: Federal Hydro Generation (aMW) with Hydro Independents for FY 2011**													
2														
3														
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5	**Water Year**	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**June**	**July**	**Aug**	**Sep**	**Wtd Avg.**
42	**1965**	7,473	8,356	11,817	14,616	13,585	11,257	11,088	13,103	12,827	9,710	8,600	6,777	**10,755**
43	**1966**	6,928	7,197	8,535	10,387	8,658	7,426	9,658	11,305	10,455	10,293	7,476	6,068	**8,703**
44	**1967**	6,223	6,943	8,764	12,951	12,650	9,383	7,095	11,686	11,965	11,934	8,105	6,714	**9,523**
45	**1968**	6,667	7,312	8,559	11,243	10,716	9,906	6,802	10,445	11,283	11,385	8,538	8,174	**9,250**
46	**1969**	7,546	9,513	9,911	14,047	12,418	9,606	12,423	13,471	12,201	11,164	6,878	6,267	**10,441**
47	**1970**	6,803	7,458	7,789	8,408	9,907	9,668	7,725	11,254	13,061	9,356	6,436	5,958	**8,642**
48	**1971**	6,345	7,326	8,415	13,368	13,961	11,383	11,737	13,572	12,338	12,113	9,360	6,939	**10,554**
49	**1972**	6,971	7,599	8,858	13,297	13,934	13,235	11,771	13,586	12,057	11,442	10,338	7,137	**10,840**
50	**1973**	6,775	7,527	9,329	9,016	7,606	7,665	6,141	8,674	7,669	7,774	5,815	5,855	**7,494**
51	**1974**	6,262	6,677	10,687	14,448	13,310	13,215	12,765	13,166	12,093	11,487	9,193	6,670	**10,824**
52	**1975**	5,993	7,269	7,741	9,732	9,443	9,885	7,878	12,911	12,617	12,289	7,616	7,141	**9,213**
53	**1976**	7,720	9,656	13,075	14,375	12,209	10,362	12,207	13,434	12,594	11,880	11,256	10,084	**11,570**
54	**1977**	6,818	7,790	7,270	7,453	7,193	6,767	5,340	6,075	5,606	7,010	6,953	6,570	**6,738**
55	**1978**	5,148	6,474	9,473	9,448	9,098	8,580	10,470	12,470	10,876	10,245	7,214	8,254	**8,977**
56	**1979**	7,021	7,947	7,198	8,476	8,949	9,229	7,670	12,434	7,812	7,354	5,804	5,784	**7,972**
57	**1980**	6,332	7,862	8,371	7,056	7,565	7,703	8,784	13,909	12,111	8,599	6,358	6,523	**8,434**
58	**1981**	6,451	7,806	11,301	13,504	10,329	8,556	7,447	10,743	12,677	11,905	9,712	6,525	**9,754**
59	**1982**	6,591	8,009	8,668	11,156	13,786	13,013	10,695	13,389	11,921	11,235	9,085	8,041	**10,447**
60	**1983**	7,721	8,289	9,332	12,217	10,418	13,144	11,093	12,895	11,960	12,203	9,047	7,117	**10,462**
61	**1984**	6,782	10,218	8,804	13,243	10,446	11,755	11,970	11,713	13,320	11,965	7,601	6,991	**10,398**
62	**1985**	6,669	8,276	8,529	9,444	7,707	8,195	11,234	12,946	8,911	7,012	5,393	6,136	**8,373**
63	**1986**	6,675	9,017	7,460	10,808	11,953	13,065	11,916	10,992	11,038	9,448	7,019	5,883	**9,588**
64	**1987**	6,078	8,110	7,787	7,780	8,749	6,901	8,102	10,324	9,500	7,812	5,860	5,646	**7,711**
65	**1988**	6,096	7,702	6,801	6,880	6,634	6,372	7,568	8,271	6,324	8,414	6,826	6,167	**7,008**
66	**1989**	5,832	6,867	7,819	7,400	8,171	7,563	11,328	12,139	9,605	7,466	5,616	5,980	**7,975**
67	**1990**	6,253	7,539	9,666	11,452	10,534	8,493	11,834	11,303	12,474	9,293	7,699	5,832	**9,354**
68	**1991**	5,877	9,386	9,942	12,924	12,677	7,769	9,454	12,788	11,636	11,885	8,854	6,141	**9,931**
69	**1992**	6,139	7,565	6,879	7,542	8,644	7,706	6,553	7,882	7,404	7,417	5,748	5,499	**7,072**
70	**1993**	6,145	7,596	7,403	7,284	6,497	6,864	7,676	12,003	8,274	8,631	7,075	5,546	**7,595**
71	**1994**	6,016	8,155	7,809	7,890	8,013	7,015	7,619	8,458	7,133	7,886	5,847	5,658	**7,287**
72	**1995**	6,006	6,772	8,041	8,510	10,128	10,490	8,981	11,569	10,774	10,182	7,089	6,414	**8,740**
73	**1996**	7,096	10,918	13,485	14,470	13,665	13,303	12,376	13,452	13,177	12,275	8,508	6,549	**11,598**
74	**1997**	6,628	7,491	9,798	14,430	13,870	13,061	12,349	13,144	12,320	12,001	8,812	8,179	**10,993**
75	**1998**	9,433	8,892	8,427	10,941	10,475	8,985	8,336	12,126	13,056	10,076	7,159	6,368	**9,519**
76	**50 WY Average**	**6,661**	**7,840**	**8,938**	**10,248**	**9,800**	**8,886**	**9,504**	**11,728**	**11,048**	**9,883**	**7,528**	**6,692**	**9,060**
77	**70 WY Average**	**6,642**	**7,949**	**8,863**	**10,226**	**9,846**	**9,050**	**9,545**	**11,698**	**10,912**	**9,818**	**7,450**	**6,594**	**9,046**
78	**Hours**	**744**	**721**	**744**	**744**	**672**	**743**	**720**	**744**	**720**	**744**	**744**	**720**	**8,760**

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	**Table 5: Heavy-Load Hydro Generation Ratios for FY 2010**												
2													
3													
4													
5	**Water Year**	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**June**	**July**	**Aug**	**Sep**
6	**1929**	1.073	1.220	1.143	1.198	1.121	1.096	1.095	1.134	1.045	1.155	1.111	1.117
7	**1930**	1.099	1.231	1.134	1.199	1.128	1.102	1.074	1.139	1.090	1.170	1.118	1.128
8	**1931**	1.093	1.229	1.149	1.194	1.124	1.087	1.048	1.156	1.102	1.201	1.174	1.147
9	**1932**	1.070	1.208	1.140	1.180	1.066	1.060	1.041	1.099	1.009	1.179	1.151	1.159
10	**1933**	1.093	1.178	1.192	1.169	1.154	1.088	1.106	1.108	1.026	1.033	1.171	1.159
11	**1934**	1.110	1.225	1.109	1.115	1.072	1.084	1.046	1.106	1.055	1.154	1.112	1.137
12	**1935**	1.093	1.169	1.168	1.192	1.157	1.095	1.097	1.150	1.097	1.141	1.149	1.123
13	**1936**	1.091	1.227	1.146	1.176	1.140	1.101	1.070	1.160	1.092	1.198	1.161	1.105
14	**1937**	1.092	1.228	1.147	1.203	1.119	1.074	1.050	1.177	1.054	1.136	1.171	1.135
15	**1938**	1.091	1.196	1.182	1.226	1.147	1.093	1.067	1.077	1.080	1.187	1.117	1.158
16	**1939**	1.090	1.204	1.136	1.218	1.146	1.095	1.072	1.145	1.133	1.164	1.102	1.102
17	**1940**	1.101	1.221	1.182	1.228	1.152	1.077	1.085	1.207	1.111	1.159	1.116	1.134
18	**1941**	1.085	1.215	1.172	1.209	1.140	1.105	1.093	1.195	1.069	1.169	1.151	1.155
19	**1942**	1.066	1.210	1.190	1.241	1.144	1.116	1.092	1.204	1.098	1.138	1.166	1.125
20	**1943**	1.092	1.187	1.172	1.229	1.117	1.078	1.044	1.093	0.998	1.116	1.135	1.109
21	**1944**	1.070	1.217	1.140	1.202	1.126	1.102	1.075	1.147	1.036	1.117	1.140	1.147
22	**1945**	1.070	1.224	1.148	1.186	1.100	1.051	1.050	1.188	1.082	1.136	1.131	1.113
23	**1946**	1.075	1.209	1.182	1.237	1.134	1.094	1.062	1.071	1.086	1.143	1.170	1.134
24	**1947**	1.077	1.205	1.192	1.213	1.112	1.115	1.088	1.137	1.058	1.130	1.155	1.131
25	**1948**	1.141	1.228	1.199	1.178	1.126	1.111	1.083	1.072	0.991	1.066	1.178	1.152
26	**1949**	1.092	1.198	1.172	1.200	1.137	1.099	1.066	1.127	1.079	1.141	1.109	1.099
27	**1950**	1.085	1.195	1.171	1.240	1.114	1.100	1.080	1.103	0.997	1.120	1.180	1.140
28	**1951**	1.110	1.224	1.187	1.153	1.107	1.090	1.056	1.072	1.080	1.073	1.146	1.124
29	**1952**	1.123	1.221	1.200	1.164	1.146	1.115	1.060	1.073	1.084	1.170	1.156	1.104
30	**1953**	1.084	1.212	1.144	1.202	1.139	1.115	1.079	1.147	1.027	1.094	1.161	1.126
31	**1954**	1.093	1.208	1.197	1.236	1.131	1.116	1.084	1.094	1.000	1.039	1.097	1.194
32	**1955**	1.096	1.226	1.196	1.218	1.132	1.112	1.081	1.201	1.030	1.032	1.175	1.113
33	**1956**	1.106	1.226	1.194	1.161	1.103	1.089	1.044	1.069	1.010	1.064	1.176	1.130
34	**1957**	1.096	1.207	1.185	1.255	1.133	1.102	1.058	1.116	0.996	1.191	1.124	1.120
35	**1958**	1.083	1.202	1.153	1.248	1.131	1.128	1.088	1.114	1.044	1.194	1.144	1.115
36	**1959**	1.098	1.221	1.203	1.163	1.129	1.102	1.083	1.076	0.996	1.160	1.169	1.181
37	**1960**	1.125	1.211	1.202	1.210	1.161	1.118	1.075	1.142	1.068	1.157	1.140	1.145
38	**1961**	1.096	1.205	1.157	1.214	1.149	1.124	1.105	1.102	0.995	1.162	1.184	1.107
39	**1962**	1.076	1.197	1.190	1.260	1.145	1.119	1.023	1.115	1.053	1.158	1.150	1.113
40	**1963**	1.102	1.227	1.207	1.257	1.127	1.119	1.087	1.186	1.090	1.152	1.159	1.143
41	**1964**	1.075	1.198	1.177	1.255	1.154	1.104	1.071	1.155	0.996	1.056	1.149	1.161

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1	**Table 5: Heavy-Load Hydro Generation Ratios for FY 2010**												
2													
3													
4													
5	**Water Year**	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**June**	**July**	**Aug**	**Sep**
42	**1965**	1.116	1.221	1.189	1.150	1.093	1.090	1.036	1.070	1.043	1.176	1.180	1.129
43	**1966**	1.100	1.201	1.182	1.268	1.157	1.116	1.076	1.174	1.108	1.148	1.157	1.111
44	**1967**	1.084	1.192	1.191	1.157	1.129	1.086	1.108	1.154	0.992	1.084	1.159	1.154
45	**1968**	1.092	1.204	1.185	1.203	1.134	1.113	1.081	1.200	1.082	1.089	1.171	1.173
46	**1969**	1.115	1.229	1.200	1.164	1.115	1.107	1.043	1.073	1.076	1.115	1.145	1.123
47	**1970**	1.103	1.206	1.155	1.231	1.148	1.126	1.078	1.182	1.060	1.175	1.118	1.110
48	**1971**	1.087	1.195	1.174	1.186	1.088	1.106	1.067	1.068	1.024	1.043	1.170	1.159
49	**1972**	1.096	1.205	1.188	1.169	1.087	1.072	1.065	1.073	0.991	1.031	1.125	1.158
50	**1973**	1.091	1.199	1.203	1.252	1.137	1.117	1.077	1.193	1.081	1.167	1.096	1.100
51	**1974**	1.086	1.176	1.208	1.106	1.039	1.045	1.040	1.070	0.994	1.039	1.183	1.156
52	**1975**	1.069	1.202	1.143	1.258	1.148	1.110	1.093	1.096	1.016	1.075	1.157	1.154
53	**1976**	1.113	1.231	1.155	1.153	1.143	1.097	1.061	1.076	1.070	1.038	1.066	1.197
54	**1977**	1.101	1.219	1.145	1.205	1.135	1.108	1.061	1.142	1.049	1.175	1.179	1.134
55	**1978**	1.046	1.177	1.174	1.237	1.117	1.098	1.099	1.109	1.071	1.176	1.166	1.192
56	**1979**	1.111	1.218	1.136	1.236	1.162	1.112	1.100	1.160	1.084	1.153	1.092	1.102
57	**1980**	1.092	1.219	1.175	1.195	1.142	1.113	1.083	1.117	1.086	1.175	1.118	1.137
58	**1981**	1.092	1.212	1.198	1.117	1.148	1.118	1.087	1.177	1.013	1.058	1.141	1.144
59	**1982**	1.094	1.218	1.195	1.216	1.091	1.065	1.076	1.086	0.994	1.120	1.162	1.181
60	**1983**	1.102	1.218	1.203	1.201	1.123	1.063	1.071	1.133	1.048	1.078	1.163	1.156
61	**1984**	1.091	1.225	1.197	1.186	1.096	1.077	1.066	1.162	1.057	1.115	1.147	1.142
62	**1985**	1.085	1.216	1.184	1.252	1.131	1.116	1.071	1.144	1.106	1.143	1.070	1.110
63	**1986**	1.094	1.226	1.144	1.249	1.068	1.071	1.078	1.182	1.073	1.185	1.153	1.109
64	**1987**	1.078	1.211	1.157	1.205	1.161	1.094	1.090	1.202	1.120	1.182	1.098	1.097
65	**1988**	1.084	1.226	1.124	1.182	1.120	1.095	1.096	1.181	1.033	1.199	1.169	1.130
66	**1989**	1.070	1.186	1.159	1.190	1.121	1.057	1.067	1.121	1.105	1.157	1.078	1.109
67	**1990**	1.084	1.192	1.197	1.174	1.147	1.100	1.056	1.125	1.022	1.184	1.179	1.109
68	**1991**	1.072	1.224	1.192	1.143	1.109	1.101	1.100	1.104	1.077	1.036	1.165	1.123
69	**1992**	1.081	1.213	1.127	1.198	1.153	1.098	1.098	1.173	1.115	1.166	1.085	1.090
70	**1993**	1.089	1.217	1.142	1.191	1.119	1.073	1.086	1.154	1.040	1.159	1.137	1.102
71	**1994**	1.075	1.223	1.156	1.211	1.150	1.102	1.089	1.192	1.083	1.187	1.097	1.099
72	**1995**	1.079	1.192	1.166	1.238	1.089	1.122	1.100	1.171	1.056	1.175	1.146	1.138
73	**1996**	1.104	1.219	1.089	1.156	1.058	1.049	1.051	1.083	1.047	1.038	1.155	1.133
74	**1997**	1.091	1.201	1.197	1.131	1.066	1.037	1.041	1.064	0.992	1.038	1.167	1.177
75	**1998**	1.134	1.224	1.185	1.260	1.136	1.105	1.090	1.113	1.027	1.175	1.146	1.123

Table 6: Heavy-Load Hydro Generation Ratios for FY 2011

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep
1929	1.115	1.171	1.143	1.198	1.121	1.096	1.095	1.134	1.045	1.201	1.066	1.117
1930	1.141	1.181	1.134	1.199	1.128	1.102	1.074	1.139	1.090	1.217	1.074	1.128
1931	1.135	1.179	1.149	1.194	1.124	1.087	1.048	1.156	1.102	1.249	1.127	1.147
1932	1.112	1.159	1.140	1.180	1.066	1.060	1.041	1.099	1.008	1.226	1.106	1.159
1933	1.135	1.131	1.192	1.169	1.154	1.088	1.106	1.108	1.025	1.074	1.127	1.159
1934	1.153	1.176	1.109	1.115	1.072	1.084	1.046	1.106	1.055	1.200	1.068	1.137
1935	1.135	1.122	1.168	1.192	1.157	1.095	1.097	1.150	1.097	1.186	1.104	1.123
1936	1.133	1.178	1.146	1.176	1.140	1.101	1.070	1.160	1.092	1.246	1.114	1.105
1937	1.134	1.179	1.147	1.203	1.119	1.074	1.050	1.177	1.054	1.182	1.125	1.135
1938	1.133	1.148	1.182	1.226	1.147	1.093	1.067	1.078	1.080	1.235	1.072	1.158
1939	1.132	1.156	1.136	1.218	1.146	1.095	1.072	1.145	1.133	1.210	1.058	1.102
1940	1.144	1.173	1.182	1.228	1.152	1.077	1.085	1.207	1.111	1.206	1.072	1.134
1941	1.127	1.167	1.172	1.209	1.140	1.105	1.093	1.195	1.069	1.216	1.106	1.155
1942	1.107	1.162	1.190	1.241	1.144	1.116	1.092	1.204	1.098	1.183	1.120	1.125
1943	1.134	1.140	1.172	1.229	1.117	1.078	1.044	1.093	0.998	1.161	1.089	1.109
1944	1.111	1.168	1.140	1.202	1.126	1.102	1.075	1.147	1.036	1.162	1.094	1.147
1945	1.111	1.175	1.148	1.186	1.100	1.051	1.050	1.188	1.082	1.182	1.085	1.113
1946	1.116	1.160	1.182	1.237	1.134	1.094	1.062	1.071	1.086	1.189	1.123	1.134
1947	1.119	1.157	1.192	1.213	1.112	1.115	1.088	1.137	1.058	1.175	1.108	1.131
1948	1.185	1.179	1.199	1.178	1.126	1.111	1.083	1.072	0.991	1.109	1.133	1.152
1949	1.134	1.150	1.172	1.200	1.137	1.099	1.066	1.127	1.079	1.187	1.065	1.099
1950	1.126	1.147	1.171	1.240	1.114	1.100	1.080	1.103	0.996	1.165	1.134	1.140
1951	1.153	1.175	1.187	1.153	1.107	1.090	1.056	1.072	1.080	1.116	1.101	1.124
1952	1.167	1.172	1.200	1.164	1.146	1.115	1.060	1.073	1.084	1.216	1.109	1.104
1953	1.125	1.164	1.144	1.202	1.139	1.115	1.079	1.147	1.026	1.138	1.114	1.126
1954	1.135	1.160	1.197	1.236	1.131	1.116	1.084	1.094	0.999	1.080	1.055	1.194
1955	1.138	1.177	1.196	1.218	1.132	1.112	1.081	1.201	1.029	1.073	1.131	1.113
1956	1.149	1.177	1.194	1.161	1.103	1.089	1.044	1.069	1.009	1.107	1.129	1.130
1957	1.138	1.159	1.185	1.255	1.133	1.102	1.058	1.116	0.995	1.239	1.078	1.120
1958	1.125	1.154	1.153	1.248	1.130	1.128	1.088	1.114	1.043	1.242	1.098	1.115
1959	1.140	1.172	1.203	1.163	1.129	1.102	1.083	1.076	0.996	1.206	1.124	1.181
1960	1.169	1.163	1.202	1.210	1.161	1.118	1.075	1.142	1.068	1.203	1.093	1.145
1961	1.139	1.157	1.157	1.214	1.149	1.124	1.105	1.102	0.995	1.209	1.137	1.107
1962	1.117	1.149	1.190	1.260	1.145	1.119	1.024	1.115	1.053	1.204	1.104	1.113
1963	1.145	1.178	1.207	1.257	1.127	1.119	1.087	1.186	1.090	1.199	1.113	1.143
1964	1.117	1.150	1.177	1.255	1.154	1.104	1.071	1.155	0.996	1.098	1.105	1.161

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	**Table 6: Heavy-Load Hydro Generation Ratios for FY 2011**												
2													
3													
4													
5	**Water Year**	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**June**	**July**	**Aug**	**Sep**
42	**1965**	1.159	1.172	1.189	1.150	1.093	1.090	1.036	1.071	1.043	1.223	1.134	1.129
43	**1966**	1.142	1.153	1.182	1.268	1.157	1.116	1.076	1.174	1.108	1.194	1.111	1.111
44	**1967**	1.126	1.144	1.191	1.157	1.129	1.086	1.108	1.154	0.992	1.127	1.114	1.154
45	**1968**	1.134	1.156	1.185	1.203	1.134	1.113	1.081	1.200	1.082	1.133	1.126	1.173
46	**1969**	1.157	1.180	1.200	1.164	1.115	1.107	1.043	1.073	1.076	1.160	1.098	1.123
47	**1970**	1.146	1.158	1.155	1.231	1.148	1.126	1.078	1.182	1.060	1.222	1.073	1.110
48	**1971**	1.129	1.148	1.174	1.186	1.088	1.106	1.067	1.068	1.024	1.084	1.126	1.159
49	**1972**	1.138	1.156	1.188	1.169	1.087	1.072	1.065	1.073	0.991	1.073	1.083	1.158
50	**1973**	1.133	1.151	1.203	1.252	1.137	1.117	1.077	1.193	1.081	1.214	1.052	1.100
51	**1974**	1.128	1.129	1.208	1.106	1.039	1.045	1.040	1.070	0.993	1.081	1.139	1.156
52	**1975**	1.111	1.154	1.143	1.258	1.148	1.110	1.093	1.096	1.016	1.117	1.111	1.154
53	**1976**	1.155	1.182	1.155	1.153	1.143	1.097	1.061	1.076	1.070	1.080	1.025	1.197
54	**1977**	1.143	1.171	1.145	1.205	1.135	1.108	1.061	1.142	1.049	1.222	1.132	1.134
55	**1978**	1.087	1.130	1.174	1.237	1.117	1.098	1.099	1.109	1.071	1.223	1.120	1.192
56	**1979**	1.154	1.169	1.136	1.236	1.162	1.112	1.100	1.160	1.084	1.199	1.048	1.102
57	**1980**	1.134	1.170	1.175	1.195	1.142	1.113	1.083	1.117	1.086	1.222	1.073	1.137
58	**1981**	1.134	1.163	1.198	1.118	1.148	1.118	1.087	1.177	1.012	1.101	1.097	1.144
59	**1982**	1.136	1.170	1.195	1.216	1.091	1.065	1.076	1.086	0.993	1.164	1.118	1.181
60	**1983**	1.144	1.169	1.203	1.201	1.123	1.063	1.071	1.133	1.048	1.121	1.118	1.156
61	**1984**	1.132	1.176	1.197	1.186	1.096	1.077	1.066	1.162	1.056	1.159	1.101	1.142
62	**1985**	1.127	1.167	1.184	1.252	1.131	1.116	1.071	1.144	1.106	1.188	1.028	1.110
63	**1986**	1.136	1.177	1.144	1.249	1.068	1.071	1.078	1.182	1.073	1.232	1.106	1.109
64	**1987**	1.119	1.163	1.157	1.205	1.161	1.094	1.090	1.202	1.120	1.229	1.055	1.097
65	**1988**	1.126	1.177	1.124	1.182	1.120	1.095	1.096	1.181	1.033	1.247	1.122	1.130
66	**1989**	1.111	1.139	1.159	1.190	1.121	1.057	1.067	1.121	1.105	1.204	1.036	1.109
67	**1990**	1.125	1.145	1.197	1.174	1.147	1.100	1.057	1.125	1.022	1.231	1.132	1.109
68	**1991**	1.113	1.175	1.192	1.143	1.109	1.101	1.100	1.104	1.077	1.077	1.121	1.123
69	**1992**	1.122	1.165	1.127	1.198	1.153	1.098	1.098	1.173	1.115	1.213	1.042	1.090
70	**1993**	1.131	1.168	1.142	1.191	1.119	1.073	1.086	1.154	1.040	1.205	1.091	1.102
71	**1994**	1.116	1.174	1.156	1.211	1.150	1.102	1.089	1.192	1.083	1.235	1.054	1.099
72	**1995**	1.120	1.144	1.166	1.238	1.089	1.122	1.100	1.171	1.056	1.222	1.100	1.138
73	**1996**	1.146	1.171	1.089	1.156	1.058	1.049	1.051	1.083	1.047	1.080	1.110	1.133
74	**1997**	1.133	1.153	1.197	1.131	1.066	1.037	1.041	1.064	0.991	1.079	1.122	1.177
75	**1998**	1.178	1.175	1.185	1.260	1.136	1.105	1.090	1.113	1.027	1.222	1.099	1.123

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	**Table 7: Federal Hydro Generation Adjustment for Refill of Non-Treaty Storage for FY 2010**													
2														
3														
4														
5	**Water Year**	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**June**	**July**	**Aug**	**Sep**	**Wtd Avg.**
6	**1929**	-54	-577	0	-57	-63	-53	0	0	0	0	0	0	**-66**
7	**1930**	-529	-270	0	0	0	0	0	0	0	0	0	0	**-67**
8	**1931**	-510	-272	0	0	0	0	0	0	0	0	0	0	**-66**
9	**1932**	0	0	0	0	0	0	0	0	0	0	0	0	**0**
10	**1933**	-392	0	-271	-28	0	0	0	0	0	0	0	0	**-59**
11	**1934**	-78	-279	-284	-43	0	0	0	0	0	0	0	0	**-57**
12	**1935**	-470	0	-273	-46	0	0	0	0	0	0	0	0	**-67**
13	**1936**	-588	-112	0	0	0	0	0	0	0	0	0	0	**-59**
14	**1937**	-588	-72	0	0	0	0	0	0	0	0	0	0	**-56**
15	**1938**	-407	0	-253	-68	0	0	0	0	0	0	0	0	**-62**
16	**1939**	-502	0	0	0	0	0	0	0	0	0	0	0	**-43**
17	**1940**	-372	-421	-90	0	0	0	0	0	0	0	0	0	**-74**
18	**1941**	-392	-395	0	0	0	0	0	0	0	0	0	0	**-66**
19	**1942**	-315	-363	-188	0	0	0	0	0	0	0	0	0	**-73**
20	**1943**	-431	0	-234	-106	-12	0	0	0	0	0	0	0	**-66**
21	**1944**	0	-599	0	-31	0	0	0	0	0	0	0	0	**-52**
22	**1945**	0	-587	0	0	0	0	0	0	0	0	0	0	**-48**
23	**1946**	-30	-303	-214	-89	-83	-110	0	0	0	0	0	0	**-69**
24	**1947**	-98	-141	-324	-88	-111	0	0	0	0	0	0	0	**-64**
25	**1948**	-406	-457	0	0	0	0	0	0	0	0	0	0	**-72**
26	**1949**	-509	0	-234	-39	-31	0	0	0	0	0	0	0	**-69**
27	**1950**	-275	0	-155	-70	-168	-9	0	0	0	0	0	0	**-56**
28	**1951**	-137	-93	-289	-85	-121	0	0	0	0	0	0	0	**-60**
29	**1952**	-444	-422	-90	0	0	0	0	0	0	0	0	0	**-80**
30	**1953**	-530	0	0	-50	0	0	0	0	0	0	0	0	**-49**
31	**1954**	-235	-182	-195	-71	-10	0	0	0	0	0	0	0	**-58**
32	**1955**	-411	-514	0	0	0	0	0	0	0	0	0	0	**-77**
33	**1956**	-117	-261	-274	-89	0	0	0	0	0	0	0	0	**-62**
34	**1957**	-411	-361	-148	0	0	0	0	0	0	0	0	0	**-77**
35	**1958**	-452	0	-233	-46	0	0	0	0	0	0	0	0	**-62**
36	**1959**	-118	-161	-234	-93	0	0	0	0	0	0	0	0	**-51**
37	**1960**	-407	-454	-29	0	0	0	0	0	0	0	0	0	**-74**
38	**1961**	-333	-180	-117	-88	-128	0	0	0	0	0	0	0	**-70**
39	**1962**	0	0	-426	-143	-12	0	0	0	0	0	0	0	**-49**
40	**1963**	-333	-442	-173	0	0	0	0	0	0	0	0	0	**-79**
41	**1964**	0	0	-370	-147	0	0	0	0	0	0	0	0	**-44**

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	**Table 7: Federal Hydro Generation Adjustment**													
2	**for Refill of Non-Treaty Storage for FY 2010**													
3														
4														
5	**Water Year**	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**June**	**July**	**Aug**	**Sep**	**Wtd Avg.**
42	**1965**	-117	-60	-284	-94	-108	0	0	0	0	0	0	0	**-55**
43	**1966**	-548	0	-265	0	0	0	0	0	0	0	0	0	**-69**
44	**1967**	-294	0	-213	-110	-96	0	0	0	0	0	0	0	**-60**
45	**1968**	-314	-162	-156	-71	-31	0	0	0	0	0	0	0	**-62**
46	**1969**	-254	-462	-175	-37	0	0	0	0	0	0	0	0	**-78**
47	**1970**	-529	0	-194	-29	0	0	0	0	0	0	0	0	**-64**
48	**1971**	-137	0	-135	-112	-191	0	0	0	0	0	0	0	**-47**
49	**1972**	-20	0	-39	-47	-148	-154	0	0	0	0	0	0	**-33**
50	**1973**	-451	-20	-311	-78	-64	-30	0	0	0	0	0	0	**-80**
51	**1974**	0	0	-126	-94	-97	-94	0	0	0	0	0	0	**-34**
52	**1975**	-137	0	-194	-107	-134	-65	0	0	0	0	0	0	**-53**
53	**1976**	-78	-186	-337	-23	0	0	0	0	0	0	0	0	**-52**
54	**1977**	-529	-372	0	0	0	0	0	0	0	0	0	0	**-76**
55	**1978**	0	0	-378	-82	0	0	0	0	0	0	0	0	**-39**
56	**1979**	-508	-333	0	0	0	0	0	0	0	0	0	0	**-71**
57	**1980**	-386	-382	-89	0	0	0	0	0	0	0	0	0	**-72**
58	**1981**	-118	-242	-359	-56	0	0	0	0	0	0	0	0	**-65**
59	**1982**	-59	-60	-78	-53	-137	-103	0	0	0	0	0	0	**-40**
60	**1983**	-254	-81	-117	-79	-76	-50	0	0	0	0	0	0	**-55**
61	**1984**	-118	-502	-117	-65	0	0	0	0	0	0	0	0	**-67**
62	**1985**	-393	-524	-12	0	0	0	0	0	0	0	0	0	**-77**
63	**1986**	-137	-321	0	-53	-103	-39	0	0	0	0	0	0	**-54**
64	**1987**	-247	-545	-137	0	0	0	0	0	0	0	0	0	**-78**
65	**1988**	-63	-486	0	0	0	0	0	0	0	0	0	0	**-45**
66	**1989**	0	0	-381	0	0	0	0	0	0	0	0	0	**-32**
67	**1990**	-373	0	-330	-81	0	0	0	0	0	0	0	0	**-67**
68	**1991**	0	-582	-233	-57	0	0	0	0	0	0	0	0	**-72**
69	**1992**	0	-120	0	-94	-182	-215	0	0	0	0	0	-80	**-57**
70	**1993**	-124	-360	0	-113	0	0	0	0	0	0	0	-65	**-55**
71	**1994**	0	-601	-147	0	0	0	0	0	0	0	0	0	**-62**
72	**1995**	0	0	-310	-76	-126	0	0	0	0	0	0	0	**-42**
73	**1996**	0	-168	-237	-59	-63	0	0	0	0	0	0	0	**-44**
74	**1997**	-39	0	-90	-83	-151	-92	0	0	0	0	0	0	**-37**
75	**1998**	-472	-415	0	0	0	0	0	0	0	0	0	0	**-74**
76	**50 WY Average**	**-286**	**-184**	**-158**	**-47**	**-32**	**-10**	**0**	**0**	**0**	**0**	**0**	**0**	**-60**
77	**70 WY Average**	**-251**	**-213**	**-151**	**-46**	**-35**	**-14**	**0**	**0**	**0**	**0**	**0**	**-2**	**-60**
78	**Hours**	**744**	**721**	**744**	**744**	**672**	**743**	**720**	**744**	**720**	**744**	**744**	**720**	**8,760**

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	**Table 8: Federal Hydro Generation Adjustment for Refill of Non-Treaty Storage for FY 2011**													
2														
3														
4														
5	**Water Year**	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**June**	**July**	**Aug**	**Sep**	**Wtd Avg.**
6	**1929**	0	0	0	0	0	0	0	0	0	0	0	0	**0**
7	**1930**	0	0	0	0	0	0	0	0	0	0	0	0	**0**
8	**1931**	0	0	0	0	0	0	0	0	0	0	0	0	**0**
9	**1932**	0	0	0	0	0	0	0	0	0	0	0	0	**0**
10	**1933**	0	0	0	0	0	0	0	0	0	0	0	0	**0**
11	**1934**	0	0	0	0	0	0	0	0	0	0	0	0	**0**
12	**1935**	0	0	0	0	0	0	0	0	0	0	0	0	**0**
13	**1936**	0	0	0	0	0	0	0	0	0	0	0	0	**0**
14	**1937**	0	0	0	0	0	0	0	0	0	0	0	0	**0**
15	**1938**	0	0	0	0	0	0	0	0	0	0	0	0	**0**
16	**1939**	0	0	0	0	0	0	0	0	0	0	0	0	**0**
17	**1940**	0	0	0	0	0	0	0	0	0	0	0	0	**0**
18	**1941**	0	0	0	0	0	0	0	0	0	0	0	0	**0**
19	**1942**	0	0	0	0	0	0	0	0	0	0	0	0	**0**
20	**1943**	0	0	0	0	0	0	0	0	0	0	0	0	**0**
21	**1944**	0	0	0	0	0	0	0	0	0	0	0	0	**0**
22	**1945**	0	0	0	0	0	0	0	0	0	0	0	0	**0**
23	**1946**	0	0	0	0	0	0	0	0	0	0	0	0	**0**
24	**1947**	0	0	0	0	0	0	0	0	0	0	0	0	**0**
25	**1948**	0	0	0	0	0	0	0	0	0	0	0	0	**0**
26	**1949**	0	0	0	0	0	0	0	0	0	0	0	0	**0**
27	**1950**	0	0	0	0	0	0	0	0	0	0	0	0	**0**
28	**1951**	0	0	0	0	0	0	0	0	0	0	0	0	**0**
29	**1952**	0	0	0	0	0	0	0	0	0	0	0	0	**0**
30	**1953**	0	0	0	0	0	0	0	0	0	0	0	0	**0**
31	**1954**	0	0	0	0	0	0	0	0	0	0	0	0	**0**
32	**1955**	0	0	0	0	0	0	0	0	0	0	0	0	**0**
33	**1956**	0	0	0	0	0	0	0	0	0	0	0	0	**0**
34	**1957**	0	0	0	0	0	0	0	0	0	0	0	0	**0**
35	**1958**	0	0	0	0	0	0	0	0	0	0	0	0	**0**
36	**1959**	0	0	0	0	0	0	0	0	0	0	0	0	**0**
37	**1960**	0	0	0	0	0	0	0	0	0	0	0	0	**0**
38	**1961**	0	0	0	0	0	0	0	0	0	0	0	0	**0**
39	**1962**	0	0	0	0	0	0	0	0	0	0	0	0	**0**
40	**1963**	0	0	0	0	0	0	0	0	0	0	0	0	**0**
41	**1964**	0	0	0	0	0	0	0	0	0	0	0	0	**0**

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	**Table 8: Federal Hydro Generation Adjustment**													
2	**for Refill of Non-Treaty Storage for FY 2011**													
3														
4														
5	**Water Year**	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**June**	**July**	**Aug**	**Sep**	**Wtd Avg.**
42	**1965**	0	0	0	0	0	0	0	0	0	0	0	0	**0**
43	**1966**	0	0	0	0	0	0	0	0	0	0	0	0	**0**
44	**1967**	0	0	0	0	0	0	0	0	0	0	0	0	**0**
45	**1968**	0	0	0	0	0	0	0	0	0	0	0	0	**0**
46	**1969**	0	0	0	0	0	0	0	0	0	0	0	0	**0**
47	**1970**	0	0	0	0	0	0	0	0	0	0	0	0	**0**
48	**1971**	0	0	0	0	0	0	0	0	0	0	0	0	**0**
49	**1972**	0	0	0	0	0	0	0	0	0	0	0	0	**0**
50	**1973**	0	0	0	0	0	0	0	0	0	0	0	0	**0**
51	**1974**	0	0	0	0	0	0	0	0	0	0	0	0	**0**
52	**1975**	0	0	0	0	0	0	0	0	0	0	0	0	**0**
53	**1976**	0	0	0	0	0	0	0	0	0	0	0	0	**0**
54	**1977**	0	0	0	0	0	0	0	0	0	0	0	0	**0**
55	**1978**	0	0	0	0	0	0	0	0	0	0	0	0	**0**
56	**1979**	0	0	0	0	0	0	0	0	0	0	0	0	**0**
57	**1980**	0	0	0	0	0	0	0	0	0	0	0	0	**0**
58	**1981**	0	0	0	0	0	0	0	0	0	0	0	0	**0**
59	**1982**	0	0	0	0	0	0	0	0	0	0	0	0	**0**
60	**1983**	0	0	0	0	0	0	0	0	0	0	0	0	**0**
61	**1984**	0	0	0	0	0	0	0	0	0	0	0	0	**0**
62	**1985**	0	0	0	0	0	0	0	0	0	0	0	0	**0**
63	**1986**	0	0	0	0	0	0	0	0	0	0	0	0	**0**
64	**1987**	0	0	0	0	0	0	0	0	0	0	0	0	**0**
65	**1988**	0	0	0	0	0	0	0	0	0	0	0	0	**0**
66	**1989**	0	0	0	0	0	0	0	0	0	0	0	0	**0**
67	**1990**	0	0	0	0	0	0	0	0	0	0	0	0	**0**
68	**1991**	0	0	0	0	0	0	0	0	0	0	0	0	**0**
69	**1992**	0	-40	0	-38	-61	-47	0	0	0	0	0	0	**-15**
70	**1993**	0	0	0	0	0	0	0	0	0	0	0	0	**0**
71	**1994**	0	0	0	0	0	0	0	0	0	0	0	0	**0**
72	**1995**	0	0	0	0	0	0	0	0	0	0	0	0	**0**
73	**1996**	0	0	0	0	0	0	0	0	0	0	0	0	**0**
74	**1997**	0	0	0	0	0	0	0	0	0	0	0	0	**0**
75	**1998**	0	0	0	0	0	0	0	0	0	0	0	0	**0**
76	**50 WY Average**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
77	**70 WY Average**	**0**	**-1**	**0**	**-1**	**-1**	**-1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
78	**Hours**	**744**	**721**	**744**	**744**	**672**	**743**	**720**	**744**	**720**	**744**	**744**	**720**	**8,760**

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	**Table 9: Federal Hydro Generation Adjustment for**													
2	**Stand Ready & Deployment Losses, Light-Load-Hours for FY 2010**													
3														
4														
5	**Water Year**	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**June**	**July**	**Aug**	**Sep**	**Wtd Avg.**
6	**1929**	322	169	275	285	281	268	285	394	272	331	173	285	**278**
7	**1930**	333	97	283	245	262	276	263	256	304	344	167	291	**259**
8	**1931**	330	92	279	291	288	288	845	266	271	46	317	311	**298**
9	**1932**	329	236	281	282	475	420	230	0	147	365	334	302	**281**
10	**1933**	307	272	190	0	40	250	224	0	135	58	27	291	**148**
11	**1934**	275	77	0	0	0	-11	0	0	0	87	221	301	**79**
12	**1935**	334	300	280	0	0	278	229	0	217	0	124	294	**170**
13	**1936**	326	92	270	287	299	259	288	49	0	88	339	280	**213**
14	**1937**	326	95	272	219	292	306	1,061	280	273	315	360	297	**337**
15	**1938**	333	280	276	0	259	282	229	0	0	-68	262	310	**178**
16	**1939**	280	266	276	183	306	244	271	0	10	339	156	279	**216**
17	**1940**	296	91	165	169	301	261	306	0	0	318	192	296	**197**
18	**1941**	279	184	279	293	286	274	297	248	285	345	338	289	**283**
19	**1942**	299	277	267	121	300	304	287	15	4	0	183	296	**194**
20	**1943**	283	283	257	94	296	282	0	0	84	274	345	300	**207**
21	**1944**	307	241	262	288	294	281	280	259	262	302	282	310	**280**
22	**1945**	323	104	269	267	419	825	1,124	216	268	322	285	285	**385**
23	**1946**	322	235	283	237	277	294	191	0	0	0	376	304	**209**
24	**1947**	301	275	93	0	41	241	217	0	0	0	355	294	**151**
25	**1948**	0	84	88	0	294	294	226	0	205	0	47	279	**122**
26	**1949**	263	276	281	270	312	312	142	0	0	320	212	279	**222**
27	**1950**	313	267	272	0	0	283	225	0	93	0	277	298	**168**
28	**1951**	267	89	59	0	0	-25	0	0	0	0	72	294	**63**
29	**1952**	220	133	98	0	211	282	226	0	0	0	363	279	**148**
30	**1953**	318	193	269	252	106	292	293	0	134	0	370	295	**209**
31	**1954**	280	231	183	0	0	301	247	0	92	50	0	131	**125**
32	**1955**	274	93	90	206	295	295	292	188	133	87	59	291	**189**
33	**1956**	272	95	100	0	0	316	98	0	141	0	241	295	**128**
34	**1957**	258	279	275	98	311	293	267	0	84	83	280	291	**207**
35	**1958**	303	252	266	73	305	255	235	0	81	95	314	286	**203**
36	**1959**	285	210	93	0	0	297	225	0	94	105	94	131	**126**
37	**1960**	0	0	102	0	84	302	0	0	0	0	325	304	**92**
38	**1961**	316	279	283	0	159	245	228	0	70	59	376	280	**190**
39	**1962**	327	289	173	65	207	286	245	0	0	346	337	284	**212**
40	**1963**	264	123	94	0	306	104	292	193	236	0	157	299	**169**
41	**1964**	323	285	255	86	185	281	265	0	160	75	84	292	**188**

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	**Table 9: Federal Hydro Generation Adjustment for**													
2	**Stand Ready & Deployment Losses, Light-Load-Hours for FY 2010**													
3														
4														
5	**Water Year**	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**June**	**July**	**Aug**	**Sep**	**Wtd Avg.**
42	**1965**	281	90	96	0	0	312	233	0	41	46	82	296	**121**
43	**1966**	271	279	243	0	127	284	224	0	0	0	206	287	**159**
44	**1967**	324	294	185	0	0	316	286	0	92	0	113	310	**159**
45	**1968**	286	273	286	0	192	169	290	49	0	0	91	269	**157**
46	**1969**	281	97	93	0	0	299	0	0	0	0	323	290	**115**
47	**1970**	283	205	281	274	138	202	294	118	78	251	250	277	**222**
48	**1971**	316	285	279	0	0	144	228	0	133	55	43	302	**148**
49	**1972**	266	273	218	0	0	-71	0	0	174	89	0	295	**104**
50	**1973**	276	275	178	129	290	300	290	212	300	342	87	274	**244**
51	**1974**	315	268	93	0	0	-16	1	0	85	54	48	307	**97**
52	**1975**	312	270	275	101	246	293	286	0	137	59	363	296	**217**
53	**1976**	272	95	-46	0	0	302	153	0	0	57	0	0	**68**
54	**1977**	306	135	288	297	302	310	287	264	328	321	310	295	**286**
55	**1978**	288	331	266	285	281	267	230	0	142	-81	363	276	**220**
56	**1979**	290	90	316	101	258	292	286	0	299	323	75	276	**213**
57	**1980**	344	96	243	266	279	280	273	0	0	367	236	297	**222**
58	**1981**	293	202	78	0	104	300	288	183	142	0	18	304	**157**
59	**1982**	291	149	283	0	6	-2	235	0	82	125	54	251	**122**
60	**1983**	266	198	230	0	310	0	224	0	257	0	57	288	**149**
61	**1984**	278	84	280	0	220	310	226	211	169	0	368	287	**200**
62	**1985**	260	278	278	89	277	290	214	0	264	316	51	272	**213**
63	**1986**	283	93	293	0	263	23	177	215	244	15	337	276	**183**
64	**1987**	308	264	270	292	162	253	258	116	0	353	101	276	**222**
65	**1988**	336	92	296	285	288	281	295	260	264	56	321	293	**254**
66	**1989**	328	285	283	283	297	545	216	0	233	328	86	283	**262**
67	**1990**	304	278	96	0	12	283	0	0	79	-15	154	285	**123**
68	**1991**	320	98	97	0	0	289	217	0	0	69	41	295	**117**
69	**1992**	318	285	242	295	318	282	280	269	229	341	94	265	**268**
70	**1993**	338	149	275	297	274	645	273	211	294	352	340	288	**310**
71	**1994**	329	91	283	275	234	269	287	225	303	322	92	271	**247**
72	**1995**	337	297	282	266	278	236	232	220	301	-42	346	300	**254**
73	**1996**	267	0	0	0	105	0	70	0	126	72	89	299	**84**
74	**1997**	306	275	201	0	0	-42	146	0	77	62	82	254	**114**
75	**1998**	0	91	283	17	50	292	254	229	134	-5	353	291	**166**
76	**50 WY Average**	**285**	**200**	**205**	**108**	**181**	**263**	**259**	**60**	**111**	**118**	**215**	**280**	**189**
77	**70 WY Average**	**287**	**192**	**213**	**112**	**183**	**257**	**248**	**74**	**129**	**127**	**200**	**281**	**190**
78	**Hours**	**312**	**337**	**328**	**344**	**288**	**311**	**304**	**344**	**304**	**328**	**328**	**320**	**3848**

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	**Table 10: Federal Hydro Generation Adjustment for**													
2	**Stand Ready & Deployment Losses, Heavy-Load-Hours for FY 2010**													
3														
4														
5	**Water Year**	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**June**	**July**	**Aug**	**Sep**	**Wtd Avg.**
6	**1929**	-386	-222	-262	-354	-255	-291	-374	-456	-351	-394	-278	-411	**-337**
7	**1930**	-372	-210	-320	-283	-287	-233	-432	-394	-389	-413	-277	-421	**-337**
8	**1931**	-359	-212	-426	-309	-255	-242	-770	-475	-513	-142	-405	-368	**-374**
9	**1932**	-344	-269	-269	-286	-400	-345	-357	-79	-251	-469	-451	-375	**-325**
10	**1933**	-339	-353	-271	-35	-151	-224	-333	-119	-236	-118	-117	-356	**-221**
11	**1934**	-388	-178	-55	-19	-37	-57	-109	-17	-5	-115	-318	-422	**-144**
12	**1935**	-367	-380	-339	-31	-70	-238	-338	-151	-343	-34	-331	-417	**-254**
13	**1936**	-352	-162	-262	-285	-269	-232	-386	-108	-53	-187	-444	-353	**-259**
14	**1937**	-354	-213	-265	-262	-257	-259	-934	-441	-355	-515	-438	-421	**-395**
15	**1938**	-358	-430	-277	-123	-261	-238	-340	-125	-98	-49	-349	-383	**-252**
16	**1939**	-319	-386	-312	-236	-285	-158	-377	-105	-120	-406	-319	-347	**-280**
17	**1940**	-347	-163	-253	-223	-275	-283	-393	-103	-52	-415	-293	-421	**-270**
18	**1941**	-312	-211	-339	-316	-253	-235	-436	-463	-354	-414	-454	-365	**-347**
19	**1942**	-316	-417	-264	-333	-272	-274	-359	-84	-121	-32	-395	-361	**-268**
20	**1943**	-321	-386	-246	-203	-289	-239	-125	-79	-226	-357	-537	-466	**-289**
21	**1944**	-324	-275	-307	-304	-315	-243	-363	-477	-420	-368	-485	-384	**-355**
22	**1945**	-388	-170	-264	-270	-355	-644	-982	-490	-501	-509	-361	-351	**-444**
23	**1946**	-386	-272	-337	-274	-248	-252	-261	-118	-87	-84	-456	-425	**-267**
24	**1947**	-318	-422	-165	-83	-142	-303	-335	-116	-3	-132	-426	-416	**-239**
25	**1948**	-163	-183	-178	-30	-324	-256	-439	-175	-182	-28	-89	-356	**-200**
26	**1949**	-306	-425	-338	-305	-296	-276	-223	-117	-79	-506	-366	-451	**-307**
27	**1950**	-332	-508	-269	-78	-41	-411	-439	-118	-223	-37	-473	-421	**-280**
28	**1951**	-325	-159	-125	-35	-106	-60	-40	-122	-130	-29	-169	-354	**-138**
29	**1952**	-343	-187	-184	-33	-234	-295	-345	-65	-104	-47	-436	-355	**-221**
30	**1953**	-342	-222	-257	-318	-261	-302	-377	-137	-238	-36	-450	-359	**-276**
31	**1954**	-315	-264	-269	-76	-77	-260	-412	-72	-131	-87	-57	-197	**-186**
32	**1955**	-315	-216	-179	-249	-267	-253	-422	-345	-240	-142	-100	-349	**-256**
33	**1956**	-331	-205	-158	-31	-39	-290	-241	-113	-176	-28	-446	-359	**-203**
34	**1957**	-301	-421	-274	-214	-293	-304	-372	-67	-114	-182	-363	-353	**-271**
35	**1958**	-369	-286	-263	-200	-277	-389	-344	-77	-103	-184	-524	-350	**-282**
36	**1959**	-323	-244	-125	-31	-68	-259	-434	-141	-187	-294	-292	-202	**-219**
37	**1960**	-147	-106	-154	-42	-185	-270	-78	-124	-117	-118	-526	-421	**-191**
38	**1961**	-347	-414	-330	-110	-330	-307	-364	-66	-132	-93	-469	-340	**-275**
39	**1962**	-342	-420	-260	-101	-227	-299	-386	-78	-74	-407	-456	-345	**-284**
40	**1963**	-308	-180	-166	-135	-295	-195	-443	-355	-360	-115	-363	-423	**-278**
41	**1964**	-391	-421	-329	-206	-352	-238	-433	-214	-250	-121	-116	-356	**-285**

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	**Table 10: Federal Hydro Generation Adjustment for**													
2	**Stand Ready & Deployment Losses, Heavy-Load-Hours for FY 2010**													
3														
4														
5	**Water Year**	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**June**	**July**	**Aug**	**Sep**	**Wtd Avg.**
42	**1965**	-366	-161	-184	-34	-122	-278	-385	-139	-224	-226	-115	-360	**-218**
43	**1966**	-314	-425	-315	-85	-229	-299	-473	-141	-104	-48	-431	-351	**-268**
44	**1967**	-347	-451	-267	-32	-104	-296	-378	-76	-246	-59	-105	-383	**-229**
45	**1968**	-323	-430	-329	-115	-358	-282	-382	-87	-136	-72	-112	-376	**-249**
46	**1969**	-379	-198	-125	-34	-102	-257	-114	-78	-85	-34	-403	-413	**-187**
47	**1970**	-331	-240	-340	-343	-311	-321	-433	-241	-180	-391	-346	-436	**-327**
48	**1971**	-331	-440	-337	-123	-81	-258	-323	-124	-225	-126	-167	-376	**-243**
49	**1972**	-306	-417	-299	-32	-91	-119	-67	-139	-210	-150	-64	-368	**-188**
50	**1973**	-313	-419	-263	-336	-319	-264	-377	-419	-432	-412	-261	-350	**-346**
51	**1974**	-340	-412	-164	-62	-60	-100	-52	-87	-155	-109	-85	-378	**-166**
52	**1975**	-385	-376	-271	-203	-250	-253	-442	-118	-226	-106	-432	-369	**-286**
53	**1976**	-375	-157	-98	-31	-91	-268	-242	-103	-166	-151	-54	-110	**-156**
54	**1977**	-345	-185	-283	-323	-280	-262	-428	-471	-386	-392	-405	-412	**-348**
55	**1978**	-318	-418	-261	-318	-250	-230	-323	-124	-191	-48	-441	-356	**-272**
56	**1979**	-390	-161	-299	-266	-263	-305	-375	-66	-376	-386	-250	-337	**-292**
57	**1980**	-378	-165	-319	-274	-255	-236	-425	-80	-118	-475	-333	-422	**-291**
58	**1981**	-328	-237	-134	-70	-253	-259	-381	-358	-256	-49	-52	-422	**-233**
59	**1982**	-326	-200	-340	-139	-65	-43	-343	-121	-161	-329	-96	-328	**-208**
60	**1983**	-318	-221	-309	-126	-297	-23	-425	-87	-402	-67	-98	-361	**-227**
61	**1984**	-306	-183	-333	-64	-233	-271	-438	-374	-225	-35	-436	-411	**-277**
62	**1985**	-340	-417	-418	-193	-243	-305	-334	-136	-414	-423	-186	-466	**-323**
63	**1986**	-320	-207	-290	-131	-262	-160	-249	-475	-370	-79	-411	-442	**-283**
64	**1987**	-371	-383	-265	-310	-332	-284	-363	-245	-101	-463	-272	-348	**-311**
65	**1988**	-360	-161	-331	-353	-255	-299	-382	-428	-423	-148	-400	-419	**-331**
66	**1989**	-346	-378	-336	-355	-324	-434	-330	-144	-353	-391	-208	-350	**-330**
67	**1990**	-331	-428	-190	-35	-129	-237	-66	-137	-124	-64	-349	-355	**-204**
68	**1991**	-384	-171	-178	-141	-78	-307	-303	-109	-92	-138	-119	-359	**-200**
69	**1992**	-343	-402	-220	-310	-303	-238	-429	-442	-364	-407	-271	-342	**-338**
70	**1993**	-362	-201	-276	-313	-302	-512	-420	-346	-448	-415	-399	-452	**-372**
71	**1994**	-348	-161	-340	-308	-244	-230	-387	-441	-392	-452	-264	-341	**-327**
72	**1995**	-357	-449	-341	-302	-245	-299	-389	-384	-401	-67	-457	-426	**-343**
73	**1996**	-324	-100	-32	-30	-197	-43	-222	-121	-218	-142	-119	-422	**-164**
74	**1997**	-334	-429	-283	-32	-32	-158	-242	-125	-109	-124	-113	-360	**-195**
75	**1998**	-98	-159	-336	-87	-158	-305	-413	-390	-224	-43	-429	-356	**-250**
76	**50 WY Average**	**-334**	**-298**	**-253**	**-170**	**-220**	**-263**	**-364**	**-183**	**-206**	**-199**	**-325**	**-370**	**-266**
77	**70 WY Average**	**-334**	**-288**	**-260**	**-176**	**-221**	**-258**	**-359**	**-202**	**-226**	**-209**	**-307**	**-374**	**-268**
78	**Hours**	**432**	**384**	**416**	**400**	**384**	**432**	**416**	**400**	**416**	**416**	**416**	**400**	**4912**

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	**Table 11: Federal Hydro Generation Adjustment for**													
2	**Stand Ready & Deployment Losses, Flat Energy for FY 2010**													
3														
4														
5	**Water Year**	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**June**	**July**	**Aug**	**Sep**	**Wtd Avg.**
6	**1929**	-89	-39	-25	-59	-25	-57	-96	-63	-88	-74	-79	-102	**-67**
7	**1930**	-77	-67	-55	-39	-52	-20	-138	-93	-97	-79	-81	-105	**-75**
8	**1931**	-70	-70	-115	-31	-22	-20	-88	-132	-182	-59	-87	-66	**-79**
9	**1932**	-62	-33	-27	-23	-25	-25	-109	-43	-83	-101	-105	-74	**-59**
10	**1933**	-68	-61	-68	-19	-69	-26	-98	-64	-79	-41	-53	-69	**-59**
11	**1934**	-110	-59	-31	-10	-21	-38	-63	-9	-3	-26	-80	-101	**-46**
12	**1935**	-73	-62	-66	-17	-40	-22	-98	-81	-106	-19	-130	-101	**-68**
13	**1936**	-68	-43	-28	-21	-26	-27	-102	-36	-31	-66	-99	-72	**-51**
14	**1937**	-69	-69	-28	-39	-22	-22	-92	-108	-90	-149	-86	-102	**-73**
15	**1938**	-68	-98	-33	-66	-38	-21	-100	-67	-57	-57	-79	-75	**-63**
16	**1939**	-68	-81	-53	-42	-32	10	-103	-56	-65	-78	-110	-68	**-62**
17	**1940**	-78	-44	-69	-42	-28	-55	-98	-55	-30	-92	-79	-102	**-65**
18	**1941**	-64	-26	-67	-35	-22	-22	-126	-134	-84	-79	-105	-74	**-70**
19	**1942**	-58	-92	-30	-123	-27	-32	-86	-38	-68	-18	-140	-69	**-65**
20	**1943**	-68	-73	-24	-65	-38	-21	-72	-43	-95	-79	-148	-125	**-71**
21	**1944**	-59	-34	-56	-30	-54	-24	-91	-137	-132	-73	-147	-76	**-76**
22	**1945**	-90	-42	-29	-22	-24	-29	-93	-163	-176	-143	-76	-69	**-80**
23	**1946**	-89	-35	-63	-38	-23	-23	-70	-63	-50	-47	-90	-101	**-58**
24	**1947**	-59	-96	-51	-45	-63	-75	-102	-62	-2	-74	-82	-101	**-68**
25	**1948**	-95	-58	-61	-16	-59	-26	-158	-94	-19	-16	-29	-74	**-58**
26	**1949**	-67	-97	-65	-39	-36	-30	-69	-63	-46	-142	-111	-126	**-75**
27	**1950**	-61	-146	-30	-42	-24	-121	-159	-63	-89	-21	-142	-101	**-83**
28	**1951**	-77	-43	-44	-19	-60	-45	-23	-66	-75	-16	-63	-66	**-50**
29	**1952**	-107	-38	-59	-18	-43	-54	-104	-35	-60	-26	-84	-73	**-58**
30	**1953**	-65	-28	-25	-55	-104	-53	-94	-74	-81	-20	-89	-68	**-63**
31	**1954**	-66	-33	-70	-41	-44	-25	-134	-39	-37	-26	-32	-51	**-50**
32	**1955**	-68	-72	-61	-39	-26	-24	-121	-99	-83	-41	-30	-65	**-61**
33	**1956**	-78	-65	-44	-17	-22	-36	-98	-61	-42	-16	-143	-69	**-58**
34	**1957**	-67	-94	-32	-69	-34	-54	-102	-36	-31	-65	-79	-67	**-61**
35	**1958**	-87	-35	-30	-73	-28	-120	-99	-41	-25	-61	-154	-67	**-69**
36	**1959**	-68	-32	-29	-16	-39	-26	-155	-76	-69	-118	-122	-54	**-67**
37	**1960**	-85	-57	-41	-22	-69	-31	-45	-67	-67	-66	-151	-99	**-67**
38	**1961**	-69	-90	-60	-59	-120	-76	-114	-36	-47	-26	-97	-64	**-71**
39	**1962**	-61	-89	-69	-24	-41	-54	-120	-42	-43	-75	-106	-66	**-66**
40	**1963**	-68	-38	-51	-73	-38	-70	-133	-102	-108	-65	-134	-102	**-82**
41	**1964**	-92	-91	-71	-71	-122	-21	-138	-115	-77	-34	-28	-68	**-77**

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	**Table 11: Federal Hydro Generation Adjustment for**													
2	**Stand Ready & Deployment Losses, Flat Energy for FY 2010**													
3														
4														
5	**Water Year**	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**June**	**July**	**Aug**	**Sep**	**Wtd Avg.**
42	**1965**	-95	-44	-61	-18	-70	-31	-124	-75	-112	-106	-28	-69	**-69**
43	**1966**	-69	-96	-69	-46	-76	-55	-179	-76	-60	-27	-150	-68	**-81**
44	**1967**	-65	-103	-68	-17	-59	-40	-97	-41	-103	-33	-9	-75	**-59**
45	**1968**	-68	-101	-58	-62	-122	-94	-98	-25	-79	-40	-23	-89	**-71**
46	**1969**	-102	-60	-29	-18	-58	-24	-66	-42	-49	-19	-83	-101	**-54**
47	**1970**	-73	-32	-67	-58	-119	-102	-126	-75	-71	-108	-83	-119	**-86**
48	**1971**	-60	-101	-66	-66	-46	-90	-90	-67	-74	-46	-74	-75	**-71**
49	**1972**	-66	-94	-71	-17	-52	-99	-39	-74	-48	-45	-36	-74	**-60**
50	**1973**	-66	-95	-69	-121	-58	-28	-95	-127	-123	-79	-107	-73	**-87**
51	**1974**	-65	-94	-51	-33	-34	-65	-30	-47	-54	-37	-26	-74	**-51**
52	**1975**	-93	-74	-30	-62	-38	-24	-134	-63	-73	-33	-82	-73	**-65**
53	**1976**	-104	-39	-75	-17	-52	-29	-75	-55	-96	-59	-30	-61	**-58**
54	**1977**	-72	-36	-31	-37	-31	-23	-126	-131	-85	-78	-90	-98	**-70**
55	**1978**	-64	-68	-29	-39	-23	-22	-89	-67	-50	-62	-87	-75	**-56**
56	**1979**	-105	-44	-28	-96	-40	-55	-96	-35	-91	-73	-106	-65	**-70**
57	**1980**	-75	-43	-71	-24	-26	-20	-130	-43	-68	-104	-82	-102	**-66**
58	**1981**	-67	-32	-41	-38	-100	-25	-98	-108	-88	-28	-21	-100	**-62**
59	**1982**	-67	-37	-65	-75	-35	-26	-99	-65	-59	-129	-30	-71	**-63**
60	**1983**	-73	-25	-71	-68	-37	-14	-151	-47	-124	-37	-30	-73	**-62**
61	**1984**	-61	-59	-63	-35	-39	-28	-157	-104	-59	-20	-82	-101	**-67**
62	**1985**	-88	-92	-111	-63	-20	-56	-102	-73	-127	-98	-81	-138	**-88**
63	**1986**	-67	-67	-33	-70	-37	-83	-69	-155	-111	-38	-81	-123	**-78**
64	**1987**	-86	-81	-29	-32	-120	-59	-101	-78	-58	-103	-107	-71	**-77**
65	**1988**	-68	-43	-55	-58	-22	-56	-96	-109	-133	-58	-82	-103	**-74**
66	**1989**	-64	-68	-63	-60	-58	-24	-99	-78	-106	-74	-78	-69	**-70**
67	**1990**	-65	-98	-64	-19	-69	-20	-38	-74	-38	-42	-127	-70	**-60**
68	**1991**	-89	-45	-57	-76	-45	-58	-83	-58	-53	-46	-49	-68	**-61**
69	**1992**	-66	-81	-17	-30	-37	-21	-130	-113	-114	-78	-110	-72	**-72**
70	**1993**	-68	-37	-33	-31	-55	-28	-127	-89	-134	-77	-73	-123	**-73**
71	**1994**	-64	-43	-65	-39	-39	-21	-102	-133	-99	-111	-107	-69	**-75**
72	**1995**	-66	-100	-67	-39	-21	-75	-127	-105	-105	-56	-103	-103	**-81**
73	**1996**	-76	-53	-18	-16	-68	-25	-99	-65	-73	-48	-27	-101	**-55**
74	**1997**	-66	-100	-70	-17	-18	-109	-78	-67	-31	-42	-27	-87	**-60**
75	**1998**	-57	-42	-63	-39	-69	-55	-132	-104	-73	-26	-84	-69	**-67**
76	**50 WY Average**	**-75**	**-65**	**-51**	**-41**	**-48**	**-43**	**-101**	**-70**	**-72**	**-59**	**-87**	**-81**	**-66**
77	**70 WY Average**	**-74**	**-64**	**-52**	**-43**	**-48**	**-43**	**-103**	**-75**	**-76**	**-61**	**-83**	**-83**	**-67**
78	**Hours**	**744**	**721**	**744**	**744**	**672**	**743**	**720**	**744**	**720**	**744**	**744**	**720**	**8760**

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	**Table 12: Federal Hydro Generation Adjustment for**													
2	**Stand Ready & Deployment Losses, Light-Load-Hours for FY 2011**													
3														
4														
5	**Water Year**	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**June**	**July**	**Aug**	**Sep**	**Wtd Avg.**
6	**1929**	325	304	328	331	335	327	278	867	293	335	155	287	**351**
7	**1930**	353	211	331	338	283	341	707	702	303	342	158	293	**365**
8	**1931**	349	262	320	330	335	439	1,417	434	322	169	301	308	**410**
9	**1932**	326	347	340	331	1,028	646	331	0	101	380	319	316	**365**
10	**1933**	349	341	301	0	114	328	315	21	395	74	78	319	**216**
11	**1934**	323	102	0	0	0	-102	0	0	0	94	191	300	**77**
12	**1935**	353	337	282	0	-65	343	324	0	183	2	227	294	**188**
13	**1936**	345	288	315	334	320	311	279	236	0	208	325	281	**271**
14	**1937**	349	221	321	333	344	687	1,795	281	273	313	357	298	**457**
15	**1938**	343	356	272	-36	320	281	194	0	208	35	245	312	**206**
16	**1939**	343	352	330	311	309	508	310	0	185	342	146	277	**283**
17	**1940**	358	271	302	311	301	262	308	68	0	304	166	298	**246**
18	**1941**	345	294	279	300	290	291	299	292	283	348	324	316	**305**
19	**1942**	314	277	269	294	299	304	288	223	175	0	218	295	**245**
20	**1943**	351	352	256	122	316	279	105	0	82	274	344	660	**260**
21	**1944**	307	308	316	322	348	339	317	626	641	291	267	307	**366**
22	**1945**	322	307	307	317	787	1,686	1,904	186	324	323	271	283	**570**
23	**1946**	320	319	283	303	278	296	236	31	4	0	375	300	**227**
24	**1947**	321	321	149	-46	134	332	144	0	0	0	354	297	**164**
25	**1948**	205	101	258	0	294	294	172	0	98	0	88	309	**148**
26	**1949**	333	334	282	331	313	311	231	0	0	320	179	642	**273**
27	**1950**	333	347	272	72	-70	323	183	37	111	86	226	304	**186**
28	**1951**	296	308	-10	0	0	335	240	0	81	16	187	294	**144**
29	**1952**	292	300	271	0	326	281	207	0	0	14	362	280	**190**
30	**1953**	338	334	320	266	289	294	299	0	394	0	370	298	**263**
31	**1954**	339	325	301	80	-23	301	309	0	92	14	0	131	**155**
32	**1955**	339	239	254	307	337	332	295	225	395	88	98	291	**265**
33	**1956**	344	204	102	0	0	318	234	0	402	0	221	301	**174**
34	**1957**	317	309	274	103	312	293	311	0	85	216	267	288	**229**
35	**1958**	334	349	290	105	305	324	319	0	0	195	300	286	**231**
36	**1959**	346	289	172	0	-65	299	170	84	100	132	226	131	**157**
37	**1960**	42	-93	103	0	110	302	177	0	0	30	311	302	**104**
38	**1961**	349	349	317	0	332	325	175	0	102	96	303	282	**216**
39	**1962**	329	363	301	106	321	300	328	0	0	345	325	285	**248**
40	**1963**	298	300	141	-13	310	271	305	216	333	23	215	302	**221**
41	**1964**	324	364	293	104	327	351	633	37	84	0	66	323	**237**

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2	**Stand Ready & Deployment Losses, Light-Load-Hours for FY 2011**													
3														
4														
5	**Water Year**	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**June**	**July**	**Aug**	**Sep**	**Wtd Avg.**
42	**1965**	302	298	121	0	-48	314	325	73	119	147	116	297	**172**
43	**1966**	338	345	294	76	309	304	255	0	0	19	205	286	**199**
44	**1967**	337	361	298	0	0	316	285	172	93	0	169	312	**195**
45	**1968**	346	307	287	0	325	336	290	236	153	0	191	313	**229**
46	**1969**	295	173	175	0	0	296	139	0	0	0	307	291	**138**
47	**1970**	348	349	318	273	320	327	295	230	4	284	234	429	**285**
48	**1971**	336	357	278	0	-15	315	206	0	393	68	86	314	**193**
49	**1972**	332	326	293	0	0	59	200	99	228	91	4	316	**163**
50	**1973**	334	342	296	304	310	304	290	302	299	344	113	272	**293**
51	**1974**	339	331	151	0	0	-69	241	233	222	113	91	305	**164**
52	**1975**	311	369	326	115	321	293	298	31	397	67	363	314	**262**
53	**1976**	291	96	-109	0	-68	303	220	0	0	0	0	0	**60**
54	**1977**	351	320	340	341	352	369	747	436	329	283	297	295	**370**
55	**1978**	288	334	264	298	279	271	232	15	191	41	351	324	**238**
56	**1979**	356	323	356	188	322	292	286	193	299	325	122	276	**277**
57	**1980**	347	331	290	313	288	281	310	0	0	370	215	297	**254**
58	**1981**	349	314	38	0	276	303	290	185	403	0	67	302	**206**
59	**1982**	350	300	283	-11	-56	-68	316	3	96	131	92	295	**145**
60	**1983**	266	292	290	0	314	-83	208	81	328	0	88	318	**172**
61	**1984**	338	101	282	0	330	307	186	140	11	0	367	308	**194**
62	**1985**	321	277	280	105	276	292	236	0	328	317	125	576	**259**
63	**1986**	349	207	342	23	319	134	237	197	332	15	324	477	**243**
64	**1987**	321	295	278	294	330	271	319	227	0	354	105	276	**257**
65	**1988**	342	301	338	338	341	341	295	284	604	179	307	293	**328**
66	**1989**	327	356	287	317	297	1,097	148	0	176	330	100	282	**308**
67	**1990**	339	315	144	0	81	282	242	0	0	154	223	286	**171**
68	**1991**	325	120	97	0	0	288	172	0	0	0	86	296	**114**
69	**1992**	344	285	289	297	319	279	280	278	290	341	106	233	**279**
70	**1993**	346	314	318	310	321	1,229	508	163	809	353	342	637	**465**
71	**1994**	329	287	285	307	326	308	294	295	302	274	113	267	**282**
72	**1995**	338	366	291	303	281	330	312	220	306	81	335	301	**287**
73	**1996**	318	-109	0	0	108	0	236	0	0	0	54	296	**74**
74	**1997**	344	336	300	0	0	92	231	132	86	-83	133	301	**156**
75	**1998**	4	289	284	103	115	291	309	308	92	-52	350	291	**197**
76	**50 WY Average**	**322**	**292**	**251**	**141**	**232**	**338**	**363**	**128**	**170**	**137**	**222**	**303**	**239**
77	**70 WY Average**	**321**	**284**	**252**	**142**	**231**	**331**	**337**	**130**	**185**	**142**	**211**	**311**	**238**
78	**Hours**	**328**	**321**	**328**	**344**	**288**	**311**	**304**	**344**	**304**	**344**	**312**	**320**	**3848**

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	**Table 13: Federal Hydro Generation Adjustment for**													
2	**Stand Ready & Deployment Losses, Heavy-Load-Hours for FY 2011**													
3														
4														
5	**Water Year**	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**June**	**July**	**Aug**	**Sep**	**Wtd Avg.**
6	**1929**	-444	-312	-357	-400	-307	-406	-446	-949	-437	-462	-241	-317	**-422**
7	**1930**	-425	-303	-416	-371	-328	-408	-760	-870	-395	-445	-249	-379	**-445**
8	**1931**	-414	-355	-362	-405	-306	-420	-1,291	-643	-377	-283	-352	-334	**-463**
9	**1932**	-446	-295	-366	-408	-826	-573	-429	-117	-148	-516	-483	-351	**-412**
10	**1933**	-416	-371	-350	-55	-208	-336	-467	-187	-457	-85	-144	-344	**-286**
11	**1934**	-405	-202	-3	3	-4	-76	-121	-156	-9	-101	-267	-386	**-145**
12	**1935**	-419	-371	-467	-51	-95	-351	-425	-169	-346	-9	-381	-321	**-287**
13	**1936**	-413	-323	-350	-406	-357	-402	-456	-285	-45	-322	-399	-316	**-340**
14	**1937**	-415	-314	-352	-372	-314	-609	-1,573	-493	-422	-404	-390	-383	**-506**
15	**1938**	-410	-470	-316	-144	-312	-297	-430	-167	-396	-175	-306	-394	**-319**
16	**1939**	-456	-371	-420	-362	-293	-410	-453	-121	-293	-437	-290	-313	**-353**
17	**1940**	-429	-361	-362	-363	-339	-350	-440	-310	-52	-442	-248	-385	**-339**
18	**1941**	-461	-234	-326	-326	-269	-310	-375	-442	-323	-446	-485	-394	**-367**
19	**1942**	-387	-390	-314	-562	-333	-325	-362	-287	-405	1	-395	-324	**-341**
20	**1943**	-417	-340	-351	-237	-303	-297	-296	-140	-209	-382	-359	-741	**-339**
21	**1944**	-386	-264	-396	-344	-316	-346	-475	-799	-684	-394	-304	-391	**-425**
22	**1945**	-438	-329	-346	-393	-648	-1,327	-1,648	-339	-376	-405	-321	-311	**-578**
23	**1946**	-377	-277	-461	-340	-265	-368	-330	-265	-143	-16	-412	-326	**-300**
24	**1947**	-395	-436	-229	-158	-222	-491	-317	-179	-6	-39	-417	-324	**-270**
25	**1948**	-361	-200	-332	-52	-328	-374	-434	-114	-150	-6	-133	-398	**-241**
26	**1949**	-405	-451	-465	-362	-298	-324	-304	-142	-63	-406	-312	-728	**-354**
27	**1950**	-454	-327	-316	-163	-62	-347	-305	-272	-230	-141	-352	-390	**-282**
28	**1951**	-381	-336	-128	-28	-112	-403	-248	-160	-208	-20	-263	-317	**-219**
29	**1952**	-395	-313	-342	-53	-329	-294	-426	-86	-126	-88	-392	-426	**-274**
30	**1953**	-456	-270	-349	-288	-410	-375	-375	-168	-345	-15	-404	-324	**-316**
31	**1954**	-405	-250	-356	-168	-96	-366	-452	-149	-241	-49	-28	-198	**-232**
32	**1955**	-403	-334	-327	-348	-369	-341	-364	-457	-387	-86	-137	-313	**-322**
33	**1956**	-418	-293	-174	-55	-95	-334	-310	-168	-398	-6	-351	-329	**-247**
34	**1957**	-390	-418	-319	-215	-297	-361	-455	-71	-105	-333	-320	-311	**-300**
35	**1958**	-450	-300	-332	-221	-336	-488	-418	-74	-42	-312	-345	-315	**-304**
36	**1959**	-411	-221	-249	-53	-86	-367	-307	-193	-257	-343	-368	-191	**-257**
37	**1960**	-230	-61	-171	-62	-197	-321	-240	-141	-110	-122	-487	-397	**-214**
38	**1961**	-417	-366	-402	-130	-477	-488	-434	-128	-157	-190	-378	-316	**-325**
39	**1962**	-452	-377	-354	-154	-323	-362	-416	-93	-120	-474	-486	-312	**-328**
40	**1963**	-374	-316	-224	-155	-299	-314	-436	-462	-492	-113	-386	-384	**-331**
41	**1964**	-445	-380	-378	-219	-475	-355	-709	-272	-120	-6	-173	-351	**-323**

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	**Table 13: Federal Hydro Generation Adjustment for**													
2	**Stand Ready & Deployment Losses, Heavy-Load-Hours for FY 2011**													
3														
4														
5	**Water Year**	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**June**	**July**	**Aug**	**Sep**	**Wtd Avg.**
42	**1965**	-433	-333	-218	-54	-139	-327	-434	-185	-229	-335	-168	-320	**-266**
43	**1966**	-407	-453	-372	-176	-438	-317	-390	-168	-124	-28	-341	-310	**-294**
44	**1967**	-452	-342	-348	-165	-123	-336	-440	-254	-226	-13	-209	-396	**-277**
45	**1968**	-457	-298	-374	-133	-332	-402	-373	-268	-270	-43	-189	-380	**-294**
46	**1969**	-416	-265	-253	-55	-128	-367	-313	-137	-96	-12	-387	-321	**-232**
47	**1970**	-417	-275	-498	-295	-468	-407	-376	-375	-158	-459	-303	-558	**-382**
48	**1971**	-448	-336	-323	-143	-121	-336	-332	-163	-448	-91	-147	-398	**-276**
49	**1972**	-403	-438	-344	-53	-103	-242	-236	-204	-335	-114	-11	-399	**-240**
50	**1973**	-451	-448	-350	-507	-339	-321	-370	-520	-394	-445	-260	-432	**-402**
51	**1974**	-453	-310	-228	-7	-4	-127	-279	-330	-326	-143	-159	-387	**-230**
52	**1975**	-382	-382	-364	-231	-312	-373	-384	-266	-452	-132	-390	-399	**-340**
53	**1976**	-373	-196	-118	-91	-87	-320	-334	-173	-132	-7	0	-26	**-156**
54	**1977**	-421	-321	-376	-368	-372	-425	-788	-644	-363	-391	-356	-386	**-435**
55	**1978**	-373	-323	-311	-326	-265	-357	-331	-187	-208	-179	-387	-354	**-301**
56	**1979**	-553	-351	-381	-338	-315	-363	-436	-263	-392	-458	-266	-302	**-369**
57	**1980**	-418	-353	-373	-325	-276	-298	-448	-160	-134	-462	-291	-381	**-327**
58	**1981**	-417	-246	-151	-25	-388	-317	-383	-462	-352	-6	-86	-396	**-269**
59	**1982**	-416	-306	-468	-160	-84	-139	-462	-174	-236	-351	-134	-359	**-274**
60	**1983**	-351	-225	-374	-145	-300	-41	-298	-191	-510	-38	-133	-393	**-249**
61	**1984**	-453	-201	-462	-82	-328	-321	-303	-353	-164	-4	-392	-336	**-285**
62	**1985**	-377	-391	-328	-222	-260	-360	-418	-166	-502	-404	-292	-689	**-368**
63	**1986**	-416	-301	-373	-194	-307	-268	-324	-335	-494	-160	-392	-598	**-348**
64	**1987**	-380	-325	-321	-368	-475	-387	-412	-375	-117	-448	-263	-310	**-347**
65	**1988**	-407	-332	-418	-343	-313	-414	-378	-442	-662	-287	-351	-378	**-395**
66	**1989**	-454	-332	-464	-387	-330	-892	-310	-169	-344	-462	-202	-311	**-390**
67	**1990**	-464	-434	-243	-55	-196	-297	-250	-158	-132	-252	-381	-315	**-266**
68	**1991**	-440	-191	-195	-91	-97	-359	-297	-164	-115	-6	-157	-330	**-205**
69	**1992**	-457	-325	-312	-368	-303	-299	-456	-507	-475	-440	-200	-379	**-376**
70	**1993**	-412	-318	-356	-378	-354	-989	-611	-333	-804	-447	-364	-733	**-512**
71	**1994**	-458	-322	-467	-336	-324	-385	-376	-453	-399	-455	-268	-301	**-379**
72	**1995**	-407	-345	-480	-338	-263	-487	-462	-462	-399	-198	-415	-383	**-388**
73	**1996**	-396	-109	-8	-89	-157	-61	-322	-170	-116	-6	-136	-326	**-158**
74	**1997**	-460	-322	-354	-54	-51	-289	-399	-222	-162	-8	-176	-367	**-241**
75	**1998**	-125	-322	-459	-183	-206	-360	-448	-472	-115	-87	-419	-316	**-294**
76	**50 WY Average**	**-414**	**-325**	**-325**	**-220**	**-277**	**-379**	**-462**	**-279**	**-257**	**-209**	**-301**	**-362**	**-319**
77	**70 WY Average**	**-414**	**-319**	**-332**	**-222**	**-274**	**-376**	**-441**	**-285**	**-278**	**-221**	**-291**	**-371**	**-320**
78	**Hours**	**416**	**400**	**416**	**400**	**384**	**432**	**416**	**400**	**416**	**400**	**432**	**400**	**4912**

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	**Table 14: Federal Hydro Generation Adjustment for**													
2	**Stand Ready & Deployment Losses, Flat Energy for FY 2011**													
3														
4														
5	**Water Year**	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**June**	**July**	**Aug**	**Sep**	**Wtd Avg.**
6	**1929**	-105	-38	-55	-62	-32	-99	-140	-109	-129	-93	-75	-48	**-82**
7	**1930**	-82	-74	-87	-43	-66	-94	-141	-143	-100	-81	-78	-81	**-89**
8	**1931**	-78	-80	-61	-65	-31	-60	-148	-145	-82	-74	-78	-49	**-80**
9	**1932**	-106	-9	-55	-66	-32	-62	-108	-63	-43	-101	-147	-54	**-71**
10	**1933**	-79	-54	-63	-30	-70	-58	-137	-91	-97	-11	-51	-49	**-66**
11	**1934**	-84	-67	-2	2	-2	-87	-70	-84	-5	-11	-75	-81	**-47**
12	**1935**	-78	-56	-137	-28	-82	-60	-109	-91	-123	-4	-126	-48	**-78**
13	**1936**	-79	-51	-57	-64	-67	-104	-146	-45	-26	-77	-95	-50	**-72**
14	**1937**	-78	-76	-55	-46	-32	-66	-151	-135	-128	-73	-77	-80	**-83**
15	**1938**	-78	-102	-57	-94	-41	-55	-167	-90	-141	-78	-75	-80	**-88**
16	**1939**	-104	-49	-89	-51	-35	-26	-131	-65	-91	-77	-107	-50	**-73**
17	**1940**	-82	-80	-70	-52	-65	-94	-124	-135	-30	-97	-75	-81	**-82**
18	**1941**	-106	1	-59	-36	-30	-59	-91	-103	-67	-79	-146	-78	**-71**
19	**1942**	-78	-93	-57	-166	-62	-62	-88	-51	-160	0	-138	-49	**-84**
20	**1943**	-78	-32	-83	-71	-38	-56	-127	-75	-86	-79	-64	-118	**-76**
21	**1944**	-81	-9	-82	-36	-31	-59	-140	-140	-124	-78	-65	-81	**-77**
22	**1945**	-103	-46	-58	-65	-33	-66	-148	-97	-80	-69	-73	-47	**-74**
23	**1946**	-70	-12	-133	-42	-32	-90	-91	-128	-81	-9	-82	-48	**-69**
24	**1947**	-79	-99	-62	-106	-70	-146	-122	-96	-3	-21	-94	-48	**-79**
25	**1948**	-111	-66	-72	-28	-61	-94	-178	-61	-45	-3	-40	-84	**-70**
26	**1949**	-80	-102	-136	-41	-36	-58	-78	-76	-36	-70	-106	-119	**-78**
27	**1950**	-107	-27	-57	-54	-66	-66	-99	-129	-86	-36	-109	-82	**-77**
28	**1951**	-82	-50	-76	-15	-64	-94	-42	-86	-86	-3	-75	-46	**-60**
29	**1952**	-92	-40	-72	-29	-48	-54	-159	-46	-73	-41	-76	-112	**-70**
30	**1953**	-106	-1	-54	-32	-110	-95	-90	-91	-33	-8	-79	-48	**-62**
31	**1954**	-77	6	-66	-53	-65	-87	-130	-80	-100	-20	-17	-52	**-62**
32	**1955**	-76	-79	-71	-45	-66	-59	-86	-142	-57	-6	-38	-45	**-64**
33	**1956**	-82	-72	-52	-29	-55	-61	-80	-90	-60	-3	-111	-49	**-62**
34	**1957**	-78	-94	-57	-68	-36	-87	-132	-38	-25	-79	-74	-45	**-68**
35	**1958**	-104	-11	-57	-71	-61	-148	-107	-40	-25	-77	-74	-48	**-69**
36	**1959**	-77	6	-64	-28	-77	-88	-106	-65	-106	-124	-119	-48	**-75**
37	**1960**	-110	-75	-50	-34	-65	-60	-64	-76	-64	-52	-152	-86	**-74**
38	**1961**	-79	-47	-85	-70	-130	-147	-177	-69	-48	-57	-93	-50	**-87**
39	**1962**	-108	-47	-66	-34	-47	-85	-102	-50	-69	-95	-146	-47	**-75**
40	**1963**	-78	-42	-63	-90	-38	-69	-123	-148	-143	-50	-134	-79	**-88**
41	**1964**	-106	-49	-82	-70	-131	-59	-142	-129	-34	-3	-73	-51	**-77**

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	**Table 14: Federal Hydro Generation Adjustment for**													
2	**Stand Ready & Deployment Losses, Flat Energy for FY 2011**													
3														
4														
5	**Water Year**	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**June**	**July**	**Aug**	**Sep**	**Wtd Avg.**
42	**1965**	-109	-52	-69	-29	-100	-59	-114	-66	-82	-112	-49	-45	**-74**
43	**1966**	-79	-98	-78	-59	-118	-57	-117	-90	-72	-6	-112	-45	**-77**
44	**1967**	-104	-29	-63	-89	-70	-63	-134	-57	-92	-7	-50	-82	**-70**
45	**1968**	-103	-29	-83	-72	-50	-93	-93	-35	-91	-23	-30	-72	**-64**
46	**1969**	-103	-70	-65	-29	-73	-89	-122	-73	-56	-7	-96	-49	**-69**
47	**1970**	-80	3	-138	-33	-130	-100	-93	-95	-90	-115	-78	-119	**-89**
48	**1971**	-103	-28	-58	-77	-76	-63	-105	-87	-93	-18	-50	-82	**-70**
49	**1972**	-79	-98	-63	-28	-59	-116	-52	-64	-97	-19	-5	-81	**-63**
50	**1973**	-105	-96	-66	-132	-61	-59	-91	-140	-101	-80	-104	-119	**-96**
51	**1974**	-104	-25	-61	-4	-2	-103	-60	-70	-94	-25	-54	-79	**-57**
52	**1975**	-76	-47	-59	-71	-41	-94	-96	-129	-94	-40	-74	-82	**-76**
53	**1976**	-80	-66	-114	-49	-79	-59	-100	-93	-76	-4	0	-14	**-61**
54	**1977**	-81	-35	-61	-40	-62	-93	-140	-145	-71	-79	-82	-83	**-81**
55	**1978**	-81	-30	-57	-37	-32	-94	-93	-94	-40	-77	-78	-53	**-64**
56	**1979**	-152	-51	-56	-95	-42	-89	-131	-52	-101	-96	-103	-45	**-85**
57	**1980**	-81	-48	-81	-30	-34	-56	-128	-86	-77	-77	-79	-80	**-72**
58	**1981**	-80	4	-67	-14	-103	-58	-99	-163	-33	-3	-22	-85	**-60**
59	**1982**	-78	-36	-137	-91	-72	-109	-134	-92	-96	-128	-39	-69	**-90**
60	**1983**	-79	5	-81	-78	-37	-59	-85	-65	-156	-20	-41	-77	**-64**
61	**1984**	-104	-66	-134	-44	-46	-58	-96	-125	-90	-2	-74	-50	**-74**
62	**1985**	-69	-93	-60	-71	-30	-87	-142	-89	-152	-71	-117	-127	**-93**
63	**1986**	-79	-75	-58	-94	-39	-100	-87	-89	-146	-79	-92	-121	**-88**
64	**1987**	-71	-49	-57	-62	-130	-112	-103	-97	-68	-77	-109	-50	**-82**
65	**1988**	-77	-50	-85	-28	-33	-98	-94	-106	-128	-71	-75	-80	**-77**
66	**1989**	-110	-26	-133	-62	-61	-60	-116	-91	-125	-96	-76	-47	**-84**
67	**1990**	-110	-100	-73	-30	-77	-55	-42	-85	-76	-64	-128	-48	**-74**
68	**1991**	-103	-52	-66	-49	-55	-88	-99	-88	-66	-3	-55	-52	**-65**
69	**1992**	-104	-53	-47	-61	-37	-57	-145	-144	-152	-79	-72	-107	**-88**
70	**1993**	-78	-37	-59	-60	-65	-61	-139	-104	-123	-77	-68	-124	**-83**
71	**1994**	-111	-51	-135	-39	-46	-95	-93	-107	-103	-118	-108	-48	**-88**
72	**1995**	-79	-29	-140	-41	-30	-145	-135	-146	-102	-69	-101	-79	**-92**
73	**1996**	-81	-109	-4	-48	-43	-35	-87	-91	-67	-3	-56	-49	**-56**
74	**1997**	-106	-29	-66	-29	-29	-129	-133	-59	-57	-43	-47	-70	**-67**
75	**1998**	-68	-50	-131	-51	-68	-87	-128	-111	-28	-71	-97	-46	**-78**
76	**50 WY Average**	**-89**	**-50**	**-71**	**-53**	**-59**	**-79**	**-114**	**-91**	**-77**	**-49**	**-82**	**-66**	**-73**
77	**70 WY Average**	**-90**	**-50**	**-74**	**-53**	**-58**	**-80**	**-113**	**-93**	**-83**	**-53**	**-81**	**-68**	**-75**
78	**Hours**	**744**	**721**	**744**	**744**	**672**	**743**	**720**	**744**	**720**	**744**	**744**	**720**	**8760**

Table 15: PNW and California Load Growth Standard Deviation Calculations for One to Four Years

PNW Load Growth Standard Deviations Reflect Removal of Total DSI Loads Served by BPA

Pacific Northwest (NWPP)

Year	NWPP with DSI Load	DSI Load	NWPP without DSI Load	% Change Over 1 Yr	% Change Over 2 Yr	% Change Over 3 Yr	% Change Over 4 Yr
1985	29,372	2,170	27,202				
1986	28,927	2,232	26,695	-1.86%			
1987	29,954	2,485	27,469	2.90%	0.98%		
1988	31,986	2,986	29,001	5.57%	8.64%	6.61%	
1989	33,265	3,083	30,182	4.07%	9.88%	13.06%	10.96%
1990	34,372	3,130	31,242	3.51%	7.73%	13.73%	17.03%
1991	34,840	3,074	31,767	1.68%	5.25%	9.54%	15.64%
1992	35,114	2,878	32,236	1.48%	3.18%	6.81%	11.16%
1993	35,708	2,460	33,248	3.14%	4.66%	6.42%	10.16%
1994	36,107	2,231	33,877	1.89%	5.09%	6.64%	8.43%
1995	36,336	2,436	33,900	0.07%	1.96%	5.16%	6.71%
1996	38,151	2,680	35,470	4.63%	4.70%	6.69%	10.03%
1997	37,911	2,791	35,120	-0.99%	3.60%	3.67%	5.63%
1998	39,144	2,819	36,325	3.43%	2.41%	7.15%	7.23%
1999	39,829	2,815	37,014	1.90%	5.39%	4.35%	9.19%
2000	40,479	2,473	38,007	2.68%	4.63%	8.22%	7.15%
2001	36,998	285	36,713	-3.40%	-0.81%	1.07%	4.54%
2002	39,121	410	38,711	5.44%	1.85%	4.59%	6.57%
2003	38,881	439	38,442	-0.70%	4.71%	1.15%	3.86%
2004	39,646	328	39,318	2.28%	1.57%	7.10%	3.45%
2005	41,199	308	40,891	4.00%	6.37%	5.63%	11.38%

Avg	**0.021**	**0.043**	**0.065**	**0.088**
StDev	**0.0242**	**0.0269**	**0.0330**	**0.0380**
Min	**-0.034**	**-0.008**	**0.011**	**0.035**
Max	**0.056**	**0.099**	**0.137**	**0.170**

NWPP (Without DSI Load) & California Load Correlation (Post 1986)	**0.971**

Year			CAL/MEX	% Change Over 1 Yr	% Change Over 2 Yr	% Change Over 3 Yr	% Change Over 4 Yr
1987			24,498				
1988			25,491	4.05%			
1989			26,153	2.60%	6.76%		
1990			27,021	3.32%	6.00%	10.30%	
1991			26,324	-2.58%	0.65%	3.27%	7.46%
1992			27,021	2.65%	0.00%	3.32%	6.00%
1993			26,895	-0.46%	2.17%	-0.46%	2.84%
1994			27,820	3.44%	2.96%	5.68%	2.96%
1995			27,454	-1.31%	2.08%	1.61%	4.29%
1996			28,390	3.41%	2.05%	5.56%	5.07%
1997			29,326	3.30%	6.82%	5.42%	9.04%
1998			29,064	-0.90%	2.37%	5.86%	4.47%
1999			29,943	3.02%	2.10%	5.47%	9.06%
2000			31,461	5.07%	8.25%	7.28%	10.82%
2001			30,708	-2.39%	2.55%	5.66%	4.71%
2002			31,689	3.20%	0.73%	5.83%	9.03%
2003			31,632	-0.18%	3.01%	0.54%	5.64%
2004			32,945	4.15%	3.96%	7.29%	4.72%
2005			32,534	-1.25%	2.85%	2.67%	5.95%

Avg	**0.016**	**0.033**	**0.047**	**0.061**
StDev	**0.0251**	**0.0235**	**0.0274**	**0.0242**
Min	**-0.026**	**0.000**	**-0.005**	**0.028**
Max	**0.051**	**0.082**	**0.103**	**0.108**

Note: For the reason describe below, California load growth variability was calculated using data that starts in 1987.

Prior to 1997, the Southern Nevada reporting-area data were included in the California sub-area data.
The Arizona-New Mexico-Southern Nevada Power Area and California-Mexico Power Area data, prior to 1987,
have not been adjusted for the Southern Nevada reporting-area change

Table 16: Derivation of Load-Weighted, Monthly Load Standard Deviations for PNW

PNW

			Loads CY 2005	Daily Load Standard Deviations											
				Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
PGE	PGEFRM	2057		0.1	0.1	0.08	0.09	0.08	0.08	0.11	0.08	0.09	0.09	0.09	0.1
PP&L	PPLFRM	2462		0.12	0.13	0.1	0.13	0.12	0.10	0.16	0.11	0.12	0.12	0.12	0.13
OIOU	OIOFRM	2772		0.07	0.09	0.05	0.07	0.06	0.07	0.08	0.06	0.07	0.06	0.07	0.07
GPUB	GPUFRM	2827		0.08	0.08	0.07	0.08	0.09	0.07	0.08	0.07	0.08	0.09	0.08	0.09
BPA	BPAFRM	3740		0.09	0.09	0.06	0.07	0.06	0.05	0.06	0.06	0.07	0.08	0.09	0.1
OIOU	PSPL	2673		0.09	0.1	0.07	0.1	0.08	0.06	0.07	0.06	0.07	0.09	0.09	0.09
GPUB	COPOSN	1499		0.09	0.08	0.06	0.08	0.08	0.08	0.14	0.04	0.07	0.07	0.07	0.1
BPA	DSIFRM	1061		0.02	0.01	0.01	0.02	0.01	0.02	0.01	0.01	0.05	0.01	0.01	0.01
BPA	DSI2Q	2122		0.02	0.01	0.01	0.02	0.01	0.02	0.01	0.01	0.05	0.01	0.01	0.01
BPA	DSINFM	0		0.02	0.01	0.01	0.02	0.01	0.02	0.01	0.01	0.05	0.01	0.01	0.01
Total PNW		**21213**													

			Loads CY 2005	Daily Load Variances											
				Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
PGE	PGEFRM	2057		0.01	0.01	0.0064	0.0081	0.01	0.01	0.01	0.0064	0.0081	0.0081	0.0081	0.01
PP&L	PPLFRM	2462		0.0144	0.0169	0.01	0.0169	0.01	0.01	0.03	0.0121	0.0144	0.0144	0.0144	0.0169
OIOU	OIOFRM	2772		0.0049	0.0081	0.0025	0.0049	0.00	0.00	0.01	0.0036	0.0049	0.0036	0.0049	0.0049
GPUB	GPUFRM	2827		0.0064	0.0064	0.0049	0.0064	0.01	0.00	0.01	0.0049	0.0064	0.0081	0.0064	0.0081
BPA	BPAFRM	3740		0.0081	0.0081	0.00	0.00	0.00	0.0025	0.00	0.0036	0.00	0.0064	0.01	0.01
OIOU	PSPL	2673		0.0081	0.01	0.0049	0.01	0.0064	0.0036	0.0049	0.0036	0.00	0.0081	0.0081	0.0081
GPUB	COPOSN	1499		0.0081	0.0064	0.0036	0.0064	0.01	0.01	0.0196	0.00	0.0049	0.00	0.0049	0.01
BPA	DSIFRM	1061		0.0004	0.0001	0.0001	0.0004	0.00	0.00	0.0001	0.00	0.0025	0.00	0.0001	0.0001
BPA	DSI2Q	2122		0.0004	0.0001	0.0001	0.0004	0.0001	0.0004	0.0001	0.0001	0.0025	0.0001	0.0001	0.0001
BPA	DSINFM	0		0.0004	0.0001	0.0001	0.0004	0.0001	0.0004	0.0001	0.0001	0.0025	0.0001	0.0001	0.0001
Total PNW		**21213**													

Number of Days Per Month			31	28	31	30	31	30	31	31	30	31	30	31
Weighted Daily Load Variances			**0.0072**	**0.0080**	**0.0043**	**0.0069**	**0.0058**	**0.0045**	**0.0085**	**0.0044**	**0.0062**	**0.0065**	**0.0068**	**0.0082**
Weighted Daily Load Standard Deviations			**0.0849**	**0.0894**	**0.0654**	**0.0829**	**0.0758**	**0.0669**	**0.0921**	**0.0661**	**0.0784**	**0.0807**	**0.0822**	**0.0903**
Monthly Load Standard Deviations			**0.0153**	**0.0169**	**0.0118**	**0.0151**	**0.0136**	**0.0122**	**0.0165**	**0.0119**	**0.0143**	**0.0145**	**0.0150**	**0.0162**

Table 17: PNW and California Load Variability Calibration

Mean-Reversion Calibration Section

	CY08	CY09	CY10	CY11
Mean Reversion Rate	N/A	13.800	2.700	2.100
Min/Max Standard Deviations	5.000	1.645	2.000	2.000
Additional California Annual Load Volatility Adjustment Factors	1.003	0.160	0.405	0.001
Sum of Residuals ^2 for PNW (CY08-11)	22			
Sum of Residuals ^2 for California (CY08-11)	7,417			
Sum of Residuals ^2 for PNW & California (CY08-11)	7,439			

PNW Load Risk Result Section

	Avg 08-11	CY 2008	CY 2009	CY 2010	CY 2011
Simulated Annual PNW Loads (aMW)	23,906	23,163	23,670	24,166	24,625
Forecasted Annual PNW Loads (aMW)	23,908	23,163	23,672	24,169	24,629
Sim Less Forecast	(2)	0	(2)	(3)	(4)

	Avg 08-11	CY 2008	CY 2009	CY 2010	CY 2011
Sim Load Stdev	732	556	638	798	935
Historical Load Stdev Applied to Current Load Forecast	733	560	638	798	936
Sim Less Hist Stdev	(1)	(5)	(0)	(0)	(0)

California Load Risk Result Section

	Avg 08-11	CY 2008	CY 2009	CY 2010	CY 2011
Simulated Annual Calif Loads (aMW)	33,512	32,475	33,156	33,852	34,563
Forecasted Annual Calif Loads (aMW)	33,512	32,475	33,157	33,853	34,564
Sim Less Forecast	(1)	0	(1)	(1)	(1)

	Avg 08-11	CY 2008	CY 2009	CY 2010	CY 2011
Sim Load Stdev	849	815	815	874	892
Historical Load Stdev Applied to Current Load Forecast	840	816	780	928	835
Sim Less Hist Stdev	9	(1)	35	(54)	58

Table 18: PNW Load Risk Model for 2008 - 2011

PNW Load Variability

PNW Load Growth Uncertainty:

Forecasted Calendar Year (2007) Annual Average PNW Loads	22,583
Forecasted PNW Load Growth for 2008; Source: Aurora	2.57%
Forecasted PNW Load Growth for 2009; Source: Aurora	2.20%
Forecasted PNW Load Growth for 2010; Source: Aurora	2.10%
Forecasted PNW Load Growth for 2011; Source: Aurora	1.90%
Annual Load Growth Std Dev; Source: WECC Load Data (1982-2005)	2.42%

Estimated Base Case Loads		*Std Normal Dist*	Base MR	Additional MR Decay Factors
CY 2008	23,163	*0.0*	N/A	
CY 2009	23,672	*0.0*	1.00	13.80
CY 2010	24,169	*0.0*	1.00	2.70
CY 2011	24,629	*0.0*	1.00	2.10

Load Growth Dev from any specified forecasted load level

CY 2008	*23163*
CY 2009	*23672*
CY 2010	*24169*
CY 2011	*24629*

PNW Load Variability Due to Load Growth Uncertainty

	Calendar Year 2008												
	Jan '08	Feb '08	Mar '08	Apr '08	May '08	Jun '08	Jul '08	Aug '08	Sep '08	Oct '08	Nov '08	Dec '08	Simple Avg
Average Annual PNW Loads (Average Energy in aMW)	23163	23163	23163	23163	23163	23163	23163	23163	23163	23163	23163	23163	
PNW Monthly Load Shapes (Source: AURORA)	**1.103**	**1.064**	**1.020**	**0.944**	**0.934**	**0.961**	**1.004**	**1.003**	**0.931**	**0.921**	**1.022**	**1.092**	
Simulated Monthly PNW Loads (Average Energy in aMW)	25541	24652	23627	21871	21631	22267	23261	23232	21555	21339	23680	25298	**23,163 aMW**

PNW Load Variability Due to Load Growth and Weather Uncertainty

	Jan '08	Feb '08	Mar '08	Apr '08	May '08	Jun '08	Jul '08	Aug '08	Sep '08	Oct '08	Nov '08	Dec '08	Simple Avg
PNW Loads after Load Growth (Average Energy in aMW)	25541	24652	23627	21871	21631	22267	23261	23232	21555	21339	23680	25298	**23,163 aMW**
Monthly Load Standard Deviation	1.53%	1.69%	1.18%	1.51%	1.36%	1.22%	1.65%	1.19%	1.43%	1.45%	1.50%	1.62%	
Random PNW Loads (Average Energy in aMW)	***25,541***	***24,652***	***23,627***	***21,871***	***21,631***	***22,267***	***23,261***	***23,232***	***21,555***	***21,339***	***23,680***	***25,298***	**23,163 aMW**

	CY08	CY09	CY10	CY11
Annual PNW Load Variability Calibration Data (Output Cells)	23,163	23,672	24,169	24,629

Table 18: PNW Load Risk Model for 2008 - 2011

PNW Load Variability Due to Load Growth Uncertainty

	Calendar Year 2009												
	Jan '09	**Feb '09**	**Mar '09**	**Apr '09**	**May '09**	**Jun '09**	**Jul '09**	**Aug '09**	**Sep '09**	**Oct '09**	**Nov '09**	**Dec '09**	**Simple Avg**
Average Annual PNW Loads (Average Energy in aMW)	23672	23672	23672	23672	23672	23672	23672	23672	23672	23672	23672	23672	
PNW Monthly Load Shapes (Source: AURORA)	**1.103**	**1.064**	**1.020**	**0.944**	**0.934**	**0.961**	**1.004**	**1.003**	**0.931**	**0.921**	**1.022**	**1.092**	
Simulated Monthly PNW Loads (Average Energy in aMW)	26103	25194	24147	22352	22107	22757	23772	23743	22029	21808	24201	25855	**23,672 aMW**

PNW Load Variability Due to Load Growth and Weather Uncertainty

	Jan '09	**Feb '09**	**Mar '09**	**Apr '09**	**May '09**	**Jun '09**	**Jul '09**	**Aug '09**	**Sep '09**	**Oct '09**	**Nov '09**	**Dec '09**	**Simple Avg**
PNW Loads after Load Growth (Average Energy in aMW)	26103	25194	24147	22352	22107	22757	23772	23743	22029	21808	24201	25855	**23,672 aMW**
Monthly Load Standard Deviation	1.53%	1.69%	1.18%	1.51%	1.36%	1.22%	1.65%	1.19%	1.43%	1.45%	1.50%	1.62%	
Random PNW Loads (Average Energy in aMW)	***26,103***	***25,194***	***24,147***	***22,352***	***22,107***	***22,757***	***23,772***	***23,743***	***22,029***	***21,808***	***24,201***	***25,855***	**23,672 aMW**

Table 18: PNW Load Risk Model for 2008 - 2011

PNW Load Variability Due to Load Growth Uncertainty

	Calendar Year 2010												
	Jan '10	**Feb '10**	**Mar '10**	**Apr '10**	**May '10**	**Jun '10**	**Jul '10**	**Aug '10**	**Sep '10**	**Oct '10**	**Nov '10**	**Dec '10**	**Simple Avg**
Average Annual PNW Loads (Average Energy in aMW)	24169	24169	24169	24169	24169	24169	24169	24169	24169	24169	24169	24169	
PNW Monthly Load Shapes (Source: AURORA)	**1.103**	**1.064**	**1.020**	**0.944**	**0.934**	**0.961**	**1.004**	**1.003**	**0.931**	**0.921**	**1.022**	**1.092**	
Simulated Monthly PNW Loads (Average Energy in aMW)	26652	25723	24654	22821	22571	23235	24272	24241	22492	22266	24709	26398	**24,169 aMW**

PNW Load Variability Due to Load Growth and Weather Uncertainty

	Jan '10	**Feb '10**	**Mar '10**	**Apr '10**	**May '10**	**Jun '10**	**Jul '10**	**Aug '10**	**Sep '10**	**Oct '10**	**Nov '10**	**Dec '10**	**Simple Avg**
PNW Loads after Load Growth (Average Energy in aMW)	27158	26212	25123	23255	23000	23676	24733	24702	22919	22689	25178	26899	**24,629 aMW**
Monthly Load Standard Deviation	1.53%	1.69%	1.18%	1.51%	1.36%	1.22%	1.65%	1.19%	1.43%	1.45%	1.50%	1.62%	
Random PNW Loads (Average Energy in aMW)	***27,158***	***26,212***	***25,123***	***23,255***	***23,000***	***23,676***	***24,733***	***24,702***	***22,919***	***22,689***	***25,178***	***26,899***	**24,629 aMW**

Table 18: PNW Load Risk Model for 2008 - 2011

PNW Load Variability Due to Load Growth Uncertainty

	Calendar Year 2011												
	Jan '11	**Feb '11**	**Mar '11**	**Apr '11**	**May '11**	**Jun '11**	**Jul '11**	**Aug '11**	**Sep '11**	**Oct '11**	**Nov '11**	**Dec '11**	**Simple Avg**
Average Annual PNW Loads (Average Energy in aMW)	24629	24629	24629	24629	24629	24629	24629	24629	24629	24629	24629	24629	
PNW Monthly Load Shapes (Source: AURORA)	**1.103**	**1.064**	**1.020**	**0.944**	**0.934**	**0.961**	**1.004**	**1.003**	**0.931**	**0.921**	**1.022**	**1.092**	
Simulated Monthly PNW Loads (Average Energy in aMW)	27158	26212	25123	23255	23000	23676	24733	24702	22919	22689	25178	26899	**24,629 aMW**

PNW Load Variability Due to Load Growth and Weather Uncertainty

	Jan '11	**Feb '11**	**Mar '11**	**Apr '11**	**May '11**	**Jun '11**	**Jul '11**	**Aug '11**	**Sep '11**	**Oct '11**	**Nov '11**	**Dec '11**	**Simple Avg**
PNW Loads after Load Growth (Average Energy in aMW)	27539	26568	25464	23572	23306	23966	25014	24991	23206	22990	25525	27264	**24,950 aMW**
Monthly Load Standard Deviation	1.53%	1.69%	1.18%	1.51%	1.36%	1.22%	1.65%	1.19%	1.43%	1.45%	1.50%	1.62%	
Random PNW Loads (Average Energy in aMW)	***27,539***	***26,568***	***25,464***	***23,572***	***23,306***	***23,966***	***25,014***	***24,991***	***23,206***	***22,990***	***25,525***	***27,264***	**24,950 aMW**

Table 19: California Hydro Generation for 1980 - 1997

	FY	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1980	2983	2486	3179	5011	5351	6007	5438	5128	4957	5087	4858	4418
2	1981	3210	3132	3142	2450	2701	2894	3471	3633	3931	4043	3667	3243
3	1982	2179	3167	5336	5649	5884	6243	6757	6800	6332	5809	5587	5146
4	1983	4036	4933	5649	5778	6903	7276	7075	7563	7547	6945	6302	5601
5	1984	4668	5338	6956	6786	5430	5250	5222	5110	5375	5517	5235	4501
6	1985	3261	3315	3950	3195	3594	3522	4176	4366	3943	4501	3962	3476
7	1986	3114	3276	3062	3215	4975	6784	5851	5423	5701	5621	4812	4721
8	1987	3750	3274	2710	2011	2342	2446	3118	3230	3322	3923	3548	3081
9	1988	2422	1951	2214	2327	2115	2392	2764	2792	3524	4238	3687	2779
10	1989	1677	1858	1887	1421	2060	3349	4318	4313	4557	5048	4415	3149
11	1990	2605	2665	2454	1995	1671	2656	3128	3164	3428	4081	3712	2692
12	1991	2522	1828	1626	1267	1146	1626	1978	2293	3711	3992	3398	2879
13	1992	2157	1664	1776	1478	1767	1991	2369	3071	2978	3106	2559	2078
14	1993	1687	1424	1704	2403	3463	5177	5785	6293	6650	5819	5071	3604
15	1994	2878	2515	2703	1767	1708	2409	2713	3226	3860	3989	3599	2403
16	1995	1875	1465	2203	3738	5443	6431	7339	7484	7507	6694	6121	4915
17	1996	3853	2910	2591	3013	5684	6597	6871	6954	6089	5442	4883	3688
18	1997	3003	2926	5204	5597	5923	5171	4896	5321	5489	5245	4796	3838

Source: Energy Information Administration (EIA) - Electric Power Monthly. Electric Utility Hydroelectric Net Generation by Census Division and State, 1980 - 1997

Table 20: Derivation of Load-Weighted, Monthly Load Standard Deviations for California

California

			Loads CY 2005	Daily Load Standard Deviations											
				Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
SCE	SCEFRM	11497		0.09	0.09	0.09	0.09	0.10	0.10	0.10	0.09	0.11	0.09	0.09	0.09
SCE	AAAFRM	423		0.09	0.09	0.09	0.09	0.10	0.10	0.10	0.09	0.11	0.09	0.09	0.09
SCE	BCRVFM	420		0.09	0.09	0.09	0.09	0.10	0.10	0.10	0.09	0.11	0.09	0.09	0.09
SCE	DWRFRM	910		0.09	0.09	0.09	0.09	0.10	0.10	0.10	0.09	0.11	0.09	0.09	0.09
LADWP	LADFRM	3366		0.09	0.09	0.10	0.10	0.10	0.11	0.12	0.11	0.12	0.11	0.10	0.09
SDG&E	SDEFRM	2319		0.07	0.08	0.07	0.07	0.08	0.09	0.09	0.09	0.10	0.08	0.07	0.07
OSC	BGPFRM	442		0.09	0.08	0.09	0.09	0.10	0.10	0.11	0.10	0.11	0.10	0.09	0.09
OSC	IIDOFM	474		0.09	0.08	0.09	0.09	0.10	0.10	0.11	0.10	0.11	0.10	0.09	0.09
PG&E	PG&FRM	10987		0.07	0.07	0.07	0.07	0.09	0.09	0.09	0.08	0.09	0.07	0.07	0.07
ONC	NCPFRM	393		0.07	0.07	0.07	0.07	0.09	0.09	0.09	0.08	0.09	0.07	0.07	0.07
ONC	REDFRM	130		0.07	0.07	0.07	0.07	0.09	0.09	0.09	0.08	0.09	0.07	0.07	0.07
ONC	SNCFRM	305		0.07	0.07	0.07	0.07	0.09	0.09	0.09	0.08	0.09	0.07	0.07	0.07
ONC	MIDFRM	275		0.07	0.07	0.07	0.07	0.09	0.09	0.09	0.08	0.09	0.07	0.07	0.07
ONC	TIDFRM	200		0.07	0.07	0.07	0.07	0.09	0.09	0.09	0.08	0.09	0.07	0.07	0.07
ONC	SMUFRM	1271		0.07	0.07	0.07	0.07	0.09	0.09	0.09	0.08	0.09	0.07	0.07	0.07
Total Cal		**33412**													

		Loads CY 2005	Daily Load Variances											
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
SCE	SCEFRM	11497	0.0081	0.0081	0.0081	0.0081	0.01	0.01	0.01	0.0081	0.0121	0.0081	0.0081	0.0081
SCE	AAAFRM	423	0.0081	0.0081	0.0081	0.0081	0.01	0.01	0.01	0.0081	0.0121	0.0081	0.0081	0.0081
SCE	BCRVFM	420	0.0081	0.0081	0.0081	0.0081	0.01	0.01	0.01	0.0081	0.0121	0.0081	0.0081	0.0081
SCE	DWRFRM	910	0.0081	0.0081	0.0081	0.0081	0.01	0.01	0.01	0.0081	0.0121	0.0081	0.0081	0.0081
LADWP	LADFRM	3366	0.0081	0.0081	0.01	0.01	0.01	0.0121	0.01	0.0121	0.01	0.0121	0.01	0.0081
SDG&E	SDEFRM	2319	0.0049	0.0064	0.0049	0.0049	0.0064	0.0081	0.0081	0.0081	0.01	0.0064	0.0049	0.0049
OSC	BGPFRM	442	0.0081	0.0064	0.0081	0.0081	0.01	0.01	0.0121	0.01	0.0121	0.01	0.0081	0.0081
OSC	IIDOFM	474	0.0081	0.0064	0.0081	0.0081	0.01	0.01	0.0121	0.01	0.0121	0.01	0.0081	0.0081
PG&E	PG&FRM	10987	0.0049	0.0049	0.0049	0.0049	0.0081	0.0081	0.0081	0.0064	0.0081	0.0049	0.0049	0.0049
ONC	NCPFRM	393	0.0049	0.0049	0.0049	0.0049	0.0081	0.0081	0.0081	0.0064	0.0081	0.0049	0.0049	0.0049
ONC	REDFRM	130	0.0049	0.0049	0.0049	0.0049	0.0081	0.0081	0.0081	0.0064	0.0081	0.0049	0.0049	0.0049
ONC	SNCFRM	305	0.0049	0.0049	0.0049	0.0049	0.0081	0.0081	0.0081	0.0064	0.0081	0.0049	0.0049	0.0049
ONC	MIDFRM	275	0.0049	0.0049	0.0049	0.0049	0.0081	0.0081	0.0081	0.0064	0.0081	0.0049	0.0049	0.0049
ONC	TIDFRM	200	0.0049	0.0049	0.0049	0.0049	0.0081	0.0081	0.0081	0.0064	0.0081	0.0049	0.0049	0.0049
ONC	SMUFRM	1271	0.0049	0.0049	0.0049	0.0049	0.0081	0.0081	0.0081	0.0064	0.0081	0.0049	0.0049	0.0049
Total Cal		**33412**												

Number of Days Per Month	31	28	31	30	31	30	31	31	30	31	30	31
Weighted Daily Load Variances	**0.0066**	**0.0066**	**0.0068**	**0.0068**	**0.0090**	**0.0093**	**0.0096**	**0.0079**	**0.0106**	**0.0071**	**0.0068**	**0.0066**
Weighted Daily Load Standard Deviations	**0.0811**	**0.0815**	**0.0823**	**0.0823**	**0.0948**	**0.0965**	**0.0980**	**0.0887**	**0.1028**	**0.0845**	**0.0823**	**0.0811**
Monthly Load Standard Deviations	**0.0146**	**0.0154**	**0.0148**	**0.0150**	**0.0170**	**0.0176**	**0.0176**	**0.0159**	**0.0188**	**0.0152**	**0.0150**	**0.0146**

Table 21: California Load Risk Model for 2008 - 2011

California Load Variability

California Load Growth Uncertainty:

Forecasted Calendar Year (2007) Annual Average California Loads	**31,793**
Forecasted California Load Growth for 2008; Source: Aurora	**2.14%**
Forecasted California Load Growth for 2009; Source: Aurora	**2.10%**
Forecasted California Load Growth for 2010; Source: Aurora	**2.10%**
Forecasted California Load Growth for 2011; Source: Aurora	**2.10%**
Annual Load Growth Std Dev; Source: WECC Load Data (1987-2005)	**2.51%**

		Std Normal Dist	**Additional Adj**
		(Same as PNW)	**Factors**
CY 2008 Estimated Base Case Loads	**32,475**	***0.0***	**1.003**
CY 2009 Estimated Base Case Loads	**33,157**	***0.0***	**0.160**
CY 2010 Estimated Base Case Loads	**33,853**	***0.0***	**0.405**
CY 2011 Estimated Base Case Loads	**34,564**	***0.0***	**0.001**

Load Growth Dev from any specified forecasted load level

CY 2008	***32475***
CY 2009	***33157***
CY 2010	***33853***
CY 2011	***34564***

California Load Variability Due to Load Growth Uncertainty

	Calendar Year 2008												
	Jan '08	**Feb '08**	**Mar '08**	**Apr '08**	**May '08**	**Jun '08**	**Jul '08**	**Aug '08**	**Sep '08**	**Oct '08**	**Nov '08**	**Dec '08**	**Simple Avg**
Average Annual California Loads (Average Energy in aMW)	32475	32475	32475	32475	32475	32475	32475	32475	32475	32475	32475	32475	
California Monthly Load Shapes	**0.955**	**0.930**	**0.930**	**0.920**	**0.975**	**1.052**	**1.095**	**1.121**	**1.082**	**0.986**	**0.952**	**1.002**	
Simulated Monthly California Loads (Average Energy in aMW)	31008	30216	30216	29891	31657	34175	35556	36389	35130	32023	30906	32531	**32,475 aMW**

California Load Variability Due to Load Growth and Weather Uncertainty

	Jan '08	**Feb '08**	**Mar '08**	**Apr '08**	**May '08**	**Jun '08**	**Jul '08**	**Aug '08**	**Sep '08**	**Oct '08**	**Nov '08**	**Dec '08**	**Simple Avg**
California Loads (Average Energy in aMW)	31008	30216	30216	29891	31657	34175	35556	36389	35130	32023	30906	32531	**32,475 aMW**
Monthly Load Standard Deviation	1.46%	1.54%	1.48%	1.50%	1.70%	1.76%	1.76%	1.59%	1.88%	1.52%	1.50%	1.46%	
Random California Non-Fed Loads (Average Energy in aMW)	***31,008***	***30,216***	***30,216***	***29,891***	***31,657***	***34,175***	***35,556***	***36,389***	***35,130***	***32,023***	***30,906***	***32,531***	**32,475 aMW**

	CY08	**CY09**	**CY10**	**CY11**
Annual California Load Variability Calibration Data (Output Cells)	32,475	33,157	33,853	34,564

Table 21: California Load Risk Model for 2008 - 2011

California Load Variability Due to Load Growth Uncertainty

	Calendar Year 2009												
	Jan '09	**Feb '09**	**Mar '09**	**Apr '09**	**May '09**	**Jun '09**	**Jul '09**	**Aug '09**	**Sep '09**	**Oct '09**	**Nov '09**	**Dec '09**	**Simple Avg**
Average Annual California Loads (Average Energy in aMW)	33157	33157	33157	33157	33157	33157	33157	33157	33157	33157	33157	33157	
California Monthly Load Shapes	**0.955**	**0.930**	**0.930**	**0.920**	**0.975**	**1.052**	**1.095**	**1.121**	**1.082**	**0.986**	**0.952**	**1.002**	
Simulated Monthly California Loads (Average Energy in aMW)	31659	30850	30850	30519	32322	34893	36303	37153	35868	32696	31555	33214	**33,157 aMW**

California Load Variability Due to Load Growth and Weather Uncertainty

	Jan '09	**Feb '09**	**Mar '09**	**Apr '09**	**May '09**	**Jun '09**	**Jul '09**	**Aug '09**	**Sep '09**	**Oct '09**	**Nov '09**	**Dec '09**	**Simple Avg**
California Loads (Average Energy in aMW)	31659	30850	30850	30519	32322	34893	36303	37153	35868	32696	31555	33214	**33,157 aMW**
Monthly Load Standard Deviation	1.46%	1.54%	1.48%	1.50%	1.70%	1.76%	1.76%	1.59%	1.88%	1.52%	1.50%	1.46%	
Random California Non-Fed Loads (Average Energy in aMW)	***31,659***	***30,850***	***30,850***	***30,519***	***32,322***	***34,893***	***36,303***	***37,153***	***35,868***	***32,696***	***31,555***	***33,214***	**33,157 aMW**

Table 21: California Load Risk Model for 2008 - 2011

California Load Variability Due to Load Growth Uncertainty

	Calendar Year 2010												
	Jan '10	**Feb '10**	**Mar '10**	**Apr '10**	**May '10**	**Jun '10**	**Jul '10**	**Aug '10**	**Sep '10**	**Oct '10**	**Nov '10**	**Dec '10**	**Simple Avg**
Average Annual California Loads (Average Energy in aMW)	33853	33853	33853	33853	33853	33853	33853	33853	33853	33853	33853	33853	
California Monthly Load Shapes	**0.955**	**0.930**	**0.930**	**0.920**	**0.975**	**1.052**	**1.095**	**1.121**	**1.082**	**0.986**	**0.952**	**1.002**	
Simulated Monthly California Loads (Average Energy in aMW)	32324	31498	31498	31159	33001	35626	37065	37933	36621	33382	32218	33911	**33,853 aMW**

California Load Variability Due to Load Growth and Weather Uncertainty

	Jan '10	**Feb '10**	**Mar '10**	**Apr '10**	**May '10**	**Jun '10**	**Jul '10**	**Aug '10**	**Sep '10**	**Oct '10**	**Nov '10**	**Dec '10**	**Simple Avg**
California Loads (Average Energy in aMW)	32324	31498	31498	31159	33001	35626	37065	37933	36621	33382	32218	33911	**33,853 aMW**
Monthly Load Standard Deviation	1.46%	1.54%	1.48%	1.50%	1.70%	1.76%	1.76%	1.59%	1.88%	1.52%	1.50%	1.46%	
Random California Non-Fed Loads (Average Energy in aMW)	***32,324***	***31,498***	***31,498***	***31,159***	***33,001***	***35,626***	***37,065***	***37,933***	***36,621***	***33,382***	***32,218***	***33,911***	**33,853 aMW**

Table 21: California Load Risk Model for 2008 - 2011

California Load Variability Due to Load Growth Uncertainty

	Calendar Year 2011												
	Jan '11	**Feb '11**	**Mar '11**	**Apr '11**	**May '11**	**Jun '11**	**Jul '11**	**Aug '11**	**Sep '11**	**Oct '11**	**Nov '11**	**Dec '11**	**Simple Avg**
Average Annual California Loads (Average Energy in aMW)	34564	34564	34564	34564	34564	34564	34564	34564	34564	34564	34564	34564	
California Monthly Load Shapes	**0.955**	**0.930**	**0.930**	**0.920**	**0.975**	**1.052**	**1.095**	**1.121**	**1.082**	**0.986**	**0.952**	**1.002**	
Simulated Monthly California Loads (Average Energy in aMW)	33002	32160	32160	31814	33694	36374	37844	38730	37390	34083	32895	34624	**34,564 aMW**

California Load Variability Due to Load Growth and Weather Uncertainty

	Jan '11	**Feb '11**	**Mar '11**	**Apr '11**	**May '11**	**Jun '11**	**Jul '11**	**Aug '11**	**Sep '11**	**Oct '11**	**Nov '11**	**Dec '11**	**Simple Avg**
California Loads (Average Energy in aMW)	33002	32160	32160	31814	33694	36374	37844	38730	37390	34083	32895	34624	**34,564 aMW**
Monthly Load Standard Deviation	1.46%	1.54%	1.48%	1.50%	1.70%	1.76%	1.76%	1.59%	1.88%	1.52%	1.50%	1.46%	
Random California Non-Fed Loads (Average Energy in aMW)	***33,002***	***32,160***	***32,160***	***31,814***	***33,694***	***36,374***	***37,844***	***38,730***	***37,390***	***34,083***	***32,895***	***34,624***	**34,564 aMW**

Table 22: Estimated Monthly Price Volatilities, Annual CY 2008 Price Volatility, and Annual CY 2008 Price Variability Based on the Gas Price Forecast

Input Calculations for Gas Price Risk Model

Dec-89 3.17

Ignacio Monthly Spot Gas Prices in real 2005$

Year	1 Jan	2 Feb	3 Mar	4 Apr	5 May	6 Jun	7 Jul	8 Aug	9 Sep	10 Oct	11 Nov	12 Dec	Annual Average
1990	3.64	2.53	2.00	2.01	1.98	2.03	1.98	1.95	1.93	2.37	2.69	2.56	**2.30**
1991	2.19	1.58	1.38	1.43	1.39	1.36	1.38	1.47	1.67	1.69	2.24	2.24	**1.67**
1992	1.64	1.48	1.57	1.79	1.89	1.96	2.06	2.36	2.79	2.74	2.69	2.75	**2.14**
1993	2.57	2.20	2.67	2.51	2.34	2.17	2.30	2.47	2.59	2.36	2.48	2.57	**2.44**
1994	2.31	2.66	2.39	2.19	2.06	1.89	1.97	1.96	1.65	1.62	1.85	1.97	**2.04**
1995	1.57	1.36	1.35	1.39	1.42	1.40	1.24	1.48	1.55	1.45	1.51	1.55	**1.44**
1996	1.45	1.47	1.41	1.38	1.35	1.57	2.08	2.24	1.86	2.19	3.15	4.16	**2.03**
1997	4.17	2.86	1.89	2.03	2.24	2.32	2.40	2.65	3.08	3.25	3.47	2.54	**2.74**
1998	2.34	2.26	2.43	2.54	2.27	1.98	2.21	2.08	1.99	1.99	2.24	2.06	**2.20**
1999	2.04	1.90	1.75	2.06	2.32	2.35	2.34	2.76	2.75	2.91	2.60	2.57	**2.36**
2000	2.54	2.73	2.92	3.11	3.44	4.89	4.19	3.87	4.67	5.10	5.78	8.66	**4.33**
2001	9.06	6.30	5.34	5.10	3.91	2.96	2.70	2.83	2.03	2.32	2.43	2.51	**3.96**
2002	2.27	2.30	2.92	2.85	2.71	2.51	2.77	2.64	2.61	3.01	3.67	4.19	**2.87**
2003	4.76	5.49	5.68	3.78	4.76	5.19	4.79	4.85	4.47	4.49	4.29	5.60	**4.85**
2004	5.67	5.03	4.93	5.30	5.49	5.44	5.41	5.19	4.45	5.11	5.65	6.22	**5.32**
2005	5.53	5.54	6.27	6.39	5.62	5.77	6.22	7.42	8.99	10.17	7.41	11.27	**7.22**
2006	7.15	6.36	5.57	5.60	4.93	5.28	5.39	6.33	4.14	5.08	5.61	6.24	**5.64**
2007	5.85	6.61	5.80	6.32	6.34	6.17	5.19	5.24	4.93	5.88	5.09	6.11	**5.79**
Annual Average	3.71	3.37	3.24	3.21	3.14	3.18	3.15	3.32	3.23	3.54	3.60	4.21	**3.41**
Median	2.55	2.59	2.55	2.53	2.33	2.33	2.37	2.65	2.68	2.82	2.92	2.66	**2.59**
Annual Standard Deviation													**1.71**

Ignacio Monthly Spot Gas Price Natural Log (Ln) Ratio Deltas (Returns) and Volatility Computations; Reflects Month-To-Month Price Changes

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1990	0.14	-0.37	-0.23	0.00	-0.02	0.02	-0.02	-0.02	-0.01	0.21	0.13	-0.05
1991	-0.16	-0.33	-0.13	0.04	-0.03	-0.02	0.02	0.06	0.12	0.01	0.28	0.00
1992	-0.31	-0.10	0.06	0.13	0.05	0.04	0.05	0.13	0.17	-0.02	-0.02	0.02
1993	-0.07	-0.15	0.19	-0.06	-0.07	-0.08	0.05	0.07	0.05	-0.09	0.05	0.03
1994	-0.10	0.14	-0.11	-0.09	-0.06	-0.08	0.04	-0.01	-0.17	-0.02	0.13	0.06
1995	-0.22	-0.14	-0.01	0.03	0.02	-0.01	-0.12	0.18	0.05	-0.07	0.04	0.02
1996	-0.07	0.01	-0.04	-0.02	-0.02	0.15	0.28	0.08	-0.19	0.16	0.36	0.28
1997	0.00	-0.38	-0.42	0.07	0.10	0.03	0.03	0.10	0.15	0.05	0.07	-0.31
1998	-0.08	-0.03	0.07	0.05	-0.11	-0.14	0.11	-0.06	-0.04	0.00	0.12	-0.09
1999	-0.01	-0.07	-0.08	0.16	0.12	0.01	-0.01	0.16	0.00	0.05	-0.11	-0.01
2000	-0.01	0.07	0.07	0.06	0.10	0.35	-0.15	-0.08	0.19	0.09	0.12	0.40
2001	0.05	-0.36	-0.17	-0.05	-0.26	-0.28	-0.09	0.05	-0.33	0.13	0.04	0.03
2002	-0.10	0.01	0.24	-0.02	-0.05	-0.08	0.10	-0.05	-0.01	0.14	0.20	0.13
2003	0.13	0.14	0.03	-0.41	0.23	0.09	-0.08	0.01	-0.08	0.00	-0.05	0.27
2004	0.01	-0.12	-0.02	0.07	0.04	-0.01	-0.01	-0.04	-0.15	0.14	0.10	0.10
2005	-0.12	0.00	0.12	0.02	-0.13	0.03	0.07	0.18	0.19	0.12	-0.32	0.42
2006	-0.46	-0.12	-0.13	0.00	-0.13	0.07	0.02	0.16	-0.42	0.20	0.10	0.11
2007	-0.06	0.12	-0.13	0.09	0.00	-0.03	-0.17	0.01	-0.06	0.18	-0.14	0.18
Volatilities (Std Devs of Ln Ratio Deltas)	**0.144**	**0.173**	**0.158**	**0.121**	**0.113**	**0.127**	**0.108**	**0.086**	**0.174**	**0.093**	**0.156**	**0.177**
Average of Ln Ratio Deltas	**-0.08**	**-0.09**	**-0.04**	**0.00**	**-0.01**	**0.00**	**0.01**	**0.05**	**-0.03**	**0.07**	**0.06**	**0.09**

Cumulative Monthly Price Standard Deviation Computations for Gas Price Forecast Made at the Beginning of the Current Calendar Year (Impacted by Both Price Level and Volatility)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Avg
CY08 Price Forecast (Median)	**6.30**	**6.68**	**7.46**	**8.10**	**8.85**	**9.87**	**8.93**	**6.45**	**5.90**	**5.18**	**3.79**	**4.43**	**6.83**
CY08 Computed Average Prices	**6.36**	**6.82**	**7.74**	**8.34**	**9.18**	**10.41**	**9.47**	**6.99**	**6.75**	**6.06**	**4.80**	**5.85**	**7.40**

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1990	7.83	6.34	6.00	6.64	7.36	8.54	7.33	4.36	3.90	3.75	2.61	2.91	**5.63**
1991	5.83	4.99	5.32	6.14	6.77	7.62	6.75	4.34	4.52	3.55	3.04	3.40	**5.19**
1992	5.01	5.34	6.65	8.20	9.52	10.88	10.40	8.80	10.20	8.57	6.55	6.75	**8.07**
1993	6.37	6.38	8.81	8.90	9.15	9.47	8.99	6.70	6.70	4.95	3.51	3.96	**6.99**
1994	6.15	8.14	8.38	8.28	8.63	8.93	8.31	5.35	4.08	3.02	1.86	2.44	**6.13**
1995	5.45	5.56	6.49	7.33	8.29	9.19	7.14	5.61	5.51	4.08	2.60	3.07	**5.86**
1996	6.39	7.50	8.23	8.69	9.38	11.84	14.64	12.51	10.14	10.39	12.67	15.97	**10.70**
1997	6.84	5.53	4.57	5.53	6.93	8.17	7.44	5.33	5.84	5.00	3.64	3.07	**5.66**
1998	6.29	7.06	8.63	9.65	9.48	9.25	9.31	5.83	5.22	4.13	2.99	3.14	**6.75**
1999	6.78	7.31	7.76	9.73	11.86	12.99	11.88	10.81	10.58	9.67	6.77	6.73	**9.41**
2000	6.75	8.34	10.07	11.31	13.42	19.99	16.09	11.62	13.90	13.42	12.91	18.31	**13.01**
2001	7.15	5.83	5.91	6.27	5.62	5.26	3.82	1.75	1.75	1.75	1.75	2.29	**4.09**
2002	6.17	7.23	10.33	10.69	11.02	11.20	11.30	7.77	7.35	7.18	6.84	7.79	**8.74**
2003	7.75	10.18	11.72	8.42	11.48	13.48	11.41	8.49	7.52	6.31	4.27	5.74	**8.90**
2004	6.91	7.10	8.01	9.21	10.42	11.30	10.21	6.82	5.48	5.14	3.95	4.61	**7.43**
2005	6.08	7.06	9.06	9.85	9.51	10.76	10.57	9.48	11.30	11.17	6.27	9.36	**9.21**
2006	4.33	4.61	4.97	5.62	5.76	7.16	6.31	4.55	2.52	2.16	1.75	2.41	**4.35**
2007	6.40	8.31	8.35	9.71	10.60	11.31	8.50	5.66	4.94	4.77	2.50	3.37	**7.04**
CY08 Cumulative Price Std Dev	**0.868**	**1.408**	**1.962**	**1.744**	**2.134**	**3.180**	**2.991**	**2.837**	**3.286**	**3.317**	**3.373**	**4.603**	**2.303**

Cumulative Monthly Volatility Computations for Gas Price Forecast Made at the Beginning of the Current Calendar Year

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual (LN)
1990	0.22	-0.05	-0.22	-0.20	-0.18	-0.15	-0.20	-0.39	-0.41	-0.32	-0.37	-0.42	**1.73**
1991	-0.08	-0.29	-0.34	-0.28	-0.27	-0.26	-0.28	-0.40	-0.27	-0.38	-0.22	-0.26	**1.65**
1992	-0.23	-0.22	-0.11	0.01	0.07	0.10	0.15	0.31	0.55	0.50	0.55	0.42	**2.09**
1993	0.01	-0.05	0.17	0.09	0.03	-0.04	0.01	0.04	0.13	-0.04	-0.08	-0.11	**1.94**
1994	-0.02	0.20	0.12	0.02	-0.02	-0.10	-0.07	-0.19	-0.37	-0.54	-0.71	-0.59	**1.81**
1995	-0.14	-0.18	-0.14	-0.10	-0.07	-0.07	-0.22	-0.14	-0.07	-0.24	-0.38	-0.37	**1.77**
1996	0.01	0.12	0.10	0.07	0.06	0.18	0.49	0.66	0.54	0.70	1.21	1.28	**2.37**
1997	0.08	-0.19	-0.49	-0.38	-0.25	-0.19	-0.18	-0.19	-0.01	-0.03	-0.04	-0.37	**1.73**
1998	0.00	0.06	0.15	0.17	0.07	-0.07	0.04	-0.10	-0.12	-0.23	-0.24	-0.34	**1.91**
1999	0.07	0.09	0.04	0.18	0.29	0.27	0.29	0.52	0.59	0.63	0.58	0.42	**2.24**
2000	0.07	0.22	0.30	0.33	0.42	0.71	0.59	0.59	0.86	0.95	1.22	1.42	**2.57**
2001	0.13	-0.14	-0.23	-0.26	-0.46	-0.63	-0.85	-1.30	-1.21	-1.08	-0.77	-0.66	**1.41**
2002	-0.02	0.08	0.33	0.28	0.22	0.13	0.24	0.19	0.22	0.33	0.59	0.57	**2.17**
2003	0.21	0.42	0.45	0.04	0.26	0.31	0.25	0.27	0.24	0.20	0.12	0.26	**2.19**
2004	0.09	0.06	0.07	0.13	0.16	0.13	0.13	0.06	-0.07	-0.01	0.04	0.04	**2.01**
2005	-0.04	0.05	0.20	0.20	0.07	0.09	0.17	0.39	0.65	0.77	0.50	0.75	**2.22**
2006	-0.38	-0.37	-0.41	-0.37	-0.43	-0.32	-0.35	-0.35	-0.85	-0.88	-0.77	-0.61	**1.47**
2007	0.02	0.22	0.11	0.18	0.18	0.14	-0.05	-0.13	-0.18	-0.08	-0.42	-0.27	**1.95**
Cumulative Volatilities	**0.144**	**0.205**	**0.264**	**0.221**	**0.244**	**0.289**	**0.335**	**0.464**	**0.534**	**0.562**	**0.616**	**0.631**	**0.307**

Table 23: Estimated CY 2009-2011 Price Statistics Based on Applying Historical Volatility to the Gas Price Forecast

Annual Gas Price Forecast		
CY09	CY10	CY11
5.06	5.78	6.16

Ignacio Annual Spot Gas Price Natural Log (Ln) Ratio Deltas (Returns) and Volatility Computations;
Reflects Cumulative Annual Price Changes Over Time

Year	Annual Average Historical Real Prices	1 Yr LN Ratio Changes	2 Yr LN Ratio Changes	3 Yr LN Ratio Changes
1990	2.30			
1991	1.67	-0.32		
1992	2.14	0.25	-0.07	
1993	2.44	0.13	0.38	0.06
1994	2.04	-0.18	-0.05	0.20
1995	1.44	-0.35	-0.53	-0.40
1996	2.03	0.34	-0.01	-0.18
1997	2.74	0.30	0.64	0.29
1998	2.20	-0.22	0.08	0.42
1999	2.36	0.07	-0.15	0.15
2000	4.33	0.61	0.68	0.46
2001	3.96	-0.09	0.52	0.59
2002	2.87	-0.32	-0.41	0.20
2003	4.85	0.52	0.20	0.11
2004	5.32	0.09	0.62	0.30
2005	7.22	0.30	0.40	0.92
2006	5.64	-0.25	0.06	0.15
2007	5.79	0.03	-0.22	0.08
Volatilities (Std Devs of Ln Ratio Deltas)		0.302	0.375	0.310
Average of Ln Ratio Deltas		0.054	0.134	0.224
Forecast Prices With + 2 Standard Deviations		9.26	12.23	11.45
Forecast Prices With + 1 Standard Deviation		6.84	8.40	8.40
Forecast Prices (Median)		5.06	5.78	6.16
Forecast Prices With - 1 Standard Deviation		3.74	3.97	4.51
Forecast Prices With - 2 Standard Deviations		2.76	2.73	3.31

Gas Price Standard Deviations for Gas Price Forecast and Historical Volatility

Year		CY09	CY10	CY11
1990				
1991		3.47		
1992		6.16	4.70	
1993		5.44	7.38	5.20
1994		4.02	4.81	6.03
1995		3.38	2.99	3.31
1996		6.73	5.01	4.09
1997		6.48	9.61	6.61
1998		3.84	5.49	7.51
1999		5.14	4.35	5.74
2000		8.77	9.94	7.77
2001		4.38	8.47	8.86
2002		3.47	3.35	5.98
2003		8.09	6.19	5.51
2004		5.26	9.37	6.62
2005		6.49	7.52	12.38
2006		3.74	5.35	5.73
2007		4.92	4.06	5.36
Standard Deviation		1.64	2.27	2.14

Table 24: Natural Gas Price Volatility Calibration

Mean-Reversion Calibration Section:

	CY 2008											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Mean Reversion Rate	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Max/Min Std Dev.	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000

	CY 2009											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Mean Reversion Rate	1.305	1.305	1.305	1.305	1.305	1.305	1.305	1.305	1.305	1.305	1.305	1.305
Max/Min Std Dev.	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000

	CY 2010											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Mean Reversion Rate	0.610	0.610	0.610	0.610	0.610	0.610	0.610	0.610	0.610	0.610	0.610	0.610
Max/Min Std Dev.	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000

	CY 2011											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Mean Reversion Rate	1.031	1.031	1.031	1.031	1.031	1.031	1.031	1.031	1.031	1.031	1.031	1.031
Max/Min Std Dev.	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000

Volatility Reporting & Calibration Section:

	Sum 08-11	CY 2008	CY 2009	CY 2010	CY 2011
Simulated Price Volatilities for CY08-11		0.293	0.329	0.329	0.329
Historical Price Volatilities Over 1, 2, and 3 Year Periods		0.307	0.329	0.329	0.329
Simulated Less Historical Volatilities		-0.014	0.000	0.000	0.000
Residual ^2	0.000209	0.00021	0.00000	0.00000	0.00000

Statistical Reporting Section:

	Sum 08-11	CY 2008	CY 2009	CY 2010	CY 2011
Simulated CY08-11 Price Standard Deviations		2.276	1.965	2.134	2.260
Estimated CY08-11 Price Standard Deviations; Derived By Applying Historical Price Volatilities to the Price Forecast		2.303	2.136	2.136	2.136
Simulated Less Estimated Standard Deviations		-0.027	-0.171	-0.001	0.124
Residual ^2	0.045	0.001	0.029	0.000	0.015

	Sum 08-11	CY 2008	CY 2009	CY 2010	CY 2011
Simulated Average Price	6.45	7.33	5.57	6.26	6.65
Simulated Median Price	6.09	6.88	5.18	5.95	6.33
Simulated Average Minus Median Price	0.37	0.44	0.39	0.31	0.33
Average Minus Median Prices; Derived By Applying Historical Price Volatilities to the Price Forecast	0.39	0.57	0.30	0.43	0.27
Gas Price Forecast	5.95	6.83	5.06	5.78	6.16
Simulated Average Price Less Forecast Price	0.50	0.50	0.52	0.49	0.50
Simulated Median Price Less Forecast Price	0.13	0.06	0.13	0.18	0.17

	CY 2008												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Simulated Cumulative Monthly Price Volatilities	0.144	0.210	0.235	0.243	0.244	0.248	0.298	0.437	0.518	0.577	0.645	0.571	0.293
Historical Cumulative Monthly Price Volatilities	0.144	0.205	0.264	0.221	0.244	0.289	0.335	0.464	0.534	0.562	0.616	0.631	0.307
Simulated Less Historical Monthly Price Volatities	0.000	0.005	-0.029	0.023	0.000	-0.041	-0.037	-0.027	-0.016	0.015	0.029	-0.060	-0.014
Residual ^2	0.0000	0.0000	0.0008	0.0005	0.0000	0.0017	0.0013	0.0007	0.0003	0.0002	0.0008	0.0035	0.0002
Sum of Squares	0.0100												0.0002
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Simulated Cumulative Monthly Price Standard Deviations	0.925	1.475	1.879	2.132	2.353	2.677	2.909	3.016	3.402	3.464	3.418	3.602	2.276
Estimated Cumulative Price Std Devs; Derived From Historical LN Price	0.868	1.408	1.962	1.744	2.134	3.180	2.991	2.837	3.286	3.317	3.373	4.603	2.303
Simulated Less Estimated Price Standard Deviations	0.057	0.067	-0.083	0.388	0.218	-0.502	-0.082	0.179	0.116	0.147	0.045	-1.001	-0.027
Residual ^2	0.0033	0.0044	0.0070	0.1506	0.0477	0.2522	0.0067	0.0320	0.0134	0.0217	0.0020	1.0025	0.0007
Sum of Squares	1.5435												0.0007

Table 25: Natural Gas Price Risk Model

Forecasted Real 2005$ Delivered Natural Gas Prices Per MMBTU to Southern California

	Price 2005$	Minimum	Maximum
CY 2008 Avg	$ 6.83	1.75	50
CY 2009 Avg	$ 5.06	1.75	50
CY 2010 Avg	$ 5.78	1.75	50
CY 2011 Avg	$ 6.16	1.75	50
CY08-11 Avg	**$ 5.95**	**1.75**	**50**

	Price Forecast ($/MMBTU)	Standard Normal Truncated Distribution N(var mean, 1); Includes Max and Min Std Devs	Monthly Volatility	Price Risk ($/MMBTU)	Standard Normal Distribution Mean Adjustor (Causes Mean Reversion)			Monthly Volatility	Mean Reversion Decay Parameters	Maximum and Minimum Standard Deviations	Monthly Gas Price Shapes	Price Forecast ($/MMBTU)	Minimum Price ($/MMBTU)	Maximum Price ($/MMBTU)	Unconstrained Simulated Prices ($/MMBTU)
Initial Value					1.00	**Actuals**									
Jan-08	6.30	0.00	0.144	6.30	1.00	Y	Jan-08	0.144	0.00	5.00	0.92	6.30	1.75	50.00	6.30
Feb-08	6.68	0.00	0.173	6.68	1.00	Y	Feb-08	0.173	0.00	5.00	0.98	6.68	1.75	50.00	6.68
Mar-08	7.46	0.00	0.158	7.46	1.00	Y	Mar-08	0.158	0.00	5.00	1.09	7.46	1.75	50.00	7.46
Apr-08	8.10	0.00	0.121	8.10	1.00	Y	Apr-08	0.121	0.00	5.00	1.19	8.10	1.75	50.00	8.10
May-08	8.85	0.00	0.113	8.85	1.00	Y	May-08	0.113	0.00	5.00	1.30	8.85	1.75	50.00	8.85
Jun-08	9.87	0.00	0.127	9.87	1.00	Y	Jun-08	0.127	0.00	5.00	1.45	9.87	1.75	50.00	9.87
Jul-08	8.93	0.00	0.108	8.93	1.00	Y	Jul-08	0.108	0.00	5.00	1.31	8.93	1.75	50.00	8.93
Aug-08	6.45	0.00	0.086	6.45	1.00	Y	Aug-08	0.086	0.00	5.00	0.94	6.45	1.75	50.00	6.45
Sep-08	5.90	0.00	0.174	5.90	1.00	Y	Sep-08	0.174	0.00	5.00	0.86	5.90	1.75	50.00	5.90
Oct-08	5.18	0.00	0.093	5.18	1.00	Y	Oct-08	0.093	0.00	5.00	0.76	5.18	1.75	50.00	5.18
Nov-08	3.79	0.00	0.156	3.79	1.00	N	Nov-08	0.156	0.00	5.00	0.56	3.79	1.75	50.00	3.79
Dec-08	4.43	0.00	0.177	4.43	1.00	N	Dec-08	0.177	0.00	5.00	0.65	4.43	1.75	50.00	4.43
Jan-09	5.42	0.00	0.144	5.42	1.00		Jan-09	0.144	1.31	5.00	1.07	5.42	1.75	50.00	5.42
Feb-09	5.40	0.00	0.173	5.40	1.00		Feb-09	0.173	1.31	5.00	1.07	5.40	1.75	50.00	5.40
Mar-09	5.25	0.00	0.158	5.25	1.00		Mar-09	0.158	1.31	5.00	1.04	5.25	1.75	50.00	5.25
Apr-09	4.83	0.00	0.121	4.83	1.00		Apr-09	0.121	1.31	5.00	0.95	4.83	1.75	50.00	4.83
May-09	4.79	0.00	0.113	4.79	1.00		May-09	0.113	1.31	5.00	0.95	4.79	1.75	50.00	4.79
Jun-09	4.83	0.00	0.127	4.83	1.00		Jun-09	0.127	1.31	5.00	0.96	4.83	1.75	50.00	4.83
Jul-09	4.89	0.00	0.108	4.89	1.00		Jul-09	0.108	1.31	5.00	0.97	4.89	1.75	50.00	4.89
Aug-09	4.93	0.00	0.086	4.93	1.00		Aug-09	0.086	1.31	5.00	0.97	4.93	1.75	50.00	4.93
Sep-09	4.93	0.00	0.174	4.93	1.00		Sep-09	0.174	1.31	5.00	0.98	4.93	1.75	50.00	4.93
Oct-09	4.97	0.00	0.093	4.97	1.00		Oct-09	0.093	1.31	5.00	0.98	4.97	1.75	50.00	4.97
Nov-09	5.12	0.00	0.156	5.12	1.00		Nov-09	0.156	1.31	5.00	1.01	5.12	1.75	50.00	5.12
Dec-09	5.32	0.00	0.177	5.32	1.00		Dec-09	0.177	1.31	5.00	1.05	5.32	1.75	50.00	5.32
Jan-10	6.20	0.00	0.144	6.20	1.00		Jan-10	0.144	0.61	5.00	1.07	6.20	1.75	50.00	6.20
Feb-10	6.17	0.00	0.173	6.17	1.00		Feb-10	0.173	0.61	5.00	1.07	6.17	1.75	50.00	6.17
Mar-10	6.00	0.00	0.158	6.00	1.00		Mar-10	0.158	0.61	5.00	1.04	6.00	1.75	50.00	6.00
Apr-10	5.51	0.00	0.121	5.51	1.00		Apr-10	0.121	0.61	5.00	0.95	5.51	1.75	50.00	5.51
May-10	5.47	0.00	0.113	5.47	1.00		May-10	0.113	0.61	5.00	0.95	5.47	1.75	50.00	5.47
Jun-10	5.52	0.00	0.127	5.52	1.00		Jun-10	0.127	0.61	5.00	0.96	5.52	1.75	50.00	5.52
Jul-10	5.58	0.00	0.108	5.58	1.00		Jul-10	0.108	0.61	5.00	0.97	5.58	1.75	50.00	5.58
Aug-10	5.63	0.00	0.086	5.63	1.00		Aug-10	0.086	0.61	5.00	0.97	5.63	1.75	50.00	5.63
Sep-10	5.63	0.00	0.174	5.63	1.00		Sep-10	0.174	0.61	5.00	0.98	5.63	1.75	50.00	5.63
Oct-10	5.67	0.00	0.093	5.67	1.00		Oct-10	0.093	0.61	5.00	0.98	5.67	1.75	50.00	5.67
Nov-10	5.85	0.00	0.156	5.85	1.00		Nov-10	0.156	0.61	5.00	1.01	5.85	1.75	50.00	5.85
Dec-10	6.08	0.00	0.177	6.08	1.00		Dec-10	0.177	0.61	5.00	1.05	6.08	1.75	50.00	6.08
Jan-11	6.60	0.00	0.144	6.60	1.00		Jan-11	0.144	1.03	5.00	1.07	6.60	1.75	50.00	6.60
Feb-11	6.57	0.00	0.173	6.57	1.00		Feb-11	0.173	1.03	5.00	1.07	6.57	1.75	50.00	6.57
Mar-11	6.39	0.00	0.158	6.39	1.00		Mar-11	0.158	1.03	5.00	1.04	6.39	1.75	50.00	6.39
Apr-11	5.88	0.00	0.121	5.88	1.00		Apr-11	0.121	1.03	5.00	0.95	5.88	1.75	50.00	5.88
May-11	5.83	0.00	0.113	5.83	1.00		May-11	0.113	1.03	5.00	0.95	5.83	1.75	50.00	5.83
Jun-11	5.88	0.00	0.127	5.88	1.00		Jun-11	0.127	1.03	5.00	0.96	5.88	1.75	50.00	5.88
Jul-11	5.95	0.00	0.108	5.95	1.00		Jul-11	0.108	1.03	5.00	0.97	5.95	1.75	50.00	5.95
Aug-11	6.00	0.00	0.086	6.00	1.00		Aug-11	0.086	1.03	5.00	0.97	6.00	1.75	50.00	6.00
Sep-11	6.00	0.00	0.174	6.00	1.00		Sep-11	0.174	1.03	5.00	0.98	6.00	1.75	50.00	6.00
Oct-11	6.05	0.00	0.093	6.05	1.00		Oct-11	0.093	1.03	5.00	0.98	6.05	1.75	50.00	6.05
Nov-11	6.24	0.00	0.156	6.24	1.00		Nov-11	0.156	1.03	5.00	1.01	6.24	1.75	50.00	6.24
Dec-11	6.48	0.00	0.177	6.48	1.00		Dec-11	0.177	1.03	5.00	1.05	6.48	1.75	50.00	6.48

Table 26: CGS Nuclear Plant Risk Model

CGS Input Parameters	H Factor:	Capacity
	19.93	1162

CY 2008	Jan '08	Feb '08	Mar '08	Apr '08	May '08	Jun '08	Jul '08	Aug '08	Sep '08	Oct '08	Nov '08	Dec '08
Simulated CGS Output (aMW)	1106	1106	1106	1106	1106	1106	1106	1106	1106	1106	1106	1106
CGS L&R Study (Average Energy in aMW)	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030
Simulated Mean Values	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030
Risk Uniform Distribution	*0.5*	*0.5*	*0.5*	*0.5*	*0.5*	*0.5*	*0.5*	*0.5*	*0.5*	*0.5*	*0.5*	*0.5*

CY 2009	Jan '09	Feb '09	Mar '09	Apr '09	May '09	Jun '09	Jul '09	Aug '09	Sep '09	Oct '09	Nov '09	Dec '09
Simulated CGS Output (aMW)	1106	1106	1106	1106	286	0	1071	1106	1106	1106	1106	1106
CGS L&R Study (Average Energy in aMW)	1030	1030	1030	1030	266	0	997	1030	1030	1030	1030	1030
Simulated Mean Values	1030	1030	1030	1030	266	0	997	1030	1030	1030	1030	1030
Risk Uniform Distribution	*0.5*	*0.5*	*0.5*	*0.5*	*0.5*	*0.5*	*0.5*	*0.5*	*0.5*	*0.5*	*0.5*	*0.5*

CY 2010	Jan '10	Feb '10	Mar '10	Apr '10	May '10	Jun '10	Jul '10	Aug '10	Sep '10	Oct '10	Nov '10	Dec '10
Simulated CGS Output (aMW)	1106	1106	1106	1106	1106	1106	1106	1106	1106	1106	1106	1106
CGS L&R Study (Average Energy in aMW)	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030
Simulated Mean Values	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030
Risk Uniform Distribution	*0.5*	*0.5*	*0.5*	*0.5*	*0.5*	*0.5*	*0.5*	*0.5*	*0.5*	*0.5*	*0.5*	*0.5*

CY 2011	Jan '11	Feb '11	Mar '11	Apr '11	May '11	Jun '11	Jul '11	Aug '11	Sep '11	Oct '11	Nov '11	Dec '11
Simulated CGS Output (aMW)	1106	1106	1106	295	0	0	964	1106	1106	1106	1106	1106
CGS L&R Study (Average Energy in aMW)	1030	1030	1030	275	0	0	897	1030	1030	1030	1030	1030
Simulated Mean Values	1030	1030	1030	275	0	0	897	1030	1030	1030	1030	1030
Risk Uniform Distribution	*0.5*	*0.5*	*0.5*	*0.5*	*0.5*	*0.5*	*0.5*	*0.5*	*0.5*	*0.5*	*0.5*	*0.5*

Table 27: Condon Wind Project Daily Output Variability by Month

Condon

Nameplate Capacity: 49.8 MW

	Cumulative Probability Distribution of Daily Capacity Factors (Energy = Capacity * Capacity Factors)											
Percentile	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Min	0.000	0.001	0.000	0.008	0.000	0.000	0.027	0.004	0.001	0.000	0.000	0.000
0.01	0.000	0.003	0.003	0.013	0.000	0.000	0.027	0.005	0.001	0.000	0.000	0.000
0.05	0.000	0.010	0.011	0.031	0.000	0.000	0.031	0.015	0.014	0.003	0.003	0.000
0.10	0.000	0.025	0.037	0.038	0.014	0.026	0.037	0.025	0.025	0.014	0.008	0.001
0.15	0.003	0.035	0.051	0.046	0.024	0.044	0.044	0.034	0.036	0.035	0.020	0.008
0.20	0.005	0.046	0.077	0.064	0.035	0.057	0.047	0.040	0.044	0.046	0.024	0.019
0.25	0.009	0.055	0.088	0.072	0.049	0.068	0.058	0.053	0.058	0.058	0.035	0.044
0.30	0.018	0.065	0.100	0.084	0.064	0.075	0.067	0.067	0.064	0.073	0.051	0.071
0.35	0.028	0.075	0.125	0.106	0.078	0.080	0.085	0.081	0.073	0.083	0.083	0.083
0.40	0.044	0.092	0.168	0.113	0.095	0.101	0.100	0.088	0.082	0.097	0.107	0.100
0.45	0.076	0.105	0.224	0.125	0.106	0.118	0.119	0.092	0.093	0.130	0.154	0.125
0.50	0.101	0.131	0.265	0.147	0.124	0.136	0.131	0.098	0.105	0.147	0.176	0.188
0.55	0.158	0.139	0.300	0.170	0.137	0.155	0.138	0.111	0.124	0.182	0.197	0.233
0.60	0.200	0.155	0.356	0.187	0.157	0.169	0.152	0.123	0.137	0.212	0.255	0.248
0.65	0.292	0.187	0.389	0.206	0.196	0.192	0.177	0.134	0.176	0.252	0.315	0.278
0.70	0.335	0.200	0.422	0.242	0.230	0.204	0.205	0.161	0.205	0.272	0.358	0.327
0.75	0.369	0.215	0.452	0.268	0.265	0.234	0.222	0.199	0.245	0.298	0.406	0.402
0.80	0.419	0.268	0.518	0.291	0.274	0.269	0.251	0.223	0.268	0.351	0.467	0.474
0.85	0.488	0.311	0.574	0.325	0.308	0.318	0.267	0.258	0.327	0.426	0.527	0.541
0.90	0.522	0.429	0.683	0.396	0.443	0.374	0.312	0.306	0.437	0.483	0.630	0.628
0.95	0.596	0.513	0.752	0.499	0.525	0.444	0.343	0.406	0.483	0.635	0.739	0.662
0.99	0.825	0.823	0.831	0.651	0.681	0.554	0.586	0.593	0.594	0.794	0.876	0.776
Max	0.866	0.953	0.901	0.712	0.696	0.628	0.723	0.719	0.758	0.859	0.931	0.800
Average	0.207	0.175	0.301	0.189	0.175	0.169	0.158	0.142	0.166	0.213	0.254	0.243
Energy (aMW)	10.3	8.7	15.0	9.4	8.7	8.4	7.9	7.1	8.3	10.6	12.6	12.1

Table 28: Combined Foote Creek I, II, and IV Wind Project Daily Output Variability by Month

Foote Creek I, II, and IV

Nameplate Capacity: 33.9 MW

Cumulative Probability Distribution of Daily Capacity Factors (Energy = Capacity * Capacity Factors)												
Percentile	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**
Min	0.270	0.331	0.168	0.189	0.151	0.135	0.118	0.075	0.092	0.144	0.189	0.162
0.01	0.274	0.342	0.168	0.213	0.160	0.141	0.119	0.082	0.103	0.153	0.198	0.177
0.05	0.322	0.353	0.176	0.245	0.176	0.155	0.129	0.088	0.114	0.158	0.224	0.213
0.10	0.382	0.364	0.202	0.269	0.186	0.177	0.134	0.097	0.122	0.167	0.254	0.278
0.15	0.435	0.382	0.246	0.282	0.190	0.186	0.140	0.103	0.134	0.182	0.290	0.317
0.20	0.469	0.405	0.265	0.298	0.201	0.193	0.144	0.116	0.140	0.203	0.341	0.354
0.25	0.490	0.439	0.272	0.310	0.206	0.225	0.149	0.127	0.151	0.216	0.349	0.374
0.30	0.500	0.462	0.319	0.332	0.210	0.233	0.152	0.130	0.169	0.236	0.363	0.409
0.35	0.519	0.506	0.354	0.353	0.233	0.246	0.156	0.140	0.188	0.245	0.375	0.430
0.40	0.539	0.524	0.361	0.373	0.246	0.253	0.165	0.151	0.200	0.264	0.392	0.465
0.45	0.561	0.542	0.400	0.386	0.265	0.264	0.168	0.157	0.207	0.303	0.399	0.495
0.50	0.576	0.569	0.409	0.399	0.280	0.274	0.175	0.171	0.229	0.334	0.435	0.520
0.55	0.582	0.587	0.428	0.418	0.292	0.283	0.190	0.181	0.235	0.355	0.459	0.540
0.60	0.590	0.592	0.444	0.443	0.303	0.295	0.193	0.192	0.244	0.369	0.475	0.556
0.65	0.602	0.619	0.453	0.459	0.321	0.318	0.195	0.204	0.250	0.388	0.502	0.561
0.70	0.612	0.630	0.475	0.479	0.329	0.336	0.204	0.225	0.273	0.413	0.524	0.571
0.75	0.624	0.638	0.492	0.490	0.342	0.353	0.222	0.242	0.282	0.418	0.529	0.590
0.80	0.630	0.654	0.510	0.506	0.366	0.376	0.229	0.258	0.298	0.426	0.540	0.598
0.85	0.643	0.676	0.559	0.519	0.390	0.398	0.240	0.270	0.315	0.446	0.566	0.610
0.90	0.661	0.691	0.587	0.540	0.426	0.444	0.265	0.278	0.344	0.473	0.595	0.628
0.95	0.673	0.696	0.604	0.580	0.452	0.485	0.296	0.321	0.386	0.495	0.643	0.636
0.99	0.706	0.721	0.639	0.627	0.484	0.566	0.334	0.350	0.485	0.526	0.680	0.648
Max	0.713	0.723	0.639	0.642	0.515	0.644	0.369	0.420	0.492	0.530	0.693	0.654
Average	0.545	0.543	0.398	0.405	0.287	0.293	0.189	0.184	0.230	0.321	0.435	0.478
Energy (aMW)	18.5	18.4	13.5	13.7	9.7	9.9	6.4	6.3	7.8	10.9	14.7	16.2

Note: Output from Foote Creek I, II, and IV were combined because the output of these wind plants are highly correlated

Table 29: Klondike I and III Wind Project Daily Output Variability by Month

Klondike I and III

Nameplate Capacity: 74.0 MW

	Cumulative Probability Distribution of Daily Capacity Factors (Energy = Capacity * Capacity Factors)											
Percentile	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Min	0.000	0.000	0.003	0.001	0.007	0.010	0.002	0.008	0.002	0.000	0.000	0.000
0.01	0.000	0.001	0.004	0.002	0.022	0.027	0.017	0.018	0.009	0.000	0.000	0.000
0.05	0.000	0.002	0.015	0.012	0.050	0.049	0.052	0.045	0.017	0.002	0.000	0.000
0.10	0.000	0.007	0.027	0.037	0.080	0.068	0.106	0.068	0.032	0.007	0.003	0.000
0.15	0.001	0.015	0.049	0.063	0.131	0.092	0.155	0.096	0.050	0.021	0.005	0.001
0.20	0.003	0.025	0.065	0.094	0.158	0.137	0.205	0.131	0.070	0.037	0.007	0.004
0.25	0.007	0.033	0.109	0.134	0.182	0.191	0.256	0.173	0.084	0.058	0.022	0.007
0.30	0.011	0.045	0.135	0.164	0.231	0.248	0.302	0.216	0.105	0.080	0.036	0.010
0.35	0.015	0.050	0.167	0.186	0.294	0.310	0.338	0.249	0.154	0.107	0.044	0.019
0.40	0.021	0.068	0.201	0.214	0.326	0.346	0.363	0.283	0.191	0.137	0.050	0.036
0.45	0.033	0.094	0.246	0.244	0.379	0.401	0.416	0.301	0.217	0.216	0.058	0.047
0.50	0.048	0.104	0.316	0.274	0.424	0.427	0.478	0.357	0.272	0.232	0.064	0.071
0.55	0.073	0.135	0.360	0.297	0.456	0.470	0.553	0.378	0.302	0.277	0.083	0.102
0.60	0.113	0.189	0.416	0.353	0.491	0.489	0.577	0.411	0.368	0.323	0.144	0.114
0.65	0.132	0.229	0.482	0.391	0.546	0.595	0.622	0.448	0.436	0.348	0.196	0.177
0.70	0.185	0.258	0.533	0.426	0.567	0.616	0.639	0.510	0.497	0.400	0.233	0.196
0.75	0.255	0.287	0.565	0.488	0.609	0.732	0.678	0.584	0.527	0.449	0.268	0.260
0.80	0.287	0.361	0.595	0.531	0.704	0.768	0.727	0.642	0.605	0.530	0.387	0.289
0.85	0.304	0.487	0.687	0.598	0.735	0.811	0.785	0.699	0.651	0.569	0.508	0.330
0.90	0.404	0.593	0.757	0.664	0.824	0.853	0.824	0.750	0.705	0.645	0.549	0.381
0.95	0.562	0.713	0.822	0.808	0.903	0.894	0.854	0.799	0.769	0.714	0.633	0.500
0.99	0.673	0.808	0.887	0.904	0.970	0.961	0.900	0.843	0.821	0.895	0.802	0.685
Max	0.817	0.835	0.915	0.918	0.978	0.976	0.915	0.852	0.873	0.896	0.827	0.847
Average	0.142	0.207	0.350	0.323	0.428	0.450	0.469	0.378	0.326	0.283	0.188	0.148
Energy (aMW)	10.5	15.3	25.9	23.9	31.7	33.3	34.7	28.0	24.1	20.9	13.9	11.0

Note: Daily capacity factors were derived from historical data for only 24 MW from Klondike I.
An additional 50 MW for Klondike III was added in the monthly energy values above

Table 30: Stateline Wind Project Daily Output Variability by Month

Stateline
Nameplate Capacity: 90.4 MW

	Cumulative Probability Distribution of Daily Capacity Factors (Energy = Capacity * Capacity Factors)											
Percentile	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Min	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000
0.01	0.000	0.000	0.000	0.000	0.003	0.001	0.002	0.001	0.000	0.000	0.000	0.000
0.05	0.000	0.000	0.003	0.007	0.005	0.003	0.005	0.003	0.000	0.000	0.000	0.000
0.10	0.000	0.000	0.018	0.017	0.013	0.006	0.020	0.010	0.000	0.000	0.000	0.000
0.15	0.000	0.000	0.036	0.028	0.019	0.009	0.025	0.015	0.008	0.001	0.001	0.000
0.20	0.000	0.001	0.063	0.049	0.041	0.021	0.044	0.033	0.014	0.007	0.002	0.000
0.25	0.000	0.002	0.086	0.078	0.068	0.029	0.070	0.049	0.022	0.020	0.005	0.001
0.30	0.001	0.005	0.125	0.105	0.091	0.037	0.094	0.080	0.039	0.027	0.011	0.003
0.35	0.002	0.009	0.240	0.132	0.114	0.071	0.130	0.114	0.061	0.063	0.027	0.014
0.40	0.005	0.012	0.299	0.170	0.140	0.101	0.167	0.152	0.074	0.095	0.034	0.024
0.45	0.009	0.017	0.343	0.194	0.168	0.143	0.201	0.180	0.090	0.126	0.047	0.031
0.50	0.015	0.025	0.387	0.212	0.195	0.179	0.221	0.196	0.125	0.143	0.067	0.053
0.55	0.045	0.043	0.425	0.244	0.208	0.213	0.259	0.223	0.179	0.215	0.113	0.133
0.60	0.089	0.087	0.508	0.285	0.232	0.260	0.310	0.251	0.200	0.241	0.176	0.158
0.65	0.176	0.108	0.546	0.305	0.307	0.337	0.329	0.280	0.277	0.290	0.241	0.254
0.70	0.222	0.141	0.585	0.357	0.409	0.412	0.391	0.314	0.316	0.329	0.346	0.316
0.75	0.269	0.191	0.623	0.399	0.482	0.505	0.415	0.342	0.372	0.392	0.446	0.356
0.80	0.325	0.234	0.647	0.503	0.507	0.563	0.453	0.384	0.482	0.457	0.528	0.471
0.85	0.376	0.306	0.699	0.537	0.578	0.628	0.491	0.480	0.526	0.483	0.585	0.505
0.90	0.671	0.393	0.750	0.658	0.645	0.691	0.554	0.551	0.614	0.545	0.760	0.587
0.95	0.787	0.569	0.847	0.719	0.728	0.769	0.604	0.686	0.721	0.622	0.822	0.692
0.99	0.878	0.951	0.875	0.821	0.858	0.880	0.815	0.760	0.804	0.788	0.857	0.779
Max	0.899	0.956	0.893	0.849	0.948	0.922	0.829	0.780	0.827	0.800	0.889	0.825
Average	0.174	0.134	0.385	0.271	0.272	0.274	0.261	0.238	0.228	0.227	0.233	0.203
Energy (aMW)	15.8	12.1	34.8	24.5	24.6	24.7	23.6	21.5	20.6	20.5	21.1	18.3

Note: Excludes Jan-02 & Feb-02 Data (Flawed Metered Data)

Table 31: Condon Wind Project Risk Model

Condon

Capacity (MW) 49.8

	Month aMW	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9	Day 10	Day 11	Day 12	Day 13	Day 14	Day 15	Day 16	Day 17	Day 18	Day 19	Day 20	Day 21
Jan-08	**10.2**	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2
Feb-08	**8.7**	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7
Mar-08	**15.0**	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
Apr-08	**9.4**	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4
May-08	**8.7**	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7
Jun-08	**8.4**	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
Jul-08	**7.8**	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
Aug-08	**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	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
Sep-08	**8.3**	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3
Oct-08	**10.5**	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
Nov-08	**12.5**	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
Dec-08	**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	12.0	12.0	12.0	12.0	12.0	12.0	12.0
Jan-09	**10.2**	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2
Feb-09	**8.7**	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7
Mar-09	**15.0**	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
Apr-09	**9.4**	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4
May-09	**8.7**	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7
Jun-09	**8.4**	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
Jul-09	**7.8**	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
Aug-09	**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	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
Sep-09	**8.3**	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3
Oct-09	**10.5**	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
Nov-09	**12.5**	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
Dec-09	**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	12.0	12.0	12.0	12.0	12.0	12.0	12.0
Jan-10	**10.2**	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2
Feb-10	**8.7**	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7
Mar-10	**15.0**	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
Apr-10	**9.4**	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4
May-10	**8.7**	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7
Jun-10	**8.4**	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
Jul-10	**7.8**	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
Aug-10	**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	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
Sep-10	**8.3**	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3
Oct-10	**10.5**	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
Nov-10	**12.5**	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
Dec-10	**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	12.0	12.0	12.0	12.0	12.0	12.0	12.0
Jan-11	**10.2**	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2
Feb-11	**8.7**	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7
Mar-11	**15.0**	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
Apr-11	**9.4**	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4
May-11	**8.7**	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7
Jun-11	**8.4**	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
Jul-11	**7.8**	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
Aug-11	**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	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
Sep-11	**8.3**	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3
Oct-11	**10.5**	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
Nov-11	**12.5**	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
Dec-11	**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	12.0	12.0	12.0	12.0	12.0	12.0	12.0

	A	X	Y	Z	AA	AB	AC	AD	AE	AF	AG
1	**Table 31: Condon Wind Project Risk Model (Continued)**										
2											
3											
4	**Condon**										
5	**Capacity (MW)**										
6											
7		**Day 22**	**Day 23**	**Day 24**	**Day 25**	**Day 26**	**Day 27**	**Day 28**	**Day 29**	**Day 30**	**Day 31**
8	**Jan-08**	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2
9	**Feb-08**	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7
10	**Mar-08**	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
11	**Apr-08**	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4
12	**May-08**	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7
13	**Jun-08**	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
14	**Jul-08**	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
15	**Aug-08**	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
16	**Sep-08**	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3
17	**Oct-08**	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
18	**Nov-08**	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
19	**Dec-08**	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
20	**Jan-09**	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2
21	**Feb-09**	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7
22	**Mar-09**	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
23	**Apr-09**	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4
24	**May-09**	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7
25	**Jun-09**	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
26	**Jul-09**	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
27	**Aug-09**	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
28	**Sep-09**	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3
29	**Oct-09**	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
30	**Nov-09**	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
31	**Dec-09**	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
32	**Jan-10**	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2
33	**Feb-10**	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7
34	**Mar-10**	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
35	**Apr-10**	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4
36	**May-10**	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7
37	**Jun-10**	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
38	**Jul-10**	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
39	**Aug-10**	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
40	**Sep-10**	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3
41	**Oct-10**	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
42	**Nov-10**	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
43	**Dec-10**	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
44	**Jan-11**	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2
45	**Feb-11**	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7
46	**Mar-11**	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
47	**Apr-11**	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4
48	**May-11**	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7
49	**Jun-11**	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
50	**Jul-11**	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
51	**Aug-11**	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
52	**Sep-11**	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3
53	**Oct-11**	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
54	**Nov-11**	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
55	**Dec-11**	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0

Table 32: Foote Creek I, II, and IV Wind Project Risk Model

Foote Creek I, II, IV

Capacity (MW) 33.9

	Month aMW	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9	Day 10	Day 11	Day 12	Day 13	Day 14	Day 15	Day 16	Day 17	Day 18	Day 19	Day 20
Jan-08	**18.5**	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5
Feb-08	**18.4**	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4
Mar-08	**13.5**	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
Apr-08	**13.7**	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7
May-08	**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	9.7	9.7	9.7	9.7	9.7	9.7
Jun-08	**9.9**	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9
Jul-08	**6.4**	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
Aug-08	**6.2**	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
Sep-08	**7.8**	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
Oct-08	**10.9**	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9
Nov-08	**14.7**	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
Dec-08	**16.2**	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2
Jan-09	**18.5**	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5
Feb-09	**18.4**	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4
Mar-09	**13.5**	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
Apr-09	**13.7**	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7
May-09	**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	9.7	9.7	9.7	9.7	9.7	9.7
Jun-09	**9.9**	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9
Jul-09	**6.4**	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
Aug-09	**6.2**	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
Sep-09	**7.8**	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
Oct-09	**10.9**	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9
Nov-09	**14.7**	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
Dec-09	**16.2**	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2
Jan-10	**18.5**	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5
Feb-10	**18.4**	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4
Mar-10	**13.5**	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
Apr-10	**13.7**	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7
May-10	**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	9.7	9.7	9.7	9.7	9.7	9.7
Jun-10	**9.9**	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9
Jul-10	**6.4**	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
Aug-10	**6.2**	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
Sep-10	**7.8**	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
Oct-10	**10.9**	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9
Nov-10	**14.7**	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
Dec-10	**16.2**	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2
Jan-11	**18.5**	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5
Feb-11	**18.4**	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4
Mar-11	**13.5**	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
Apr-11	**13.7**	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7
May-11	**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	9.7	9.7	9.7	9.7	9.7	9.7
Jun-11	**9.9**	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9
Jul-11	**6.4**	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
Aug-11	**6.2**	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
Sep-11	**7.8**	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
Oct-11	**10.9**	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9
Nov-11	**14.7**	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
Dec-11	**16.2**	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2

	A	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG
1	**Table 32: Foote Creek I, II, & IV Wind Risk Model (Continued)**											
2												
3												
4	**Foote Creek I, II,**											
5	**Capacity (MW)**											
6												
7		**Day 21**	**Day 22**	**Day 23**	**Day 24**	**Day 25**	**Day 26**	**Day 27**	**Day 28**	**Day 29**	**Day 30**	**Day 31**
8	**Jan-08**	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5
9	**Feb-08**	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4
10	**Mar-08**	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
11	**Apr-08**	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7
12	**May-08**	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7
13	**Jun-08**	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9
14	**Jul-08**	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
15	**Aug-08**	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
16	**Sep-08**	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
17	**Oct-08**	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9
18	**Nov-08**	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
19	**Dec-08**	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2
20	**Jan-09**	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5
21	**Feb-09**	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4
22	**Mar-09**	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
23	**Apr-09**	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7
24	**May-09**	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7
25	**Jun-09**	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9
26	**Jul-09**	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
27	**Aug-09**	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
28	**Sep-09**	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
29	**Oct-09**	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9
30	**Nov-09**	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
31	**Dec-09**	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2
32	**Jan-10**	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5
33	**Feb-10**	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4
34	**Mar-10**	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
35	**Apr-10**	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7
36	**May-10**	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7
37	**Jun-10**	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9
38	**Jul-10**	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
39	**Aug-10**	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
40	**Sep-10**	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
41	**Oct-10**	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9
42	**Nov-10**	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
43	**Dec-10**	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2
44	**Jan-11**	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5
45	**Feb-11**	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4
46	**Mar-11**	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
47	**Apr-11**	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7
48	**May-11**	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7
49	**Jun-11**	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9
50	**Jul-11**	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
51	**Aug-11**	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
52	**Sep-11**	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
53	**Oct-11**	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9
54	**Nov-11**	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
55	**Dec-11**	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2

Table 33: Klondike I and III Wind Project Risk Model

Capacity (MW)

Klondike I	**24.0**
Klondike III	**50.0**

	Month aMW	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9	Day 10	Day 11	Day 12	Day 13	Day 14	Day 15	Day 16	Day 17	Day 18	Day 19	Day 20
Jan-08	**10.4**	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4
Feb-08	**15.2**	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2
Mar-08	**25.9**	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9
Apr-08	**23.8**	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8
May-08	**31.8**	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8
Jun-08	**33.3**	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3
Jul-08	**34.7**	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7
Aug-08	**28.0**	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0
Sep-08	**24.0**	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
Oct-08	**20.8**	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8
Nov-08	**13.7**	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7
Dec-08	**10.8**	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8
Jan-09	**10.4**	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4
Feb-09	**15.2**	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2
Mar-09	**25.9**	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9
Apr-09	**23.8**	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8
May-09	**31.8**	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8
Jun-09	**33.3**	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3
Jul-09	**34.7**	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7
Aug-09	**28.0**	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0
Sep-09	**24.0**	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
Oct-09	**20.8**	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8
Nov-09	**13.7**	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7
Dec-09	**10.8**	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8
Jan-10	**10.4**	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4
Feb-10	**15.2**	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2
Mar-10	**25.9**	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9
Apr-10	**23.8**	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8
May-10	**31.8**	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8
Jun-10	**33.3**	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3
Jul-10	**34.7**	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7
Aug-10	**28.0**	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0
Sep-10	**24.0**	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
Oct-10	**20.8**	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8
Nov-10	**13.7**	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7
Dec-10	**10.8**	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8
Jan-11	**10.4**	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4
Feb-11	**15.2**	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2
Mar-11	**25.9**	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9
Apr-11	**23.8**	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8
May-11	**31.8**	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8
Jun-11	**33.3**	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3
Jul-11	**34.7**	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7
Aug-11	**28.0**	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0
Sep-11	**24.0**	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
Oct-11	**20.8**	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8
Nov-11	**13.7**	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7
Dec-11	**10.8**	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8

	A	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG
1	**Table 33: Klondike I and III Wind Project Risk Model (Continued)**											
2												
3												
4	**Capacity (MW)**											
5	**Klondike I**											
6	**Klondike III**											
7												
8		**Day 21**	**Day 22**	**Day 23**	**Day 24**	**Day 25**	**Day 26**	**Day 27**	**Day 28**	**Day 29**	**Day 30**	**Day 31**
9	**Jan-08**	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4
10	**Feb-08**	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2
11	**Mar-08**	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9
12	**Apr-08**	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8
13	**May-08**	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8
14	**Jun-08**	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3
15	**Jul-08**	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7
16	**Aug-08**	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0
17	**Sep-08**	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
18	**Oct-08**	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8
19	**Nov-08**	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7
20	**Dec-08**	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8
21	**Jan-09**	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4
22	**Feb-09**	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2
23	**Mar-09**	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9
24	**Apr-09**	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8
25	**May-09**	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8
26	**Jun-09**	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3
27	**Jul-09**	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7
28	**Aug-09**	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0
29	**Sep-09**	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
30	**Oct-09**	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8
31	**Nov-09**	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7
32	**Dec-09**	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8
33	**Jan-10**	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4
34	**Feb-10**	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2
35	**Mar-10**	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9
36	**Apr-10**	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8
37	**May-10**	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8
38	**Jun-10**	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3
39	**Jul-10**	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7
40	**Aug-10**	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0
41	**Sep-10**	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
42	**Oct-10**	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8
43	**Nov-10**	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7
44	**Dec-10**	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8
45	**Jan-11**	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4
46	**Feb-11**	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2
47	**Mar-11**	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9
48	**Apr-11**	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8
49	**May-11**	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8
50	**Jun-11**	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3
51	**Jul-11**	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7
52	**Aug-11**	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0
53	**Sep-11**	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
54	**Oct-11**	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8
55	**Nov-11**	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7
56	**Dec-11**	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8

Table 34: Stateline Wind Project Risk Model

Stateline

Capacity (MW) 90.4

	Month aMW	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9	Day 10	Day 11	Day 12	Day 13	Day 14	Day 15	Day 16	Day 17	Day 18	Day 19	Day 20
Jan-08	**15.6**	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6
Feb-08	**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	12.0	12.0	12.0	12.0	12.0	12.0
Mar-08	**34.7**	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7
Apr-08	**24.5**	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5
May-08	**24.4**	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4
Jun-08	**24.5**	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5
Jul-08	**23.6**	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6
Aug-08	**21.4**	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4
Sep-08	**20.5**	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5
Oct-08	**20.2**	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2
Nov-08	**21.0**	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0
Dec-08	**18.1**	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1
Jan-09	**15.6**	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6
Feb-09	**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	12.0	12.0	12.0	12.0	12.0	12.0
Mar-09	**34.7**	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7
Apr-09	**24.5**	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5
May-09	**24.4**	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4
Jun-09	**24.5**	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5
Jul-09	**23.6**	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6
Aug-09	**21.4**	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4
Sep-09	**20.5**	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5
Oct-09	**20.2**	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2
Nov-09	**21.0**	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0
Dec-09	**18.1**	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1
Jan-10	**15.6**	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6
Feb-10	**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	12.0	12.0	12.0	12.0	12.0	12.0
Mar-10	**34.7**	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7
Apr-10	**24.5**	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5
May-10	**24.4**	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4
Jun-10	**24.5**	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5
Jul-10	**23.6**	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6
Aug-10	**21.4**	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4
Sep-10	**20.5**	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5
Oct-10	**20.2**	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2
Nov-10	**21.0**	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0
Dec-10	**18.1**	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1
Jan-11	**15.6**	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6
Feb-11	**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	12.0	12.0	12.0	12.0	12.0	12.0
Mar-11	**34.7**	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7
Apr-11	**24.5**	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5
May-11	**24.4**	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4
Jun-11	**24.5**	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5
Jul-11	**23.6**	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6
Aug-11	**21.4**	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4
Sep-11	**20.5**	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5
Oct-11	**20.2**	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2
Nov-11	**21.0**	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0
Dec-11	**18.1**	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1

	A	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG
1	**Table 34: Stateline Wind Project Risk Model (Continued)**											
2												
3												
4	**Stateline**											
5	**Capacity (MW)**											
6												
7		**Day 21**	**Day 22**	**Day 23**	**Day 24**	**Day 25**	**Day 26**	**Day 27**	**Day 28**	**Day 29**	**Day 30**	**Day 31**
8	**Jan-08**	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6
9	**Feb-08**	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
10	**Mar-08**	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7
11	**Apr-08**	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5
12	**May-08**	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4
13	**Jun-08**	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5
14	**Jul-08**	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6
15	**Aug-08**	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4
16	**Sep-08**	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5
17	**Oct-08**	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2
18	**Nov-08**	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0
19	**Dec-08**	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1
20	**Jan-09**	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6
21	**Feb-09**	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
22	**Mar-09**	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7
23	**Apr-09**	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5
24	**May-09**	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4
25	**Jun-09**	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5
26	**Jul-09**	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6
27	**Aug-09**	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4
28	**Sep-09**	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5
29	**Oct-09**	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2
30	**Nov-09**	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0
31	**Dec-09**	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1
32	**Jan-10**	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6
33	**Feb-10**	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
34	**Mar-10**	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7
35	**Apr-10**	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5
36	**May-10**	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4
37	**Jun-10**	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5
38	**Jul-10**	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6
39	**Aug-10**	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4
40	**Sep-10**	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5
41	**Oct-10**	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2
42	**Nov-10**	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0
43	**Dec-10**	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1
44	**Jan-11**	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6
45	**Feb-11**	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
46	**Mar-11**	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7
47	**Apr-11**	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5
48	**May-11**	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4
49	**Jun-11**	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5
50	**Jul-11**	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6
51	**Aug-11**	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4
52	**Sep-11**	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5
53	**Oct-11**	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2
54	**Nov-11**	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0
55	**Dec-11**	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1

Table 35: Value of Wind Generation at Expected Wind Generation for FY 2010

Expected Generation (aMW)

Wind Project	Oct '09	Nov '09	Dec '09	Jan '10	Feb '10	Mar '10	Apr '10	May '10	Jun '10	Jul '10	Aug '10	Sep '10	Annual
Foote Creek I, II, & IV	10.9	14.7	16.2	18.5	18.4	13.5	13.7	9.7	9.9	6.4	6.2	7.8	
Stateline	20.2	21.0	18.1	15.6	12.0	34.7	24.5	24.4	24.5	23.6	21.4	20.5	
Condon	10.5	12.5	12.0	10.2	8.7	15.0	9.4	8.7	8.4	7.8	7.1	8.3	
Klondike Phase I & III	13.7	10.8	10.8	10.4	10.4	15.2	15.2	25.9	25.9	23.8	23.8	31.8	
Total Wind Generation	**55.3**	**59.0**	**57.1**	**54.7**	**49.6**	**78.4**	**62.8**	**68.7**	**68.8**	**61.6**	**58.5**	**68.3**	**61.97**

Contract Prices ($/MWh)

Wind Project	Oct '09	Nov '09	Dec '09	Jan '10	Feb '10	Mar '10	Apr '10	May '10	Jun '10	Jul '10	Aug '10	Sep '10	Annual
Foote Creek I, II, & IV	57.3	57.3	57.3	62.1	62.1	62.1	62.2	62.2	62.1	62.2	62.1	62.1	
Stateline	34.0	34.0	34.0	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	
Condon	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	64.9	64.9	64.9	64.9	
Klondike Phase I & III	33.4	33.4	33.4	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2	
Wtd. Average Price	**44.0**	**45.9**	**46.6**	**49.3**	**49.9**	**44.9**	**44.9**	**42.1**	**42.2**	**41.3**	**41.2**	**41.3**	**44.24**

Power Purchase Costs for Expected Wind Generation ($1,000)

	Oct '09	Nov '09	Dec '09	Jan '10	Feb '10	Mar '10	Apr '10	May '10	Jun '10	Jul '10	Aug '10	Sep '10	Annual
Total Purchase Cost	1,811	1,951	1,983	2,005	1,661	2,618	2,033	2,152	2,091	1,891	1,792	2,031	**24,020**

Average, Median, 5th Percentile, and 95th Percentile Spot Market Electricity Prices Estimated by AURORA ($/MWh)

	Oct '09	Nov '09	Dec '09	Jan '10	Feb '10	Mar '10	Apr '10	May '10	Jun '10	Jul '10	Aug '10	Sep '10	Annual
5%	29.4	29.5	29.2	32.0	29.3	26.9	23.8	21.7	23.1	24.7	27.9	26.7	29.58
50%	43.1	43.0	44.4	48.1	46.8	44.5	40.2	36.3	37.7	42.3	49.1	48.4	44.20
Average	45.0	45.1	46.2	50.3	49.8	47.7	43.9	39.7	40.6	45.7	52.5	52.3	46.41
95%	66.9	67.5	69.8	76.6	79.5	79.3	75.5	68.4	67.6	77.6	88.3	90.9	70.35

Revenues from Expected Wind Generation at Various AURORA Price Percentiles ($1,000)

	Oct '09	Nov '09	Dec '09	Jan '10	Feb '10	Mar '10	Apr '10	May '10	Jun '10	Jul '10	Aug '10	Sep '10	Annual
5%	1,210.5	1,255.8	1,241.4	1,300.9	976.0	1,568.6	1,075.2	1,108.9	1,143.9	1,134.0	1,216.1	1,315.2	16,060
50%	1,776.2	1,829.1	1,888.9	1,956.6	1,560.0	2,593.1	1,816.2	1,853.5	1,867.3	1,936.4	2,137.2	2,380.3	23,994
Average	1,853.3	1,915.1	1,965.8	2,046.5	1,658.7	2,779.7	1,983.8	2,027.8	2,007.8	2,093.3	2,287.8	2,573.2	25,193
95%	2,753.6	2,867.9	2,967.2	3,117.0	2,648.3	4,625.8	3,415.9	3,496.3	3,345.8	3,554.9	3,847.0	4,468.8	38,190

Table 36: Value of Wind Generation at Expected Wind Generation for FY 2011

Expected Generation (aMW)

Wind Project	Oct '10	Nov '10	Dec '10	Jan '11	Feb '11	Mar '11	Apr '11	May '11	Jun '11	Jul '11	Aug '11	Sep '11	Annual
Foote Creek I, II, & IV	10.9	14.7	16.2	18.5	18.4	13.5	13.7	9.7	9.9	6.4	6.2	7.8	
Stateline	20.2	21.0	18.1	15.6	12.0	34.7	24.5	24.4	24.5	23.6	21.4	20.5	
Condon	10.5	12.5	12.0	10.2	8.7	15.0	9.4	8.7	8.4	7.8	7.1	8.3	
Klondike Phase I & III	31.8	33.3	33.3	34.7	34.7	28.0	28.0	24.0	24.0	20.8	20.8	13.7	
Total Wind Generation	**73.4**	**81.5**	**79.6**	**79.0**	**73.9**	**91.2**	**75.6**	**66.8**	**66.8**	**58.6**	**55.5**	**50.3**	**71.01**

Contract Prices ($/MWh)

Wind Project	Oct '10	Nov '10	Dec '10	Jan '11	Feb '11	Mar '11	Apr '11	May '11	Jun '11	Jul '11	Aug '11	Sep '11	Annual
Foote Creek I, II, & IV	49.3	49.3	49.3	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	
Stateline	34.0	34.0	34.0	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	
Condon	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	64.9	64.9	64.9	64.9	
Klondike Phase I & III	33.4	33.4	33.4	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2	
Wtd. Average Price	**40.2**	**41.0**	**41.3**	**43.9**	**44.0**	**43.0**	**42.6**	**41.9**	**42.0**	**41.3**	**41.2**	**43.4**	**42.15**

Power Purchase Costs for Expected Wind Generation ($1,000)

	Oct '10	Nov '10	Dec '10	Jan '11	Feb '11	Mar '11	Apr '11	May '11	Jun '11	Jul '11	Aug '11	Sep '11	Annual
Total Purchase Cost	2,194	2,406	2,445	2,582	2,184	2,915	2,318	2,081	2,022	1,800	1,701	1,571	**26,218**

Average, Median, 5th Percentile, and 95th Percentile Spot Market Electricity Prices Estimated by AURORA ($/MWh)

	Oct '10	Nov '10	Dec '10	Jan '11	Feb '11	Mar '11	Apr '11	May '11	Jun '11	Jul '11	Aug '11	Sep '11	Annual
5%	27.1	27.5	28.1	30.8	29.4	28.1	24.5	23.4	24.6	27.2	30.1	29.6	30.31
50%	47.9	48.8	50.1	52.8	51.6	49.8	45.6	42.2	42.0	47.5	54.0	52.8	49.60
Average	51.4	52.7	54.1	56.8	56.0	54.2	49.7	46.1	45.4	51.3	57.6	56.6	52.64
95%	88.5	89.0	93.9	95.6	97.6	95.5	89.8	82.6	78.2	88.0	97.0	96.7	86.15

Revenues from Expected Wind Generation at Various AURORA Price Percentiles ($1,000)

	Oct '10	Nov '10	Dec '10	Jan '11	Feb '11	Mar '11	Apr '11	May '11	Jun '11	Jul '11	Aug '11	Sep '11	Annual
5%	1,479.4	1,614.4	1,662.8	1,808.4	1,459.8	1,907.3	1,333.9	1,164.5	1,182.4	1,184.3	1,243.1	1,070.6	18,857
50%	2,613.7	2,864.4	2,967.5	3,105.2	2,563.5	3,377.1	2,484.8	2,097.2	2,018.8	2,070.4	2,227.8	1,912.2	30,851
Average	2,808.0	3,093.0	3,205.6	3,338.3	2,781.3	3,675.0	2,708.9	2,289.6	2,183.8	2,233.5	2,379.2	2,048.1	32,744
95%	4,832.4	5,220.3	5,560.9	5,616.7	4,845.5	6,475.8	4,888.3	4,101.8	3,762.6	3,835.1	4,003.7	3,499.3	53,587

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	**Table 37: Augmentation Pricing For Revenue Requirement for FY 2010**													
2														
3		**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**June**	**July**	**Aug**	**Sep**	**Annual**
4	**HLH Hours**	432	384	416	400	384	432	416	400	416	416	416	400	**4,912**
5	**HLH Purchases for WY=1937 (aMW)**	639	0	876	830	1,571	1,650	2,113	0	0	0	21	338	**674**
6	**HLH Prices for WY=1937 ($/MWh)**	$48.98	$47.69	$50.50	$57.52	$57.32	$56.00	$50.55	$50.00	$49.60	$52.09	$54.91	$53.81	
7	**HLH Purchase Expenses ($Thousand)**	$13,516	$0	$18,403	$19,091	$34,580	$39,903	$44,436	$0	$0	$0	$473	$7,276	**$177,678**
8														
9	**LLH Hours**	312	337	328	344	288	311	304	344	304	328	328	320	**3,848**
10	**LLH Purchases for WY=1937 (aMW)**	0	0	352	537	601	195	0	0	0	0	0	0	**139**
11	**LLH Prices for WY=1937 ($/MWh)**	$40.44	$43.29	$47.00	$52.53	$52.91	$51.68	$46.21	$38.45	$38.59	$47.22	$46.74	$50.08	
12	**LLH Purchase Expenses ($Thousand)**	$0	$0	$5,425	$9,707	$9,161	$3,132	$0	$0	$0	$0	$0	$0	**$27,425**
13														
14	**Total Hours**													**8,760**
15	**Total Purchase Expense ($ Thousand)**													**$205,103**
16	**Annual Average Purchase Amount (aMW)**													**439**
17	**Weighted Purchase Price ($/MWh)**													**$53.34**
18														
19	**Augmentation Amount (aMW)**													**372**
20	**Augmentation Expense ($ Thousand)**													**$173,821**

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	**Table 38: Augmentation Pricing For Revenue Requirement for FY 2011**													
2														
3		**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**June**	**July**	**Aug**	**Sep**	**Annual**
4	**HLH Hours**	416	400	416	400	384	432	416	400	416	400	432	400	**4,912**
5	**HLH Purchases for WY=1937 (aMW)**	0	0	748	722	1,432	1,704	2,956	0	553	0	0	0	**681**
6	**HLH Prices for WY=1937 ($/MWh)**	$54.31	$52.58	$55.18	$61.91	$61.31	$60.52	$54.72	$55.40	$55.39	$59.42	$60.49	$58.12	
7	**HLH Purchase Expenses ($Thousand)**	$0	$0	$17,175	$17,880	$33,719	$44,548	$67,282	$0	$12,730	$0	$0	$0	**$193,333**
8														
9	**LLH Hours**	328	321	328	344	288	311	304	344	304	344	312	320	**3,848**
10	**LLH Purchases for WY=1937 (aMW)**	0	0	197	332	453	0	0	0	0	0	0	0	**80**
11	**LLH Prices for WY=1937 ($/MWh)**	$46.64	$49.75	$52.77	$57.68	$57.92	$56.48	$51.37	$43.56	$45.62	$51.85	$51.64	$53.64	
12	**LLH Purchase Expenses ($Thousand)**	$0	$0	$3,409	$6,578	$7,558	$0	$0	$0	$0	$0	$0	$0	**$17,544**
13														
14	**Total Hours**													**8,760**
15	**Total Purchase Expense ($ Thousand)**													**$210,878**
16	**Annual Average Purchase Amount (aMW)**													**417**
17	**Weighted Purchase Price ($/MWh)**													**$57.70**
18														
19	**Augmentation Amount (aMW)**													**599**
20	**Augmentation Expense ($ Thousand)**													**$302,757**

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	**Table 39: Average Augmentation Cost For Risk Analysis for FY 2010**													
2														
3											**Augmentation Category 1 (Not Due to CGS Planned Outages)**	**372**		
4											**Augmentation Category 2 (Due to CGS Planned Outages)**	**0**		
5											**Total Augmentation Need**	**372**		
6														
7		**Augmentation Price Method, Forecast 1 (based on average hydro)**												
8		**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**June**	**July**	**Aug**	**Sep**	**Annual**
9	**50% of Category 1 Augmentation Need (aMW)**	186	186	186	186	186	186	186	186	186	186	186	186	
10	**Category 2 Augmentation Need (aMW)**	0	0	0	0	0	0	0	0	0	0	0	0	
11	**Total Augmentation Priced at Forecast 1 (aMW)**	186	186	186	186	186	186	186	186	186	186	186	186	
12														
13	**HLH Hours**	432	384	416	400	384	432	416	400	416	416	416	400	**4,912**
14	**Average HLH Price ($/MWh)**	$49.14	$48.22	$49.40	$55.19	$54.43	$51.82	$48.03	$47.66	$46.74	$49.48	$56.00	$54.85	
15	**HLH Augmentation Expense ($ Thousand)**	$3,949	$3,444	$3,822	$4,106	$3,888	$4,164	$3,716	$3,546	$3,617	$3,828	$4,333	$4,081	**$46,494**
16														
17	**LLH Hours**	312	337	328	344	288	311	304	344	304	328	328	320	**3,848**
18	**Average LLH Price ($/MWh)**	$39.32	$41.47	$42.26	$44.63	$43.58	$41.91	$38.15	$30.37	$32.10	$40.87	$48.14	$49.17	
19	**LLH Augmentation Expense ($ Thousand)**	$2,282	$2,599	$2,578	$2,856	$2,335	$2,425	$2,157	$1,943	$1,815	$2,493	$2,937	$2,927	**$29,346**
20														
21	**Total Augmentation Expense ($ Thousand)**													**$75,840**
22														
23		**Augmentation Price Method, Forecast 2 (based on critical hydro)**												
24		**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**June**	**July**	**Aug**	**Sep**	**Annual**
25	**HLH Hours**	432	384	416	400	384	432	416	400	416	416	416	400	**4912**
26	**HLH Purchases Weights (aMW)**	639	0	876	830	1,571	1,650	2,113	0	0	0	21	338	**674**
27	**Avg. HLH Prices for WY=1937 ($/MWh)**	50	49	51	59	60	58	54	54	52	53	56	56	
28	**HLH Purchase Expenses ($Thousand)**	$13,731	$0	$18,644	$19,449	$36,200	$41,660	$47,445	$0	$0	$0	$486	$7,509	**$185,123**
29														
30	**LLH Hours**	312	337	328	344	288	311	304	344	304	328	328	320	**3,848**
31	**LLH Purchases Weights (aMW)**	0	0	352	537	601	195	0	0	0	0	0	0	**139**
32	**Avg. LLH Prices for WY=1937 ($/MWh)**	40	43	46	52	54	53	47	38	39	47	48	50	
33	**LLH Purchase Expenses ($Thousand)**	$0	$0	$5,302	$9,695	$9,316	$3,183	$0	$0	$0	$0	$0	$0	**$27,496**
34														
35	**Total Hours**													**8,760**
36	**Total Purchase Expense ($ Thousand)**													**$212,619**
37	**Total Purchases (aMW)**													**439**
38	**Weighted Purchase Price ($/MWh)**													**$55.30**
39														
40	**50% of Category 1 Augmentation Need (aMW)**													**186**
41	**Augmentation Expense ($ Thousand)**													**$90,102**
42														
43	**Total Augmentation Expense ($ Thousand)**													**$165,942**

Table 40: Average Augmentation Cost For Risk Analysis for FY 2011

Augmentation Category 1 (Not Due to CGS Planned Outages)	354
Augmentation Category 2 (Due to CGS Planned Outages)	245
Total Augmentation Need	599

Augmentation Price Method, Forecast 1 (based on average hydro)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Annual
50% of Category 1 Augmentation Need (aMW)	177	177	177	177	177	177	177	177	177	177	177	177	
Category 2 Augmentation Need (aMW)	245	245	245	245	245	245	245	245	245	245	245	245	
Total Augmentation Priced at Forecast 1 (aMW)	422	422	422	422	422	422	422	422	422	422	422	422	
HLH Hours	432	384	416	400	384	432	416	400	416	416	416	400	4,912
Average HLH Price ($/MWh)	$55.84	$55.79	$57.08	$62.02	$60.57	$58.39	$53.64	$54.05	$51.81	$55.32	$60.97	$59.79	
HLH Augmentation Expense ($ Thousand)	$10,179	$9,040	$10,020	$10,469	$9,814	$10,645	$9,416	$9,123	$9,095	$9,710	$10,703	$10,092	$118,306
LLH Hours	312	337	328	344	288	311	304	344	304	328	328	320	3,848
Average LLH Price ($/MWh)	$45.86	$48.88	$50.39	$50.73	$49.94	$48.31	$44.42	$36.84	$36.61	$46.57	$53.00	$52.61	
LLH Augmentation Expense ($ Thousand)	$6,038	$6,951	$6,974	$7,364	$6,069	$6,340	$5,698	$5,347	$4,697	$6,446	$7,335	$7,105	$76,364
Total Augmentation Expense ($ Thousand)													$194,670

Augmentation Price Method, Forecast 2 (based on critical hydro)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Annual
HLH Hours	432	384	416	400	384	432	416	400	416	416	416	400	4912
HLH Purchases Weights (aMW)	0	0	748	722	1,432	1,704	2,956	0	553	0	0	0	681
Avg. HLH Prices for WY=1937 ($/MWh)	57	56	59	65	65	64	59	59	58	60	61	60	
HLH Purchase Expenses ($Thousand)	$0	$0	$18,233	$18,730	$35,756	$47,183	$72,133	$0	$13,230	$0	$0	$0	$205,264
LLH Hours	312	337	328	344	288	311	304	344	304	328	328	320	3,848
LLH Purchases Weights (aMW)	0	0	197	332	453	0	0	0	0	0	0	0	80
Avg. LLH Prices for WY=1937 ($/MWh)	47	50	54	59	60	58	53	44	46	53	53	54	
LLH Purchase Expenses ($Thousand)	$0	$0	$3,486	$6,713	$7,830	$0	$0	$0	$0	$0	$0	$0	$18,028
Total Hours													8,760
Total Purchase Expense ($ Thousand)													$223,292
Total Purchases (aMW)													417
Weighted Purchase Price ($/MWh)													$61.10
50% of Category 1 Augmentation Need (aMW)													177
Augmentation Expense ($ Thousand)													$94,726
Total Augmentation Expense ($ Thousand)													$289,397

	A	B	C
1	**Table 41: Risk Analysis Augmentation Cost Statistics ($ Thousand)**		
2			
3		**FY 2010**	**FY 2011**
4	**Average**	165,942	289,397
5	**Median**	158,674	273,169
6	**Standard Deviation**	45,793	98,397
7			
8	**1%**	91,694	134,976
9	**2.50%**	98,738	149,564
10	**5%**	107,124	164,504
11	**10%**	115,439	180,677
12	**15%**	121,806	195,756
13	**20%**	127,228	208,567
14	**25%**	132,550	219,267
15	**30%**	137,388	230,112
16	**35%**	143,120	241,936
17	**40%**	147,965	252,181
18	**45%**	153,586	262,503
19	**50%**	158,674	273,169
20	**55%**	164,275	283,512
21	**60%**	170,541	296,106
22	**65%**	177,072	308,053
23	**70%**	184,173	323,271
24	**75%**	191,680	339,026
25	**80%**	199,419	359,100
26	**85%**	211,167	379,969
27	**90%**	225,364	416,879
28	**95%**	247,381	473,540
29	**97.50%**	269,876	533,527
30	**99%**	303,347	605,039

	A	B	C
1	**Table 42: RiskMod Net Revenue Statistics (With PNRR of $48 million)**		
2			
3		**FY 2010**	**FY 2011**
4	**Average**	200,626	38,294
5	**Median**	202,194	47,056
6	**Standard Deviation**	367,616	432,787
7			
8	**1%**	-478,571	-843,041
9	**2.50%**	-426,827	-716,663
10	**5%**	-372,795	-643,029
11	**10%**	-306,372	-544,023
12	**15%**	-226,479	-452,746
13	**20%**	-147,860	-356,770
14	**25%**	-72,225	-276,845
15	**30%**	1,067	-175,074
16	**35%**	62,911	-102,609
17	**40%**	112,754	-48,406
18	**45%**	162,147	-3,269
19	**50%**	202,194	47,056
20	**55%**	248,568	96,539
21	**60%**	296,768	146,299
22	**65%**	341,567	195,307
23	**70%**	390,368	250,333
24	**75%**	440,464	314,775
25	**80%**	502,706	380,864
26	**85%**	569,691	457,245
27	**90%**	661,077	576,038
28	**95%**	818,617	739,922
29	**97.50%**	925,716	905,567
30	**99%**	1,123,614	1,198,982

RISK ANALYSIS AND MITIGATION STUDY DOCUMENTATION

NON-OPERATING RISK ANALYSIS TABLES

(TABLES 43-58)

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Table 43: CGS O&M Distributions

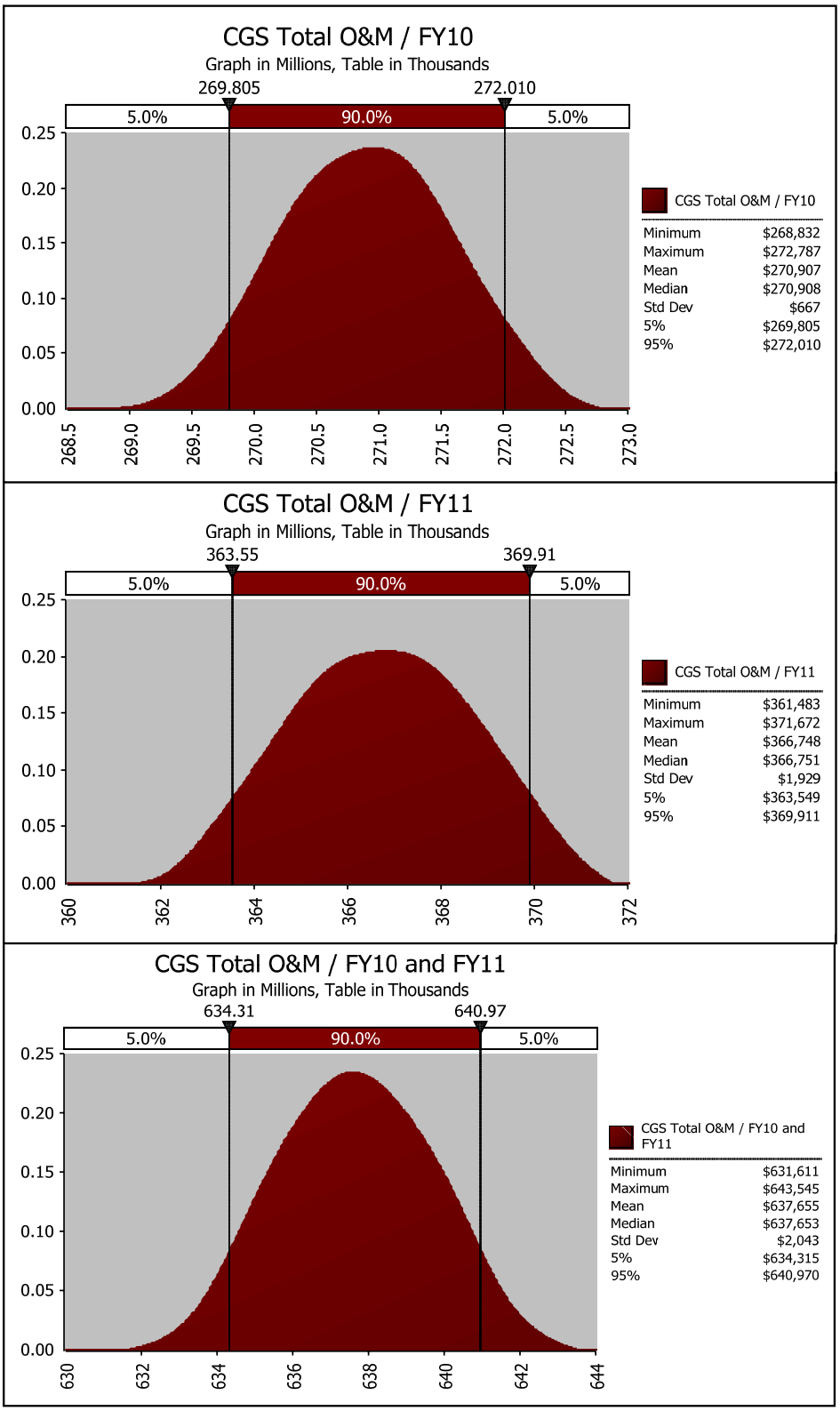


Table 44: Corps of Engineers (COE) and Bureau of Reclamation (Reclamation) O&M Distributions

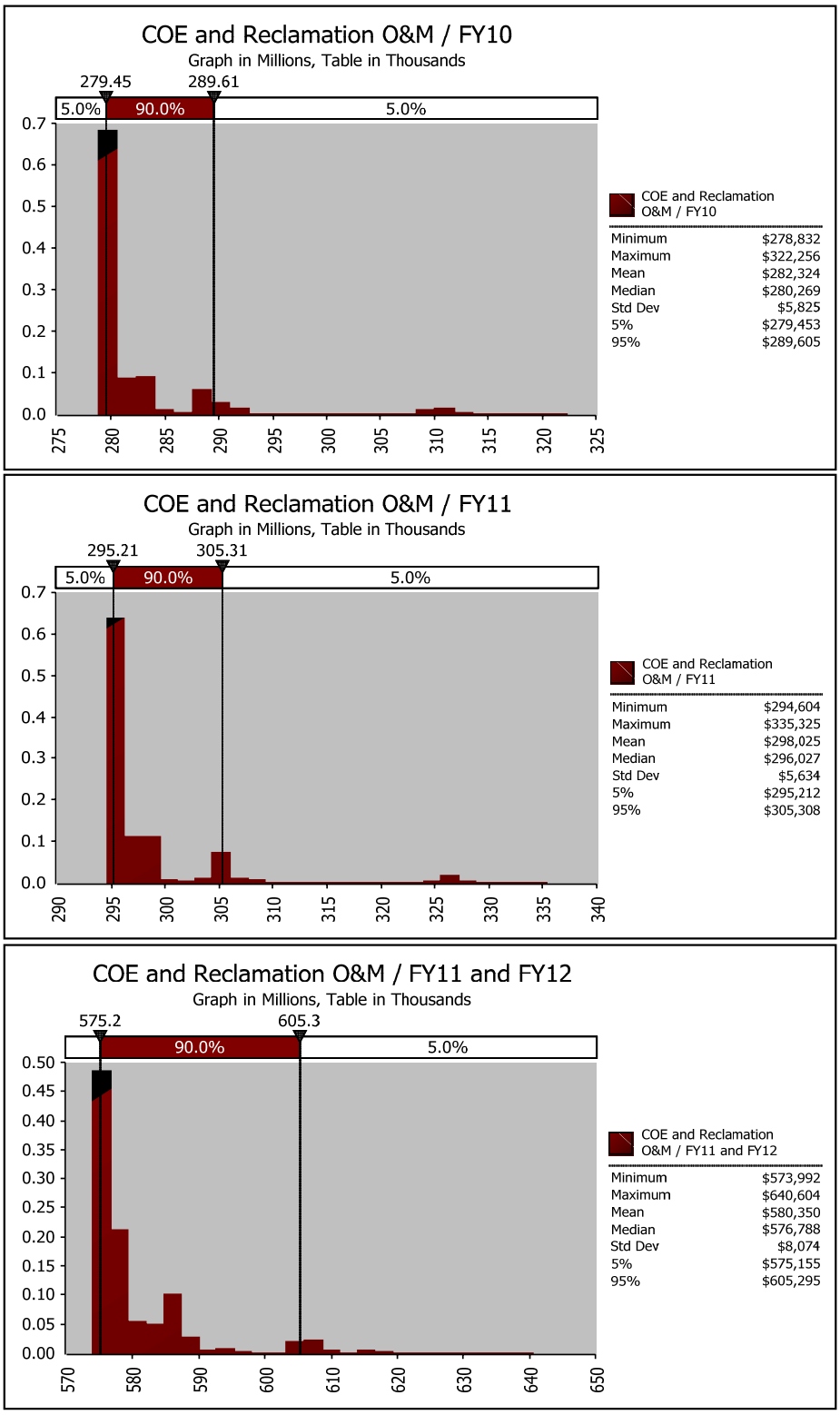


Table 45: Annual Grand Coulee Generation

	A	B
1		**GWh**
2	**Mean**	22,183
3	**St Dev**	3,003
4	**Min**	16,084
5	**Max**	28,615
6		
7	**Avg. MW**	**GWh**
8	1,931	16,916
9	1,947	17,053
10	2,025	17,743
11	2,380	20,845
12	2,766	24,228
13	3,267	28,615
14	2,453	21,486
15	2,312	20,256
16	1,944	17,028
17	2,456	21,515
18	2,189	19,174
19	2,317	20,300
20	1,998	17,498
21	2,317	20,296
22	2,512	22,007
23	1,836	16,084
24	1,975	17,297
25	2,441	21,387
26	2,646	23,177
27	2,864	25,087
28	2,436	21,337
29	2,594	22,726
30	2,892	25,335
31	2,697	23,623
32	2,417	21,174
33	2,755	24,132
34	2,803	24,553
35	3,096	27,119
36	2,600	22,775
37	2,432	21,306
38	2,797	24,501
39	2,991	26,205
40	2,787	24,413
41	2,416	21,165
42	2,496	21,867
43	2,556	22,392
44	2,812	24,637
45	2,578	22,579
46	2,715	23,781
47	2,551	22,349
48	3,029	26,534
49	2,346	20,553
50	2,676	23,443
51	3,091	27,078
52	2,245	19,663
53	3,097	27,129
54	2,655	23,257
55	2,855	25,012
56	2,359	20,661
57	2,266	19,851

Table 46: Colville Settlement Payment Distributions

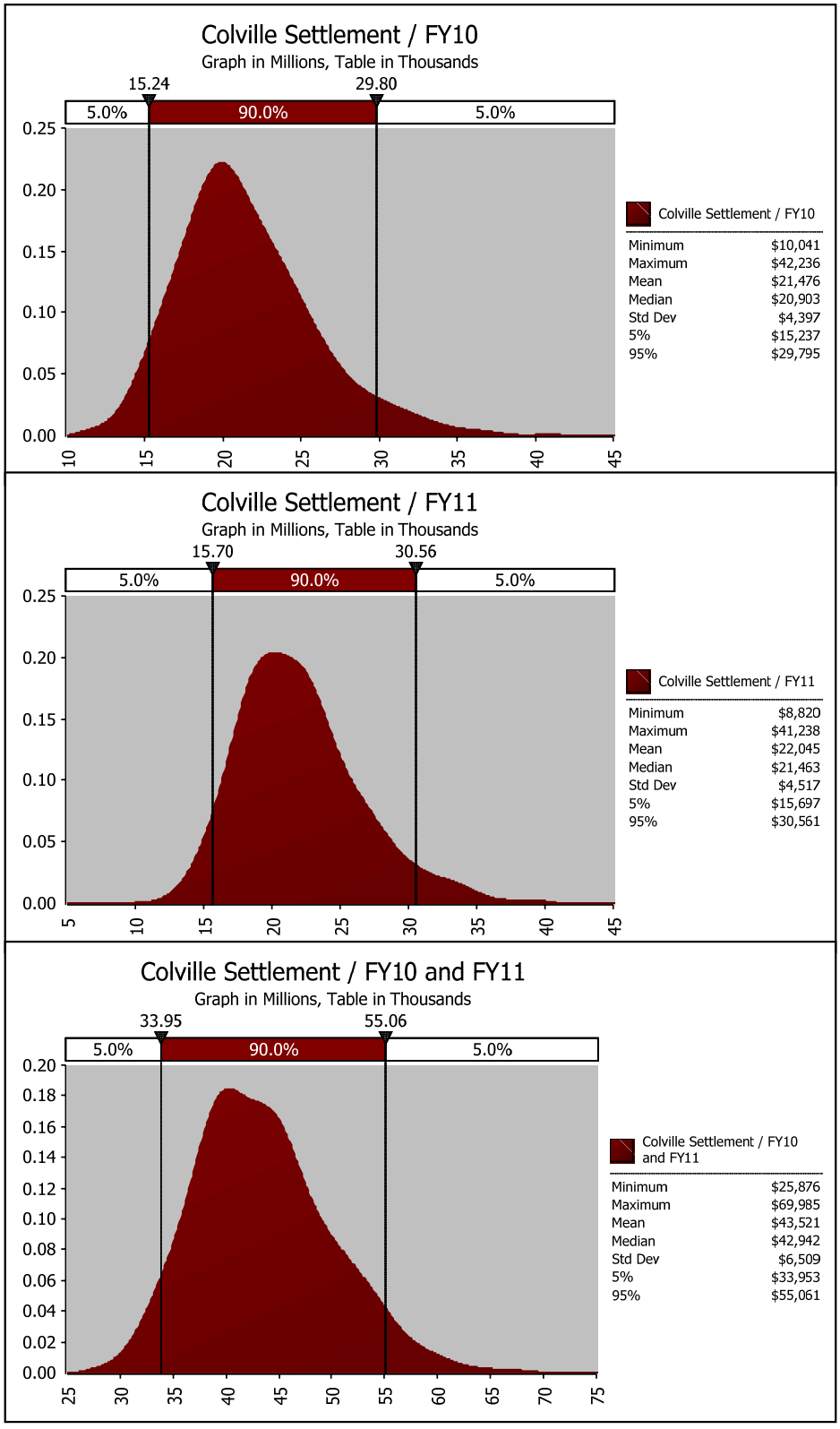


Table 47: Spokane Settlement Payment Distributions

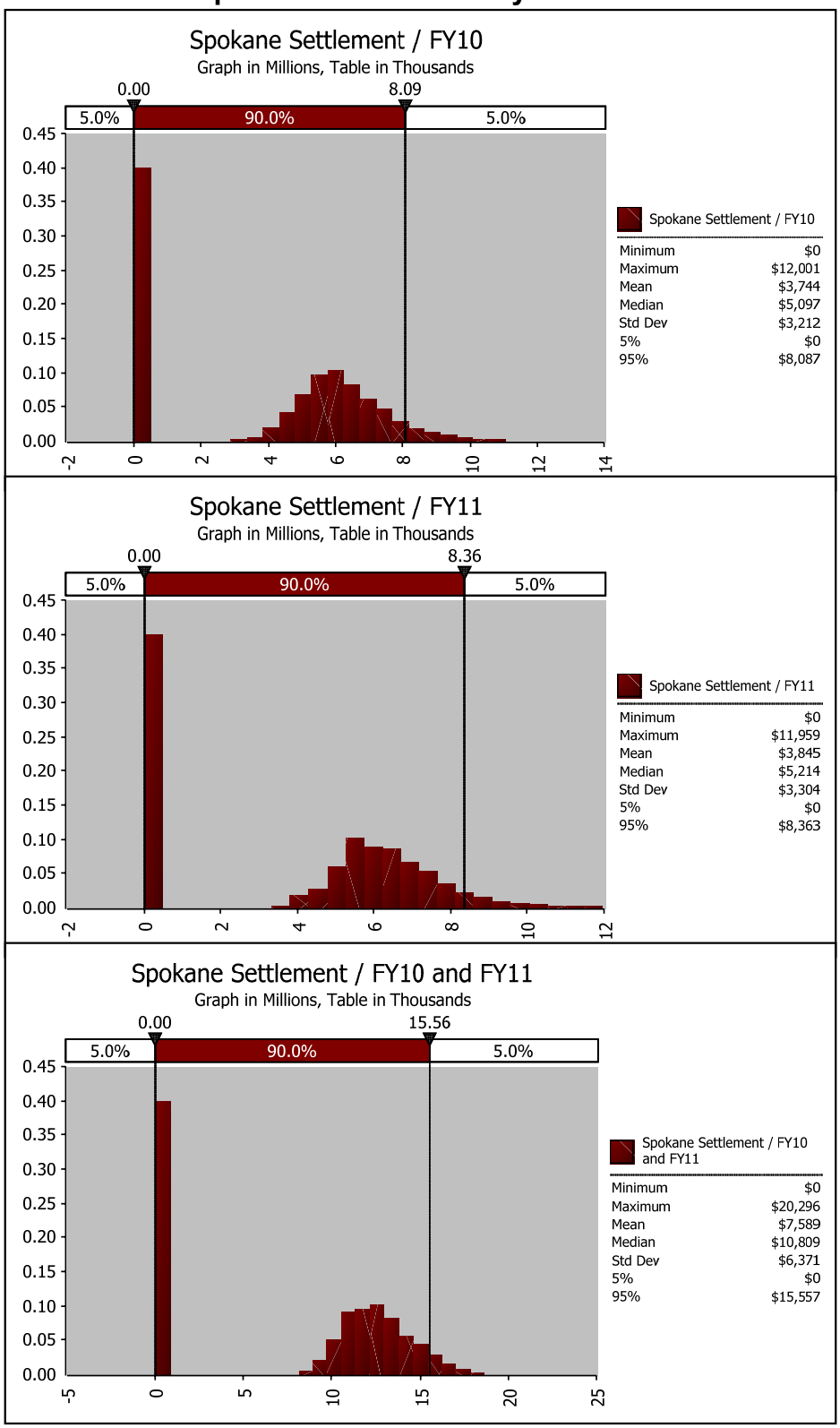


Table 48: PBL Internal Operations Expense Distributions

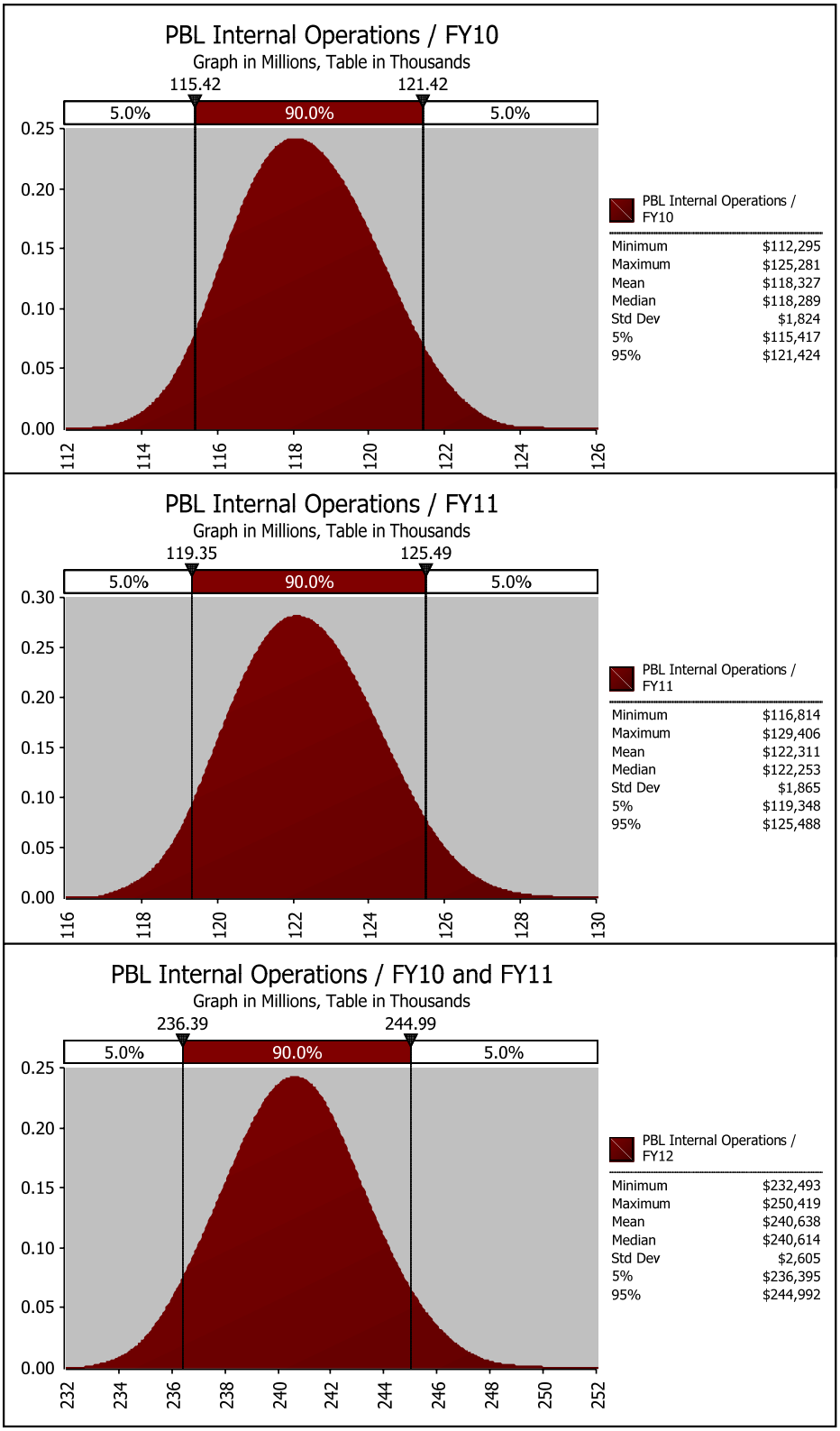


Table 49: F&W Direct Program Cost Distributions

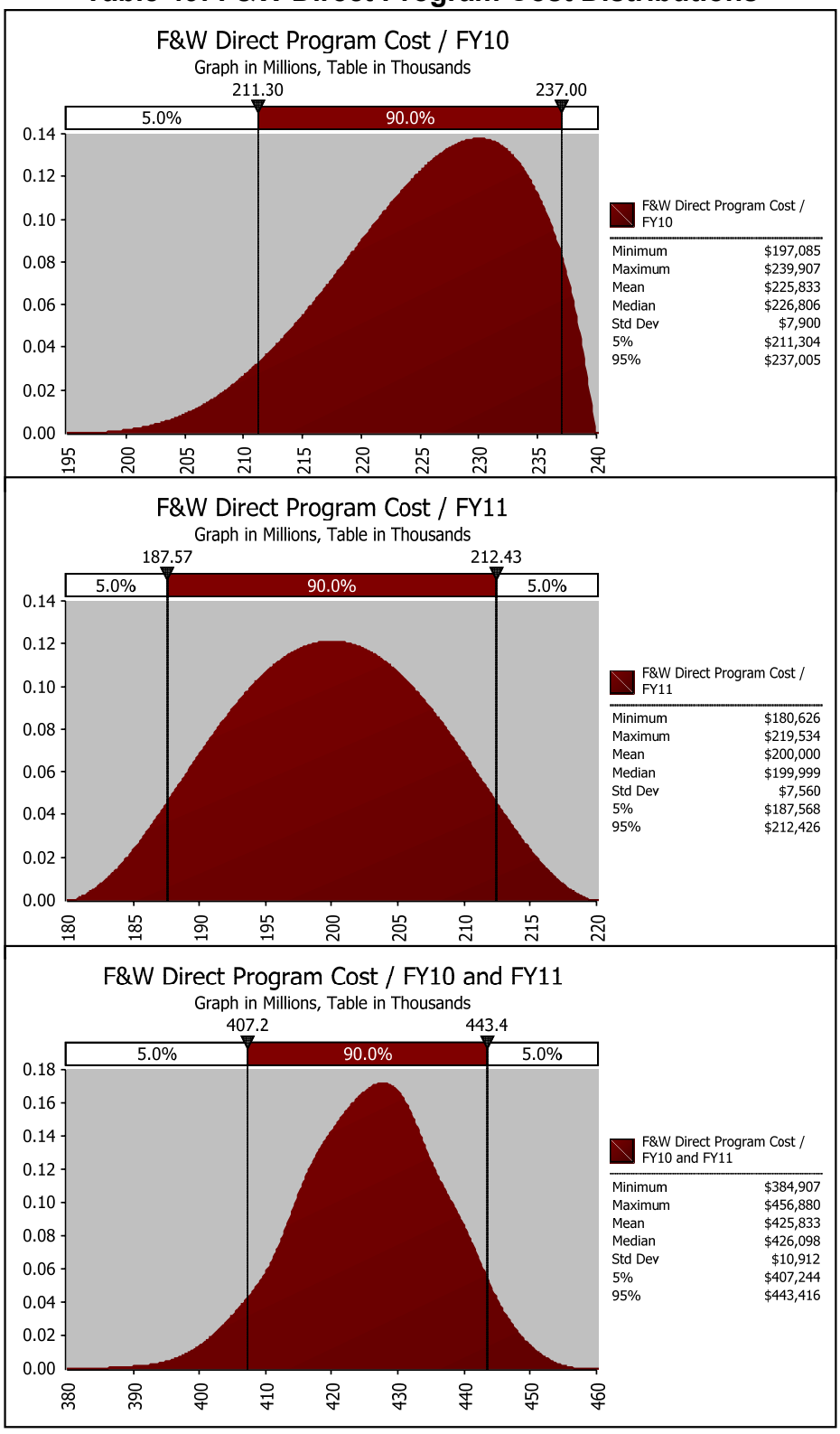


Table 50: F&W Lower Snake Hatcheries Distributions

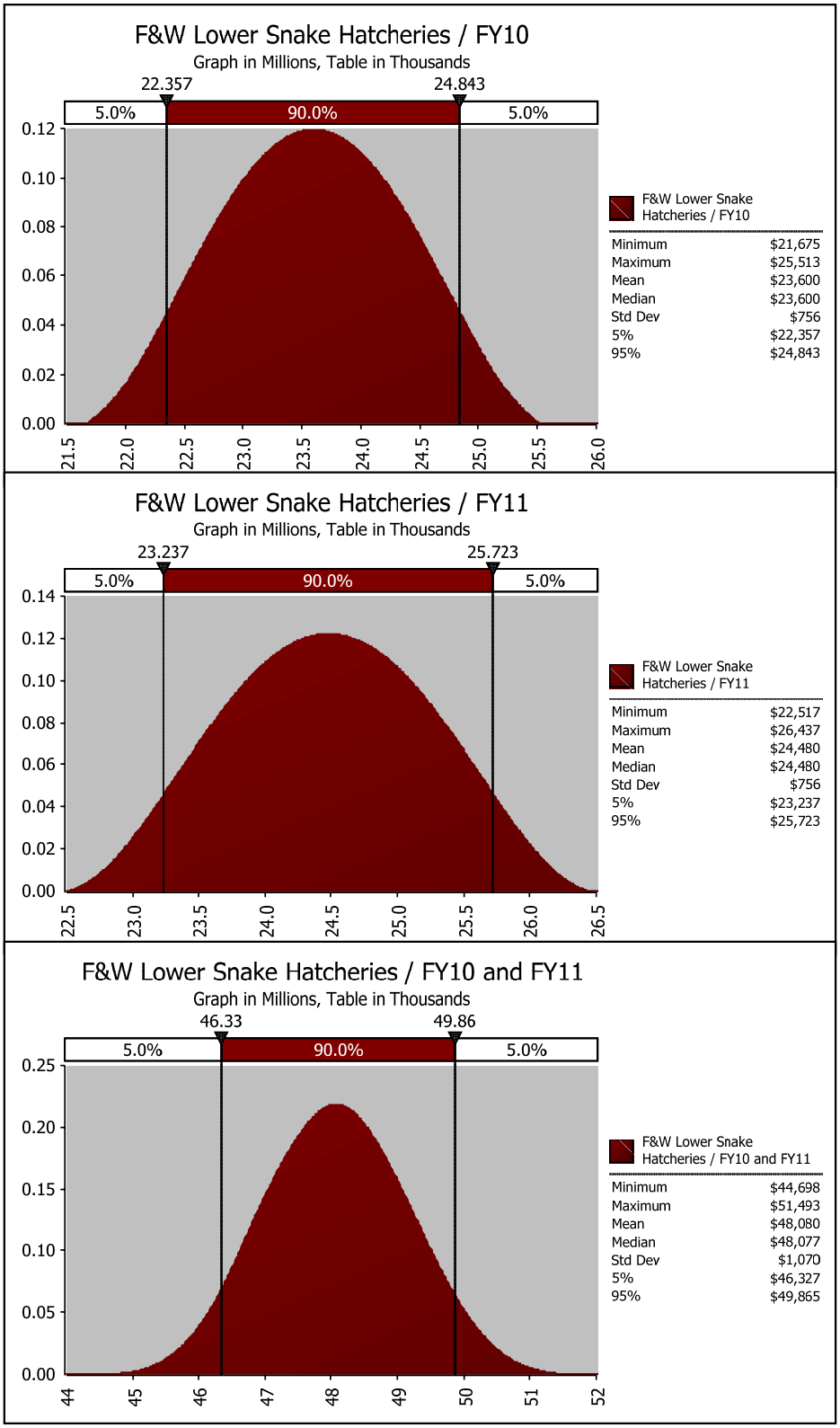


Table 51: Bureau of Reclamation Leavenworth Complex O&M Distributions

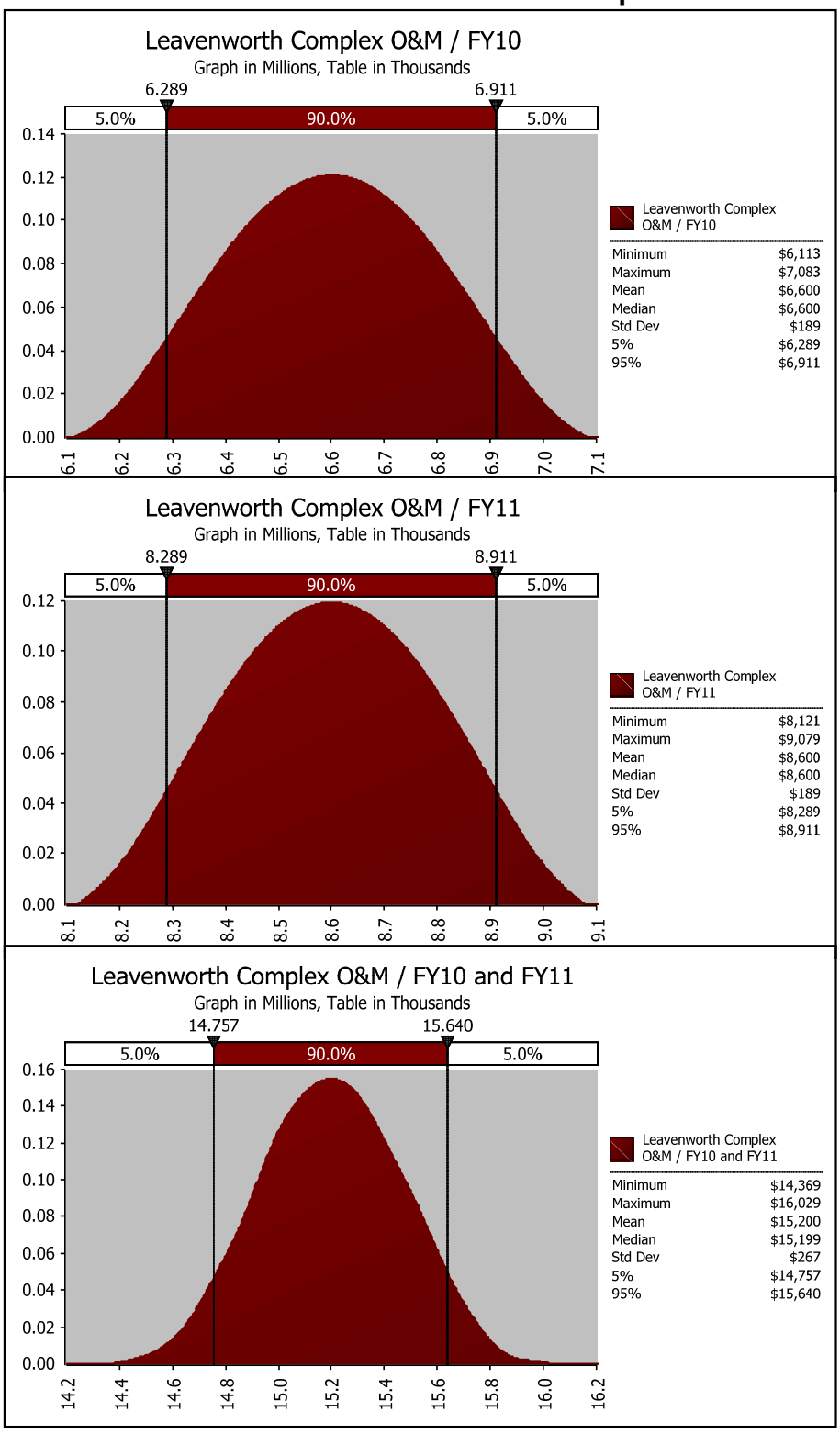


Table 52: Corps of Engineers Fish Passage Facilities Distributions

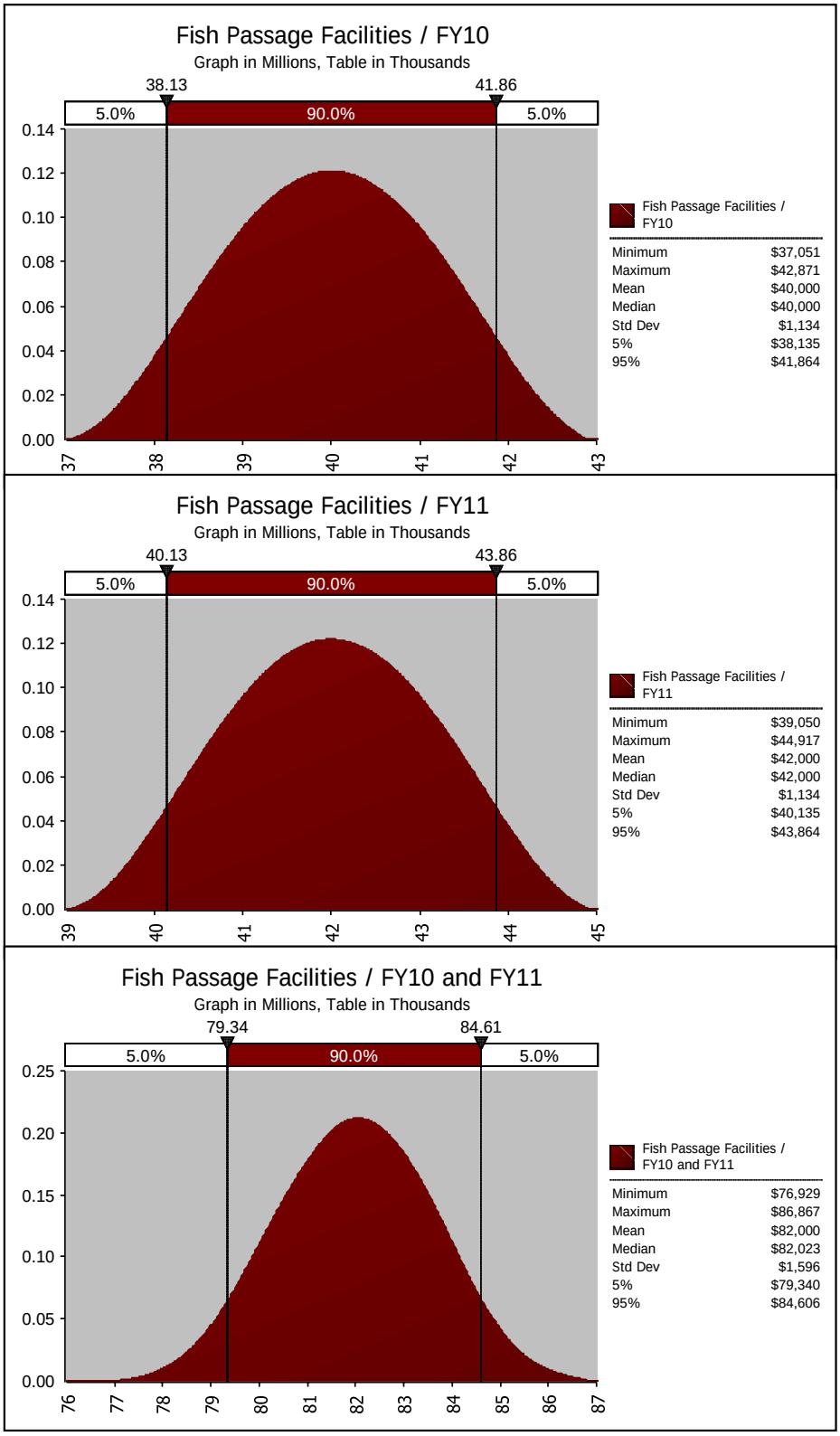


Table 53: Bi-Op Secondary Sales Adjustment Risk Distribution

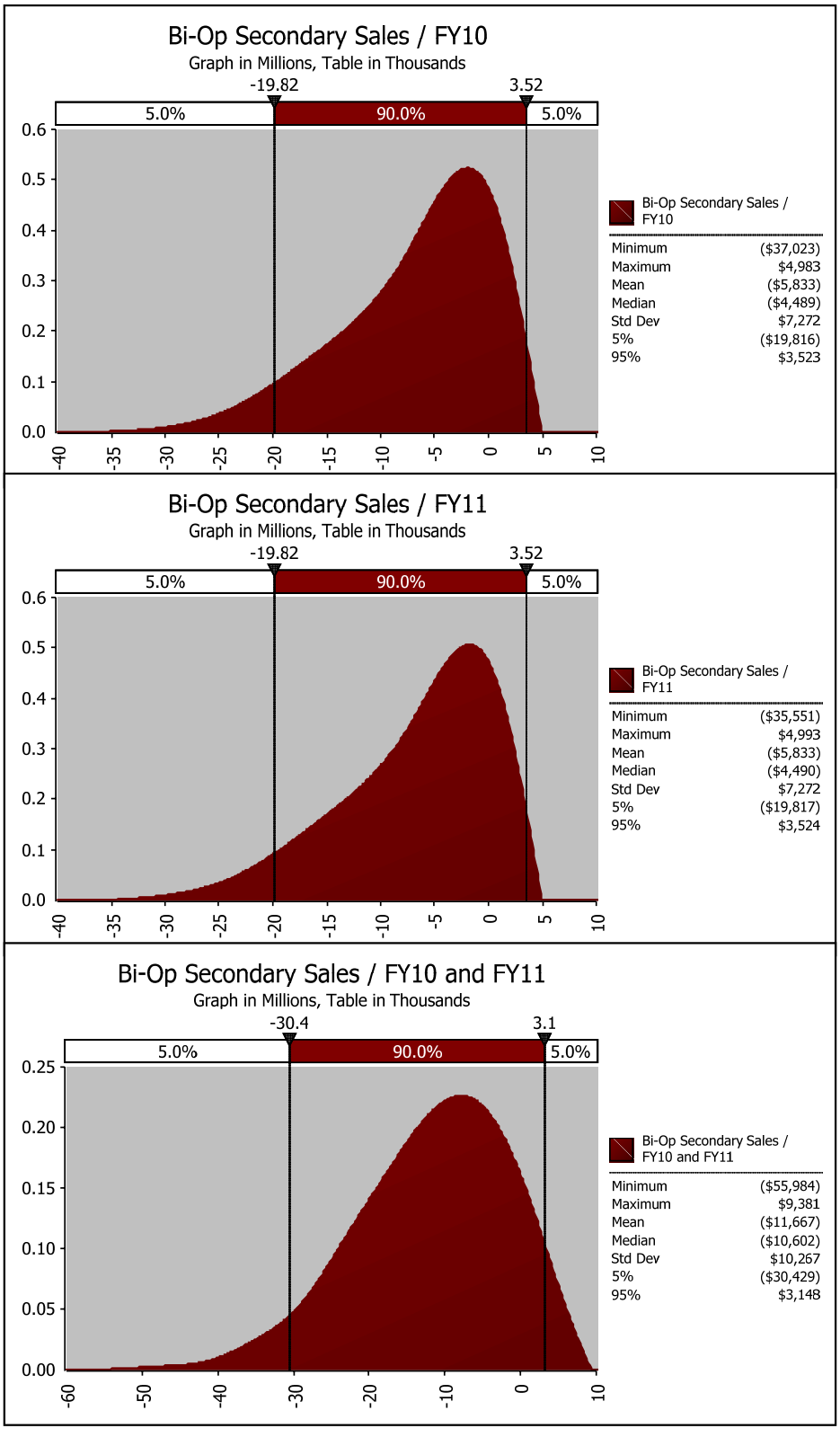
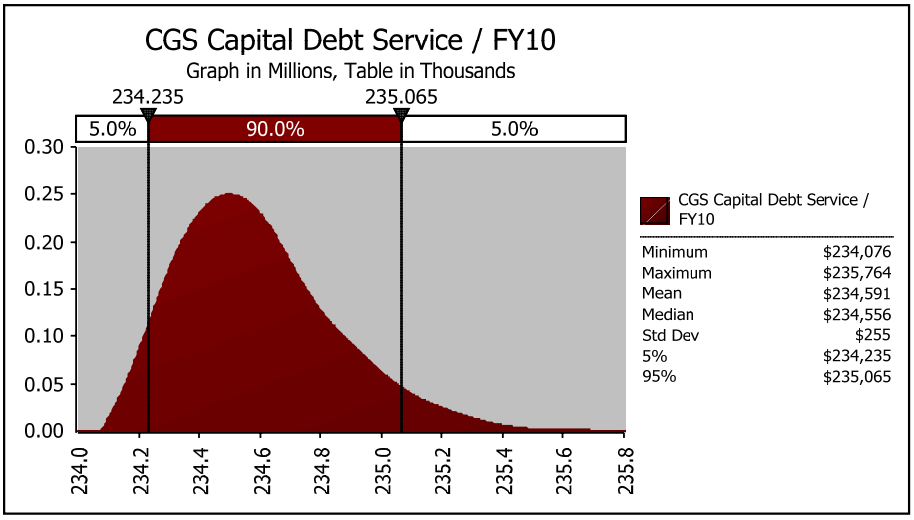
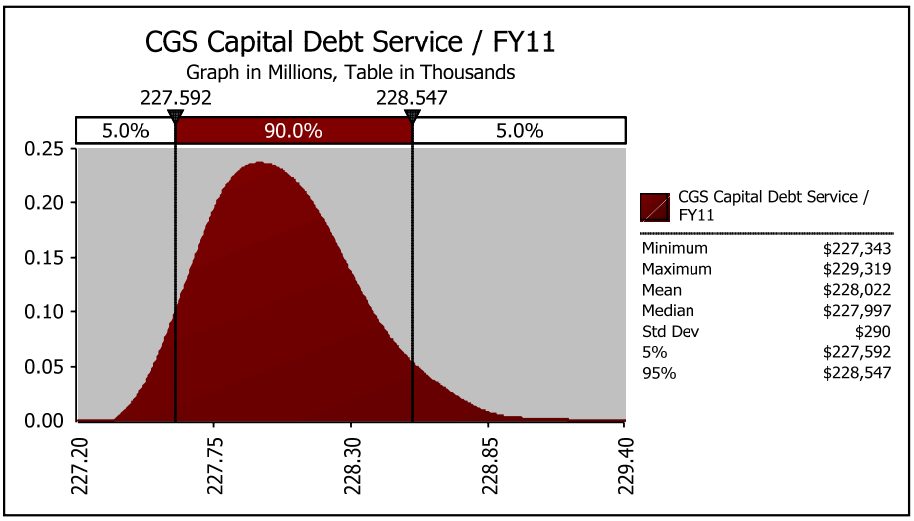


Table 54: CGS Capital Debt Service Distributions





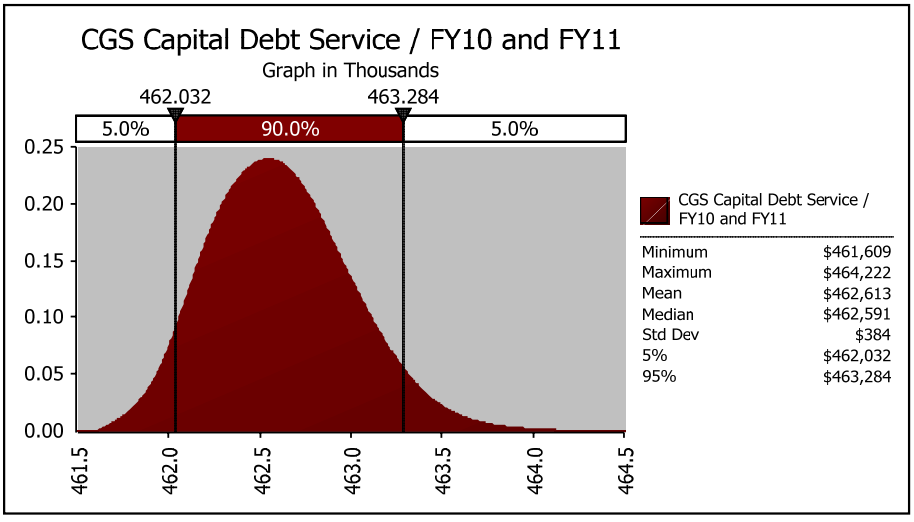


Table 55: CGS Outage Duration Distribution

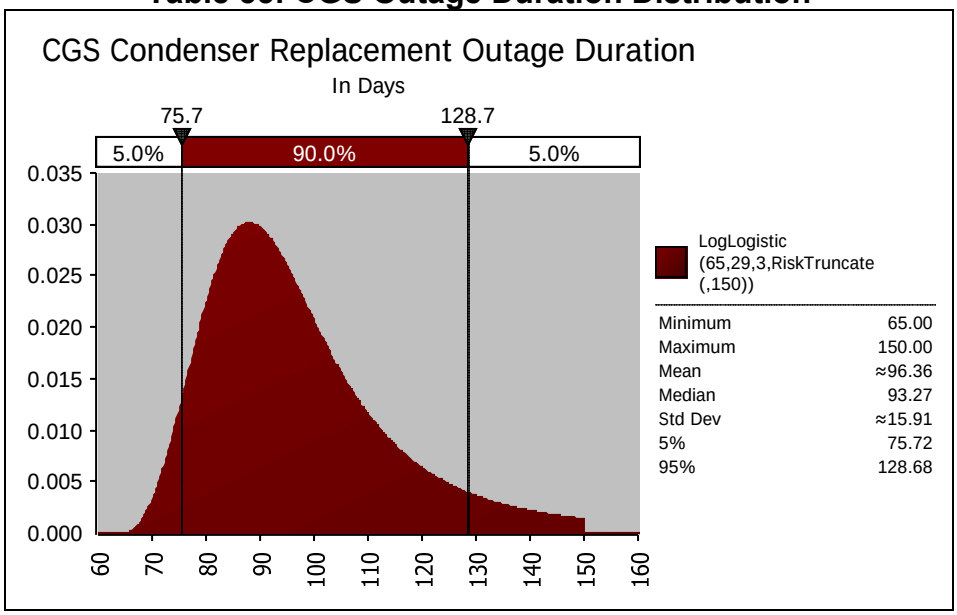


Table 56: CGS Outage Duration Revenue Distribution

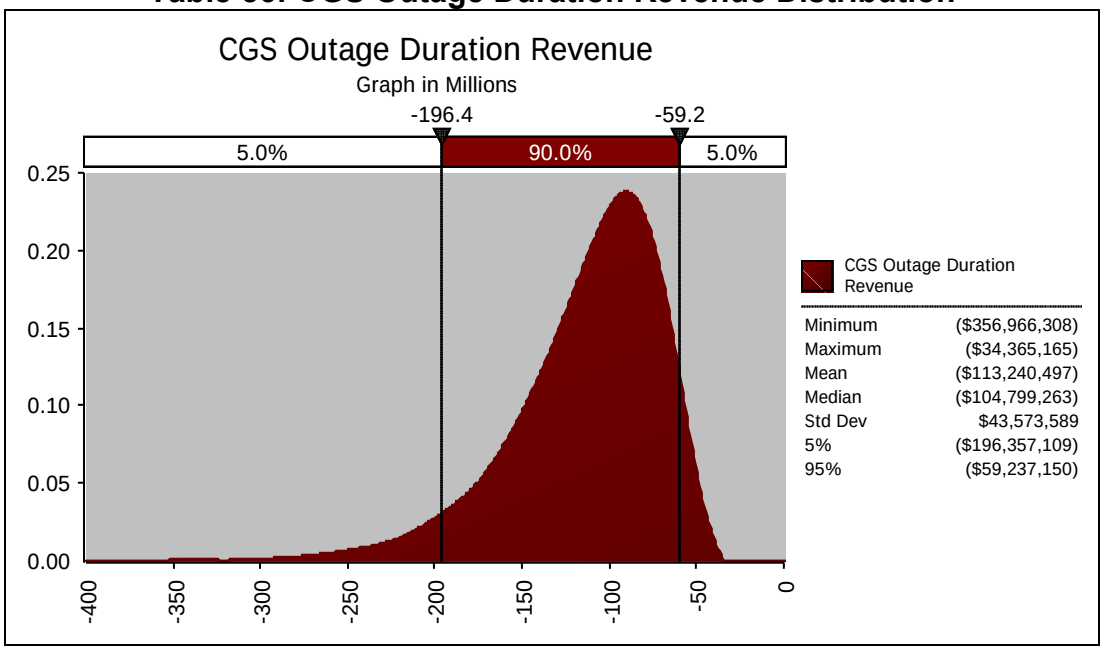


Table 57: Services For Wind Generators Revenue Distribution

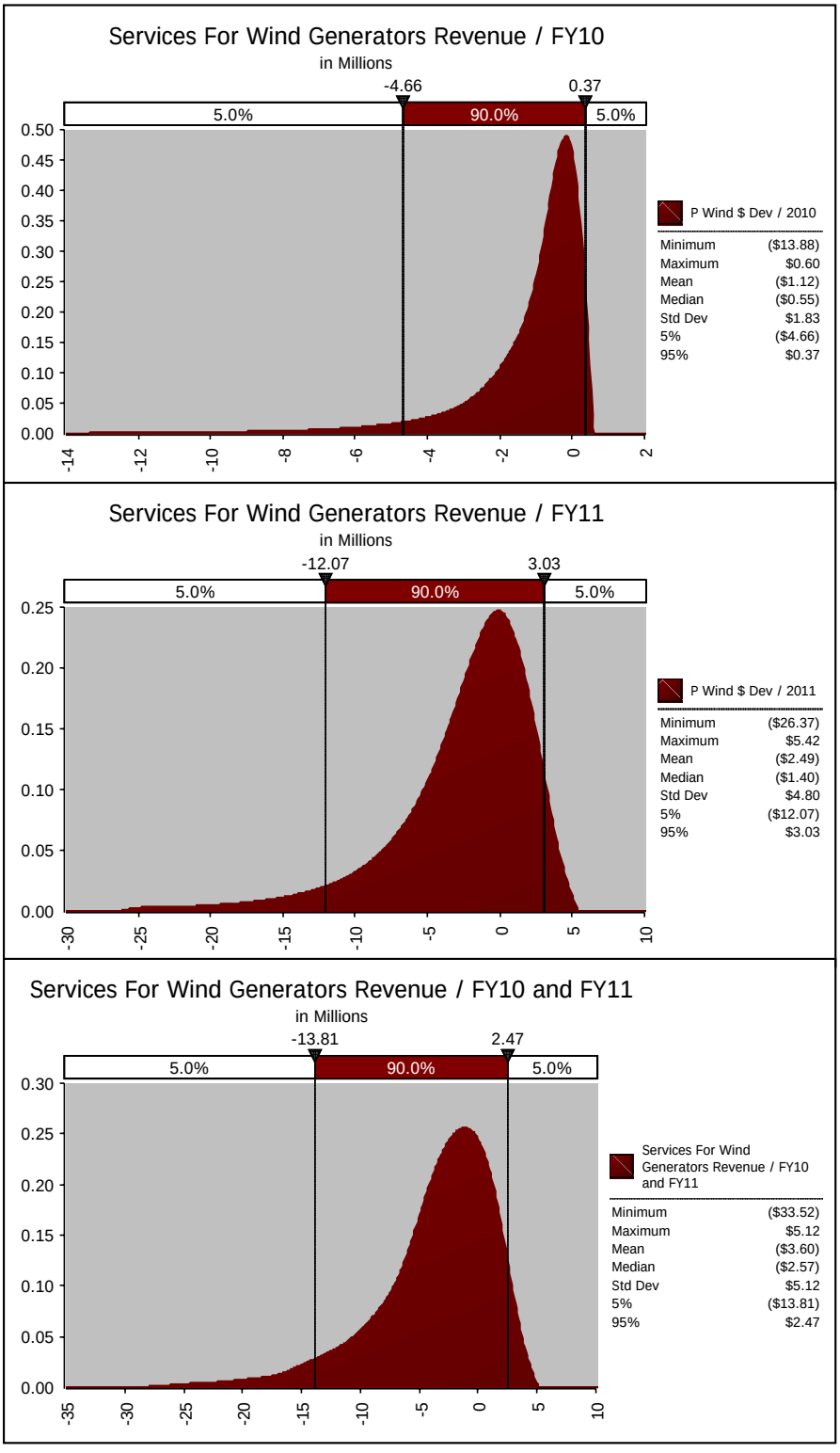
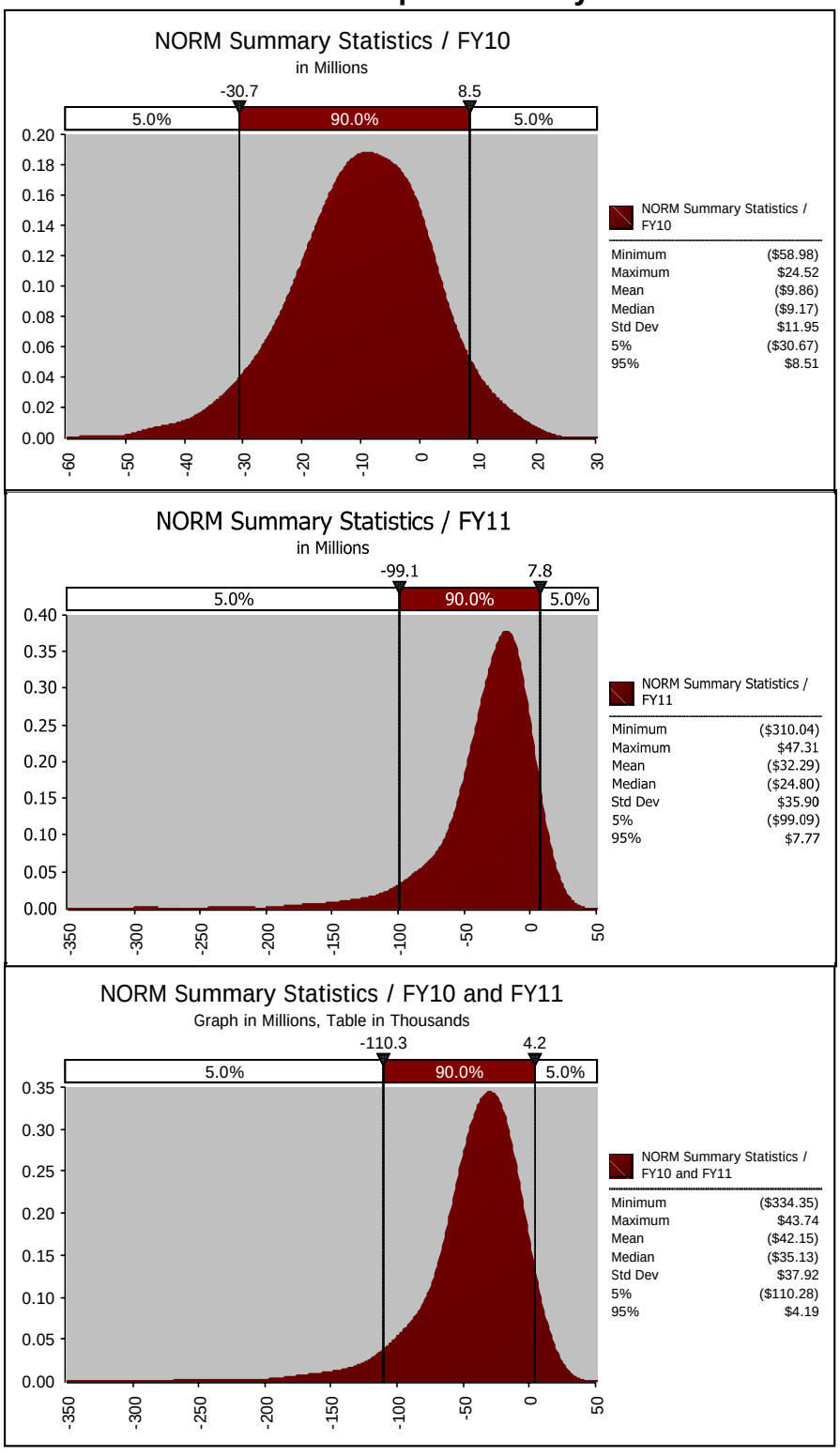


Table 58: NORM Output Summary Distributions



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RISK ANALYSIS AND MITIGATION STUDY DOCUMENTATION

RISK MITIGATION TABLE

(TOOLKIT v. 2.42a)

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1	**ToolKit v. 2.42a, (1-23-2009)**					Study title:	**Initial Proposal run | PBL reserves**								
2	**Time of run: 16:09:57 on 2-9-09**				2	-yr TPP =	95.00%	Run Type	PBL-only run						
3	**Inputs**	PBL data:	RM_WP10IP_30-Jan-09.xls												
4		NORM data	NORM_output_WP10IP_21-Jan-09C.xls												
5	Files =>	TBL data:													
6	Start in	Stop in	Run Type	CRAC	PBL	TBL	PBL Strt.	Add'l	Deferral	☐	Sec. Rev. Rebate Description				
7	TK Year	TK Year	PBL ◉	Lim/Total	LiqRes	LiqRes	AMNR	LiqRes 7-9	Logic		n / a				
8	1	3	BPA ○	20,000	0		69.00		Hybrid						
9	Start TPP	"Small"	No. of	Starting	PBL Strt	TBL Strt	Debug	Reserves	AutoPrint	AutoPrint		Enable	CRAC	CRAC	
10	in TK Yr	Def. Size	Iterations	Iteration	Rsrv Bal	Rsrv Bal	Level	Graph	Res Grph	This Page		PNRR?	Fixed?	Stats On?	
11	2	$200	3,500	1	874.9		0	☑	☐	☐		☑	☐	☐	
12	ToolKit	Fiscal	Probabi-	Treasury	Amort	Interest	PBL Int.	TBL Int.	Other	TBL Rsrvs	Cash Lag	PBL Cash	TBL Cash		
13	Year	Year	listic?	Int. Rate	Sched	Sched	Cr. Sched	Cr. Sched	Cash Adj	Available	for PNRR	Tmg Adj	Tmg Adj		
14	1	2009	TRUE	5.05%	250.0	300.0	64.16			0.0	0.0	7.0			
15	2	2010	TRUE	5.05%	271.3	247.4	50.35			0.0	-4.0	11.7			
16	3	2011	TRUE	5.05%	296.5	250.4	49.57			0.0	0.0	9.1			
20	ToolKit	Fiscal	Div. Dist.		CRAC			PNRR				TBL Fed.	Cash &	Other NR	
21	Year	Year	Threshold	Lim/Year	Threshold	Lim/Year	Rev Basis	Shape	Risk Mod	Calc'd in TK	Sum	Int. Red.	NR Adj.	& Csh Adj	
22	1	2009		0		0.0				0	0				
23	2	2010	314.3	1,200	14.3	300		1.0	48.0	0	48			0.0	
24	3	2011	440.6	1,200	140.6	300		1.0	48.0	0	48			0.0	
28	**Outputs**														
29	ToolKit	Fiscal	No. of	"Small"	1-year	Cumul.	Cumul.	Ave. Def.	Ave. Def.	Ave 1st	Ave. End.	Ave. End.	PNRR	PBL	
30	Year	Year	Deferrals	Deferrals	Probab.	Deferrals	Probab.	per Year	per Def.	Def./Def.	Reserves	PBL ANR	Added	Strt Bal	
31	1	2009	1	1	100.0%	n / a	n / a	0.0	18.6	18.6	695.43	-40.23	-	874.9	
32	2	2010	23	23	99.3%	23	99.3%	0.4	61.8	61.8	859.73	249.91	-		
33	3	2011	163	97	95.3%	175	95.0%	8.9	190.4	182.2	865.47	256.77	-		
37	3	-yr Total	187	121	n / a	n / a	n / a	9.3	n / a	n / a	n / a	n / a	-		
38	3	-yr Ave.	62	40	n / a	n / a	n / a	3.1	90.3	87.5	n / a	n / a	-		
39	ToolKit	Fiscal	Ave. DDC	Ave DDC			No. of		Ave. CRAC	Ave CRAC	No. of		Ann.Lim.	Total Lim.	CRAC
40	Year	Year	per each	per Year			DDCs		per each	per Year	CRACs		Reached	Reached	Freqncy
41	1	2009		0.0			0			0.0	0		0	0	0.0%
42	2	2010	104	6			211		181	106	2051		535	0	59%
43	3	2011	265	83			1094		208	83	1395		609	0	40%
47	2	-yr Total	n / a	89.1			1305		n / a	189	3446		1144	0	n / a
48	2	-yr Ave.	239	CRAC			653		192	95	1723		572	n / a	49%
49	ToolKit	Fiscal	NORM	PBL	TBL	A-T-C							PBL Int	TBL Int	
50	Year	Year	Inputs	Inputs	Inputs	Totals							Credit	Credit	
51	1	2009	-3.5	-91.2		-70.3							35.14		
52	2	2010	-9.9	200.6		-114.9							38.38		
53	3	2011	-32.3	38.3		-18.9							39.82		
57	3	-yr Total	-46	148	0	-204							113	0.0	
58	3	-yr Ave.	-15	49	0	-68							38	0.0	

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