

MEDIUM LOADS
1998 WHITE BOOK LOAD FORECAST

1998 WHITE BOOK: 12/31/98

1999-0 OPERATING YEAR

RUN DATE: 12/31/98

PEAK IN MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL
FIRM LOADS	----	----	----	----	----	----	----	----	----	----	----	----	----	----
-- FEDERAL SYSTEM --														
1 FEDERAL AGENCIES	196	196	186	197	205	235	219	227	215	199	199	189	190	192
2 FEDERAL GPU TRANS LOSSES	72	83	107	144	158	184	158	140	118	117	105	88	72	66
3 FEDERAL NGP TRANS LOSSES	146	146	153	172	205	234	252	250	218	197	197	183	156	149
4 USBR	199	199	157	76	7	4	4	3	8	100	100	170	198	204
5 FEDERAL DSI FIRM LOADS	2494	2494	1953	1917	2096	2499	1587	1215	1057	1057	1057	2165	2165	2497
6 FEDERAL DSI LOSSES	72	72	59	61	73	92	62	46	38	36	36	71	65	72
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7 FEDERAL NON-UTILITY LOADS	3179	3190	2615	2567	2744	3248	2282	1881	1654	1706	1694	2866	2846	3180
-- PUBLIC AGENCIES --														
8 CHELAN COUNTY PUD #1	203	203	202	238	253	271	289	272	254	231	231	210	198	208
9 CLARK COUNTY PUD #1	470	470	510	639	725	853	836	830	786	671	671	602	498	474
10 COWLITZ COUNTY PUD #1	595	595	600	671	710	707	725	688	709	686	686	657	615	595
11 DOUGLAS COUNTY PUD #1	143	143	133	164	186	193	209	191	181	161	161	140	143	144
12 EUGENE WATER & ELEC BOARD	337	337	366	453	497	533	552	551	504	471	471	419	354	328
13 GRANT COUNTY PUD #2	503	503	485	444	474	507	536	535	461	455	455	518	535	505
14 GRAY'S HARBOR CO PUD #1	153	153	173	206	229	235	243	250	239	224	224	184	157	151
15 OKANOGAN COUNTY PUD #1	84	84	94	99	120	137	131	126	106	94	94	90	88	87
16 PEND OREILLE COUNTY PUD #1	56	56	59	64	71	81	86	81	79	71	71	61	53	54
17 SEATTLE CITY LIGHT	1254	1254	1260	1531	1725	1723	1803	1723	1700	1574	1574	1425	1270	1268
18 SNOHOMISH COUNTY PUD #1	731	731	837	1132	1284	1411	1368	1429	1256	1154	1154	1003	889	712
19 SPRINGFIELD UTILITY BOARD	137	137	145	174	187	200	204	206	194	167	167	168	143	137
20 TACOMA PUBLIC UTILITIES	707	707	768	911	1019	1079	1063	1051	990	939	939	848	734	696
21 SMALL & NON GEN PUBLICS	3947	3947	3956	4160	4564	4843	5044	5135	4674	4493	4493	4275	4056	4027
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22 PUBLIC AGENCIES	9320	9320	9588	10887	12043	12773	13089	13069	12134	11391	11391	10601	9733	9386
-- INVESTOR-OWNED UTILITIES --														
23 AVISTA CORP (WWP)	1102	1102	1077	1188	1284	1382	1472	1449	1237	1152	1152	1085	1076	1108
24 IDAHO POWER COMPANY	2259	2259	2061	1911	2048	2104	2147	2069	1902	1903	1903	2123	2393	2403
25 MONTANA POWER CO. REGIONAL	392	392	393	399	439	467	473	442	400	371	371	360	391	405
26 PACIFICORP	3084	3084	2925	3151	3435	3912	3911	3919	3533	3194	3194	2869	2856	3031
27 PORTLAND GENERAL ELECTRIC	2713	2713	2531	2853	3088	3340	3538	3156	3003	2870	2870	2666	2482	2580
28 PUGET SOUND ENERGY	2587	2587	2809	3607	3903	4432	4518	4435	4097	3680	3680	3194	2992	2597
29 UTAH POWER & LIGHT	415	415	321	251	225	209	256	254	231	219	219	250	434	491
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30 INVESTOR-OWNED UTILITIES	12552	12552	12117	13360	14423	15846	16315	15724	14402	13388	13388	12547	12624	12615

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PEAK IN MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL
FIRM LOADS (CONTINUED)	----	----	----	----	----	----	----	----	----	----	----	----	----	----
-- OTHER ENTITIES --														
31 COLOCKUM TRANSMISSION CO.	183	183	183	183	183	183	183	183	183	183	183	183	183	183
32 NON-FED DSI LOAD	773	773	1314	1350	1171	768	1680	2052	2210	2210	2210	1102	1102	770
33 NON-FED DSI FIRM LOSSES	22	22	39	43	41	28	66	78	80	75	75	36	33	22
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34 OTHER FIRM LOADS	978	978	1536	1576	1395	979	1929	2313	2473	2468	2468	1321	1318	975
REGIONAL FIRM LOADS														
35 REGIONAL FIRM LOADS	26029	26040	25856	28389	30605	32846	33615	32986	30663	28954	28942	27334	26521	26156
NON-FIRM LOADS														
-- INVESTOR-OWNED UTILITIES --														
36 OTHER NON-FIRM (UTAH)	122	122	103	72	130	66	151	124	133	109	109	117	141	124
REGIONAL NON-FIRM LOADS														
37 REGIONAL NON-FIRM LOAD	122	122	103	72	130	66	151	124	133	109	109	117	141	124
REGIONAL TOTAL LOADS														
38 FEDERAL SYSTEM	3179	3190	2615	2567	2744	3248	2282	1881	1654	1706	1694	2866	2846	3180
39 PUBLIC AGENCIES	9320	9320	9588	10887	12043	12773	13089	13069	12134	11391	11391	10601	9733	9386
40 INVESTOR-OWNED UTILITIES	12674	12674	12220	13432	14553	15911	16466	15848	14534	13498	13498	12664	12765	12739
41 OTHER ENTITIES	978	978	1536	1576	1395	979	1929	2313	2473	2468	2468	1321	1318	975
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42 REGIONAL TOTAL LOADS	26151	26162	25959	28461	30735	32912	33766	33111	30796	29063	29051	27452	26662	26280

MEDIUM LOADS
1998 WHITE BOOK LOAD FORECAST

1998 WHITE BOOK: 12/31/98

2003- 4 OPERATING YEAR

RUN DATE: 12/31/98

PEAK IN MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL
FIRM LOADS	----	----	----	----	----	----	----	----	----	----	----	----	----	----
-- FEDERAL SYSTEM --														
1 FEDERAL AGENCIES	200	200	190	201	210	241	224	232	220	204	204	194	195	196
2 FEDERAL GPU TRANS LOSSES	37	40	45	78	82	85	77	59	57	56	45	44	41	38
3 FEDERAL NGP TRANS LOSSES	151	151	157	178	210	239	257	256	223	203	203	188	160	153
4 USBR	200	200	158	76	7	4	4	3	9	100	100	170	198	205
5 FEDERAL DSI FIRM LOADS	2496	2496	1970	2086	2096	2498	1930	1389	1216	1056	1056	2166	2166	2474
6 FEDERAL DSI LOSSES	72	72	59	67	73	92	75	53	44	36	36	72	65	72
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7 FEDERAL NON-UTILITY LOADS	3156	3159	2579	2686	2678	3159	2567	1992	1769	1655	1644	2834	2825	3138
-- PUBLIC AGENCIES --														
8 CHELAN COUNTY PUD #1	213	213	213	251	265	284	302	285	266	243	243	221	209	217
9 CLARK COUNTY PUD #1	500	500	544	680	766	897	880	877	834	713	713	643	532	505
10 COWLITZ COUNTY PUD #1	614	614	620	689	722	715	732	698	722	703	703	678	636	617
11 DOUGLAS COUNTY PUD #1	159	159	147	183	208	216	234	214	203	180	180	155	159	159
12 EUGENE WATER & ELEC BOARD	346	346	376	463	505	541	558	559	514	482	482	430	363	338
13 GRANT COUNTY PUD #2	529	529	511	466	494	527	542	542	469	465	465	532	550	527
14 GRAY'S HARBOR CO PUD #1	155	155	175	208	230	234	243	251	241	226	226	186	159	153
15 OKANOGAN COUNTY PUD #1	86	86	97	102	122	139	133	128	109	97	97	92	91	89
16 PEND OREILLE COUNTY PUD #1	57	57	61	66	72	83	88	84	81	73	73	63	54	55
17 SEATTLE CITY LIGHT	1259	1259	1265	1533	1718	1710	1789	1714	1697	1578	1578	1434	1280	1273
18 SNOHOMISH COUNTY PUD #1	779	779	892	1203	1357	1485	1438	1506	1330	1225	1225	1070	950	758
19 SPRINGFIELD UTILITY BOARD	143	143	151	181	193	207	210	213	201	174	174	175	149	143
20 TACOMA PUBLIC UTILITIES	730	730	793	938	1044	1102	1093	1083	1025	975	975	884	766	725
21 SMALL & NON GEN PUBLICS	4057	4057	4076	4278	4661	4924	5127	5232	4781	4610	4610	4396	4168	4136
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22 PUBLIC AGENCIES	9628	9628	9921	11241	12358	13064	13369	13385	12471	11743	11743	10959	10065	9695
-- INVESTOR-OWNED UTILITIES --														
23 AVISTA CORP (WWP)	1085	1085	1055	1158	1254	1353	1447	1422	1215	1132	1132	1069	1062	1094
24 IDAHO POWER COMPANY	2291	2291	2100	1927	2061	2114	2166	2085	1920	1918	1918	2154	2419	2431
25 MONTANA POWER CO. REGIONAL	383	383	388	391	431	459	464	435	393	367	367	355	385	400
26 PACIFICORP	3229	3229	3062	3298	3596	4094	4126	4117	3711	3355	3355	3015	3000	3185
27 PORTLAND GENERAL ELECTRIC	2771	2771	2574	2897	3119	3380	3604	3212	3058	2923	2923	2721	2549	2656
28 PUGET SOUND ENERGY	2683	2683	2914	3743	4049	4598	4680	4595	4244	3812	3812	3309	3100	2690
29 UTAH POWER & LIGHT	444	444	342	268	240	223	277	275	250	237	237	270	470	531
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30 INVESTOR-OWNED UTILITIES	12885	12885	12435	13682	14749	16221	16764	16142	14793	13745	13745	12893	12985	12987

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FIRM LOADS (CONTINUED)	----	----	----	----	----	----	----	----	----	----	----	----	----	----
-- OTHER ENTITIES --														
31 COLOCKUM TRANSMISSION CO.	183	183	183	183	183	183	183	183	183	183	183	183	183	183
32 NON-FED DSI LOAD	771	771	1297	1181	1171	769	1337	1878	2051	2211	2211	1101	1101	793
33 NON-FED DSI FIRM LOSSES	22	22	39	38	41	28	52	71	74	75	75	36	33	23
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34 OTHER FIRM LOADS	976	976	1519	1402	1395	980	1572	2132	2308	2469	2469	1320	1317	999
REGIONAL FIRM LOADS														
35 REGIONAL FIRM LOADS	26645	26648	26454	29011	31180	33424	34272	33651	31341	29612	29601	28006	27193	26819
NON-FIRM LOADS														
-- INVESTOR-OWNED UTILITIES --														
36 OTHER NON-FIRM (UTAH)	111	111	103	77	126	51	153	124	129	116	116	117	154	123
REGIONAL NON-FIRM LOADS														
37 REGIONAL NON-FIRM LOAD	111	111	103	77	126	51	153	124	129	116	116	117	154	123
REGIONAL TOTAL LOADS														
38 FEDERAL SYSTEM	3156	3159	2579	2686	2678	3159	2567	1992	1769	1655	1644	2834	2825	3138
39 PUBLIC AGENCIES	9628	9628	9921	11241	12358	13064	13369	13385	12471	11743	11743	10959	10065	9695
40 INVESTOR-OWNED UTILITIES	12995	12995	12538	13759	14875	16272	16918	16266	14921	13861	13861	13010	13139	13110
41 OTHER ENTITIES	976	976	1519	1402	1395	980	1572	2132	2308	2469	2469	1320	1317	999
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42 REGIONAL TOTAL LOADS	26756	26759	26557	29088	31307	33475	34426	33775	31470	29729	29718	28123	27346	26943

MEDIUM LOADS
1998 WHITE BOOK LOAD FORECAST

1998 WHITE BOOK: 12/31/98

2008- 9 OPERATING YEAR

RUN DATE: 12/31/98

PEAK IN MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL
FIRM LOADS	----	----	----	----	----	----	----	----	----	----	----	----	----	----
-- FEDERAL SYSTEM --														
1 FEDERAL AGENCIES	206	206	196	207	216	249	231	240	227	210	210	200	200	202
2 FEDERAL GPU TRANS LOSSES	33	35	40	72	76	78	71	53	51	51	39	38	35	33
3 FEDERAL NGP TRANS LOSSES	156	156	163	185	217	245	263	263	230	210	210	195	167	159
4 USBR	201	201	158	76	7	4	4	3	9	101	101	171	199	205
5 FEDERAL DSI FIRM LOADS	2496	2496	1970	2086	2096	2498	1930	1389	1216	1056	1056	2166	2166	2474
6 FEDERAL DSI LOSSES	72	72	59	67	73	92	75	53	44	36	36	72	65	72
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7 FEDERAL NON-UTILITY LOADS	3164	3166	2586	2693	2685	3166	2574	2001	1777	1664	1652	2842	2832	3145
-- PUBLIC AGENCIES --														
8 CHELAN COUNTY PUD #1	222	222	222	261	274	293	311	294	276	252	252	231	217	227
9 CLARK COUNTY PUD #1	534	534	583	727	811	944	921	922	880	755	755	684	566	537
10 COWLITZ COUNTY PUD #1	635	635	641	707	734	721	735	703	733	718	718	697	657	639
11 DOUGLAS COUNTY PUD #1	176	176	162	204	232	240	261	237	225	199	199	171	176	176
12 EUGENE WATER & ELEC BOARD	360	360	391	479	520	555	570	571	529	497	497	446	378	352
13 GRANT COUNTY PUD #2	559	559	539	490	516	547	562	563	490	487	487	560	580	556
14 GRAY'S HARBOR CO PUD #1	158	158	179	212	232	235	243	252	242	229	229	190	162	155
15 OKANOGAN COUNTY PUD #1	89	89	101	105	124	141	135	131	111	100	100	96	94	92
16 PEND OREILLE COUNTY PUD #1	60	60	64	68	75	86	90	86	84	75	75	65	56	57
17 SEATTLE CITY LIGHT	1269	1269	1275	1538	1712	1697	1781	1711	1704	1590	1590	1453	1298	1288
18 SNOHOMISH COUNTY PUD #1	840	840	961	1290	1445	1575	1520	1596	1417	1311	1311	1150	1022	819
19 SPRINGFIELD UTILITY BOARD	150	150	159	192	203	216	219	223	211	184	184	185	157	151
20 TACOMA PUBLIC UTILITIES	768	768	834	982	1085	1141	1124	1117	1062	1015	1015	925	803	762
21 SMALL & NON GEN PUBLICS	4206	4206	4238	4439	4800	5040	5251	5378	4932	4773	4773	4564	4327	4287
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22 PUBLIC AGENCIES	10027	10027	10349	11693	12763	13432	13723	13784	12896	12186	12186	11417	10495	10099
-- INVESTOR-OWNED UTILITIES --														
23 AVISTA CORP (WWP)	1078	1078	1044	1134	1227	1324	1420	1395	1193	1114	1114	1057	1055	1088
24 IDAHO POWER COMPANY	2359	2359	2178	1974	2107	2160	2220	2168	1970	1968	1968	2231	2494	2507
25 MONTANA POWER CO. REGIONAL	389	389	394	395	435	467	475	445	405	379	379	366	396	412
26 PACIFICORP	3459	3459	3280	3533	3852	4386	4436	4402	3968	3587	3587	3223	3208	3324
27 PORTLAND GENERAL ELECTRIC	2942	2942	2719	3057	3270	3544	3788	3377	3223	3075	3075	2871	2709	2829
28 PUGET SOUND ENERGY	2827	2827	3069	3943	4267	4846	4983	4892	4519	4059	4059	3523	3301	2863
29 UTAH POWER & LIGHT	480	480	371	289	260	241	296	293	267	253	253	289	502	549
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30 INVESTOR-OWNED UTILITIES	13534	13534	13054	14325	15418	16968	17618	16972	15545	14434	14434	13560	13663	13571

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FIRM LOADS (CONTINUED)	----	----	----	----	----	----	----	----	----	----	----	----	----	----
-- OTHER ENTITIES --														
31 COLOCKUM TRANSMISSION CO.	183	183	183	183	183	183	183	183	183	183	183	183	183	183
32 NON-FED DSI LOAD	771	771	1297	1181	1171	769	1337	1878	2051	2211	2211	1101	1101	793
33 NON-FED DSI FIRM LOSSES	22	22	39	38	41	28	52	71	74	75	75	36	33	23
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34 OTHER FIRM LOADS	976	976	1519	1402	1395	980	1572	2132	2308	2469	2469	1320	1317	999
REGIONAL FIRM LOADS														
35 REGIONAL FIRM LOADS	27700	27702	27509	30114	32261	34545	35487	34889	32526	30753	30741	29139	28307	27814
NON-FIRM LOADS														
-- INVESTOR-OWNED UTILITIES --														
36 OTHER NON-FIRM (UTAH)	140	140	102	71	133	84	153	100	150	72	72	94	134	115
REGIONAL NON-FIRM LOADS														
37 REGIONAL NON-FIRM LOAD	140	140	102	71	133	84	153	100	150	72	72	94	134	115
REGIONAL TOTAL LOADS														
38 FEDERAL SYSTEM	3164	3166	2586	2693	2685	3166	2574	2001	1777	1664	1652	2842	2832	3145
39 PUBLIC AGENCIES	10027	10027	10349	11693	12763	13432	13723	13784	12896	12186	12186	11417	10495	10099
40 INVESTOR-OWNED UTILITIES	13673	13673	13157	14396	15550	17051	17771	17072	15695	14507	14507	13653	13798	13686
41 OTHER ENTITIES	976	976	1519	1402	1395	980	1572	2132	2308	2469	2469	1320	1317	999
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42 REGIONAL TOTAL LOADS	27840	27842	27611	30185	32393	34629	35640	34989	32676	30826	30814	29232	28441	27929

EXPORTS

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-- UTILITY TRANSACTIONS --	----	----	----	----	----	----	----	----	----	----	----	----	----	----
41 PP&L TO SMUD PWR S	100	100	100	100	100	100	100	100	100	100	100	100	100	100
42 PP&L TO SCE PWR S	100	100	100	100	100	100	100	100	100	100	100	100	100	100
43 PP&L TO WAPA PWR S	191	191	191	191	191	191	135	135	135	135	135	135	135	135
44 PGE TO GLENDALE PWR S	20	20	20	20	20	20	20	20	20	20	20	20	20	20
45 PGE TO GLENDALE SPX	30	30	30	0	0	0	0	0	0	0	0	0	30	30
46 PSE TO PG&E SPX	300	300	300	0	0	0	0	0	0	0	0	0	300	300
47 SCL TO NCPA SPX	60	60	60	29	0	0	0	0	0	0	0	0	60	60
48 SNOH TO SMUD PWR S	36	36	36	26	26	26	26	26	26	26	26	26	33	33
49 TPU TO WAPA PWR S	41	41	74	74	74	41	41	41	41	41	41	41	41	41
50 AVC TO MODESTO PWR S	85	85	20	0	0	0	0	0	0	0	0	0	0	0
51 UTILITY EXPORTS TO PSW	2761	2761	2711	2226	1841	1835	1780	1756	1749	1933	1984	2123	2812	2696
-- OTHER ENTITIES TRANSACTIONS --														
52 BOARDMAN(14.8%) TO SDG&E *	79	79	79	79	79	79	79	79	79	79	79	0	79	79
53 BOARDMAN(10.2%) TO TURLOCK*	53	53	53	53	53	53	53	53	53	53	53	0	53	53
54 LONGVIEW FIBRE TO WAPA *	45	45	45	45	45	45	45	45	45	45	45	45	45	45
55 OTHER ENTITIES EXP TO PSW	177	177	177	177	177	177	177	177	177	177	177	45	177	177
-- INTRA-COMPANY TRANSFERS TO PSW --														
56 PP&L TO PP&L N. CALIF.	20	20	-44	-32	-20	1	6	-20	-24	-26	-26	-17	-9	38
57 TOTAL EXPORTS TO PSW	2958	2958	2844	2371	1998	2013	1963	1913	1902	2084	2135	2151	2980	2911
EXPORTS TO CANADA														
58 BPA CAN. ENT. TO BC HYDRO	802	802	802	802	802	802	801	801	802	802	802	802	802	802
59 AVC TO WEST KOOTENAI CAP S	0	0	0	0	65	85	125	70	0	0	0	0	0	0
60 EXPORTS TO CANADA	802	802	802	802	867	887	926	871	802	802	802	802	802	802
TOTAL EXPORTS														
61 FEDERAL SYSTEM	2259	2259	2245	2202	1846	1846	1847	1848	1846	1999	2050	2164	2470	2483
62 PUBLIC AGENCIES	157	157	170	129	100	67	67	67	67	67	67	67	155	156
63 INVESTOR-OWNED UTILITIES	1193	1193	1061	673	751	819	809	704	623	650	650	683	1007	1035
64 OTHER ENTITIES *	177	177	177	177	177	177	177	177	177	177	177	45	177	177
65 TOTAL EXPORTS	3786	3786	3653	3181	2874	2909	2900	2796	2713	2893	2944	2959	3809	3851

NOTE: 1. THE FOLLOWING CONTRACTS ARE SHOWN AS POWER SALES THROUGH THE STUDY HORIZON

A. BPA TO BURBANK: PWR SALE & C/N/X C. BPA TO PASADENA: PWR SALE & C/N/X

B. BPA TO GLENDALE: PWR SALE & C/N/X D. BPA TO SCE: PWR SALE & C/N/X

2. BPA TO SCE: OPTION CAPACITY IS INCLUDED THROUGH OY 2004.

EXPORTS

1998 WHITE BOOK: 12/31/98

2003- 4 OPERATING YEAR

RUN DATE: 12/31/98

PEAK IN MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL
-- UTILITY TRANSACTIONS --	----	----	----	----	----	----	----	----	----	----	----	----	----	----
41 PP&L TO SMUD PWR S	100	100	100	100	100	100	100	100	100	100	100	100	100	100
42 PP&L TO SCE PWR S	100	100	100	100	100	100	100	100	100	100	100	100	100	100
43 PP&L TO WAPA PWR S	123	123	123	123	123	123	123	123	123	123	123	123	123	123
44 PGE TO GLENDALE PWR S	20	20	20	20	20	20	20	20	20	20	20	20	20	20
45 PGE TO GLENDALE SPX	30	30	30	0	0	0	0	0	0	0	0	0	30	30
46 PSE TO PG&E SPX	300	300	300	0	0	0	0	0	0	0	0	0	300	300
47 SCL TO NCPA SPX	60	60	60	29	0	0	0	0	0	0	0	0	60	60
48 SNOH TO SMUD PWR S	36	36	36	26	26	26	26	26	26	26	26	26	33	33
49 TPU TO WAPA PWR S	41	41	74	74	74	41	41	41	41	41	41	41	41	41
50 AVC TO MODESTO PWR S	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51 UTILITY EXPORTS TO PSW	2421	2421	2454	1987	1617	1590	1308	1308	1308	1338	1338	1453	2107	2107
-- OTHER ENTITIES TRANSACTIONS --														
52 BOARDMAN(14.8%) TO SDG&E *	79	79	79	79	79	79	79	79	79	79	79	0	79	79
53 BOARDMAN(10.2%) TO TURLOCK*	53	53	53	53	53	53	53	53	53	53	53	0	53	53
54 LONGVIEW FIBRE TO WAPA *	45	45	45	45	45	45	45	45	45	45	45	45	45	45
55 OTHER ENTITIES EXP TO PSW	177	177	177	177	177	177	177	177	177	177	177	45	177	177
-- INTRA-COMPANY TRANSFERS TO PSW --														
56 PP&L TO PP&L N. CALIF.	28	28	-38	-25	-12	10	14	-12	-16	-19	-19	-9	0	47
57 TOTAL EXPORTS TO PSW	2626	2626	2593	2139	1782	1777	1499	1473	1469	1496	1496	1489	2284	2331
EXPORTS TO CANADA														
58 BPA CAN. ENT. TO BC HYDRO	1447	1447	1447	1447	1447	1447	1447	1447	1447	1448	1448	1448	1447	1447
59 AVC TO WEST KOOTENAI CAP S	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60 EXPORTS TO CANADA	1447	1447	1447	1447	1447	1447	1447	1447	1447	1448	1448	1448	1447	1447
TOTAL EXPORTS														
61 FEDERAL SYSTEM	2864	2864	2858	2803	2461	2470	2266	2270	2257	2235	2235	2357	2638	2653
62 PUBLIC AGENCIES	157	157	170	129	100	67	67	67	67	67	67	67	155	156
63 INVESTOR-OWNED UTILITIES	1002	1002	936	567	596	624	552	526	522	549	549	559	898	945
64 OTHER ENTITIES *	177	177	177	177	177	177	177	177	177	177	177	45	177	177
65 TOTAL EXPORTS	4200	4200	4141	3676	3334	3338	3062	3040	3023	3028	3028	3028	3868	3931

NOTE: 1. THE FOLLOWING CONTRACTS ARE SHOWN AS POWER SALES THROUGH THE STUDY HORIZON

A. BPA TO BURBANK: PWR SALE & C/N/X C. BPA TO PASADENA: PWR SALE & C/N/X

B. BPA TO GLENDALE: PWR SALE & C/N/X D. BPA TO SCE: PWR SALE & C/N/X

2. BPA TO SCE: OPTION CAPACITY IS INCLUDED THROUGH OY 2004.

EXPORTS

1998 WHITE BOOK: 12/31/98

2008- 9 OPERATING YEAR

RUN DATE: 12/31/98

PEAK IN MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL
-- UTILITY TRANSACTIONS --	----	----	----	----	----	----	----	----	----	----	----	----	----	----
41 PP&L TO SMUD PWR S	100	100	100	100	100	100	100	100	100	100	100	100	100	100
42 PP&L TO SCE PWR S	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43 PP&L TO WAPA PWR S	0	0	0	0	0	0	0	0	0	0	0	0	0	75
44 PGE TO GLENDALE PWR S	20	20	20	20	20	20	20	20	20	20	20	20	20	20
45 PGE TO GLENDALE SPX	30	30	30	0	0	0	0	0	0	0	0	0	30	30
46 PSE TO PG&E SPX	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47 SCL TO NCPA SPX	60	60	60	29	0	0	0	0	0	0	0	0	60	60
48 SNOH TO SMUD PWR S	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49 TPU TO WAPA PWR S	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50 AVC TO MODESTO PWR S	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51 UTILITY EXPORTS TO PSW	924	924	924	818	727	727	727	727	727	757	757	834	618	693
-- OTHER ENTITIES TRANSACTIONS --														
52 BOARDMAN(14.8%) TO SDG&E *	79	79	79	79	79	79	79	79	79	79	79	0	79	79
53 BOARDMAN(10.2%) TO TURLOCK*	53	53	53	53	53	53	53	53	53	53	53	0	53	53
54 LONGVIEW FIBRE TO WAPA *	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55 OTHER ENTITIES EXP TO PSW	132	132	132	132	132	132	132	132	132	132	132	0	132	132
-- INTRA-COMPANY TRANSFERS TO PSW --														
56 PP&L TO PP&L N. CALIF.	35	35	-32	-19	-5	18	25	2	-8	-10	-10	0	9	53
57 TOTAL EXPORTS TO PSW	1091	1091	1024	931	854	877	884	861	851	879	879	834	759	878
EXPORTS TO CANADA														
58 BPA CAN. ENT. TO BC HYDRO	1447	1447	1447	1447	1447	1447	1447	1447	1447	1447	1447	1447	1447	1447
59 AVC TO WEST KOOTENAI CAP S	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60 EXPORTS TO CANADA	1448	1448	1447	1447	1447	1447	1447	1447	1447	1447	1447	1447	1448	1447
TOTAL EXPORTS														
61 FEDERAL SYSTEM	2167	2167	2158	2131	2088	2097	2101	2105	2089	2062	2062	2147	1871	1889
62 PUBLIC AGENCIES	80	80	60	29	0	0	0	0	0	0	0	0	81	82
63 INVESTOR-OWNED UTILITIES	310	310	243	196	210	233	240	217	207	235	235	245	284	403
64 OTHER ENTITIES *	132	132	132	132	132	132	132	132	132	132	132	0	132	132
65 TOTAL EXPORTS	2689	2689	2593	2488	2430	2462	2473	2454	2428	2429	2429	2392	2368	2506

NOTE: 1. THE FOLLOWING CONTRACTS ARE SHOWN AS POWER SALES THROUGH THE STUDY HORIZON

A. BPA TO BURBANK: PWR SALE & C/N/X C. BPA TO PASADENA: PWR SALE & C/N/X

B. BPA TO GLENDALE: PWR SALE & C/N/X D. BPA TO SCE: PWR SALE & C/N/X

2. BPA TO SCE: OPTION CAPACITY IS INCLUDED THROUGH OY 2004.

REGULATED HYDRO PROJECTS

1998 WHITE BOOK: 12/31/98

1999-0 OPERATING YEAR

RUN DATE: 12/31/98

1937 WATER YEAR

PEAK IN MEGAWATTS

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL
REGULATED HYDRO PROJECTS	---	---	---	---	---	---	---	---	---	---	---	---	---	---
45 RIVER MILL PGE	23	23	23	23	23	23	23	23	23	23	23	23	23	23
46 ROCK ISLAND CHLN	567	569	570	570	569	568	569	569	571	571	570	565	566	568
47 RKY REACH AFTER ENC. CHLN	1299	1298	1297	1297	1298	1299	1298	1298	1295	1295	1296	1302	1301	1299
48 ROSS SCL	440	427	0	162	422	400	384	360	363	356	357	386	431	444
49 ROUND BUTTE PGE	300	291	300	300	300	300	300	300	295	300	300	300	299	299
50 SWIFT 1 PP&L	265	263	256	166	234	225	191	140	140	140	140	0	249	263
51 SWIFT 2 COW	60	62	60	49	65	65	67	76	76	76	76	0	64	62
52 THE DALLES FED	2074	2074	2074	2074	2074	2074	2074	2074	2074	2074	2074	2074	2074	2074
53 THOMPSON FLS REGIONAL MPC	29	29	25	26	29	27	28	26	26	28	24	20	20	29
54 TRAIL BRIDGE EUG	4	4	4	4	4	4	4	4	4	4	4	4	4	4
55 UPPER BAKER PSE	96	84	0	0	90	82	80	80	80	54	81	76	90	95
56 UPPER FALLS AVC	10	10	10	10	10	10	10	10	10	10	9	8	9	10
57 WANAPUM AFTER ENC. GRNT	910	910	910	910	910	910	910	910	910	910	910	910	910	910
58 WELLS AFTER ENC. DGLS	840	840	840	840	840	840	840	840	840	840	840	840	840	840
59 WHITE PSE	62	51	0	26	64	63	56	43	43	47	53	60	63	62
60 YALE PP&L	133	133	133	133	133	131	130	112	94	102	111	0	133	130
61 REGULATED HYDRO W/ENC.	27343	27243	26575	26769	27476	29030	28949	28508	27983	27961	27919	27628	28478	27310
TOTAL REGULATED HYDRO W/ENCROACHMENTS														
62 FEDERAL SYSTEM	16563	16604	16690	16785	17094	18551	18570	18443	17958	17835	17705	17692	17890	16598
63 PUBLIC AGENCIES	4120	4079	3507	3659	4018	3948	3914	3849	3700	3700	3740	3719	4117	4157
64 INVESTOR-OWNED UTILITIES	6361	6262	6080	6027	6066	6232	6167	5918	6027	6128	6176	5917	6172	6256
65 OTHER ENTITIES	299	298	298	298	298	299	298	298	298	298	298	300	299	299
66 TOTAL REGULATED HYDRO W/ENC	27343	27243	26575	26769	27476	29030	28949	28508	27983	27961	27919	27628	28478	27310
HYDRO INDEPENDENTS (FROM TABLE A-4)														
67 FEDERAL SYSTEM	707	719	701	716	691	650	613	741	800	817	816	846	847	725
68 PUBLIC AGENCIES	193	196	218	225	231	223	224	230	243	236	234	238	238	207
69 INVESTOR-OWNED UTILITIES	961	932	910	876	882	902	885	866	872	896	912	929	943	985
70 TOTAL HYDRO INDEPENDENTS	1861	1847	1829	1817	1804	1775	1722	1837	1915	1949	1962	2013	2028	1917
TOTAL REGIONAL HYDRO														
71 FEDERAL SYSTEM	17270	17323	17391	17501	17785	19201	19183	19184	18758	18652	18521	18538	18737	17323
72 PUBLIC AGENCIES	4313	4275	3725	3884	4249	4171	4138	4079	3943	3936	3974	3957	4355	4364
73 INVESTOR-OWNED UTILITIES	7322	7194	6990	6903	6948	7134	7052	6784	6899	7024	7088	6846	7115	7241
74 OTHER ENTITIES	299	298	298	298	298	299	298	298	298	298	298	300	299	299
75 TOTAL REGIONAL HYDRO	29204	29090	28404	28586	29280	30805	30671	30345	29898	29910	29881	29641	30506	29227

REGULATED HYDRO PROJECTS

1998 WHITE BOOK: 12/31/98

2003- 4 OPERATING YEAR

RUN DATE: 12/31/98

1937 WATER YEAR

PEAK IN MEGAWATTS

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL
REGULATED HYDRO PROJECTS	---	---	---	---	---	---	---	---	---	---	---	---	---	---
45 RIVER MILL PGE	23	23	23	23	23	23	23	23	23	23	23	23	23	23
46 ROCK ISLAND CHLN	567	569	570	570	569	568	569	569	571	571	570	565	566	568
47 RKY REACH AFTER ENC. CHLN	1299	1298	1297	1297	1298	1299	1298	1298	1295	1295	1296	1302	1301	1299
48 ROSS SCL	440	427	0	162	422	400	384	360	363	356	357	386	431	444
49 ROUND BUTTE PGE	300	291	300	300	300	300	300	300	295	300	300	300	299	299
50 SWIFT 1 PP&L	265	263	256	166	234	225	191	140	140	140	140	0	249	263
51 SWIFT 2 COW	60	62	60	49	65	65	67	76	76	76	76	0	64	62
52 THE DALLES FED	2074	2074	2074	2074	2074	2074	2074	2074	2074	2074	2074	2074	2074	2074
53 THOMPSON FLS REGIONAL MPC	34	34	31	33	35	33	37	36	32	35	31	27	27	32
54 TRAIL BRIDGE EUG	4	4	4	4	4	4	4	4	4	4	4	4	4	4
55 UPPER BAKER PSE	96	84	0	0	90	82	80	80	80	54	81	76	90	95
56 UPPER FALLS AVC	10	10	10	10	10	10	10	10	10	10	9	8	9	10
57 WANAPUM AFTER ENC. GRNT	910	910	910	910	910	910	910	910	910	910	910	910	910	910
58 WELLS AFTER ENC. DGLS	840	840	840	840	840	840	840	840	840	840	840	840	840	840
59 WHITE PSE	62	51	0	26	64	63	56	43	43	47	53	60	63	62
60 YALE PP&L	133	133	133	133	133	131	130	112	94	102	111	0	133	130
61 REGULATED HYDRO W/ENC.	27359	27259	26592	26787	27493	29048	28974	28534	27999	27980	27936	27648	28498	27318
TOTAL REGULATED HYDRO W/ENCROACHMENTS														
62 FEDERAL SYSTEM	16563	16604	16690	16785	17094	18551	18570	18443	17958	17835	17705	17692	17890	16598
63 PUBLIC AGENCIES	4282	4241	3670	3823	4181	4112	4077	4012	3864	3864	3904	3884	4281	4318
64 INVESTOR-OWNED UTILITIES	6215	6116	5934	5881	5920	6086	6029	5781	5879	5983	6029	5772	6028	6103
65 OTHER ENTITIES	299	298	298	298	298	299	298	298	298	298	298	300	299	299
66 TOTAL REGULATED HYDRO W/ENC	27359	27259	26592	26787	27493	29048	28974	28534	27999	27980	27936	27648	28498	27318
HYDRO INDEPENDENTS (FROM TABLE A-4)														
67 FEDERAL SYSTEM	740	752	733	740	711	673	644	760	819	842	841	879	880	758
68 PUBLIC AGENCIES	193	196	218	225	230	223	224	230	243	236	234	238	238	207
69 INVESTOR-OWNED UTILITIES	963	934	914	875	882	902	898	876	875	902	914	933	948	977
70 TOTAL HYDRO INDEPENDENTS	1896	1882	1865	1840	1823	1798	1766	1866	1937	1980	1989	2050	2066	1942
TOTAL REGIONAL HYDRO														
71 FEDERAL SYSTEM	17303	17356	17423	17525	17805	19224	19214	19203	18777	18677	18546	18571	18770	17356
72 PUBLIC AGENCIES	4475	4437	3888	4048	4411	4335	4301	4242	4107	4100	4138	4122	4519	4525
73 INVESTOR-OWNED UTILITIES	7178	7050	6848	6756	6802	6988	6927	6657	6754	6885	6943	6705	6976	7080
74 OTHER ENTITIES	299	298	298	298	298	299	298	298	298	298	298	300	299	299
75 TOTAL REGIONAL HYDRO	29255	29141	28457	28627	29316	30846	30740	30400	29936	29960	29925	29698	30564	29260

REGULATED HYDRO PROJECTS

1998 WHITE BOOK: 12/31/98

2008- 9 OPERATING YEAR

RUN DATE: 12/31/98

1937 WATER YEAR

PEAK IN MEGAWATTS

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL
REGULATED HYDRO PROJECTS	---	---	---	---	---	---	---	---	---	---	---	---	---	---
45 RIVER MILL PGE	23	23	23	23	23	23	23	23	23	23	23	23	23	23
46 ROCK ISLAND CHLN	567	569	570	570	569	568	569	569	571	571	570	565	566	568
47 RKY REACH AFTER ENC. CHLN	1299	1298	1297	1297	1298	1299	1298	1298	1295	1295	1296	1302	1301	1299
48 ROSS SCL	440	427	0	162	422	400	384	360	363	356	357	386	431	444
49 ROUND BUTTE PGE	300	291	300	300	300	300	300	300	295	300	300	300	299	299
50 SWIFT 1 PP&L	265	263	256	166	234	225	191	140	140	140	140	0	249	263
51 SWIFT 2 COW	60	62	60	49	65	65	67	76	76	76	76	0	64	62
52 THE DALLES FED	2074	2074	2074	2074	2074	2074	2074	2074	2074	2074	2074	2074	2074	2074
53 THOMPSON FLS REGIONAL MPC	32	32	31	33	35	37	38	36	33	35	31	28	28	33
54 TRAIL BRIDGE EUG	4	4	4	4	4	4	4	4	4	4	4	4	4	4
55 UPPER BAKER PSE	96	84	0	0	90	82	80	80	80	54	81	76	90	95
56 UPPER FALLS AVC	10	10	10	10	10	10	10	10	10	10	9	8	9	10
57 WANAPUM AFTER ENC. GRNT	910	910	910	910	910	910	910	910	910	910	910	910	910	910
58 WELLS AFTER ENC. DGLS	840	840	840	840	840	840	840	840	840	840	840	840	840	840
59 WHITE PSE	62	51	0	26	64	63	56	43	43	47	53	60	63	62
60 YALE PP&L	133	133	133	133	133	131	130	112	94	102	111	0	133	130
61 REGULATED HYDRO W/ENC.	27351	27251	26593	26788	27494	29058	28976	28536	28002	27982	27938	27650	28501	27321
TOTAL REGULATED HYDRO W/ENCROACHMENTS														
62 FEDERAL SYSTEM	16563	16604	16690	16785	17094	18551	18570	18443	17958	17835	17705	17692	17890	16598
63 PUBLIC AGENCIES	4696	4654	4082	4234	4593	4523	4489	4424	4276	4276	4315	4298	4695	4692
64 INVESTOR-OWNED UTILITIES	5793	5695	5523	5471	5509	5685	5619	5371	5470	5573	5620	5360	5617	5732
65 OTHER ENTITIES	299	298	298	298	298	299	298	298	298	298	298	300	299	299
66 TOTAL REGULATED HYDRO W/ENC	27351	27251	26593	26788	27494	29058	28976	28536	28002	27982	27938	27650	28501	27321
HYDRO INDEPENDENTS (FROM TABLE A-4)														
67 FEDERAL SYSTEM	740	752	733	740	711	673	644	760	819	842	841	879	880	758
68 PUBLIC AGENCIES	193	196	218	225	230	223	224	230	243	236	234	238	238	207
69 INVESTOR-OWNED UTILITIES	954	925	915	876	883	914	900	878	876	905	917	936	950	979
70 TOTAL HYDRO INDEPENDENTS	1887	1873	1866	1841	1824	1810	1768	1868	1938	1983	1992	2053	2068	1944
TOTAL REGIONAL HYDRO														
71 FEDERAL SYSTEM	17303	17356	17423	17525	17805	19224	19214	19203	18777	18677	18546	18571	18770	17356
72 PUBLIC AGENCIES	4889	4850	4300	4459	4823	4746	4713	4654	4519	4512	4549	4536	4933	4899
73 INVESTOR-OWNED UTILITIES	6747	6620	6438	6347	6392	6599	6519	6249	6346	6478	6537	6296	6567	6711
74 OTHER ENTITIES	299	298	298	298	298	299	298	298	298	298	298	300	299	299
75 TOTAL REGIONAL HYDRO	29238	29124	28459	28629	29318	30868	30744	30404	29940	29965	29930	29703	30569	29265

1937 WATER YEAR PEAK IN MEGAWATTS		HYDRO INDEPENDENTS													
		1998 WHITE BOOK: 12/31/98 1999-0 OPERATING YEAR RUN DATE: 12/31/98													
		AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL
		----	----	----	----	----	----	----	----	----	----	----	----	----	----
HYDRO INDEPENDENTS															
50 MOYIE SPRINGS	BONFY	2	2	2	2	2	2	2	2	2	2	2	2	2	2
51 MYSTICE	REGIONAL MPC	4	4	1	3	4	3	2	1	2	1	1	0	0	4
52 NORTH UMPQUA	PP&L	175	175	175	175	175	175	175	175	175	175	175	175	175	175
53 PALISADES	FED	131	131	128	109	108	116	122	128	131	131	131	131	131	131
54 RAINBOW	REGIONAL MPC	9	9	10	11	10	10	11	11	10	11	10	7	8	11
55 REEDER GULCH	ASHLD	1	1	1	1	1	1	1	1	1	1	1	1	1	1
56 ROGUE	PP&L	33	33	30	27	26	28	25	27	40	50	50	51	51	51
57 ROZA - PUMPING LOAD	FED	8	8	-5	0	0	5	4	4	12	10	9	8	8	8
58 RYAN	REGIONAL MPC	20	20	18	16	20	20	19	18	19	19	17	14	15	21
59 SHOSHONE FALLS	IPC	13	13	13	13	13	13	13	13	13	13	13	13	13	13
60 SNOQUALMIE ELCT & NK	PSE	72	72	72	72	72	72	72	72	72	72	72	72	72	72
61 SODA CREEK	SODAS	1	1	1	1	1	1	1	1	1	1	1	1	1	1
62 SOUTH FORK TOLT	SCL	0	0	0	0	7	7	7	7	7	0	0	0	0	0
63 SPRINGS PLANTS	IPC	27	28	28	30	31	31	30	30	27	28	28	27	26	26
64 STONE CREEK	EUG	4	6	10	10	10	2	7	1	4	6	5	7	6	10
65 STRAWBERRY	LWVAL	1	1	2	2	2	1	2	1	2	2	2	2	2	2
66 SWAN FALLS	IPC	14	14	16	18	19	19	17	17	16	16	16	15	14	14
67 T W SULLIVAN	PGE	14	14	14	14	14	14	16	14	14	14	14	14	14	14
68 THE DALLES FISHWAY	NWSCO	4	4	4	4	4	4	4	4	4	4	4	4	4	4
69 TWIN FALLS	IPC	5	5	8	4	11	14	10	8	0	0	0	0	0	7
70 UPPER SALMON 1&2	IPC	19	19	19	19	19	19	19	19	19	19	19	19	19	19
71 UPPER SALMON 3&4	IPC	17	17	17	17	17	17	17	17	17	17	17	17	17	17
72 WATERVILLE	EUG	5	6	4	5	4	5	3	7	8	6	6	9	9	8
73 WYNOCHEE	TPU	11	11	11	11	11	11	11	11	11	11	11	11	11	11
74 YELM	CNTRA	10	10	10	10	10	10	10	10	10	10	10	10	10	10
		----	----	----	----	----	----	----	----	----	----	----	----	----	----
75 TOTAL HYDRO INDEPENDENTS		1861	1847	1829	1817	1804	1775	1722	1837	1915	1949	1962	2013	2028	1917
TOTAL HYDRO INDEPENDENTS															
76 FEDERAL SYSTEM		707	719	701	716	691	650	613	741	800	817	816	846	847	725
77 PUBLIC AGENCIES		193	196	218	225	231	223	224	230	243	236	234	238	238	207
78 INVESTOR-OWNED UTILITIES		961	932	910	876	882	902	885	866	872	896	912	929	943	985
		----	----	----	----	----	----	----	----	----	----	----	----	----	----
79 TOTAL HYDRO INDEPENDENTS		1861	1847	1829	1817	1804	1775	1722	1837	1915	1949	1962	2013	2028	1917

1937 WATER YEAR PEAK IN MEGAWATTS		HYDRO INDEPENDENTS													
		1998 WHITE BOOK: 12/31/98 2003- 4 OPERATING YEAR RUN DATE: 12/31/98													
		AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL
		----	----	----	----	----	----	----	----	----	----	----	----	----	----
HYDRO INDEPENDENTS															
50 MOYIE SPRINGS	BONFY	2	2	2	2	2	2	2	2	2	2	2	2	2	2
51 MYSTICE	REGIONAL MPC	4	4	2	4	4	4	2	1	2	1	1	0	0	5
52 NORTH UMPQUA	PP&L	175	175	175	175	175	175	175	175	175	175	175	175	175	175
53 PALISADES	FED	131	131	128	109	108	116	122	128	131	131	131	131	131	131
54 RAINBOW	REGIONAL MPC	11	11	13	13	12	13	14	15	13	14	12	10	10	12
55 REEDER GULCH	ASHLD	1	1	1	1	1	1	1	1	1	1	1	1	1	1
56 ROGUE	PP&L	33	33	30	27	26	28	25	27	40	50	50	51	51	51
57 ROZA - PUMPING LOAD	FED	8	8	-5	0	0	5	4	4	12	10	9	8	8	8
58 RYAN	REGIONAL MPC	24	24	22	19	24	24	26	25	23	24	21	19	20	23
59 SHOSHONE FALLS	IPC	13	13	13	13	13	13	13	13	13	13	13	13	13	13
60 SNOQUALMIE ELCT & NK	PSE	72	72	72	72	72	72	72	72	72	72	72	72	72	72
61 SODA CREEK	SODAS	1	1	1	1	1	1	1	1	1	1	1	1	1	1
62 SOUTH FORK TOLT	SCL	0	0	0	0	7	7	7	7	7	0	0	0	0	0
63 SPRINGS PLANTS	IPC	27	28	28	30	31	31	30	30	27	28	28	27	26	26
64 STONE CREEK	EUG	4	6	10	10	10	2	7	1	4	6	5	7	6	10
65 STRAWBERRY	LWVAL	1	1	2	2	2	1	2	1	2	2	2	2	2	2
66 SWAN FALLS	IPC	14	14	16	18	19	19	17	17	16	16	16	15	14	14
67 T W SULLIVAN	PGE	14	14	14	14	14	14	16	14	14	14	14	14	14	14
68 THE DALLES FISHWAY	NWSCO	4	4	4	4	4	4	4	4	4	4	4	4	4	4
69 TWIN FALLS	IPC	5	5	8	4	11	14	10	8	0	0	0	0	0	7
70 UPPER SALMON 1&2	IPC	19	19	19	19	19	19	19	19	19	19	19	19	19	19
71 UPPER SALMON 3&4	IPC	17	17	17	17	17	17	17	17	17	17	17	17	17	17
72 WATERVILLE	EUG	5	6	4	5	4	5	3	7	8	6	6	9	9	8
73 WYNOCHEE	TPU	11	11	11	11	11	11	11	11	11	11	11	11	11	11
74 YELM	CNTRA	10	10	10	10	10	10	10	10	10	10	10	10	10	10
75 TOTAL HYDRO INDEPENDENTS		1896	1882	1865	1840	1823	1798	1766	1866	1937	1980	1989	2050	2066	1942
TOTAL HYDRO INDEPENDENTS															
76 FEDERAL SYSTEM		740	752	733	740	711	673	644	760	819	842	841	879	880	758
77 PUBLIC AGENCIES		193	196	218	225	230	223	224	230	243	236	234	238	238	207
78 INVESTOR-OWNED UTILITIES		963	934	914	875	882	902	898	876	875	902	914	933	948	977
79 TOTAL HYDRO INDEPENDENTS		1896	1882	1865	1840	1823	1798	1766	1866	1937	1980	1989	2050	2066	1942

1937 WATER YEAR PEAK IN MEGAWATTS		HYDRO INDEPENDENTS													
		1998 WHITE BOOK: 12/31/98 2008- 9 OPERATING YEAR RUN DATE: 12/31/98													
		AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL
		----	----	----	----	----	----	----	----	----	----	----	----	----	----
HYDRO INDEPENDENTS															
50 MOYIE SPRINGS	BONFY	2	2	2	2	2	2	2	2	2	2	2	2	2	2
51 MYSTICE	REGIONAL MPC	4	4	2	4	4	5	2	1	2	1	1	0	0	5
52 NORTH UMPQUA	PP&L	175	175	175	175	175	175	175	175	175	175	175	175	175	175
53 PALISADES	FED	131	131	128	109	108	116	122	128	131	131	131	131	131	131
54 RAINBOW	REGIONAL MPC	10	10	13	14	12	14	15	15	13	14	13	10	11	12
55 REEDER GULCH	ASHLD	1	1	1	1	1	1	1	1	1	1	1	1	1	1
56 ROGUE	PP&L	33	33	30	27	26	28	25	27	40	50	50	51	51	51
57 ROZA - PUMPING LOAD	FED	8	8	-5	0	0	5	4	4	12	10	9	8	8	8
58 RYAN	REGIONAL MPC	22	22	22	19	24	27	27	25	24	25	22	20	20	23
59 SHOSHONE FALLS	IPC	13	13	13	13	13	13	13	13	13	13	13	13	13	13
60 SNOQUALMIE ELCT & NK	PSE	72	72	72	72	72	72	72	72	72	72	72	72	72	72
61 SODA CREEK	SODAS	1	1	1	1	1	1	1	1	1	1	1	1	1	1
62 SOUTH FORK TOLT	SCL	0	0	0	0	7	7	7	7	7	0	0	0	0	0
63 SPRINGS PLANTS	IPC	27	28	28	30	31	31	30	30	27	28	28	27	26	26
64 STONE CREEK	EUG	4	6	10	10	10	2	7	1	4	6	5	7	6	10
65 STRAWBERRY	LWVAL	1	1	2	2	2	1	2	1	2	2	2	2	2	2
66 SWAN FALLS	IPC	14	14	16	18	19	19	17	17	16	16	16	15	14	14
67 T W SULLIVAN	PGE	14	14	14	14	14	14	16	14	14	14	14	14	14	14
68 THE DALLES FISHWAY	NWSCO	4	4	4	4	4	4	4	4	4	4	4	4	4	4
69 TWIN FALLS	IPC	5	5	8	4	11	14	10	8	0	0	0	0	0	7
70 UPPER SALMON 1&2	IPC	19	19	19	19	19	19	19	19	19	19	19	19	19	19
71 UPPER SALMON 3&4	IPC	17	17	17	17	17	17	17	17	17	17	17	17	17	17
72 WATERVILLE	EUG	5	6	4	5	4	5	3	7	8	6	6	9	9	8
73 WYNOCHEE	TPU	11	11	11	11	11	11	11	11	11	11	11	11	11	11
74 YELM	CNTRA	10	10	10	10	10	10	10	10	10	10	10	10	10	10
		----	----	----	----	----	----	----	----	----	----	----	----	----	----
75 TOTAL HYDRO INDEPENDENTS		1887	1873	1866	1841	1824	1810	1768	1868	1938	1983	1992	2053	2068	1944
TOTAL HYDRO INDEPENDENTS															
76 FEDERAL SYSTEM		740	752	733	740	711	673	644	760	819	842	841	879	880	758
77 PUBLIC AGENCIES		193	196	218	225	230	223	224	230	243	236	234	238	238	207
78 INVESTOR-OWNED UTILITIES		954	925	915	876	883	914	900	878	876	905	917	936	950	979
		----	----	----	----	----	----	----	----	----	----	----	----	----	----
79 TOTAL HYDRO INDEPENDENTS		1887	1873	1866	1841	1824	1810	1768	1868	1938	1983	1992	2053	2068	1944

TABLE A-5

SHEET 1 OF 2

IMPORTS

1998 WHITE BOOK: 12/31/98

1999-0 OPERATING YEAR

RUN DATE: 12/31/98

PEAK IN MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL
IMPORTS FROM EAST	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1 BASIN ELEC. TO BPA PWR S	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 PP&L (WY) TO BPA SO ID	13	13	42	108	161	215	189	145	117	90	90	0	18	34
3 IMPORTS FROM EAST	13	13	42	108	161	215	189	145	117	90	90	0	18	34
INTRA-COMPANY TRANSFERS FROM EAST														
4 PP&L (WY) TO PP&L	1149	1149	989	929	818	1023	1034	1073	811	853	853	978	1279	1126
INTRA-COMPANY TRANSFERS FROM INLAND SOUTHWEST														
5 UTAH	415	415	321	251	225	209	256	254	231	219	219	250	434	491
IMPORTS FROM PSW														
6 ANAHEIM TO BPA XCHG NRG	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 ANAHEIM TO BPA PK REPL 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 ANAHEIM TO BPA PK REPL 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 AZUSA TO BPA PWR X	0	0	0	0	3	3	3	3	0	0	0	0	0	0
10 AZUSA TO BPA PK REPL	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 BANNING TO BPA PWR X	0	0	0	0	1	1	1	1	0	0	0	0	0	0
12 BANNING TO BPA PK REPL	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 BURBANK TO BPA XCHG NRG	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 COLTON TO BPA PWR X	0	0	0	0	3	3	3	3	0	0	0	0	0	0
15 COLTON TO BPA PK REPL	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 BGP TO BPA SUPP NRG	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 GLENDALE TO BPA XCHG NRG	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 OTHER ENTITIES TO BPA	200	200	200	0	0	0	0	0	0	0	0	0	0	0
19 PASADENA TO BPA XCH NRG 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 PASADENA TO BPA XCH NRG 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21 PASADENA TO BPA PK REPL	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 PASADENA TO BPA SEAS RPLC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 RIVERSIDE TO BPA XCH NRG 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 RIVERSIDE TO BPA PK REPL 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 RIVERSIDE TO BPA PK REPL 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 RIVERSIDE TO BPA SEAS XCHG	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27 RIVERSIDE TO BPA XCH NRG 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 RIVERSIDE TO BPA PK REPL 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 SIERRA TO BPA HARNEY&WELLS	75	75	75	45	45	45	45	45	45	75	75	75	75	75
30 SCE TO BPA XCHG NRG	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31 SCE TO BPA SUPP NRG	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32 SCE TO BPA ENV STORAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 SCE TO BPA OPT NRG	0	0	0	0	0	0	230	230	273	273	0	0	0	0
34 SCE TO BPA PK REPL	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35 SCE TO PP&L PWR S	0	0	0	422	422	422	422	422	422	0	0	0	0	0
36 GLENDALE TO PGE SPX	0	0	0	0	30	30	30	30	0	0	0	0	0	0
37 PG&E TO PSE SPX	0	0	0	0	300	300	300	300	0	0	0	0	0	0
38 NCPA TO SCL SPX	0	0	0	0	25	46	46	46	46	12	12	0	0	0
39 IMPORTS FROM PSW	275	275	275	467	829	850	1080	1080	786	360	87	75	75	75

IMPORTS		1998 WHITE BOOK: 12/31/98													
1999- 0 OPERATING YEAR		RUN DATE: 12/31/98													
PEAK IN MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	
IMPORTS FROM CANADA	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
40 BC HYDRO TO PSE PWR S	3	3	2	3	4	5	6	5	4	4	4	3	2	3	
41 BC HYDRO TO SCL ROSS	142	142	143	143	97	118	149	182	208	142	142	143	143	143	
42 POWEREX TO BENTON REA PWR S	50	50	50	49	43	46	39	50	38	41	41	42	46	50	
43 PWRX TO BPA (ABC) PK REP	22	22	22	0	0	0	0	0	0	0	0	0	0	0	
44 PWRX TO BPA (P.ALTO) PK REP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
45 POWEREX TO CLRWATER PWR S	13	13	14	13	17	20	19	18	17	17	17	14	13	12	
46 POWEREX TO EWEB PWR S	66	66	66	74	89	97	102	97	88	81	81	72	66	64	
47 W KOOTENAY TO AVC PK REP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
48 IMPORTS FROM CANADA	296	296	297	282	250	286	315	352	355	285	285	274	270	272	
TOTAL IMPORTS															
49 FEDERAL SYSTEM	310	310	339	153	213	267	471	427	435	438	165	75	93	109	
50 PUBLIC AGENCIES	271	271	273	279	271	327	355	393	397	293	293	271	268	269	
51 INVESTOR-OWNED UTILITIES	1567	1567	1312	1605	1799	1989	2048	2084	1468	1076	1076	1231	1715	1620	
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52 TOTAL IMPORTS	2148	2148	1924	2037	2283	2583	2874	2904	2300	1807	1534	1577	2076	1998	

NOTE: 1. BPA TO SCE: OPTION ENERGY IS INCLUDED THROUGH OY 2004.

2. THE FOLLOWING CONTRACTS ARE RESOURCE OPTIONS AND NOT INCLUDED THROUGH THE STUDY HORIZON.

A. BGP TO BPA: SUPPLEMENTAL ENERGY B. SCE TO BPA: SUPPLEMENTAL ENERGY

TABLE A-5

SHEET 1 OF 2

IMPORTS

1998 WHITE BOOK: 12/31/98

2003- 4 OPERATING YEAR

RUN DATE: 12/31/98

PEAK IN MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL
IMPORTS FROM EAST	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1 BASIN ELEC. TO BPA PWR S	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 PP&L (WY) TO BPA SO ID	13	13	42	108	161	215	189	145	117	90	90	0	18	34
3 IMPORTS FROM EAST	13	13	42	108	161	215	189	145	117	90	90	0	18	34
INTRA-COMPANY TRANSFERS FROM EAST														
4 PP&L (WY) TO PP&L	1036	1036	663	824	1050	906	915	955	1016	741	741	1213	1167	1007
INTRA-COMPANY TRANSFERS FROM INLAND SOUTHWEST														
5 UTAH	444	444	342	268	240	223	277	275	250	237	237	270	470	531
IMPORTS FROM PSW														
6 ANAHEIM TO BPA XCHG NRG	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 ANAHEIM TO BPA PK REPL 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 ANAHEIM TO BPA PK REPL 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 AZUSA TO BPA PWR X	0	0	0	0	3	3	3	3	0	0	0	0	0	0
10 AZUSA TO BPA PK REPL	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 BANNING TO BPA PWR X	0	0	0	0	1	1	1	1	0	0	0	0	0	0
12 BANNING TO BPA PK REPL	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 BURBANK TO BPA XCHG NRG	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 COLTON TO BPA PWR X	0	0	0	0	3	3	3	3	0	0	0	0	0	0
15 COLTON TO BPA PK REPL	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 BGP TO BPA SUPP NRG	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 GLENDALE TO BPA XCHG NRG	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 OTHER ENTITIES TO BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19 PASADENA TO BPA XCH NRG 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 PASADENA TO BPA XCH NRG 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21 PASADENA TO BPA PK REPL	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 PASADENA TO BPA SEAS RPLC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 RIVERSIDE TO BPA XCH NRG 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 RIVERSIDE TO BPA PK REPL 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 RIVERSIDE TO BPA PK REPL 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 RIVERSIDE TO BPA SEAS XCHG	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27 RIVERSIDE TO BPA XCH NRG 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 RIVERSIDE TO BPA PK REPL 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 SIERRA TO BPA HARNEY&WELLS	75	75	75	45	45	45	45	45	45	75	75	75	75	75
30 SCE TO BPA XCHG NRG	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31 SCE TO BPA SUPP NRG	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32 SCE TO BPA ENV STORAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 SCE TO BPA OPT NRG	0	0	0	0	0	0	230	230	273	273	0	0	0	0
34 SCE TO BPA PK REPL	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35 SCE TO PP&L PWR S	0	0	0	422	422	422	0	0	0	0	0	0	0	0
36 GLENDALE TO PGE SPX	0	0	0	0	30	30	30	30	0	0	0	0	0	0
37 PG&E TO PSE SPX	0	0	0	0	300	300	300	300	0	0	0	0	0	0
38 NCPA TO SCL SPX	0	0	0	0	25	46	46	46	46	12	12	0	0	0
39 IMPORTS FROM PSW	75	75	75	467	829	850	658	658	364	360	87	75	75	75

IMPORTS

1998 WHITE BOOK: 12/31/98

2003- 4 OPERATING YEAR

RUN DATE: 12/31/98

PEAK IN MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL
IMPORTS FROM CANADA	----	----	----	----	----	----	----	----	----	----	----	----	----	----
40 BC HYDRO TO PSE PWR S	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41 BC HYDRO TO SCL ROSS	142	142	143	143	97	118	149	182	208	143	143	143	143	143
42 POWEREX TO BENTON REA PWR S	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43 PWRX TO BPA (ABC) PK REP	22	22	22	0	0	0	0	0	0	0	0	0	0	0
44 PWRX TO BPA (P.ALTO) PK REP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45 POWEREX TO CLRWATER PWR S	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46 POWEREX TO EWEB PWR S	66	66	66	0	0	0	0	0	0	0	0	0	0	0
47 W KOOTENAY TO AVC PK REP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	----	----	----	----	----	----	----	----	----	----	----	----	----	----
48 IMPORTS FROM CANADA	230	230	231	143	97	118	149	182	208	143	143	143	143	143
TOTAL IMPORTS														
49 FEDERAL SYSTEM	110	110	139	153	213	267	471	427	435	438	165	75	93	109
50 PUBLIC AGENCIES	208	208	209	143	122	164	195	228	254	155	155	143	143	143
51 INVESTOR-OWNED UTILITIES	1480	1480	1005	1514	2042	1881	1522	1560	1266	978	978	1483	1637	1538
	----	----	----	----	----	----	----	----	----	----	----	----	----	----
52 TOTAL IMPORTS	1798	1798	1353	1810	2377	2312	2188	2215	1955	1571	1298	1701	1873	1790

NOTE: 1. BPA TO SCE: OPTION ENERGY IS INCLUDED THROUGH OY 2004.

2. THE FOLLOWING CONTRACTS ARE RESOURCE OPTIONS AND NOT INCLUDED THROUGH THE STUDY HORIZON.

A. BGP TO BPA: SUPPLEMENTAL ENERGY B. SCE TO BPA: SUPPLEMENTAL ENERGY

TABLE A-5

SHEET 1 OF 2

IMPORTS

1998 WHITE BOOK: 12/31/98

2008- 9 OPERATING YEAR

RUN DATE: 12/31/98

PEAK IN MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL
IMPORTS FROM EAST	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1 BASIN ELEC. TO BPA PWR S	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 PP&L (WY) TO BPA SO ID	13	13	42	108	161	215	189	145	117	90	90	0	18	34
3 IMPORTS FROM EAST	13	13	42	108	161	215	189	145	117	90	90	0	18	34
INTRA-COMPANY TRANSFERS FROM EAST														
4 PP&L (WY) TO PP&L	905	905	760	701	922	768	782	821	565	613	613	1091	1043	866
INTRA-COMPANY TRANSFERS FROM INLAND SOUTHWEST														
5 UTAH	480	480	371	289	260	241	296	293	267	253	253	289	502	549
IMPORTS FROM PSW														
6 ANAHEIM TO BPA XCHG NRG	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 ANAHEIM TO BPA PK REPL 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 ANAHEIM TO BPA PK REPL 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 AZUSA TO BPA PWR X	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 AZUSA TO BPA PK REPL	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 BANNING TO BPA PWR X	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12 BANNING TO BPA PK REPL	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 BURBANK TO BPA XCHG NRG	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 COLTON TO BPA PWR X	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 COLTON TO BPA PK REPL	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 BGP TO BPA SUPP NRG	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 GLENDALE TO BPA XCHG NRG	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 OTHER ENTITIES TO BPA	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19 PASADENA TO BPA XCH NRG 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 PASADENA TO BPA XCH NRG 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21 PASADENA TO BPA PK REPL	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 PASADENA TO BPA SEAS RPLC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 RIVERSIDE TO BPA XCH NRG 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 RIVERSIDE TO BPA PK REPL 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 RIVERSIDE TO BPA PK REPL 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 RIVERSIDE TO BPA SEAS XCHG	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27 RIVERSIDE TO BPA XCH NRG 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 RIVERSIDE TO BPA PK REPL 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 SIERRA TO BPA HARNEY&WELLS	75	75	75	45	45	45	45	45	45	75	75	75	75	75
30 SCE TO BPA XCHG NRG	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31 SCE TO BPA SUPP NRG	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32 SCE TO BPA ENV STORAGE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 SCE TO BPA OPT NRG	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 SCE TO BPA PK REPL	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35 SCE TO PP&L PWR S	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36 GLENDALE TO PGE SPX	0	0	0	0	30	30	30	30	0	0	0	0	0	0
37 PG&E TO PSE SPX	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38 NCPA TO SCL SPX	0	0	0	0	25	46	46	46	46	12	12	0	0	0
39 IMPORTS FROM PSW	75	75	75	45	100	121	121	121	91	87	87	75	75	75

IMPORTS

1998 WHITE BOOK: 12/31/98

2008- 9 OPERATING YEAR

RUN DATE: 12/31/98

PEAK IN MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL
IMPORTS FROM CANADA	----	----	----	----	----	----	----	----	----	----	----	----	----	----
40 BC HYDRO TO PSE PWR S	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41 BC HYDRO TO SCL ROSS	143	143	143	143	97	118	149	182	208	143	143	143	143	143
42 POWEREX TO BENTON REA PWR S	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43 PWRX TO BPA (ABC) PK REP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44 PWRX TO BPA (P.ALTO) PK REP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45 POWEREX TO CLRWATER PWR S	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46 POWEREX TO EWEB PWR S	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47 W KOOTENAY TO AVC PK REP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48 IMPORTS FROM CANADA	143	143	143	143	97	118	149	182	208	143	143	143	143	143
TOTAL IMPORTS														
49 FEDERAL SYSTEM	88	88	117	153	206	260	234	190	162	165	165	75	93	109
50 PUBLIC AGENCIES	143	143	143	143	122	164	195	228	254	155	155	143	143	143
51 INVESTOR-OWNED UTILITIES	1385	1385	1131	990	1212	1039	1108	1144	832	866	866	1380	1545	1415
52 TOTAL IMPORTS	1616	1616	1391	1286	1540	1463	1537	1562	1248	1186	1186	1598	1781	1667

NOTE: 1. BPA TO SCE: OPTION ENERGY IS INCLUDED THROUGH OY 2004.

2. THE FOLLOWING CONTRACTS ARE RESOURCE OPTIONS AND NOT INCLUDED THROUGH THE STUDY HORIZON.

A. BGP TO BPA: SUPPLEMENTAL ENERGY B. SCE TO BPA: SUPPLEMENTAL ENERGY

TABLE A-6

SMALL THERMAL AND MISCELLANEOUS RESOURCES

1998 WHITE BOOK: 12/31/98

1999-0 OPERATING YEAR

RUN DATE: 12/31/98

PEAK IN MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL
SMALL THERMAL AND MISCELLANEOUS RESOURCES														
-- PUBLIC AGENCIES --														
1 SCL BOUNDARY SCL	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2 STEAM PLANT 2 TPU	17	17	17	17	17	17	17	17	17	17	17	0	17	17
3 PUBLIC AGENCIES	18	18	18	18	18	18	18	18	18	18	18	1	18	18
-- INVESTOR-OWNED UTILITIES --														
4 ENERGY MGMT SYSTEMS IPC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 BIRD REGIONAL MPC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 CORETTE REGIONAL MPC	50	50	44	47	51	48	49	46	46	49	43	35	0	52
7 CRYSTAL MOUNTAIN PSE	0	0	0	0	3	3	3	3	0	0	0	0	0	0
8 SHUFFLETON PSE	0	0	0	0	88	88	88	88	0	0	0	0	0	0
9 INVESTOR-OWNED UTILITIES	50	50	44	47	142	139	140	137	46	49	43	35	0	52
TOTAL SMALL THERMAL & MISCELLANEOUS RESOURCES														
10 TOTAL SMALL THERMAL & MISC.	68	68	62	65	160	157	158	155	64	67	61	36	18	70

TABLE A-6

SMALL THERMAL AND MISCELLANEOUS RESOURCES

1998 WHITE BOOK: 12/31/98

2003- 4 OPERATING YEAR

RUN DATE: 12/31/98

PEAK IN MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL
SMALL THERMAL AND MISCELLANEOUS RESOURCES														
-- PUBLIC AGENCIES --														
1 SCL BOUNDARY SCL	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2 STEAM PLANT 2 TPU	17	17	17	17	17	17	17	17	17	17	17	0	17	17
3 PUBLIC AGENCIES	18	18	18	18	18	18	18	18	18	18	18	1	18	18
-- INVESTOR-OWNED UTILITIES --														
4 ENERGY MGMT SYSTEMS IPC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 BIRD REGIONAL MPC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 CORETTE REGIONAL MPC	61	61	55	58	62	59	65	63	57	62	54	47	0	57
7 CRYSTAL MOUNTAIN PSE	0	0	0	0	3	3	3	3	0	0	0	0	0	0
8 SHUFFLETON PSE	0	0	0	0	88	88	88	88	0	0	0	0	0	0
9 INVESTOR-OWNED UTILITIES	61	61	55	58	153	150	156	154	57	62	54	47	0	57
TOTAL SMALL THERMAL & MISCELLANEOUS RESOURCES														
10 TOTAL SMALL THERMAL & MISC.	79	79	73	76	171	168	174	172	75	80	72	48	18	75

TABLE A-6

SMALL THERMAL AND MISCELLANEOUS RESOURCES

1998 WHITE BOOK: 12/31/98

2008- 9 OPERATING YEAR

RUN DATE: 12/31/98

PEAK IN MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL
SMALL THERMAL AND MISCELLANEOUS RESOURCES														
-- PUBLIC AGENCIES --														
1 SCL BOUNDARY SCL	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2 STEAM PLANT 2 TPU	17	17	17	17	17	17	17	17	17	17	17	0	17	17
3 PUBLIC AGENCIES	18	18	18	18	18	18	18	18	18	18	18	1	18	18
-- INVESTOR-OWNED UTILITIES --														
4 ENERGY MGMT SYSTEMS IPC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 BIRD REGIONAL MPC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 CORETTE REGIONAL MPC	56	56	56	58	62	66	67	64	59	63	56	49	0	58
7 CRYSTAL MOUNTAIN PSE	0	0	0	0	3	3	3	3	0	0	0	0	0	0
8 SHUFFLETON PSE	0	0	0	0	88	88	88	88	0	0	0	0	0	0
9 INVESTOR-OWNED UTILITIES	56	56	56	58	153	157	158	155	59	63	56	49	0	58
TOTAL SMALL THERMAL & MISCELLANEOUS RESOURCES														
10 TOTAL SMALL THERMAL & MISC.	74	74	74	76	171	175	176	173	77	81	74	50	18	76

TABLE A-7

COMBUSTION TURBINES

1998 WHITE BOOK: 12/31/98

1999- 0 OPERATING YEAR

RUN DATE: 12/31/98

PEAK IN MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL
COMBUSTION TURBINES	----	----	----	----	----	----	----	----	----	----	----	----	----	----
-- PUBLIC AGENCIES --														
1 RIVER ROAD (COGNTRX) CLRK	231	231	235	240	242	245	252	250	247	247	247	244	240	236
-- INVESTOR-OWNED UTILITIES --														
2 BETHEL PGE	116	116	116	116	116	116	116	116	116	116	116	116	116	116
3 BEAVER PGE	500	500	500	500	500	500	500	500	500	0	500	500	500	500
4 WHIDBEY ISLAND PSE	0	0	0	0	29	29	29	29	0	0	0	0	0	0
5 WHITEHORN PSE	246	246	246	246	246	246	246	246	246	246	246	246	246	246
6 FREDRICKSON PSE	0	0	0	0	178	178	178	178	0	0	0	0	0	0
7 FREDONIA UNITS 1&2 PSE	0	0	0	0	247	247	247	247	0	0	0	0	0	0
8 NORTHEAST UNITS 1&2 AVC	69	69	69	69	69	69	69	69	69	69	69	69	69	69
9 INVESTOR-OWNED UTILITIES	931	931	931	931	1385	1385	1385	1385	931	431	931	931	931	931
TOTAL COMBUSTION TURBINES														
10 TOTAL COMBUSTION TURBINES	1162	1162	1166	1171	1627	1630	1637	1635	1178	678	1178	1175	1171	1167

TABLE A-7

COMBUSTION TURBINES

1998 WHITE BOOK: 12/31/98

2003- 4 OPERATING YEAR

RUN DATE: 12/31/98

PEAK IN MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL
COMBUSTION TURBINES	----	----	----	----	----	----	----	----	----	----	----	----	----	----
-- PUBLIC AGENCIES --														
1 RIVER ROAD (COGNTRX) CLRK	235	235	239	245	247	249	247	245	242	242	242	239	235	231
-- INVESTOR-OWNED UTILITIES --														
2 BETHEL PGE	116	116	116	116	116	116	116	116	116	116	116	116	116	116
3 BEAVER PGE	500	500	500	500	500	500	500	500	500	0	500	500	500	500
4 WHIDBEY ISLAND PSE	0	0	0	0	29	29	29	29	0	0	0	0	0	0
5 WHITEHORN PSE	246	246	246	246	246	246	246	246	246	246	246	246	246	246
6 FREDRICKSON PSE	0	0	0	0	178	178	178	178	0	0	0	0	0	0
7 FREDONIA UNITS 1&2 PSE	0	0	0	0	247	247	247	247	0	0	0	0	0	0
8 NORTHEAST UNITS 1&2 AVC	69	69	69	69	69	69	69	69	69	69	69	69	69	69
9 INVESTOR-OWNED UTILITIES	931	931	931	931	1385	1385	1385	1385	931	431	931	931	931	931
TOTAL COMBUSTION TURBINES														
10 TOTAL COMBUSTION TURBINES	1166	1166	1170	1176	1632	1634	1632	1630	1173	673	1173	1170	1166	1162

TABLE A-7

COMBUSTION TURBINES

1998 WHITE BOOK: 12/31/98

2008- 9 OPERATING YEAR

RUN DATE: 12/31/98

PEAK IN MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL
COMBUSTION TURBINES	----	----	----	----	----	----	----	----	----	----	----	----	----	----
-- PUBLIC AGENCIES --														
1 RIVER ROAD (COGNTRX) CLRK	228	228	231	237	239	241	251	249	246	246	246	243	239	235
-- INVESTOR-OWNED UTILITIES --														
2 BETHEL PGE	116	116	116	116	116	116	116	116	116	116	116	116	116	116
3 BEAVER PGE	500	500	500	500	500	500	500	500	500	0	500	500	500	500
4 WHIDBEY ISLAND PSE	0	0	0	0	29	29	29	29	0	0	0	0	0	0
5 WHITEHORN PSE	246	246	246	246	246	246	246	246	246	246	246	246	246	246
6 FREDRICKSON PSE	0	0	0	0	178	178	178	178	0	0	0	0	0	0
7 FREDONIA UNITS 1&2 PSE	0	0	0	0	247	247	247	247	0	0	0	0	0	0
8 NORTHEAST UNITS 1&2 AVC	69	69	69	69	69	69	69	69	69	69	69	69	69	69
9 INVESTOR-OWNED UTILITIES	931	931	931	931	1385	1385	1385	1385	931	431	931	931	931	931
TOTAL COMBUSTION TURBINES														
10 TOTAL COMBUSTION TURBINES	1159	1159	1162	1168	1624	1626	1636	1634	1177	677	1177	1174	1170	1166

TABLE A-8

RENEWABLE RESOURCES

1998 WHITE BOOK: 12/31/98

1999- 0 OPERATING YEAR

RUN DATE: 12/31/98

PEAK IN MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL
RENEWABLE RESOURCES														
-- FEDERAL SYSTEM --														
1 JR WAUNA	27	27	27	28	29	31	32	31	31	30	30	27	27	27
-- PUBLIC AGENCIES --														
2 SHORT MOUNTAIN EMERALD	4	4	4	4	4	4	4	4	4	4	4	4	4	4
3 COFFIN BUTTE CONSUMERS	2	2	2	2	2	2	2	2	2	2	2	2	2	2
4 PUBLIC AGENCIES	6	6	6	6	6	6	6	6	6	6	6	6	6	6
-- INVESTOR-OWNED UTILITIES --														
5 KETTLE FALLS AVC	48	48	48	48	48	48	48	48	48	48	48	0	48	48
TOTAL RENEWABLE RESOURCES														
6 TOTAL RENEWABLE RESOURCES	81	81	81	82	83	85	86	85	85	84	84	33	81	81

TABLE A-8

RENEWABLE RESOURCES

1998 WHITE BOOK: 12/31/98

2003- 4 OPERATING YEAR

RUN DATE: 12/31/98

PEAK IN MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL
RENEWABLE RESOURCES														
-- FEDERAL SYSTEM --														
1 JR WAUNA	27	27	27	28	29	31	32	31	31	30	30	27	27	27
-- PUBLIC AGENCIES --														
2 SHORT MOUNTAIN EMERALD	5	5	5	5	5	5	5	5	5	5	5	5	5	5
3 COFFIN BUTTE CONSUMERS	2	2	2	2	2	2	2	2	2	2	2	2	2	2
4 PUBLIC AGENCIES	7	7	7	7	7	7	7	7	7	7	7	7	7	7
-- INVESTOR-OWNED UTILITIES --														
5 KETTLE FALLS AVC	48	48	48	48	48	48	48	48	48	48	48	0	48	48
TOTAL RENEWABLE RESOURCES														
6 TOTAL RENEWABLE RESOURCES	82	82	82	83	84	86	87	86	86	85	85	34	82	82

TABLE A-8

RENEWABLE RESOURCES

1998 WHITE BOOK: 12/31/98

2008- 9 OPERATING YEAR

RUN DATE: 12/31/98

PEAK IN MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL
RENEWABLE RESOURCES	----	----	----	----	----	----	----	----	----	----	----	----	----	----
-- FEDERAL SYSTEM --														
1 JR WAUNA	27	27	27	28	29	31	32	31	31	30	30	27	27	27
-- PUBLIC AGENCIES --														
2 SHORT MOUNTAIN EMERALD	5	5	5	5	5	5	5	5	5	5	5	5	5	5
3 COFFIN BUTTE CONSUMERS	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	----	----	----	----	----	----	----	----	----	----	----	----	----	----
4 PUBLIC AGENCIES	7	7	7	7	7	7	7	7	7	7	7	7	7	7
-- INVESTOR-OWNED UTILITIES --														
5 KETTLE FALLS AVC	48	48	48	48	48	48	48	48	48	48	48	0	48	48
TOTAL RENEWABLE RESOURCES														
6 TOTAL RENEWABLE RESOURCES	82	82	82	83	84	86	87	86	86	85	85	34	82	82

TABLE A-9

COGENERATION
1998 WHITE BOOK: 12/31/98
1999-0 OPERATING YEAR RUN DATE: 12/31/98

PEAK IN MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL
COGENERATION														
-- PUBLIC AGENCIES --														
1 WEYCO ENERGY CENTER EWEB	20	20	20	20	20	0	20	20	20	20	20	20	20	0
2 PUBLIC AGENCIES	20	20	20	20	20	0	20	20	20	20	20	20	20	0
-- INVESTOR-OWNED UTILITIES --														
3 COYOTE SPRINGS PGE	241	241	241	241	241	241	241	241	241	241	241	241	241	241
4 HERMISTON PP&L	469	469	469	469	469	469	469	469	469	469	469	0	469	469
5 INVESTOR-OWNED UTILITIES	710	710	710	710	710	710	710	710	710	710	710	241	710	710
-- OTHER ENTITIES --														
6 LONGVIEW FIBRE FOR WAPA *	45	45	45	45	45	45	45	45	45	45	45	45	45	45
TOTAL COGENERATION														
7 TOTAL COGENERATION	775	775	775	775	775	755	775	775	775	775	775	306	775	755

TABLE A-9

COGENERATION

1998 WHITE BOOK: 12/31/98

2003- 4 OPERATING YEAR

RUN DATE: 12/31/98

PEAK IN MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL
COGENERATION														
-- PUBLIC AGENCIES --														
1 WEYCO ENERGY CENTER EWEB	20	20	20	20	20	0	20	20	20	20	20	20	20	0
2 PUBLIC AGENCIES	20	20	20	20	20	0	20	20	20	20	20	20	20	0
-- INVESTOR-OWNED UTILITIES --														
3 COYOTE SPRINGS PGE	241	241	241	241	241	241	241	241	241	241	241	241	241	241
4 HERMISTON PP&L	469	469	469	469	469	469	469	469	469	469	469	0	469	469
5 INVESTOR-OWNED UTILITIES	710	710	710	710	710	710	710	710	710	710	710	241	710	710
-- OTHER ENTITIES --														
6 LONGVIEW FIBRE FOR WAPA *	45	45	45	45	45	45	45	45	45	45	45	45	45	45
TOTAL COGENERATION														
7 TOTAL COGENERATION	775	775	775	775	775	755	775	775	775	775	775	306	775	755

TABLE A-9

COGENERATION

1998 WHITE BOOK: 12/31/98

2008- 9 OPERATING YEAR

RUN DATE: 12/31/98

PEAK IN MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL
COGENERATION														
-- PUBLIC AGENCIES --														
1 WEYCO ENERGY CENTER EWEB	20	20	20	20	20	0	20	20	20	20	20	20	20	0
	----	----	----	----	----	----	----	----	----	----	----	----	----	----
2 PUBLIC AGENCIES	20	20	20	20	20	0	20	20	20	20	20	20	20	0
-- INVESTOR-OWNED UTILITIES --														
3 COYOTE SPRINGS PGE	241	241	241	241	241	241	241	241	241	241	241	241	241	241
4 HERMISTON PP&L	469	469	469	469	469	469	469	469	469	469	469	0	469	469
	----	----	----	----	----	----	----	----	----	----	----	----	----	----
5 INVESTOR-OWNED UTILITIES	710	710	710	710	710	710	710	710	710	710	710	241	710	710
-- OTHER ENTITIES --														
6 LONGVIEW FIBRE FOR WAPA *	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL COGENERATION														
7 TOTAL COGENERATION	730	730	730	730	730	710	730	730	730	730	730	261	730	710

LARGE THERMAL
1998 WHITE BOOK: 12/31/98
1999- 0 OPERATING YEAR RUN DATE: 12/31/98

PEAK IN MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL
LARGE THERMAL	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BOARDMAN: COAL														
1 IPC SHARE 10.0 %	53	53	53	53	53	53	53	53	53	53	53	0	53	53
2 PGE SHARE 65.2 %	346	346	346	346	346	346	346	346	346	346	346	0	346	346
	----	----	----	----	----	----	----	----	----	----	----	----	----	----
3 BOARDMAN (75.8% REGION)	399	399	399	399	399	399	399	399	399	399	399	0	399	399
-- NON-NORTHWEST UTILITIES SHARE --														
4 SDG&E SHARE 14.8 % *	79	79	79	79	79	79	79	79	79	79	79	0	79	79
5 TURLOCK SHARE 10.0 % *	53	53	53	53	53	53	53	53	53	53	53	0	53	53
	----	----	----	----	----	----	----	----	----	----	----	----	----	----
6 BOARDMAN (24.2% NON-REGION)	132	132	132	132	132	132	132	132	132	132	132	0	132	132
7 BOARDMAN TOTAL	531	531	531	531	531	531	531	531	531	531	531	0	531	531
CENTRALIA: COAL														
8 PP&L SHARE 47.5 %	637	637	637	637	637	637	637	637	637	637	637	318	637	637
9 PGE SHARE 2.5 %	33	33	33	33	33	33	33	33	33	33	33	17	33	33
10 PSE SHARE 7.0 %	94	94	94	94	94	94	94	94	94	94	94	47	94	94
11 SCL SHARE 8.0 %	107	107	107	107	107	107	107	107	107	107	107	54	107	107
12 TPU SHARE 8.0 %	107	107	107	107	107	107	107	107	107	107	107	54	107	107
13 AVC SHARE 15.0 %	201	201	201	201	201	201	201	201	201	201	201	100	201	201
14 SNOHOM SHARE 8.0 %	107	107	107	107	107	107	107	107	107	107	107	53	107	107
15 GHARBOR SHARE 4.0%	54	54	54	54	54	54	54	54	54	54	54	27	54	54
	----	----	----	----	----	----	----	----	----	----	----	----	----	----
16 CENTRALIA TOTAL	1340	1340	1340	1340	1340	1340	1340	1340	1340	1340	1340	670	1340	1340
COLSTRIP 1 & 2: COAL														
17 MPC SHARE IN REGION	102	102	90	96	104	98	100	94	94	50	87	35	77	105
18 PSE SHARE	307	307	307	307	307	307	307	307	307	154	307	154	307	307
	----	----	----	----	----	----	----	----	----	----	----	----	----	----
19 COLSTRIP 1 & 2 REGION TOTAL	409	409	397	403	411	405	406	401	401	203	394	189	384	412
COLSTRIP 3: COAL														
20 MPC SHARE IN REGION	74	74	65	69	75	71	72	68	68	72	63	51	55	76
21 PP&L SHARE 10 %	74	74	74	74	74	74	74	74	74	74	74	74	74	74
22 PGE SHARE 20 %	148	148	148	148	148	148	148	148	148	148	148	148	148	148
23 PSE SHARE 25 %	185	185	185	185	185	185	185	185	185	185	185	185	185	185
24 AVC SHARE 15 %	111	111	111	111	111	111	111	111	111	111	111	111	111	111
	----	----	----	----	----	----	----	----	----	----	----	----	----	----
25 COLSTRIP 3 REGIONAL TOTAL	592	592	583	587	593	589	590	586	586	590	581	569	573	594

LARGE THERMAL

1998 WHITE BOOK: 12/31/98

1999- 0 OPERATING YEAR

RUN DATE: 12/31/98

PEAK IN MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL
LARGE THERMAL	----	----	----	----	----	----	----	----	----	----	----	----	----	----
COLSTRIP 4: COAL														
26 MPC SHARE 30 %	222	222	222	222	222	222	222	222	222	222	0	222	222	222
27 PP&L SHARE 10 %	74	74	74	74	74	74	74	74	74	74	0	74	74	74
28 PGE SHARE 20 %	148	148	148	148	148	148	148	148	148	148	0	148	148	148
29 PSE SHARE 25 %	185	185	185	185	185	185	185	185	185	185	0	185	185	185
30 AVC SHARE 15 %	111	111	111	111	111	111	111	111	111	111	0	111	111	111
	----	----	----	----	----	----	----	----	----	----	----	----	----	----
31 COLSTRIP 4 REGIONAL TOTAL	740	740	740	740	740	740	740	740	740	740	0	740	740	740
JIM BRIDGER: COAL														
32 IPC SHARE 33%	707	707	707	706	707	707	707	706	707	530	354	530	707	706
VALMY: COAL														
33 IPC SHARE 50%	242	242	242	242	242	242	242	242	242	242	242	242	242	242
WNP 2: NUCLEAR														
34 FEDERAL SHARE 100%	1162	1162	0	0	1162	1162	1162	1162	1162	1162	1162	1162	1162	1162
	----	----	----	----	----	----	----	----	----	----	----	----	----	----
35 TOTAL LARGE THERMAL	5723	5723	4540	4549	5726	5716	5718	5708	5709	5338	4604	4102	5679	5727
TOTAL LARGE THERMAL														
36 FEDERAL SYSTEM	1162	1162	0	0	1162	1162	1162	1162	1162	1162	1162	1162	1162	1162
37 PUBLIC AGENCIES	375	375	375	375	375	375	375	375	375	375	375	188	375	375
38 INVESTOR-OWNED UTILITIES	4054	4054	4033	4042	4057	4047	4049	4039	4040	3669	2935	2752	4010	4058
39 NON-NORTHWEST UTILITIES *	132	132	132	132	132	132	132	132	132	132	132	0	132	132
	----	----	----	----	----	----	----	----	----	----	----	----	----	----
40 TOTAL LARGE THERMAL	5723	5723	4540	4549	5726	5716	5718	5708	5709	5338	4604	4102	5679	5727

LARGE THERMAL
1998 WHITE BOOK: 12/31/98
2003- 4 OPERATING YEAR RUN DATE: 12/31/98

PEAK IN MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL
LARGE THERMAL	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BOARDMAN: COAL														
1 IPC SHARE 10.0 %	53	53	53	53	53	53	53	53	53	53	53	0	53	53
2 PGE SHARE 65.2 %	346	346	346	346	346	346	346	346	346	346	346	0	346	346
3 BOARDMAN (75.8% REGION)	399	399	399	399	399	399	399	399	399	399	399	0	399	399
-- NON-NORTHWEST UTILITIES SHARE --														
4 SDG&E SHARE 14.8 % *	79	79	79	79	79	79	79	79	79	79	79	0	79	79
5 TURLOCK SHARE 10.0 % *	53	53	53	53	53	53	53	53	53	53	53	0	53	53
6 BOARDMAN (24.2% NON-REGION)	132	132	132	132	132	132	132	132	132	132	132	0	132	132
7 BOARDMAN TOTAL	531	531	531	531	531	531	531	531	531	531	531	0	531	531
CENTRALIA: COAL														
8 PP&L SHARE 47.5 %	637	637	637	637	637	637	637	637	637	318	318	637	637	637
9 PGE SHARE 2.5 %	33	33	33	33	33	33	33	33	33	17	17	33	33	33
10 PSE SHARE 7.0 %	94	94	94	94	94	94	94	94	94	47	47	94	94	94
11 SCL SHARE 8.0 %	107	107	107	107	107	107	107	107	107	54	54	107	107	107
12 TPU SHARE 8.0 %	107	107	107	107	107	107	107	107	107	54	54	107	107	107
13 AVC SHARE 15.0 %	201	201	201	201	201	201	201	201	201	100	100	201	201	201
14 SNOHOM SHARE 8.0 %	107	107	107	107	107	107	107	107	107	53	53	107	107	107
15 GHARBOR SHARE 4.0%	54	54	54	54	54	54	54	54	54	27	27	54	54	54
16 CENTRALIA TOTAL	1340	1340	1340	1340	1340	1340	1340	1340	1340	670	670	1340	1340	1340
COLSTRIP 1 & 2: COAL														
17 MPC SHARE IN REGION	124	124	112	118	126	120	133	129	117	63	110	48	101	115
18 PSE SHARE	307	307	307	307	307	307	307	307	307	154	307	154	307	307
19 COLSTRIP 1 & 2 REGION TOTAL	431	431	419	425	433	427	440	435	424	216	417	202	408	422
COLSTRIP 3: COAL														
20 MPC SHARE IN REGION	89	89	81	85	91	87	96	93	84	91	80	70	73	84
21 PP&L SHARE 10 %	74	74	74	74	74	74	74	74	74	74	74	74	74	74
22 PGE SHARE 20 %	148	148	148	148	148	148	148	148	148	148	148	148	148	148
23 PSE SHARE 25 %	185	185	185	185	185	185	185	185	185	185	185	185	185	185
24 AVC SHARE 15 %	111	111	111	111	111	111	111	111	111	111	111	111	111	111
25 COLSTRIP 3 REGIONAL TOTAL	607	607	599	603	609	605	614	611	602	609	598	588	591	602

LARGE THERMAL

1998 WHITE BOOK: 12/31/98

2003- 4 OPERATING YEAR

RUN DATE: 12/31/98

PEAK IN MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL
LARGE THERMAL	----	----	----	----	----	----	----	----	----	----	----	----	----	----
COLSTRIP 4: COAL														
26 MPC SHARE 30 %	222	222	222	222	222	222	222	222	222	222	0	222	222	222
27 PP&L SHARE 10 %	74	74	74	74	74	74	74	74	74	74	0	74	74	74
28 PGE SHARE 20 %	148	148	148	148	148	148	148	148	148	148	0	148	148	148
29 PSE SHARE 25 %	185	185	185	185	185	185	185	185	185	185	0	185	185	185
30 AVC SHARE 15 %	111	111	111	111	111	111	111	111	111	111	0	111	111	111
	----	----	----	----	----	----	----	----	----	----	----	----	----	----
31 COLSTRIP 4 REGIONAL TOTAL	740	740	740	740	740	740	740	740	740	740	0	740	740	740
JIM BRIDGER: COAL														
32 IPC SHARE 33%	707	707	707	707	707	707	707	707	353	706	707	706	707	707
VALMY: COAL														
33 IPC SHARE 50%	242	242	242	242	242	242	242	242	242	121	121	242	242	242
WNP 2: NUCLEAR														
34 FEDERAL SHARE 100%	1162	1162	1162	1162	1162	1162	1162	1162	1162	1162	1162	1162	1162	1162
	----	----	----	----	----	----	----	----	----	----	----	----	----	----
35 TOTAL LARGE THERMAL	5760	5760	5740	5750	5764	5754	5776	5768	5394	4755	4206	4980	5721	5746
TOTAL LARGE THERMAL														
36 FEDERAL SYSTEM	1162	1162	1162	1162	1162	1162	1162	1162	1162	1162	1162	1162	1162	1162
37 PUBLIC AGENCIES	375	375	375	375	375	375	375	375	375	188	188	375	375	375
38 INVESTOR-OWNED UTILITIES	4091	4091	4071	4081	4095	4085	4107	4099	3725	3273	2724	3443	4052	4077
39 NON-NORTHWEST UTILITIES *	132	132	132	132	132	132	132	132	132	132	132	0	132	132
	----	----	----	----	----	----	----	----	----	----	----	----	----	----
40 TOTAL LARGE THERMAL	5760	5760	5740	5750	5764	5754	5776	5768	5394	4755	4206	4980	5721	5746

LARGE THERMAL
1998 WHITE BOOK: 12/31/98
2008- 9 OPERATING YEAR RUN DATE: 12/31/98

PEAK IN MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL
LARGE THERMAL	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BOARDMAN: COAL														
1 IPC SHARE 10.0 %	53	53	53	53	53	53	53	53	53	53	53	0	53	53
2 PGE SHARE 65.2 %	346	346	346	346	346	346	346	346	346	346	346	0	346	346
3 BOARDMAN (75.8% REGION)	399	399	399	399	399	399	399	399	399	399	399	0	399	399
-- NON-NORTHWEST UTILITIES SHARE --														
4 SDG&E SHARE 14.8 % *	79	79	79	79	79	79	79	79	79	79	79	0	79	79
5 TURLOCK SHARE 10.0 % *	53	53	53	53	53	53	53	53	53	53	53	0	53	53
6 BOARDMAN (24.2% NON-REGION)	132	132	132	132	132	132	132	132	132	132	132	0	132	132
7 BOARDMAN TOTAL	531	531	531	531	531	531	531	531	531	531	531	0	531	531
CENTRALIA: COAL														
8 PP&L SHARE 47.5 %	637	637	637	637	637	637	637	637	637	637	637	318	637	637
9 PGE SHARE 2.5 %	33	33	33	33	33	33	33	33	33	33	33	17	33	33
10 PSE SHARE 7.0 %	94	94	94	94	94	94	94	94	94	94	94	47	94	94
11 SCL SHARE 8.0 %	107	107	107	107	107	107	107	107	107	107	107	54	107	107
12 TPU SHARE 8.0 %	107	107	107	107	107	107	107	107	107	107	107	54	107	107
13 AVC SHARE 15.0 %	201	201	201	201	201	201	201	201	201	201	201	100	201	201
14 SNOHOM SHARE 8.0 %	107	107	107	107	107	107	107	107	107	107	107	53	107	107
15 GHARBOR SHARE 4.0%	54	54	54	54	54	54	54	54	54	54	54	27	54	54
16 CENTRALIA TOTAL	1340	1340	1340	1340	1340	1340	1340	1340	1340	1340	1340	670	1340	1340
COLSTRIP 1 & 2: COAL														
17 MPC SHARE IN REGION	114	114	114	119	127	134	136	131	120	64	113	50	104	118
18 PSE SHARE	307	307	307	307	307	307	307	307	307	154	307	154	307	307
19 COLSTRIP 1 & 2 REGION TOTAL	420	420	420	426	434	441	443	438	427	218	420	203	411	425
COLSTRIP 3: COAL														
20 MPC SHARE IN REGION	82	82	82	86	92	97	98	95	86	93	82	72	75	85
21 PP&L SHARE 10 %	74	74	74	74	74	74	74	74	74	74	74	74	74	74
22 PGE SHARE 20 %	148	148	148	148	148	148	148	148	148	148	148	148	148	148
23 PSE SHARE 25 %	185	185	185	185	185	185	185	185	185	185	185	185	185	185
24 AVC SHARE 15 %	111	111	111	111	111	111	111	111	111	111	111	111	111	111
25 COLSTRIP 3 REGIONAL TOTAL	600	600	600	604	610	615	616	613	604	611	600	590	593	603

LARGE THERMAL

1998 WHITE BOOK: 12/31/98

2008- 9 OPERATING YEAR

RUN DATE: 12/31/98

PEAK IN MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL
LARGE THERMAL	----	----	----	----	----	----	----	----	----	----	----	----	----	----
COLSTRIP 4: COAL														
26 MPC SHARE 30 %	222	222	222	222	222	222	222	222	222	222	0	222	222	222
27 PP&L SHARE 10 %	74	74	74	74	74	74	74	74	74	74	0	74	74	74
28 PGE SHARE 20 %	148	148	148	148	148	148	148	148	148	148	0	148	148	148
29 PSE SHARE 25 %	185	185	185	185	185	185	185	185	185	185	0	185	185	185
30 AVC SHARE 15 %	111	111	111	111	111	111	111	111	111	111	0	111	111	111
	----	----	----	----	----	----	----	----	----	----	----	----	----	----
31 COLSTRIP 4 REGIONAL TOTAL	740	740	740	740	740	740	740	740	740	740	0	740	740	740
JIM BRIDGER: COAL														
32 IPC SHARE 33%	707	707	707	707	707	707	706	706	530	706	353	707	707	707
VALMY: COAL														
33 IPC SHARE 50%	242	242	242	242	242	242	242	242	242	121	121	242	242	242
WNP 2: NUCLEAR														
34 FEDERAL SHARE 100%	1162	1162	1162	1162	1162	1162	1162	1162	1162	1162	0	0	1162	1162
	----	----	----	----	----	----	----	----	----	----	----	----	----	----
35 TOTAL LARGE THERMAL	5742	5742	5742	5752	5766	5778	5780	5772	5576	5429	3365	3152	5726	5750
TOTAL LARGE THERMAL														
36 FEDERAL SYSTEM	1162	1162	1162	1162	1162	1162	1162	1162	1162	1162	0	0	1162	1162
37 PUBLIC AGENCIES	375	375	375	375	375	375	375	375	375	375	375	188	375	375
38 INVESTOR-OWNED UTILITIES	4073	4073	4073	4083	4097	4109	4111	4103	3907	3760	2858	2964	4057	4081
39 NON-NORTHWEST UTILITIES *	132	132	132	132	132	132	132	132	132	132	132	0	132	132
	----	----	----	----	----	----	----	----	----	----	----	----	----	----
40 TOTAL LARGE THERMAL	5742	5742	5742	5752	5766	5778	5780	5772	5576	5429	3365	3152	5726	5750

CANADIAN ENTITLEMENT RETURN FOR CSPE
EXPIRING APRIL 1 2003

1998 WHITE BOOK: 12/31/98

1999-0 OPERATING YEAR

RUN DATE: 12/31/98

PEAK IN MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL
	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ROCKY REACH CER FOR CSPE OBLIGATION														
30 PP&L TO BPA CER(CSPE) RRH	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31 PGE TO BPA CER(CSPE) RRH	2	2	2	2	2	2	2	2	2	1	1	1	1	1
32 PSE TO BPA CER(CSPE) RRH	5	5	5	5	5	5	5	5	5	5	5	5	5	5
33 AVC TO BPA CER(CSPE) RRH	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 DOUGLS TO BPA CER(CSPE) RRH	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35 CHELAN TO BPA CER(CSPE) RRH	2	2	2	2	2	2	2	2	2	2	2	2	2	2
36 COLOCK TO BPA CER(CSPE) RRH	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	----	----	----	----	----	----	----	----	----	----	----	----	----	----
37 RRH CER(CSPE) OBLIGATION	13	13	13	13	13	13	13	13	13	12	12	12	12	12
WELLS CER FOR CSPE OBLIGATION														
38 PP&L TO BPA CER(CSPE) WEL	1	1	1	1	1	1	1	1	1	1	1	1	1	1
39 PGE TO BPA CER(CSPE) WEL	2	2	2	2	2	2	2	2	2	2	2	2	2	2
40 PSE TO BPA CER(CSPE) WEL	3	3	3	3	3	3	3	3	3	3	3	3	3	3
41 AVC TO BPA CER(CSPE) WEL	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42 DOUGLS TO BPA CER(CSPE) WEL	2	2	2	2	2	2	2	2	2	2	2	2	2	2
43 OKANOG TO BPA CER(CSPE) WEL	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	----	----	----	----	----	----	----	----	----	----	----	----	----	----
44 WEL CER(CSPE) OBLIGATION	9	9	9	9	9	9	9	9	9	9	9	9	9	9
45 TOTAL CER(CSPE) OBLIGATION	200	200	200	200	200	200	200	200	200	192	192	192	192	192
TOTAL CER FOR CSPE OBLIGATION														
46 FEDERAL SYSTEM	154	154	154	154	154	154	154	154	154	149	149	149	149	149
47 PUBLIC AGENCIES	16	16	16	16	16	16	16	16	16	16	16	16	16	17
48 INVESTOR-OWNED UTILITIES	27	27	27	27	27	27	27	27	27	24	24	24	24	23
49 OTHER ENTITIES	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	----	----	----	----	----	----	----	----	----	----	----	----	----	----
50 TOTAL CER FOR CSPE	200	200	200	200	200	200	200	200	200	192	192	192	192	192

TABLE A-13

COLUMBIA STORAGE POWER EXCHANGE (CSPE) PURCHASE
EXPIRING APRIL 1 2003

1998 WHITE BOOK: 12/31/98

1999-0 OPERATING YEAR

RUN DATE: 12/31/98

PEAK IN MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL
	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CSPE PURCHASE														
-- PUBLIC AGENCIES --														
1 BPA TO CHELAN CSPE	2	2	2	2	2	2	2	2	2	2	2	2	2	2
2 BPA TO CLARK CSPE	6	6	6	6	6	6	6	6	6	6	6	6	6	6
3 BPA TO COWLITZ CSPE	5	5	5	5	5	5	5	5	5	5	5	5	5	5
4 BPA TO DOUGLAS CSPE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 BPA TO EWEB CSPE	11	11	11	11	11	11	11	11	11	10	10	10	10	10
6 BPA TO GRANT CSPE	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7 BPA TO GRAYS HARBOR CSPE	3	3	3	3	3	3	3	3	3	3	3	3	3	3
8 BPA TO PEND O CSPE	1	1	1	1	1	1	1	1	1	0	0	0	0	0
9 BPA TO SCL CSPE	25	25	25	25	25	25	25	25	25	24	24	24	24	24
10 BPA TO SNOHOMISH CSPE	3	3	3	3	3	3	3	3	3	3	3	3	3	3
11 BPA TO SUB CSPE	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12 BPA TO TPU CSPE	25	25	25	25	25	25	25	25	25	24	24	24	24	24
13 BPA TO SMALL NGP CSPE	17	17	17	17	17	17	17	17	17	17	17	17	17	17
	----	----	----	----	----	----	----	----	----	----	----	----	----	----
14 TOTAL BPA TO PUBLIC	100	100	100	100	100	100	100	100	100	96	96	96	96	96
-- INVESTOR-OWNED UTILITIES --														
15 BPA TO AVC	10	10	10	10	10	10	10	10	10	10	10	10	10	10
16 BPA TO PGE	35	35	35	35	35	35	35	35	35	34	34	34	34	34
17 BPA TO PPL	20	20	20	20	20	20	20	20	20	19	19	19	19	19
18 BPA TO PSE	35	35	35	35	35	35	35	35	35	33	33	33	33	33
	----	----	----	----	----	----	----	----	----	----	----	----	----	----
19 TOTAL BPA TO IOU	100	100	100	100	100	100	100	100	100	96	96	96	96	96
TOTAL CSPE PURCHASE														
20 TOTAL CSPE PURCHASE	200	200	200	200	200	200	200	200	200	192	192	192	192	192

SUPPLEMENTAL AND ENTITLEMENT CAPACITY
EXPIRING APRIL 1 2003

1998 WHITE BOOK: 12/31/98

1999- 0 OPERATING YEAR

RUN DATE: 12/31/98

PEAK IN MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL
	----	----	----	----	----	----	----	----	----	----	----	----	----	----
SUPPLEMENTAL AND ENTITLEMENT CAPACITY														
-- PUBLIC AGENCIES --														
1 BPA TO CHELAN SUP CAP	4	4	4	4	4	4	4	4	4	4	4	4	4	6
2 BPA TO COWLITZ SUP CAP	0	0	0	0	0	0	0	0	0	2	2	2	2	2
3 BPA TO DOUGLAS SUP CAP	4	4	4	4	4	4	4	4	4	4	4	4	4	4
4 BPA TO EWEB SUP CAP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 BPA TO GRANT SUP CAP	18	18	18	18	18	18	18	18	18	16	16	16	16	16
6 BPA TO OKANOGAN SUP CAP	2	2	2	2	2	2	2	2	2	2	2	2	2	2
7 BPA TO SCL SUP CAP	2	2	2	2	2	2	2	2	2	2	2	2	2	2
8 BPA TO TPU SUP CAP	2	2	2	2	2	2	2	2	2	2	2	2	2	2
9 BPA TO FGROVE SUP CAP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 BPA TO MCMINN SUP CAP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 BPA TO MFREE SUP CAP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12 BPA TO KITTTITAS SUP CAP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 BPA TO PGE SUP CAP	16	16	16	16	16	16	16	16	16	12	12	12	12	12
14 BPA TO PPL SUP CAP	12	12	12	12	12	12	12	12	12	10	10	10	10	10
15 BPA TO PSE SUP CAP	22	22	22	22	22	22	22	22	22	22	22	22	22	20
16 BPA TO AVC SUP CAP	4	4	4	4	4	4	4	4	4	4	4	4	4	4
17 BPA TO COLOCKUM SUP CAP	6	6	6	6	6	6	6	6	6	6	6	6	6	6
18 CHELAN TO BPA SUP REP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19 COWLITZ TO BPA SUP REP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 DOUGLAS TO BPA SUP REP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21 EWEB TO BPA SUP REP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 GRANT TO BPA SUP REP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 OKANOGAN TO BPA SUP REP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 SCL TO BPA SUP REP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 TPU TO BPA SUP REP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 FGROVE TO BPA SUP REP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27 MCMINN TO BPA SUP REP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 MFREE TO BPA SUP REP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 KITTTITAS TO BPA SUP REP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30 PGE TO BPA SUP REP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31 PPL TO BPA SUP REP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32 PSE TO BPA SUP REP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 AVC TO BPA SUP REP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 COLOCKUM TO BPA SUP REP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35 TOTAL SUPP & ENT CAPACITY	92	92	92	92	92	92	92	92	92	86	86	86	86	86

SUPPLEMENTAL AND ENTITLEMENT CAPACITY
EXPIRING APRIL 1 2003

1998 WHITE BOOK: 12/31/98

1999-0 OPERATING YEAR

RUN DATE: 12/31/98

PEAK IN MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL
	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TOTAL SUPP & ENT CAPACITY CONTRACTS OUT														
36 FEDERAL SUPP & ENT CAP OUT	92	92	92	92	92	92	92	92	92	86	86	86	86	86
37 PUBLIC SUPP & ENT CAP OUT	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38 IOU SUPP & ENT CAP OUT	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39 OTHER SUPP & ENT CAP OUT	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	----	----	----	----	----	----	----	----	----	----	----	----	----	----
40 TOTAL SUPP & ENT CAP OUT	92	92	92	92	92	92	92	92	92	86	86	86	86	86
TOTAL SUPP & ENT CAPACITY CONTRACTS IN														
41 FEDERAL SUPP & ENT CAP IN	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42 PUBLIC SUP & ENT CAP IN	32	32	32	32	32	32	32	32	32	32	32	32	32	34
43 IOU SUPP & ENT CAP IN	54	54	54	54	54	54	54	54	54	48	48	48	48	46
44 OTHER SUPP & ENT CAP IN	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	----	----	----	----	----	----	----	----	----	----	----	----	----	----
45 TOTAL SUPP & ENT CAP IN	92	92	92	92	92	92	92	92	92	86	86	86	86	86

CANADIAN ENTITLEMENT RETURN FOR CANADA
BEGINNING APRIL 1 1998

1998 WHITE BOOK: 12/31/98

1999-0 OPERATING YEAR

RUN DATE: 12/31/98

PEAK IN MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL
	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BPA CER FOR CANADA OBLIGATION														
1 BPA CER(CAN) OBLIGATION	647	660	658	654	658	659	654	658	659	660	648	661	660	655
PRIEST RAPIDS CER FOR CANADA OBLIGATION														
2 PP&L TO BPA CER(CAN) PRD	5	4	4	4	4	4	4	4	4	4	5	4	4	4
3 PGE TO BPA CER(CAN) PRD	5	4	4	4	4	4	4	4	4	4	5	4	4	4
4 PSE TO BPA CER(CAN) PRD	3	3	3	3	3	3	3	3	3	3	3	2	3	3
5 SEATTL TO BPA CER(CAN) PRD	3	3	3	3	3	3	3	3	3	3	3	3	3	3
6 TPU TO BPA CER(CAN) PRD	3	2	2	3	2	3	3	3	3	2	3	3	2	3
7 AVC TO BPA CER(CAN) PRD	2	2	2	2	2	2	2	2	2	2	2	2	2	2
8 GRANT TO BPA CER(CAN) PRD	12	11	12	12	12	11	12	12	11	11	12	11	11	12
9 EUGENE TO BPA CER(CAN) PRD	0	1	1	1	1	1	1	0	1	1	0	1	1	0
10 COWLIZ TO BPA CER(CAN) PRD	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11 F GROV TO BPA CER(CAN) PRD	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12 MCMINN TO BPA CER(CAN) PRD	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 M FREE TO BPA CER(CAN) PRD	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 KITITS TO BPA CER(CAN) PRD	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	----	----	----	----	----	----	----	----	----	----	----	----	----	----
15 PRD CER(CAN) OBLIGATION	34	31	32	33	32	32	33	32	32	31	34	31	31	32
WANAPUM CER FOR CANADA OBLIGATION														
16 PP&L TO BPA CER(CAN) WAN	6	5	5	6	5	5	6	5	5	5	6	5	5	6
17 PGE TO BPA CER(CAN) WAN	6	5	5	5	5	5	5	5	5	5	6	5	5	5
18 PSE TO BPA CER(CAN) WAN	3	3	3	3	3	3	3	3	3	3	3	3	3	3
19 AVC TO BPA CER(CAN) WAN	3	3	3	2	3	3	2	2	3	3	2	3	3	2
20 GRANT TO BPA CER(CAN) WAN	11	10	10	11	10	10	11	11	10	10	11	10	10	11
21 EUGENE TO BPA CER(CAN) WAN	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22 COWLIZ TO BPA CER(CAN) WAN	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23 F GROV TO BPA CER(CAN) WAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 MCMINN TO BPA CER(CAN) WAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 M FREE TO BPA CER(CAN) WAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	----	----	----	----	----	----	----	----	----	----	----	----	----	----
26 WAN CER(CAN) OBLIGATION	31	28	28	29	28	28	29	28	28	28	30	28	28	29
ROCK ISLAND CER FOR CANADA OBLIGATION														
27 CHELAN TO BPA CER(CAN) RIS	11	10	10	10	10	10	10	10	10	10	11	10	10	11
28 PSE TO BPA CER(CAN) RIS	11	10	11	11	11	10	11	11	10	10	11	10	10	10
	----	----	----	----	----	----	----	----	----	----	----	----	----	----
29 RIS CER(CAN) OBLIGATION	22	20	21	21	21	20	21	21	20	20	22	20	20	21

CANADIAN ENTITLEMENT RETURN FOR CANADA
BEGINNING APRIL 1 1998

1998 WHITE BOOK: 12/31/98

2003- 4 OPERATING YEAR

RUN DATE: 12/31/98

PEAK IN MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL
	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BPA CER FOR CANADA OBLIGATION														
1 BPA CER(CAN) OBLIGATION	1199	1183	1199	1201	1189	1201	1201	1188	1201	1188	1188	1179	1188	1189
PRIEST RAPIDS CER FOR CANADA OBLIGATION														
2 PP&L TO BPA CER(CAN) PRD	8	8	8	8	8	8	8	8	8	8	8	8	8	8
3 PGE TO BPA CER(CAN) PRD	8	8	8	8	8	8	8	8	8	8	8	8	8	8
4 PSE TO BPA CER(CAN) PRD	4	5	4	4	5	4	4	5	4	5	5	5	5	5
5 SEATTL TO BPA CER(CAN) PRD	5	5	5	4	5	4	4	5	4	5	5	5	5	5
6 TPU TO BPA CER(CAN) PRD	5	5	5	5	5	5	5	5	5	5	5	5	5	5
7 AVC TO BPA CER(CAN) PRD	3	4	3	3	3	3	3	3	3	3	3	4	3	3
8 GRANT TO BPA CER(CAN) PRD	20	21	20	20	21	20	20	21	20	21	21	22	21	21
9 EUGENE TO BPA CER(CAN) PRD	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10 COWLIZ TO BPA CER(CAN) PRD	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11 F GROV TO BPA CER(CAN) PRD	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12 MCMINN TO BPA CER(CAN) PRD	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 M FREE TO BPA CER(CAN) PRD	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 KITITS TO BPA CER(CAN) PRD	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	----	----	----	----	----	----	----	----	----	----	----	----	----	----
15 PRD CER(CAN) OBLIGATION	55	58	55	54	57	54	54	57	54	57	57	59	57	57
WANAPUM CER FOR CANADA OBLIGATION														
16 PP&L TO BPA CER(CAN) WAN	9	10	9	9	10	9	9	10	9	10	10	10	10	10
17 PGE TO BPA CER(CAN) WAN	9	10	9	9	10	9	9	10	9	10	10	10	10	10
18 PSE TO BPA CER(CAN) WAN	5	6	5	5	6	5	5	6	5	6	6	6	6	6
19 AVC TO BPA CER(CAN) WAN	4	4	4	4	4	4	4	4	4	4	4	4	4	4
20 GRANT TO BPA CER(CAN) WAN	18	19	18	18	19	18	18	19	18	19	19	19	19	19
21 EUGENE TO BPA CER(CAN) WAN	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22 COWLIZ TO BPA CER(CAN) WAN	1	2	1	1	1	1	1	1	1	1	1	2	1	1
23 F GROV TO BPA CER(CAN) WAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 MCMINN TO BPA CER(CAN) WAN	1	0	1	0	0	0	0	0	0	0	0	0	0	0
25 M FREE TO BPA CER(CAN) WAN	1	0	1	1	0	1	1	0	1	0	0	1	0	0
	----	----	----	----	----	----	----	----	----	----	----	----	----	----
26 WAN CER(CAN) OBLIGATION	49	52	49	48	51	48	48	51	48	51	51	53	51	51
ROCK ISLAND CER FOR CANADA OBLIGATION														
27 CHELAN TO BPA CER(CAN) RIS	17	19	17	17	18	17	17	18	17	19	19	19	19	19
28 PSE TO BPA CER(CAN) RIS	18	19	18	18	19	18	18	19	18	18	18	19	18	18
	----	----	----	----	----	----	----	----	----	----	----	----	----	----
29 RIS CER(CAN) OBLIGATION	35	38	35	35	37	35	35	37	35	37	37	38	37	37

CANADIAN ENTITLEMENT RETURN FOR CANADA
BEGINNING APRIL 1 1998

1998 WHITE BOOK: 12/31/98

2008- 9 OPERATING YEAR

RUN DATE: 12/31/98

PEAK IN MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL
	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BPA CER FOR CANADA OBLIGATION														
1 BPA CER(CAN) OBLIGATION	1199	1183	1199	1201	1189	1201	1201	1188	1201	1188	1188	1179	1188	1189
PRIEST RAPIDS CER FOR CANADA OBLIGATION														
2 PP&L TO BPA CER(CAN) PRD	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 PGE TO BPA CER(CAN) PRD	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 PSE TO BPA CER(CAN) PRD	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 SEATTL TO BPA CER(CAN) PRD	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 TPU TO BPA CER(CAN) PRD	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 AVC TO BPA CER(CAN) PRD	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 GRANT TO BPA CER(CAN) PRD	55	58	55	54	57	54	54	57	54	57	57	59	57	57
9 EUGENE TO BPA CER(CAN) PRD	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 COWLIZ TO BPA CER(CAN) PRD	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 F GROV TO BPA CER(CAN) PRD	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12 MCMINN TO BPA CER(CAN) PRD	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 M FREE TO BPA CER(CAN) PRD	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 KITITS TO BPA CER(CAN) PRD	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	----	----	----	----	----	----	----	----	----	----	----	----	----	----
15 PRD CER(CAN) OBLIGATION	55	58	55	54	57	54	54	57	54	57	57	59	57	57
WANAPUM CER FOR CANADA OBLIGATION														
16 PP&L TO BPA CER(CAN) WAN	9	10	9	9	10	9	9	10	9	10	10	10	10	10
17 PGE TO BPA CER(CAN) WAN	9	10	9	9	10	9	9	10	9	10	10	10	10	10
18 PSE TO BPA CER(CAN) WAN	5	6	5	5	6	5	5	6	5	6	6	6	6	6
19 AVC TO BPA CER(CAN) WAN	4	4	4	4	4	4	4	4	4	4	4	4	4	4
20 GRANT TO BPA CER(CAN) WAN	18	19	18	18	19	18	18	19	18	19	19	19	19	19
21 EUGENE TO BPA CER(CAN) WAN	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22 COWLIZ TO BPA CER(CAN) WAN	1	2	1	1	1	1	1	1	1	1	1	2	1	1
23 F GROV TO BPA CER(CAN) WAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 MCMINN TO BPA CER(CAN) WAN	1	0	1	0	0	0	0	0	0	0	0	0	0	0
25 M FREE TO BPA CER(CAN) WAN	1	0	1	1	0	1	1	0	1	0	0	1	0	0
	----	----	----	----	----	----	----	----	----	----	----	----	----	----
26 WAN CER(CAN) OBLIGATION	49	52	49	48	51	48	48	51	48	51	51	53	51	51
ROCK ISLAND CER FOR CANADA OBLIGATION														
27 CHELAN TO BPA CER(CAN) RIS	17	19	17	17	18	17	17	18	17	19	19	19	19	19
28 PSE TO BPA CER(CAN) RIS	18	19	18	18	19	18	18	19	18	18	18	19	18	18
	----	----	----	----	----	----	----	----	----	----	----	----	----	----
29 RIS CER(CAN) OBLIGATION	35	38	35	35	37	35	35	37	35	37	37	38	37	37

CONTRACTS BETWEEN UTILITIES

1998 WHITE BOOK: 12/31/98

1999-0 OPERATING YEAR

RUN DATE: 12/31/98

PEAK IN MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL
CONTRACTS BETWEEN UTILITIES	----	----	----	----	----	----	----	----	----	----	----	----	----	----
103 PEND O TO SCL PS	16	16	16	16	16	16	16	16	16	16	16	16	16	16
104 PGE TO BPA PK REPL	0	0	0	0	0	0	0	0	0	0	0	0	0	0
105 PGE TO CANBY PS	16	16	16	19	24	28	26	24	21	19	19	17	26	15
106 PGE TO CHELAN XCHG NRG	0	0	0	0	0	0	0	0	0	0	0	0	0	0
107 PGE TO CHELAN PK REPL	0	0	0	0	0	0	0	0	0	0	0	0	0	0
108 PGE TO CLALLAM PS	2	2	2	2	2	2	2	2	2	2	2	2	2	2
109 PGE TO EWEB PS	23	23	24	27	32	35	37	35	31	29	29	26	24	23
110 PGE TO PNGC CAP S	1	1	1	1	1	1	1	1	1	1	1	1	1	1
111 PGE TO PP&L COVE REPL	3	3	3	3	3	3	3	3	3	3	3	3	3	3
112 PGE TO SNOH PS	56	56	56	56	56	56	59	59	59	59	59	59	59	59
113 PGE TO AVC PK REPL	0	0	0	0	0	0	0	0	0	0	0	0	0	0
114 PNGC TO PGE PK REPL	0	0	0	0	0	0	0	0	0	0	0	0	0	0
115 PSE TO BPA WP3 S	0	0	0	0	0	0	0	0	0	0	0	0	0	0
116 PSE TO GHBR CNTRL XCHG	54	54	54	54	54	54	54	54	54	54	54	54	54	54
117 PSE TO AVC PS	10	10	0	0	0	0	0	0	0	0	0	0	0	0
118 SCL TO PEND O PS	32	32	32	32	32	32	32	32	32	32	32	32	32	32
119 SCL TO IPC SPX	54	54	32	0	0	0	0	0	0	0	0	0	0	0
120 SCL TO TPU NRG S	0	0	0	50	0	0	0	0	0	0	0	0	0	0
121 SNOH TO PSE (CONS) PS1	5	5	5	6	7	10	10	8	7	7	7	6	5	5
122 SNOH TO PSE PS2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
123 TPU TO SCL NRG S	50	50	0	0	0	0	0	0	0	0	0	0	0	0
124 AVC TO BPA WP3 S	0	0	0	0	0	0	0	0	0	0	0	0	0	0
125 AVC TO CHENEY PS	2	2	2	2	2	2	2	2	2	2	2	2	2	2
126 AVC TO CLARK PS2	100	100	106	100	150	170	238	250	250	234	234	157	196	223
127 AVC TO EWEB PS	10	10	10	10	10	10	10	10	10	10	10	10	10	10
128 AVC TO MPC PS1	100	100	100	100	100	100	100	100	100	100	100	100	100	100
129 AVC TO MPC PS2	100	100	100	100	100	100	100	100	100	100	100	100	100	100
130 AVC TO OTHER ENTITIES PS	215	215	215	215	215	215	215	215	215	215	215	215	215	215
131 AVC TO PP&L PS	150	150	150	0	0	0	0	0	0	0	0	0	150	150
132 AVC TO PP&L SPX	50	50	50	0	0	0	0	0	0	0	0	0	50	50
133 AVC TO PEND OREILLE PWR S	6	6	6	6	6	6	6	6	6	6	6	6	6	6
134 AVC TO PGE CAP S	150	150	150	150	150	150	150	150	150	150	150	150	150	150
135 AVC TO PSE PS	100	100	100	100	100	100	100	100	100	100	100	100	100	100
136 AVC TO SNOH PS	100	100	100	100	100	100	100	100	100	100	100	100	100	100
137 TOTAL CONTRACTS	4634	4634	4575	4740	5071	5435	6352	6280	5941	5443	5443	5310	5612	5040
TOTAL CONTRACTS OUT														
138 FEDERAL CONTRACTS OUT	2156	2156	2216	2578	2943	3177	3923	3845	3614	3136	3136	3181	3188	2454
139 PUBLIC CONTRACTS OUT	365	365	293	312	214	217	217	215	214	214	214	212	261	261
140 IOU CONTRACTS OUT	1984	1984	1938	1722	1786	1913	1984	1992	1885	1865	1865	1689	1935	2094
141 OTHER ENTITIES CONT OUT	129	129	128	128	128	128	228	228	228	228	228	228	228	231
142 TOTAL CONTRACTS OUT	4634	4634	4575	4740	5071	5435	6352	6280	5941	5443	5443	5310	5612	5040
TOTAL CONTRACTS IN														
143 FEDERAL CONTRACTS IN	25	25	25	25	25	25	50	50	50	50	50	50	50	50
144 PUBLIC CONTRACTS IN	1094	1094	1088	1145	1244	1393	1474	1451	1385	1283	1283	1489	1524	1544
145 IOU CONTRACTS IN	3071	3071	3018	3126	3358	3573	3921	3872	3599	3153	3153	2814	3081	2852
146 OTHER ENTITIES CONT IN	444	444	444	444	444	444	907	907	907	957	957	957	957	594
147 TOTAL CONTRACTS IN	4634	4634	4575	4740	5071	5435	6352	6280	5941	5443	5443	5310	5612	5040

CONTRACTS BETWEEN UTILITIES

1998 WHITE BOOK: 12/31/98

2003- 4 OPERATING YEAR

RUN DATE: 12/31/98

PEAK IN MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL
CONTRACTS BETWEEN UTILITIES	----	----	----	----	----	----	----	----	----	----	----	----	----	----
103 PEND O TO SCL PS	12	12	12	12	12	12	12	12	12	12	12	12	12	12
104 PGE TO BPA PK REPL	0	0	0	0	0	0	0	0	0	0	0	0	0	0
105 PGE TO CANBY PS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
106 PGE TO CHELAN XCHG NRG	0	0	0	0	0	0	0	0	0	0	0	0	0	0
107 PGE TO CHELAN PK REPL	0	0	0	0	0	0	0	0	0	0	0	0	0	0
108 PGE TO CLALLAM PS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
109 PGE TO EWEB PS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
110 PGE TO PNGC CAP S	0	0	0	0	0	0	0	0	0	0	0	0	0	0
111 PGE TO PP&L COVE REPL	3	3	3	3	3	3	3	3	3	3	3	3	3	3
112 PGE TO SNOH PS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
113 PGE TO AVC PK REPL	0	0	0	0	0	0	0	0	0	0	0	0	0	0
114 PNGC TO PGE PK REPL	0	0	0	0	0	0	0	0	0	0	0	0	0	0
115 PSE TO BPA WP3 S	0	0	0	0	0	0	0	0	0	0	0	0	0	0
116 PSE TO GHBR CNTRL XCHG	0	0	0	0	0	0	0	0	0	0	0	0	0	0
117 PSE TO AVC PS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
118 SCL TO PEND O PS	36	36	36	36	36	36	36	36	36	36	36	36	36	36
119 SCL TO IPC SPX	54	54	32	0	0	0	0	0	0	0	0	0	0	0
120 SCL TO TPU NRG S	0	0	0	50	0	0	0	0	0	0	0	0	0	0
121 SNOH TO PSE (CONS) PS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
122 SNOH TO PSE PS2	11	11	11	13	16	22	21	18	16	14	14	12	11	11
123 TPU TO SCL NRG S	50	50	0	0	0	0	0	0	0	0	0	0	0	0
124 AVC TO BPA WP3 S	0	0	0	0	0	0	0	0	0	0	0	0	0	0
125 AVC TO CHENEY PS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
126 AVC TO CLARK PS2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
127 AVC TO EWEB PS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
128 AVC TO MPC PS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
129 AVC TO MPC PS2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
130 AVC TO OTHER ENTITIES PS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
131 AVC TO PP&L PS	150	150	150	0	0	0	0	0	0	0	0	0	0	0
132 AVC TO PP&L SPX	50	50	50	0	0	0	0	0	0	0	0	0	50	50
133 AVC TO PEND OREILLE PWR S	0	0	0	0	0	0	0	0	0	0	0	0	0	0
134 AVC TO PGE CAP S	150	150	150	150	150	150	150	150	150	150	150	150	150	150
135 AVC TO PSE PS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
136 AVC TO SNOH PS	100	100	100	100	100	100	100	100	100	100	100	100	100	100
137 TOTAL CONTRACTS	3660	3660	3418	3342	3402	3673	3661	3628	3338	3265	3265	3044	3136	3239
TOTAL CONTRACTS OUT														
138 FEDERAL CONTRACTS OUT	2554	2554	2434	2537	2894	3058	3097	3067	2829	2759	2759	2635	2628	2637
139 PUBLIC CONTRACTS OUT	316	316	244	264	167	173	172	169	167	165	165	163	212	212
140 IOU CONTRACTS OUT	797	797	747	547	347	447	397	397	347	347	347	253	303	397
141 OTHER ENTITIES CONT OUT	0	0	0	0	0	0	0	0	0	0	0	0	0	0
142 TOTAL CONTRACTS OUT	3667	3667	3425	3348	3408	3678	3666	3633	3343	3271	3271	3051	3143	3246
TOTAL CONTRACTS IN														
143 FEDERAL CONTRACTS IN	0	0	0	0	0	0	0	0	0	0	0	0	0	0
144 PUBLIC CONTRACTS IN	1345	1345	1146	1265	1307	1426	1489	1500	1363	1292	1292	1390	1364	1357
145 IOU CONTRACTS IN	1842	1842	1799	1603	1621	1772	1697	1653	1500	1499	1499	1181	1299	1409
146 OTHER ENTITIES CONT IN	480	480	480	480	480	480	480	480	480	480	480	480	480	480
147 TOTAL CONTRACTS IN	3667	3667	3425	3348	3408	3678	3666	3633	3343	3271	3271	3051	3143	3246

CONTRACTS BETWEEN UTILITIES

1998 WHITE BOOK: 12/31/98

2008- 9 OPERATING YEAR

RUN DATE: 12/31/98

PEAK IN MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL
CONTRACTS BETWEEN UTILITIES														
103 PEND O TO SCL PS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
104 PGE TO BPA PK REPL	0	0	0	0	0	0	0	0	0	0	0	0	0	0
105 PGE TO CANBY PS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
106 PGE TO CHELAN XCHG NRG	0	0	0	0	0	0	0	0	0	0	0	0	0	0
107 PGE TO CHELAN PK REPL	0	0	0	0	0	0	0	0	0	0	0	0	0	0
108 PGE TO CLALLAM PS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
109 PGE TO EWEB PS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
110 PGE TO PNGC CAP S	0	0	0	0	0	0	0	0	0	0	0	0	0	0
111 PGE TO PP&L COVE REPL	3	3	3	3	3	3	3	3	3	3	3	3	3	3
112 PGE TO SNOH PS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
113 PGE TO AVC PK REPL	0	0	0	0	0	0	0	0	0	0	0	0	0	0
114 PNGC TO PGE PK REPL	0	0	0	0	0	0	0	0	0	0	0	0	0	0
115 PSE TO BPA WP3 S	0	0	0	0	0	0	0	0	0	0	0	0	0	0
116 PSE TO GHBR CNTRL XCHG	0	0	0	0	0	0	0	0	0	0	0	0	0	0
117 PSE TO AVC PS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
118 SCL TO PEND O PS	48	48	48	48	48	48	48	48	48	48	48	48	48	48
119 SCL TO IPC SPX	0	0	0	0	0	0	0	0	0	0	0	0	0	0
120 SCL TO TPU NRG S	0	0	0	0	0	0	0	0	0	0	0	0	0	0
121 SNOH TO PSE (CONS) PS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
122 SNOH TO PSE PS2	11	11	11	13	16	22	21	18	16	14	14	12	11	21
123 TPU TO SCL NRG S	0	0	0	0	0	0	0	0	0	0	0	0	0	0
124 AVC TO BPA WP3 S	0	0	0	0	0	0	0	0	0	0	0	0	0	0
125 AVC TO CHENEY PS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
126 AVC TO CLARK PS2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
127 AVC TO EWEB PS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
128 AVC TO MPC PS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
129 AVC TO MPC PS2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
130 AVC TO OTHER ENTITIES PS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
131 AVC TO PP&L PS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
132 AVC TO PP&L SPX	50	50	50	0	0	0	0	0	0	0	0	0	0	0
133 AVC TO PEND OREILLE PWR S	0	0	0	0	0	0	0	0	0	0	0	0	0	0
134 AVC TO PGE CAP S	150	150	150	150	150	150	150	150	150	150	150	150	150	150
135 AVC TO PSE PS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
136 AVC TO SNOH PS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
137 TOTAL CONTRACTS	1746	1746	1757	1758	2001	2144	2123	2094	1905	1881	1881	1543	1607	1725
TOTAL CONTRACTS OUT														
138 FEDERAL CONTRACTS OUT	1237	1237	1248	1297	1587	1674	1654	1628	1491	1469	1469	1227	1242	1256
139 PUBLIC CONTRACTS OUT	212	212	212	214	167	173	172	169	167	165	165	163	212	222
140 IOU CONTRACTS OUT	297	297	297	247	247	297	297	297	247	247	247	153	153	247
141 OTHER ENTITIES CONT OUT	0	0	0	0	0	0	0	0	0	0	0	0	0	0
142 TOTAL CONTRACTS OUT	1746	1746	1757	1758	2001	2144	2123	2094	1905	1881	1881	1543	1607	1725
TOTAL CONTRACTS IN														
143 FEDERAL CONTRACTS IN	0	0	0	0	0	0	0	0	0	0	0	0	0	0
144 PUBLIC CONTRACTS IN	283	283	265	280	305	347	351	366	330	307	307	287	283	291
145 IOU CONTRACTS IN	1388	1388	1417	1403	1621	1722	1697	1653	1500	1499	1499	1181	1249	1359
146 OTHER ENTITIES CONT IN	75	75	75	75	75	75	75	75	75	75	75	75	75	75
147 TOTAL CONTRACTS IN	1746	1746	1757	1758	2001	2144	2123	2094	1905	1881	1881	1543	1607	1725

CAPACITY RESERVES		1998 WHITE BOOK: 12/31/98													
1999-0 OPERATING YEAR		RUN DATE: 12/31/98													
1997 WATER YEAR		AUG	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	APR	MAY	JUN	JUL
PEAK IN MEGAWATTS		1-15	16-31								1-15	16-30			
REGIONAL CAPACITY RESERVES															
1 HYDRO SM THML C-T & MISC.		1634	1628	1589	1593	1653	1728	1722	1707	1659	1642	1665	1604	1692	1637
2 LARGE THERMAL		1011	1011	810	802	962	991	993	997	958	909	799	762	1024	1008
3 TOTAL REG CAPACITY RESERVES		2645	2639	2399	2395	2615	2719	2715	2704	2617	2551	2464	2366	2716	2645
HYDRO; SMALL THERMAL; COMBUSTION TURBINES; & MISCELLANEOUS RESERVES															
-- FEDERAL SYSTEM --															
4 FEDERAL		865	868	871	877	891	962	961	961	940	934	928	928	938	868
-- PUBLIC AGENCIES --															
5 CHELAN COUNTY PUD #1		17	17	17	17	17	17	17	17	17	15	15	17	15	19
6 CLARK COUNTY PUD #1		12	12	12	12	12	12	13	13	12	13	13	12	12	12
7 COWLITZ COUNTY PUD #1		6	6	6	5	6	6	6	5	5	5	5	2	6	6
8 DOUGLAS COUNTY PUD #1		13	14	13	14	13	13	13	13	14	14	14	13	13	13
9 EUGENE WATER & ELEC BOARD		6	6	6	6	6	5	6	6	7	8	8	10	9	7
10 GRANT COUNTY PUD #2		34	34	34	33	33	33	33	33	33	34	34	34	34	34
11 GRAY'S HARBOR COUNTY PUD 1		0	0	0	0	0	0	0	0	0	0	0	0	0	0
12 OKANOGAN COUNTY PUD #1		3	3	3	3	3	3	3	3	3	3	3	3	3	3
13 PEND OREILLE COUNTY PUD #1		4	4	4	4	4	4	4	4	4	4	4	4	4	4
14 SEATTLE CITY LIGHT		92	91	69	75	87	86	85	84	85	87	87	98	102	93
15 SNOHOMISH COUNTY PUD #1		7	7	7	7	7	7	6	7	7	7	7	7	7	7
16 SPRINGFIELD COUNTY PUD #1		0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 TACOMA PUBLIC UTILITIES		42	40	32	32	36	33	33	31	23	26	28	20	36	41
18 SMALL & NON GEN PUBLICS		5	5	5	5	5	5	5	5	5	5	5	5	5	5
19 PUBLIC AGENCIES		241	239	208	213	229	224	224	221	215	221	223	225	246	244
-- INVESTOR-OWNED UTILITIES --															
20 AVISTA CORP (WWP)		76	75	75	76	76	75	74	74	74	74	74	71	75	76
21 IDAHO POWER COMPANY		95	90	88	84	74	85	84	75	83	89	90	93	86	91
22 MONTANA POWER CO. REGIONAL		13	13	12	11	13	12	12	11	11	12	11	9	8	13
23 PACIFICORP		90	90	90	86	89	89	87	85	84	85	86	50	91	92
24 PORTLAND GENERAL ELECTRIC		105	105	105	106	106	106	106	106	106	81	106	106	106	106
25 PUGET SOUND ENERGY		134	133	125	126	161	160	160	159	131	132	133	106	126	132
26 INVESTOR-OWNED UTILITIES		513	506	495	489	519	527	523	510	489	473	500	435	492	510
-- OTHER ENTITIES --															
27 COLOCKUM TRANSMISSION CO.		15	15	15	15	15	15	15	15	15	15	15	15	15	15
TOTAL HYDRO; SMALL THERMAL; COMBUSTION TURBINES; & MISCELLANEOUS RESERVES															
28 TOTAL HYDRO & MISC. RES.		1634	1628	1589	1593	1653	1728	1722	1707	1659	1642	1665	1604	1692	1637

CAPACITY RESERVES

1998 WHITE BOOK: 12/31/98

1999-0 OPERATING YEAR

RUN DATE: 12/31/98

1937 WATER YEAR

PEAK IN MEGAWATTS

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL
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LARGE THERMAL RESERVES

-- FEDERAL SYSTEM --

29 FEDERAL	174	174	0	0	174	174	174	174	174	174	174	174	174	174
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-- PUBLIC AGENCIES --

30 CHELAN COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31 CLARK PUBLIC UTILITIES	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32 COWLITZ COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 DOUGLAS COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 EUGENE WATER & ELEC BOARD	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35 GRANT COUNTY PUD #2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36 GRAYS HARBOR COUNTY PUD #1	8	8	8	8	8	8	8	8	8	8	8	4	8	8
37 OKANOGAN COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38 PEND OREILLE COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39 SEATTLE CITY LIGHT	16	16	16	16	16	16	16	16	16	16	16	8	16	16
40 SNOHOMISH COUNTY PUD #1	16	16	16	16	16	16	16	16	16	16	16	8	16	16
41 SPRINGFIELD UTILITY BOARD	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42 TACOMA PUBLIC UTILITIES	16	16	16	16	16	16	16	16	16	16	16	8	16	16
43 SMALL & NON GEN PUBLICS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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44 PUBLIC AGENCIES

	56	56	56	56	56	56	56	56	56	56	56	28	56	56
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-- INVESTOR-OWNED UTILITIES --

45 AVISTA CORP (WWP)	64	64	63	64	64	64	64	63	64	63	47	48	63	64
46 IDAHO POWER COMPANY	150	150	150	150	150	150	150	150	150	124	97	116	150	150
47 MONTANA POWER CO. REGIONAL	60	60	57	58	60	59	59	58	58	51	22	46	53	60
48 PACIFICORP	290	290	266	257	240	271	273	279	239	246	235	217	310	287
49 PORTLAND GENERAL ELECTRIC	101	101	101	101	101	101	101	101	101	101	79	47	101	101
50 PUGET SOUND ENERGY	116	116	116	116	116	116	116	116	116	93	88	85	116	116
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51 INVESTOR-OWNED UTILITIES

	781	781	753	746	731	761	763	767	728	678	568	559	793	778
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LARGE THERMAL RESERVES

52 TOTAL THERMAL RESERVES	1011	1011	810	802	962	991	993	997	958	909	799	762	1024	1008
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TABLE A-17

SHEET 1 OF 2

CAPACITY RESERVES		1998 WHITE BOOK: 12/31/98														
2003- 4 OPERATING YEAR		RUN DATE: 12/31/98														
1937 WATER YEAR		AUG	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	APR	MAY	JUN	JUL	
PEAK IN MEGAWATTS		1-15	16-31								1-15	16-30				
REGIONAL CAPACITY RESERVES																
1 HYDRO SM THML C-T & MISC.		1634	1629	1590	1594	1654	1729	1724	1708	1659	1643	1666	1606	1693	1636	
2 LARGE THERMAL		1000	999	941	966	1002	979	984	989	941	805	722	929	1013	993	
3 TOTAL REG CAPACITY RESERVES		2634	2628	2531	2560	2656	2708	2708	2697	2600	2448	2388	2535	2706	2629	
HYDRO; SMALL THERMAL; COMBUSTION TURBINES; & MISCELLANEOUS RESERVES																
-- FEDERAL SYSTEM --																
4 FEDERAL		867	869	873	878	892	963	962	962	940	935	929	930	940	869	
-- PUBLIC AGENCIES --																
5 CHELAN COUNTY PUD #1		25	25	25	25	25	25	25	25	25	23	23	25	23	27	
6 CLARK COUNTY PUD #1		12	12	12	12	12	12	12	12	12	12	12	12	12	12	
7 COWLITZ COUNTY PUD #1		6	6	6	5	6	6	6	5	5	5	5	2	6	6	
8 DOUGLAS COUNTY PUD #1		13	14	14	14	13	13	13	14	14	14	14	13	13	13	
9 EUGENE WATER & ELEC BOARD		6	6	6	6	6	5	6	6	7	8	8	10	9	7	
10 GRANT COUNTY PUD #2		34	34	34	33	33	33	33	33	33	34	34	34	34	34	
11 GRAY'S HARBOR COUNTY PUD 1		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12 OKANOGAN COUNTY PUD #1		3	3	3	3	3	3	3	3	3	4	4	3	3	3	
13 PEND OREILLE COUNTY PUD #1		4	4	4	4	4	4	4	4	4	4	4	4	4	4	
14 SEATTLE CITY LIGHT		92	91	69	75	87	86	85	84	85	87	87	98	102	93	
15 SNOHOMISH COUNTY PUD #1		7	7	7	7	7	7	7	7	7	7	7	7	7	7	
16 SPRINGFIELD COUNTY PUD #1		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
17 TACOMA PUBLIC UTILITIES		42	40	32	32	36	33	33	31	23	26	28	20	36	41	
18 SMALL & NON GEN PUBLICS		5	5	5	5	5	5	5	5	5	5	5	5	5	5	
19 PUBLIC AGENCIES		249	247	217	221	237	232	232	229	223	229	231	233	254	252	
-- INVESTOR-OWNED UTILITIES --																
20 AVISTA CORP (WWP)		73	72	72	73	73	72	71	71	71	71	71	69	73	73	
21 IDAHO POWER COMPANY		94	90	88	84	74	85	83	75	83	89	90	93	86	91	
22 MONTANA POWER CO. REGIONAL		16	16	14	14	16	15	17	15	14	16	13	12	10	15	
23 PACIFICORP		89	89	89	85	88	88	86	84	83	84	86	49	90	91	
24 PORTLAND GENERAL ELECTRIC		105	105	105	106	106	106	106	106	106	81	106	106	106	105	
25 PUGET SOUND ENERGY		126	125	117	118	153	152	152	151	123	123	125	98	118	124	
26 INVESTOR-OWNED UTILITIES		503	497	485	480	510	518	515	502	480	464	491	427	483	499	
-- OTHER ENTITIES --																
27 COLOCKUM TRANSMISSION CO.		15	15	15	15	15	15	15	15	15	15	15	15	15	15	
TOTAL HYDRO; SMALL THERMAL; COMBUSTION TURBINES; & MISCELLANEOUS RESERVES																
28 TOTAL HYDRO & MISC. RES.		1634	1629	1590	1594	1654	1729	1724	1708	1659	1643	1666	1606	1693	1636	

CAPACITY RESERVES

1998 WHITE BOOK: 12/31/98

2003- 4 OPERATING YEAR

RUN DATE: 12/31/98

1937 WATER YEAR

PEAK IN MEGAWATTS

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL
	----	----	----	----	----	----	----	----	----	----	----	----	----	----

LARGE THERMAL RESERVES

-- FEDERAL SYSTEM --

29 FEDERAL	174	174	174	174	174	174	174	174	174	174	174	174	174	174
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-- PUBLIC AGENCIES --

30 CHELAN COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31 CLARK PUBLIC UTILITIES	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32 COWLITZ COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 DOUGLAS COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 EUGENE WATER & ELEC BOARD	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35 GRANT COUNTY PUD #2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36 GRAYS HARBOR COUNTY PUD #1	8	8	8	8	8	8	8	8	8	4	4	8	8	8
37 OKANOGAN COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38 PEND OREILLE COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39 SEATTLE CITY LIGHT	16	16	16	16	16	16	16	16	16	8	8	16	16	16
40 SNOHOMISH COUNTY PUD #1	16	16	16	16	16	16	16	16	16	8	8	16	16	16
41 SPRINGFIELD UTILITY BOARD	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42 TACOMA PUBLIC UTILITIES	16	16	16	16	16	16	16	16	16	8	8	16	16	16
43 SMALL & NON GEN PUBLICS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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44 PUBLIC AGENCIES

	56	56	56	56	56	56	56	56	56	28	28	56	56	56
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-- INVESTOR-OWNED UTILITIES --

45 AVISTA CORP (WWP)	64	64	64	64	64	64	63	63	64	48	32	63	63	64
46 IDAHO POWER COMPANY	150	150	150	150	150	150	150	150	97	132	132	142	150	150
47 MONTANA POWER CO. REGIONAL	65	65	62	64	66	64	68	67	63	56	28	51	60	63
48 PACIFICORP	273	273	217	241	275	254	255	261	270	181	170	300	293	269
49 PORTLAND GENERAL ELECTRIC	101	101	101	101	101	101	101	101	101	99	77	49	101	101
50 PUGET SOUND ENERGY	116	116	116	116	116	116	116	116	116	86	81	93	116	116
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51 INVESTOR-OWNED UTILITIES

	769	769	710	736	772	749	753	758	711	602	520	698	783	763
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LARGE THERMAL RESERVES

52 TOTAL THERMAL RESERVES	1000	999	941	966	1002	979	984	989	941	805	722	929	1013	993
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CAPACITY RESERVES														
1998 WHITE BOOK: 12/31/98														
2008- 9 OPERATING YEAR														
RUN DATE: 12/31/98														
1937 WATER YEAR														
PEAK IN MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL
REGIONAL CAPACITY RESERVES	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1 HYDRO SM THML C-T & MISC.	1633	1627	1589	1593	1653	1729	1724	1708	1658	1643	1665	1605	1693	1636
2 LARGE THERMAL	977	977	956	948	983	962	964	969	902	886	577	637	995	972
3 TOTAL REG CAPACITY RESERVES	2610	2604	2545	2541	2636	2691	2688	2677	2560	2529	2242	2242	2688	2608
HYDRO; SMALL THERMAL; COMBUSTION TURBINES; & MISCELLANEOUS RESERVES														
-- FEDERAL SYSTEM --														
4 FEDERAL	867	869	873	878	892	963	962	962	940	935	929	930	940	869
-- PUBLIC AGENCIES --														
5 CHELAN COUNTY PUD #1	27	27	27	27	27	27	27	27	27	25	25	27	25	27
6 CLARK COUNTY PUD #1	11	11	12	12	12	12	12	12	12	12	12	12	12	12
7 COWLITZ COUNTY PUD #1	6	6	5	4	5	5	5	4	4	4	4	1	5	6
8 DOUGLAS COUNTY PUD #1	14	14	13	13	14	14	13	14	14	14	14	14	14	13
9 EUGENE WATER & ELEC BOARD	5	5	5	5	5	4	5	5	6	7	7	9	9	6
10 GRANT COUNTY PUD #2	62	62	62	62	61	61	61	61	62	62	62	62	62	62
11 GRAY'S HARBOR COUNTY PUD 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12 OKANOGAN COUNTY PUD #1	3	3	3	3	3	3	3	3	3	3	3	3	3	3
13 PEND OREILLE COUNTY PUD #1	4	4	4	4	4	4	4	4	4	4	4	4	4	4
14 SEATTLE CITY LIGHT	88	87	65	71	83	82	82	80	81	84	84	94	98	89
15 SNOHOMISH COUNTY PUD #1	7	7	7	7	7	7	7	7	7	7	7	7	7	7
16 SPRINGFIELD COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 TACOMA PUBLIC UTILITIES	38	37	29	29	32	29	29	28	20	23	25	17	32	38
18 SMALL & NON GEN PUBLICS	4	4	4	4	4	4	4	4	4	4	4	4	4	4
19 PUBLIC AGENCIES	269	267	236	241	257	252	252	249	244	249	251	254	275	271
-- INVESTOR-OWNED UTILITIES --														
20 AVISTA CORP (WWP)	70	69	69	70	70	69	68	68	67	67	68	66	70	70
21 IDAHO POWER COMPANY	95	90	88	84	74	84	83	75	83	89	90	93	86	90
22 MONTANA POWER CO. REGIONAL	14	14	15	14	16	17	17	15	15	16	14	12	11	15
23 PACIFICORP	82	83	83	78	81	82	80	78	77	78	79	43	84	85
24 PORTLAND GENERAL ELECTRIC	99	99	99	100	100	100	100	100	99	75	100	100	99	99
25 PUGET SOUND ENERGY	121	120	111	113	148	147	146	145	118	118	119	92	112	121
26 INVESTOR-OWNED UTILITIES	481	475	465	459	489	499	494	481	459	443	470	406	462	480
-- OTHER ENTITIES --														
27 COLOCKUM TRANSMISSION CO.	15	15	15	15	15	15	15	15	15	15	15	15	15	15
TOTAL HYDRO; SMALL THERMAL; COMBUSTION TURBINES; & MISCELLANEOUS RESERVES														
28 TOTAL HYDRO & MISC. RES.	1633	1627	1589	1593	1653	1729	1724	1708	1658	1643	1665	1605	1693	1636

CAPACITY RESERVES

1998 WHITE BOOK: 12/31/98

2008- 9 OPERATING YEAR

RUN DATE: 12/31/98

1937 WATER YEAR

PEAK IN MEGAWATTS

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL
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LARGE THERMAL RESERVES

-- FEDERAL SYSTEM --

29 FEDERAL	174	174	174	174	174	174	174	174	174	174	0	0	174	174
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-- PUBLIC AGENCIES --

30 CHELAN COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31 CLARK PUBLIC UTILITIES	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32 COWLITZ COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 DOUGLAS COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 EUGENE WATER & ELEC BOARD	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35 GRANT COUNTY PUD #2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36 GRAYS HARBOR COUNTY PUD #1	8	8	8	8	8	8	8	8	8	8	8	4	8	8
37 OKANOGAN COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38 PEND OREILLE COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39 SEATTLE CITY LIGHT	16	16	16	16	16	16	16	16	16	16	16	8	16	16
40 SNOHOMISH COUNTY PUD #1	16	16	16	16	16	16	16	16	16	16	16	8	16	16
41 SPRINGFIELD UTILITY BOARD	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42 TACOMA PUBLIC UTILITIES	16	16	16	16	16	16	16	16	16	16	16	8	16	16
43 SMALL & NON GEN PUBLICS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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44 PUBLIC AGENCIES

	56	56	56	56	56	56	56	56	56	56	56	28	56	56
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-- INVESTOR-OWNED UTILITIES --

45 AVISTA CORP (WWP)	63	63	63	64	64	64	64	64	63	63	47	48	64	63
46 IDAHO POWER COMPANY	150	150	150	150	150	150	150	150	124	132	79	142	150	150
47 MONTANA POWER CO. REGIONAL	63	63	63	64	66	68	68	67	64	57	29	52	60	64
48 PACIFICORP	254	254	232	223	256	233	235	241	203	210	199	233	274	248
49 PORTLAND GENERAL ELECTRIC	101	101	101	101	101	101	101	101	101	101	79	47	101	101
50 PUGET SOUND ENERGY	116	116	116	116	116	116	116	116	116	93	88	86	116	116
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51 INVESTOR-OWNED UTILITIES

	747	747	725	718	753	732	734	739	671	656	521	608	765	742
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LARGE THERMAL RESERVES

52 TOTAL THERMAL RESERVES	977	977	956	948	983	962	964	969	902	886	577	637	995	972
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TABLE A-18

WELLS AND CHELAN ALLOCATION

1998 WHITE BOOK: 12/31/98

1999-0 OPERATING YEAR

RUN DATE: 12/31/98

1937 WATER YEAR

PEAK IN MEGAWATTS

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL
1 WELLS	840	840	840	840	840	840	840	840	840	840	840	840	840	840
2 WELLS AFTER ENC.	840	840	840	840	840	840	840	840	840	840	840	840	840	840
3 PP&L SHARE	61	61	61	61	61	61	61	61	61	61	61	61	61	61
4 PGE SHARE	177	177	177	177	177	177	177	177	177	177	177	177	177	177
5 PSE SHARE	271	271	271	271	271	271	271	271	271	271	271	271	271	271
6 AVC SHARE	31	31	31	31	31	31	31	31	31	31	31	31	31	31
7 DOUGLS SHARE	233	233	233	233	233	233	233	233	233	233	233	233	233	233
8 OKANOG CO. PUD SHARE PUB	67	67	67	67	67	67	67	67	67	67	67	67	67	67
9 WELLS AFTER ENC. DGLS	840	840	840	840	840	840	840	840	840	840	840	840	840	840
10 CHELAN	54	53	53	53	52	52	51	50	50	12	12	50	13	54
11 CHELAN AFTER ENC.	58	57	57	57	56	56	55	54	54	16	16	54	17	58
12 TO CHELAN FR AVC CONTRACT	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 CHELAN SH OF CHELAN PROJ	58	57	57	57	56	56	55	54	54	16	16	54	17	58
14 CHELAN SHARE (PROJ+CONT)	58	57	57	57	56	56	55	54	54	16	16	54	17	58
15 AVC SHARE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 CHELAN AFTER ENC. CHLN	58	57	57	57	56	56	55	54	54	16	16	54	17	58

TABLE A-18

WELLS AND CHELAN ALLOCATION

1998 WHITE BOOK: 12/31/98

2003- 4 OPERATING YEAR

RUN DATE: 12/31/98

1937 WATER YEAR

PEAK IN MEGAWATTS

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL
1 WELLS	840	840	840	840	840	840	840	840	840	840	840	840	840	840
2 WELLS AFTER ENC.	840	840	840	840	840	840	840	840	840	840	840	840	840	840
3 PP&L SHARE	61	61	61	61	61	61	61	61	61	61	61	61	61	61
4 PGE SHARE	177	177	177	177	177	177	177	177	177	177	177	177	177	177
5 PSE SHARE	271	271	271	271	271	271	271	271	271	271	271	271	271	271
6 AVC SHARE	31	31	31	31	31	31	31	31	31	31	31	31	31	31
7 DOUGLS SHARE	233	233	233	233	233	233	233	233	233	233	233	233	233	233
8 OKANOG CO. PUD SHARE PUB	67	67	67	67	67	67	67	67	67	67	67	67	67	67
9 WELLS AFTER ENC. DGLS	840	840	840	840	840	840	840	840	840	840	840	840	840	840
10 CHELAN	54	53	53	53	52	52	51	50	50	12	12	50	13	54
11 CHELAN AFTER ENC.	58	57	57	57	56	56	55	54	54	16	16	54	17	58
12 TO CHELAN FR AVC CONTRACT	3	3	4	5	5	5	5	5	5	5	5	4	3	3
13 CHELAN SH OF CHELAN PROJ	58	57	57	57	56	56	55	54	54	16	16	54	17	58
14 CHELAN SHARE (PROJ+CONT)	61	61	61	62	61	61	60	59	59	21	21	58	20	61
15 AVC SHARE	-3	-4	-4	-5	-5	-5	-5	-5	-5	-5	-5	-4	-3	-3
16 CHELAN AFTER ENC. CHLN	58	57	57	57	56	56	55	54	54	16	16	54	17	58

TABLE A-18

WELLS AND CHELAN ALLOCATION

1998 WHITE BOOK: 12/31/98

2008- 9 OPERATING YEAR

RUN DATE: 12/31/98

1937 WATER YEAR

PEAK IN MEGAWATTS

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL
1 WELLS	840	840	840	840	840	840	840	840	840	840	840	840	840	840
2 WELLS AFTER ENC.	840	840	840	840	840	840	840	840	840	840	840	840	840	840
3 PP&L SHARE	61	61	61	61	61	61	61	61	61	61	61	61	61	61
4 PGE SHARE	177	177	177	177	177	177	177	177	177	177	177	177	177	177
5 PSE SHARE	271	271	271	271	271	271	271	271	271	271	271	271	271	271
6 AVC SHARE	31	31	31	31	31	31	31	31	31	31	31	31	31	31
7 DOUGLS SHARE	233	233	233	233	233	233	233	233	233	233	233	233	233	233
8 OKANOG CO. PUD SHARE PUB	67	67	67	67	67	67	67	67	67	67	67	67	67	67
9 WELLS AFTER ENC. DGLS	840	840	840	840	840	840	840	840	840	840	840	840	840	840
10 CHELAN	54	53	53	53	52	52	51	50	50	12	12	50	13	54
11 CHELAN AFTER ENC.	58	57	57	57	56	56	55	54	54	16	16	54	17	58
12 TO CHELAN FR AVC CONTRACT	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 CHELAN SH OF CHELAN PROJ	58	57	57	57	56	56	55	54	54	16	16	54	17	58
14 CHELAN SHARE (PROJ+CONT)	58	57	57	57	56	56	55	54	54	16	16	54	17	58
15 AVC SHARE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 CHELAN AFTER ENC. CHLN	58	57	57	57	56	56	55	54	54	16	16	54	17	58

TABLE A-19

ROCKY REACH AND ROCK ISLAND ALLOCATION

1998 WHITE BOOK: 12/31/98

1999- 0 OPERATING YEAR

RUN DATE: 12/31/98

1937 WATER YEAR

PEAK IN MEGAWATTS

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL
1 ROCKY REACH	1267	1267	1267	1267	1267	1267	1267	1267	1267	1267	1267	1267	1267	1267
2 ROCKY REACH AFTER ENC.	1299	1298	1297	1297	1298	1299	1298	1298	1295	1295	1296	1302	1301	1299
3 PP&L SHARE	69	69	69	69	69	69	69	69	69	69	69	69	69	69
4 PGE SHARE	156	156	156	156	156	156	156	156	155	155	155	156	156	156
5 PSE SHARE	505	505	504	504	505	505	505	505	504	504	504	506	506	505
6 AVC SHARE	38	38	38	38	38	38	38	38	37	37	38	38	38	38
7 DOUGLS SHARE	36	36	36	36	36	36	36	36	36	36	36	36	36	36
8 CHELAN SHARE	196	196	196	196	196	196	196	196	196	196	196	197	197	196
9 COLOCK SHARE	299	298	298	298	298	299	298	298	298	298	298	300	299	299
10 RKY REACH AFTER ENC. CHLN	1299	1298	1297	1297	1298	1299	1298	1298	1295	1295	1296	1302	1301	1299
11 ROCK ISLAND	513	513	513	513	513	513	513	513	513	513	513	513	513	513
12 RISL PH#1 & PH#2 AFTER ENC.	567	569	570	570	569	568	569	569	571	571	570	565	566	568
13 RISL PH#1 AFTER ENC.	173	176	176	176	176	173	175	176	177	177	176	165	167	174
14 CHELAN PH#1 SHARE	86	87	87	87	87	86	87	87	87	87	87	82	82	87
15 PSE PH#1 SHARE	88	89	89	89	89	88	89	89	89	89	89	84	84	87
16 RISL PH#2 AFTER ENC.	394	393	394	394	393	394	393	393	395	395	394	400	400	394
17 CHELAN PH#2 SHARE	0	0	0	0	0	0	0	0	0	0	0	0	0	39
18 PSE PH#2 SHARE	394	393	394	394	393	394	393	393	395	395	394	400	400	354
19 CHELAN TOTAL SHARE	85	87	87	87	87	86	87	87	87	87	87	81	82	126
20 PSE TOTAL SHARE	482	482	483	483	482	482	482	482	484	484	483	484	484	442
21 ROCK ISLAND CHLN	567	569	570	570	569	568	569	569	571	571	570	565	566	568

TABLE A-19

ROCKY REACH AND ROCK ISLAND ALLOCATION

1998 WHITE BOOK: 12/31/98

2003- 4 OPERATING YEAR

RUN DATE: 12/31/98

1937 WATER YEAR

PEAK IN MEGAWATTS

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL
1 ROCKY REACH	1267	1267	1267	1267	1267	1267	1267	1267	1267	1267	1267	1267	1267	1267
2 ROCKY REACH AFTER ENC.	1299	1298	1297	1297	1298	1299	1298	1298	1295	1295	1296	1302	1301	1299
3 PP&L SHARE	69	69	69	69	69	69	69	69	69	69	69	69	69	69
4 PGE SHARE	156	156	156	156	156	156	156	156	155	155	155	156	156	156
5 PSE SHARE	505	505	504	504	505	505	505	505	504	504	504	506	506	505
6 AVC SHARE	38	38	38	38	38	38	38	38	37	37	38	38	38	38
7 DOUGLS SHARE	36	36	36	36	36	36	36	36	36	36	36	36	36	36
8 CHELAN SHARE	196	196	196	196	196	196	196	196	196	196	196	197	197	196
9 COLOCK SHARE	299	298	298	298	298	299	298	298	298	298	298	300	299	299
10 RKY REACH AFTER ENC. CHLN	1299	1298	1297	1297	1298	1299	1298	1298	1295	1295	1296	1302	1301	1299
11 ROCK ISLAND	513	513	513	513	513	513	513	513	513	513	513	513	513	513
12 RISL PH#1 & PH#2 AFTER ENC.	567	569	570	570	569	568	569	569	571	571	570	565	566	568
13 RISL PH#1 AFTER ENC.	173	176	176	176	176	173	175	176	177	177	176	165	167	174
14 CHELAN PH#1 SHARE	87	88	88	88	88	87	88	88	88	88	88	83	83	87
15 PSE PH#1 SHARE	87	88	88	88	88	87	88	88	88	88	88	83	83	87
16 RISL PH#2 AFTER ENC.	394	393	394	394	393	394	393	393	395	395	394	400	400	394
17 CHELAN PH#2 SHARE	158	157	157	158	157	158	157	157	158	158	158	160	160	197
18 PSE PH#2 SHARE	237	236	236	236	236	236	236	236	237	237	237	240	240	197
19 CHELAN TOTAL SHARE	244	245	246	246	245	245	245	245	246	246	246	242	243	284
20 PSE TOTAL SHARE	323	324	324	324	324	323	324	324	325	325	324	323	323	284
21 ROCK ISLAND CHLN	567	569	570	570	569	568	569	569	571	571	570	565	566	568

TABLE A-19

ROCKY REACH AND ROCK ISLAND ALLOCATION

1998 WHITE BOOK: 12/31/98

2008- 9 OPERATING YEAR

RUN DATE: 12/31/98

1937 WATER YEAR

PEAK IN MEGAWATTS

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL
1 ROCKY REACH	1267	1267	1267	1267	1267	1267	1267	1267	1267	1267	1267	1267	1267	1267
2 ROCKY REACH AFTER ENC.	1299	1298	1297	1297	1298	1299	1298	1298	1295	1295	1296	1302	1301	1299
3 PP&L SHARE	69	69	69	69	69	69	69	69	69	69	69	69	69	69
4 PGE SHARE	156	156	156	156	156	156	156	156	155	155	155	156	156	156
5 PSE SHARE	505	505	504	504	505	505	505	505	504	504	504	506	506	505
6 AVC SHARE	38	38	38	38	38	38	38	38	37	37	38	38	38	38
7 DOUGLS SHARE	36	36	36	36	36	36	36	36	36	36	36	36	36	36
8 CHELAN SHARE	196	196	196	196	196	196	196	196	196	196	196	197	197	196
9 COLOCK SHARE	299	298	298	298	298	299	298	298	298	298	298	300	299	299
10 RKY REACH AFTER ENC. CHLN	1299	1298	1297	1297	1298	1299	1298	1298	1295	1295	1296	1302	1301	1299
11 ROCK ISLAND	513	513	513	513	513	513	513	513	513	513	513	513	513	513
12 RISL PH#1 & PH#2 AFTER ENC.	567	569	570	570	569	568	569	569	571	571	570	565	566	568
13 RISL PH#1 AFTER ENC.	173	176	176	176	176	173	175	176	177	177	176	165	167	174
14 CHELAN PH#1 SHARE	87	88	88	88	88	87	88	88	88	88	88	83	83	87
15 PSE PH#1 SHARE	87	88	88	88	88	87	88	88	88	88	88	83	83	87
16 RISL PH#2 AFTER ENC.	394	393	394	394	393	394	393	393	395	395	394	400	400	394
17 CHELAN PH#2 SHARE	197	197	197	197	197	197	197	197	197	197	197	200	200	197
18 PSE PH#2 SHARE	197	197	197	197	197	197	197	197	197	197	197	200	200	197
19 CHELAN TOTAL SHARE	284	285	285	285	285	284	285	285	286	286	285	283	283	284
20 PSE TOTAL SHARE	283	284	285	285	284	284	284	284	285	285	285	282	283	284
21 ROCK ISLAND CHLN	567	569	570	570	569	568	569	569	571	571	570	565	566	568

TABLE A-21

SWIFT 1 AND SWIFT 2 ALLOCATION

1998 WHITE BOOK: 12/31/98

1999- 0 OPERATING YEAR

RUN DATE: 12/31/98

1937 WATER YEAR
PEAK IN MEGAWATTS

	AUG 1-15 ----	AUG 16-31 ----	SEP ----	OCT ----	NOV ----	DEC ----	JAN ----	FEB ----	MAR ----	APR 1-15 ----	APR 16-30 ----	MAY ----	JUN ----	JUL ----
1 SWIFT 1	265	263	256	166	234	225	191	140	140	140	140	0	249	263
2 COWLIZ SHARE	69	68	66	43	61	59	50	36	36	36	36	0	65	68
3 PP&L SHARE (SYSTEM)	196	195	190	123	173	166	141	104	104	104	104	0	184	195
4 SWIFT 1 PP&L	265	263	256	166	234	225	191	140	140	140	140	0	249	263
5 SWIFT 2	60	62	60	49	65	65	67	76	76	76	76	0	64	62
6 COWLIZ SHARE	16	16	16	13	17	17	18	20	20	20	20	0	17	16
7 PP&L SHARE (SYSTEM)	44	46	44	36	48	48	49	56	56	56	56	0	47	46
8 SWIFT 2 COW	60	62	60	49	65	65	67	76	76	76	76	0	64	62

TABLE A-21

SWIFT 1 AND SWIFT 2 ALLOCATION

1998 WHITE BOOK: 12/31/98

2003- 4 OPERATING YEAR

RUN DATE: 12/31/98

1937 WATER YEAR
PEAK IN MEGAWATTS

	AUG 1-15 ----	AUG 16-31 ----	SEP ----	OCT ----	NOV ----	DEC ----	JAN ----	FEB ----	MAR ----	APR 1-15 ----	APR 16-30 ----	MAY ----	JUN ----	JUL ----
1 SWIFT 1	265	263	256	166	234	225	191	140	140	140	140	0	249	263
2 COWLIZ SHARE	69	68	66	43	61	59	50	36	36	36	36	0	65	68
3 PP&L SHARE (SYSTEM)	196	195	190	123	173	166	141	104	104	104	104	0	184	195
4 SWIFT 1 PP&L	265	263	256	166	234	225	191	140	140	140	140	0	249	263
5 SWIFT 2	60	62	60	49	65	65	67	76	76	76	76	0	64	62
6 COWLIZ SHARE	16	16	16	13	17	17	18	20	20	20	20	0	17	16
7 PP&L SHARE (SYSTEM)	44	46	44	36	48	48	49	56	56	56	56	0	47	46
8 SWIFT 2 COW	60	62	60	49	65	65	67	76	76	76	76	0	64	62

TABLE A-21

SWIFT 1 AND SWIFT 2 ALLOCATION

1998 WHITE BOOK: 12/31/98

2008- 9 OPERATING YEAR

RUN DATE: 12/31/98

1937 WATER YEAR
PEAK IN MEGAWATTS

	AUG 1-15 ----	AUG 16-31 ----	SEP ----	OCT ----	NOV ----	DEC ----	JAN ----	FEB ----	MAR ----	APR 1-15 ----	APR 16-30 ----	MAY ----	JUN ----	JUL ----
1 SWIFT 1	265	263	256	166	234	225	191	140	140	140	140	0	249	263
2 COWLIZ SHARE	69	68	66	43	61	59	50	36	36	36	36	0	65	68
3 PP&L SHARE (SYSTEM)	196	195	190	123	173	166	141	104	104	104	104	0	184	195
4 SWIFT 1 PP&L	265	263	256	166	234	225	191	140	140	140	140	0	249	263
5 SWIFT 2	60	62	60	49	65	65	67	76	76	76	76	0	64	62
6 COWLIZ SHARE	16	16	16	13	17	17	18	20	20	20	20	0	17	16
7 PP&L SHARE (SYSTEM)	44	46	44	36	48	48	49	56	56	56	56	0	47	46
8 SWIFT 2 COW	60	62	60	49	65	65	67	76	76	76	76	0	64	62

TABLE A-22

NON-UTILITY GENERATING RESOURCES

1998 WHITE BOOK: 12/31/98

1999-0 OPERATING YEAR

RUN DATE: 12/31/98

PEAK IN MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL
NON-UTILITY GENERATING RESOURCES														
-- FEDERAL SYSTEM --														
1 FEDERAL	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-- PUBLIC AGENCIES --														
2 CHELAN COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 CLARK PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 COWLITZ COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 DOUGLAS COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 EUGENE WATER & ELEC BRD	0	0	0	5	5	4	0	1	2	9	9	37	37	11
7 GRANT COUNTY PUD #2	14	14	11	8	0	0	0	0	8	13	13	16	15	15
8 GRAY'S HARBOR COUNTY PUD 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 OKANOGAN COUNTY PUD PUD 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 PEND OREILLE COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 SEATTLE CITY LIGHT	120	120	75	27	4	5	10	12	27	88	88	134	141	138
12 SNOHOMISH COUNTY PUD #1	39	39	39	28	28	28	28	28	28	39	39	39	39	38
13 SPRINGFIELD UTIL BOARD DED	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 TACOMA PUBLIC UTILITIES	53	53	33	15	0	0	0	0	4	35	35	48	55	59
15 SMALL & NON GEN PUBLICS	11	11	11	11	11	11	11	11	11	11	11	11	11	11
16 PUBLIC AGENCIES	237	237	169	94	48	48	49	52	80	195	195	285	298	272
-- INVESTOR-OWNED UTILITIES --														
17 IDAHO POWER COMPANY DED	136	136	117	86	72	53	53	58	70	101	101	129	146	144
18 MONTANA POWER CO. REGIONAL	33	33	30	33	35	33	33	31	32	34	30	24	26	35
19 PACIFICORP	53	53	51	49	53	53	39	61	53	61	61	72	59	58
20 PORTLAND GENERAL ELECTRIC	16	16	16	19	28	31	29	29	28	29	29	27	21	17
21 PUGET SOUND ENERGY	710	710	710	710	710	710	710	710	710	709	709	165	550	710
22 AVISTA CORP (WWP)	243	243	244	244	246	249	250	250	252	252	252	226	226	245
23 INVESTOR-OWNED UTILITIES	1191	1191	1168	1141	1144	1129	1114	1139	1145	1186	1182	643	1028	1209
TOTAL REGIONAL NON-UTILITY GENERATION														
24 TOTAL NON-UTILITY GEN	1429	1429	1338	1236	1193	1178	1164	1192	1226	1382	1378	929	1327	1482
NOTE: THE FOLLOWING UTILITY N-U-G'S ARE SHOWN FOR INFORMATIONAL PURPOSES AND NOT USED IN THE STUDY.														
1. MPC: OUT-OF-REGION N-U-G'S	68	68	72	71	68	69	69	71	72	71	75	81	79	68
2. UPC: N-U-G'S	8	8	8	7	7	6	5	6	7	7	7	11	14	11

TABLE A-22

NON-UTILITY GENERATING RESOURCES

1998 WHITE BOOK: 12/31/98

2003- 4 OPERATING YEAR

RUN DATE: 12/31/98

PEAK IN MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL
NON-UTILITY GENERATING RESOURCES														
-- FEDERAL SYSTEM --														
1 FEDERAL	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-- PUBLIC AGENCIES --														
2 CHELAN COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 CLARK PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 COWLITZ COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 DOUGLAS COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 EUGENE WATER & ELEC BRD	0	0	0	5	5	4	0	1	2	9	9	37	37	11
7 GRANT COUNTY PUD #2	14	14	11	8	0	0	0	0	8	13	13	16	15	15
8 GRAY'S HARBOR COUNTY PUD 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 OKANOGAN COUNTY PUD PUD 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 PEND OREILLE COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 SEATTLE CITY LIGHT	120	120	75	27	4	5	10	12	27	88	88	134	141	138
12 SNOHOMISH COUNTY PUD #1	39	39	39	28	28	28	28	28	28	39	39	39	39	38
13 SPRINGFIELD UTIL BOARD DED	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 TACOMA PUBLIC UTILITIES	53	53	33	15	0	0	0	0	4	35	35	48	55	59
15 SMALL & NON GEN PUBLICS	11	11	11	11	11	11	11	11	11	11	11	11	11	11
16 PUBLIC AGENCIES	237	237	169	94	48	48	49	52	80	195	195	285	298	272
-- INVESTOR-OWNED UTILITIES --														
17 IDAHO POWER COMPANY DED	136	136	117	86	72	53	53	58	70	101	101	129	146	144
18 MONTANA POWER CO. REGIONAL	40	40	37	40	42	40	44	43	40	43	38	33	35	39
19 PACIFICORP	53	53	51	49	53	53	39	61	53	61	61	72	59	58
20 PORTLAND GENERAL ELECTRIC	16	16	16	20	28	31	29	29	28	29	29	27	21	16
21 PUGET SOUND ENERGY	710	710	710	710	710	710	710	710	710	709	709	165	550	710
22 AVISTA CORP (WWP)	184	184	186	185	187	190	191	191	193	193	193	191	191	180
23 INVESTOR-OWNED UTILITIES	1139	1139	1117	1090	1092	1077	1066	1092	1094	1136	1131	617	1002	1147
TOTAL REGIONAL NON-UTILITY GENERATION														
24 TOTAL NON-UTILITY GEN	1377	1377	1287	1185	1141	1126	1116	1145	1175	1332	1327	903	1301	1420

NOTE: THE FOLLOWING UTILITY N-U-G'S ARE SHOWN FOR INFORMATIONAL PURPOSES AND NOT USED IN THE STUDY.

1. MPC: OUT-OF-REGION N-U-G'S	61	61	65	64	61	62	58	59	64	62	67	72	70	64
2. UPC: N-U-G'S	8	8	8	7	7	6	5	6	7	7	7	11	14	11

TABLE A-22

NON-UTILITY GENERATING RESOURCES

1998 WHITE BOOK: 12/31/98

2008- 9 OPERATING YEAR

RUN DATE: 12/31/98

PEAK IN MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL
NON-UTILITY GENERATING RESOURCES														
-- FEDERAL SYSTEM --														
1 FEDERAL	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-- PUBLIC AGENCIES --														
2 CHELAN COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 CLARK PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 COWLITZ COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 DOUGLAS COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 EUGENE WATER & ELEC BRD	0	0	0	5	5	4	0	1	2	9	9	37	37	11
7 GRANT COUNTY PUD #2	14	14	11	8	0	0	0	0	8	13	13	16	15	15
8 GRAY'S HARBOR COUNTY PUD 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 OKANOGAN COUNTY PUD PUD 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 PEND OREILLE COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 SEATTLE CITY LIGHT	121	121	75	28	4	5	10	12	27	88	88	134	142	138
12 SNOHOMISH COUNTY PUD #1	39	39	39	28	28	28	28	28	28	39	39	39	39	39
13 SPRINGFIELD UTIL BOARD DED	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 TACOMA PUBLIC UTILITIES	53	53	33	15	0	0	0	0	4	35	35	49	55	59
15 SMALL & NON GEN PUBLICS	3	3	4	3	4	3	4	3	3	3	3	3	3	3
16 PUBLIC AGENCIES	230	230	162	87	41	40	42	44	72	187	187	278	291	265
-- INVESTOR-OWNED UTILITIES --														
17 IDAHO POWER COMPANY DED	136	136	117	86	72	53	53	58	70	101	101	129	146	144
18 MONTANA POWER CO. REGIONAL	37	37	38	40	43	45	45	43	41	44	39	34	36	40
19 PACIFICORP	53	53	51	49	53	53	39	61	53	61	61	72	59	58
20 PORTLAND GENERAL ELECTRIC	16	16	16	20	28	31	29	29	28	29	29	27	21	16
21 PUGET SOUND ENERGY	710	710	710	710	709	710	710	710	710	710	710	164	550	710
22 AVISTA CORP (WWP)	181	181	181	181	181	181	181	181	181	181	181	181	179	180
23 INVESTOR-OWNED UTILITIES	1133	1133	1113	1086	1086	1073	1057	1082	1083	1126	1121	607	991	1148
TOTAL REGIONAL NON-UTILITY GENERATION														
24 TOTAL NON-UTILITY GEN	1364	1364	1276	1174	1128	1114	1100	1127	1156	1314	1309	886	1283	1414
NOTE: THE FOLLOWING UTILITY N-U-G'S ARE SHOWN FOR INFORMATIONAL PURPOSES AND NOT USED IN THE STUDY.														
1. MPC: OUT-OF-REGION N-U-G'S	64	64	64	64	60	57	57	59	63	61	66	71	69	63
2. UPC: N-U-G'S	8	8	8	7	7	6	5	6	7	7	7	11	14	11

TABLE A-23

DEDICATED RESOURCES														
1998 WHITE BOOK: 12/31/98														
1999- 0 OPERATING YEAR														
RUN DATE: 12/31/98														
1997 WATER YEAR	AUG		SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	APR	MAY	JUN	JUL
PEAK IN MEGAWATTS	1-15	16-31								1-15	16-30			
DEDICATED RESOURCES	----	----	----	----	----	----	----	----	----	----	----	----	----	----
-- PUBLIC AGENCIES --														
1 CHELAN COUNTY PUD #1	320	321	321	321	320	319	319	318	318	280	279	313	277	362
2 CLARK COUNTY PUD #1	237	237	241	246	248	251	258	256	253	253	253	250	246	242
3 COWLITZ COUNTY PUD #1	287	286	284	258	280	278	270	258	258	259	259	203	285	287
4 DOUGLAS COUNTY PUD #1	263	263	263	263	263	263	263	263	263	263	263	263	263	263
5 EUGENE WATER & ELEC BOARD	253	250	262	300	381	428	432	410	375	352	354	323	311	273
6 GRANT COUNTY PUD #2	567	569	568	567	568	569	567	567	569	568	566	568	568	566
7 GRAY'S HARBOR COUNTY PUD 1	30	30	30	30	30	30	30	30	30	30	30	17	30	30
8 OKANOGAN COUNTY PUD #1	66	66	66	66	66	66	66	66	66	66	66	70	70	70
9 PEND OREILLE COUNTY PUD #1	25	26	25	23	25	25	25	26	25	24	22	20	20	21
10 SEATTLE CITY LIGHT	2087	2075	1627	1747	1945	1945	1965	1976	2020	2000	2001	2152	2285	2109
11 SNOHOMISH COUNTY PUD #1	216	216	216	215	215	215	215	215	215	226	226	172	219	219
12 SPRINGFIELD UTILITY BOARD	51	51	51	51	51	51	51	51	51	51	51	51	51	51
13 TACOMA PUBLIC UTILITIES	883	857	716	738	818	765	759	730	561	596	635	428	765	869
14 SMALL & NON GEN PUBLIC	393	393	422	439	465	514	506	514	488	455	455	834	816	809
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15 TOTAL PUBLIC AGENCIES	5677	5639	5091	5264	5675	5718	5726	5679	5492	5423	5460	5663	6206	6170
-- INVESTOR-OWNED UTILITIES --														
16 IDAHO POWER COMPANY	2491	2398	2347	2307	2099	2286	2263	2120	2279	2216	2066	2278	2323	2418
17 MONTANA POWER CO. REGIONAL	432	432	440	444	479	510	516	488	445	414	420	323	388	445
18 PACIFICORP	4316	4326	4162	4017	3967	4182	4145	4145	3865	3929	3879	3504	4477	4163
19 PORTLAND GENERAL ELECTRIC	1588	1583	1591	1586	1583	1580	1578	1580	1578	1505	1578	1570	1577	1586
20 PUGET SOUND ENERGY	3136	3116	2949	2977	3251	3234	3219	3204	3081	2927	3086	2373	2976	3095
21 AVISTA CORP (WWP)	1422	1411	1411	1424	1428	1403	1383	1378	1371	1374	1374	1285	1418	1422
	----	----	----	----	----	----	----	----	----	----	----	----	----	----
22 TOTAL INVESTOR-OWNED UTILS	13385	13266	12900	12755	12807	13195	13104	12915	12619	12365	12403	11333	13159	13129
TOTAL DEDICATED RESOURCES														
23 TOTAL DEDICATED RESOURCES	19062	18905	17991	18019	18482	18913	18830	18594	18111	17788	17863	16996	19365	19299

TABLE A-23

DEDICATED RESOURCES														
1998 WHITE BOOK: 12/31/98														
2003- 4 OPERATING YEAR														
RUN DATE: 12/31/98														
1937 WATER YEAR	AUG		SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	APR	MAY	JUN	JUL
PEAK IN MEGAWATTS	1-15	16-31								1-15	16-30			
DEDICATED RESOURCES	----	----	----	----	----	----	----	----	----	----	----	----	----	----
-- PUBLIC AGENCIES --														
1 CHELAN COUNTY PUD #1	467	465	468	469	467	467	467	465	467	427	426	460	424	505
2 CLARK COUNTY PUD #1	235	235	239	245	247	249	247	245	242	242	242	239	235	231
3 COWLITZ COUNTY PUD #1	132	130	129	103	125	123	115	103	103	103	103	46	129	131
4 DOUGLAS COUNTY PUD #1	305	304	305	305	305	305	305	305	305	305	305	304	305	305
5 EUGENE WATER & ELEC BOARD	177	175	172	108	103	110	97	111	130	147	148	180	176	137
6 GRANT COUNTY PUD #2	542	540	542	542	540	542	542	540	542	540	540	539	540	540
7 GRAY'S HARBOR COUNTY PUD 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 OKANOGAN COUNTY PUD #1	64	64	64	64	63	64	64	63	64	63	63	63	63	63
9 PEND OREILLE COUNTY PUD #1	32	33	32	30	32	32	32	33	32	32	30	28	28	29
10 SEATTLE CITY LIGHT	2051	2039	1591	1712	1909	1910	1930	1940	1985	1913	1914	2170	2250	2074
11 SNOHOMISH COUNTY PUD #1	213	213	213	212	212	212	212	212	212	169	169	223	216	216
12 SPRINGFIELD UTILITY BOARD	31	31	31	31	31	31	31	31	31	31	31	31	31	31
13 TACOMA PUBLIC UTILITIES	862	835	694	717	796	744	738	709	540	521	561	460	743	848
14 SMALL & NON GEN PUBLIC	1055	1057	925	992	1080	1190	1256	1269	1142	1077	1077	1172	1127	1120
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15 TOTAL PUBLIC AGENCIES	6166	6120	5404	5529	5910	5979	6035	6025	5795	5569	5609	5914	6266	6229
-- INVESTOR-OWNED UTILITIES --														
16 IDAHO POWER COMPANY	2523	2430	2384	2341	2119	2321	2375	2211	2008	2480	2507	2567	2423	2518
17 MONTANA POWER CO. REGIONAL	411	411	424	423	458	491	489	463	427	397	404	305	382	435
18 PACIFICORP	4026	4032	3657	3733	4019	3886	3847	3845	3891	3319	3271	3878	4186	4042
19 PORTLAND GENERAL ELECTRIC	1556	1545	1556	1556	1555	1556	1558	1555	1550	1461	1538	1554	1554	1554
20 PUGET SOUND ENERGY	2906	2879	2717	2745	3015	3001	2988	2968	2848	2645	2807	2180	2739	2862
21 AVISTA CORP (WWP)	1413	1400	1401	1412	1417	1392	1371	1366	1360	1262	1261	1375	1409	1412
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22 TOTAL INVESTOR-OWNED UTILS	12835	12697	12139	12210	12583	12647	12628	12408	12084	11564	11788	11859	12693	12823
TOTAL DEDICATED RESOURCES														
23 TOTAL DEDICATED RESOURCES	19001	18817	17543	17739	18493	18626	18663	18433	17879	17133	17397	17773	18959	19052

TABLE A-23

DEDICATED RESOURCES														
1998 WHITE BOOK: 12/31/98														
2008- 9 OPERATING YEAR														
RUN DATE: 12/31/98														
1937 WATER YEAR	AUG	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	APR	MAY	JUN	JUL
PEAK IN MEGAWATTS	1-15	16-31								1-15	16-30			
	----	----	----	----	----	----	----	----	----	----	----	----	----	----
DEDICATED RESOURCES														
-- PUBLIC AGENCIES --														
1 CHELAN COUNTY PUD #1	504	500	504	504	501	502	501	499	501	461	461	496	461	502
2 CLARK COUNTY PUD #1	228	228	231	237	239	241	251	249	246	246	246	243	239	235
3 COWLITZ COUNTY PUD #1	109	107	106	80	102	100	92	80	80	80	80	23	106	108
4 DOUGLAS COUNTY PUD #1	255	254	255	255	255	255	255	255	255	255	255	254	255	255
5 EUGENE WATER & ELEC BOARD	74	72	69	71	67	73	61	74	94	111	112	143	139	100
6 GRANT COUNTY PUD #2	507	503	507	508	504	508	508	504	508	504	504	502	504	504
7 GRAY'S HARBOR COUNTY PUD 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 OKANOGAN COUNTY PUD #1	64	64	64	64	63	64	64	63	64	63	63	63	63	63
9 PEND OREILLE COUNTY PUD #1	56	57	56	54	56	56	56	57	56	56	54	52	52	53
10 SEATTLE CITY LIGHT	1962	1950	1500	1621	1818	1818	1838	1849	1893	1875	1876	2026	2160	1983
11 SNOHOMISH COUNTY PUD #1	249	249	249	238	238	238	238	238	238	249	249	195	249	249
12 SPRINGFIELD UTILITY BOARD	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 TACOMA PUBLIC UTILITIES	795	768	627	650	729	677	671	642	473	507	547	340	676	781
14 SMALL & NON GEN PUBLIC	257	259	256	267	292	326	333	350	323	304	304	283	260	258
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15 TOTAL PUBLIC AGENCIES	5060	5011	4424	4549	4864	4858	4868	4860	4731	4711	4751	4620	5164	5091
-- INVESTOR-OWNED UTILITIES --														
16 IDAHO POWER COMPANY	2599	2506	2460	2395	2189	2397	2374	2210	2185	2480	2153	2568	2423	2518
17 MONTANA POWER CO. REGIONAL	424	424	429	427	463	491	499	471	437	407	415	315	393	445
18 PACIFICORP	3778	3784	3637	3493	3774	3631	3597	3594	3323	3393	3345	3320	3945	3784
19 PORTLAND GENERAL ELECTRIC	1439	1428	1439	1439	1438	1439	1441	1438	1433	1360	1437	1421	1437	1437
20 PUGET SOUND ENERGY	2798	2772	2610	2638	2908	2894	2880	2861	2740	2585	2748	2025	2632	2795
21 AVISTA CORP (WWP)	1364	1353	1353	1365	1370	1345	1324	1319	1313	1316	1315	1227	1360	1363
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22 TOTAL INVESTOR-OWNED UTILS	12402	12267	11928	11757	12142	12197	12115	11893	11431	11541	11413	10876	12190	12342
TOTAL DEDICATED RESOURCES														
23 TOTAL DEDICATED RESOURCES	17462	17278	16352	16306	17006	17055	16983	16753	16162	16252	16164	15496	17354	17433

TABLE A-24

OTHER DEDICATED RESOURCES

1998 WHITE BOOK: 12/31/98

1999-0 OPERATING YEAR

RUN DATE: 12/31/98

1937 WATER YEAR

PEAK IN MEGAWATTS

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL
OTHER DEDICATED RESOURCES	----	----	----	----	----	----	----	----	----	----	----	----	----	----
-- PUBLIC AGENCIES --														
1 CHELAN COUNTY PUD #1	-43	-42	-42	-42	8	8	8	8	7	7	8	7	-43	-43
2 CLARK COUNTY PUD #1	100	100	106	100	150	170	238	250	250	234	234	157	196	223
3 COWLITZ COUNTY PUD #1	30	30	30	0	0	0	0	0	0	0	0	0	0	0
4 DOUGLAS COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 EUGENE WATER & ELEC BOARD	24	26	30	30	30	2	27	21	24	26	25	27	26	10
6 GRANT COUNTY PUD #2	79	79	76	73	65	65	65	65	73	78	78	81	80	80
7 GRAY'S HARBOR COUNTY PUD 1	27	27	27	27	27	27	27	27	27	27	27	14	27	27
8 OKANOGAN COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 PEND OREILLE COUNTY PUD #1	6	6	6	6	6	6	6	6	6	6	6	6	6	6
10 SEATTLE CITY LIGHT	-63	-63	-91	-78	26	47	47	47	47	13	13	1	-59	-59
11 SNOHOMISH COUNTY PUD #1	156	156	156	156	156	206	209	209	209	209	209	159	159	159
12 SPRINGFIELD UTILITY BOARD	21	21	21	21	21	21	21	21	21	21	21	21	21	21
13 TACOMA PUBLIC UTILITIES	-22	-22	-5	47	-4	30	30	30	30	29	29	12	29	28
14 SMALL & NON GEN PUBLIC	55	55	67	59	59	59	58	58	58	41	41	42	41	42
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15 TOTAL PUBLIC AGENCIES	371	373	381	398	544	640	735	741	752	691	690	526	482	494
-- INVESTOR-OWNED UTILITIES --														
16 IDAHO POWER COMPANY	116	116	45	23	21	-35	-35	-33	17	23	23	-29	25	93
17 MONTANA POWER CO. REGIONAL	381	381	375	378	382	379	380	377	377	380	151	459	424	383
18 PACIFICORP	41	41	134	410	455	435	463	447	474	25	25	-541	135	104
19 PORTLAND GENERAL ELECTRIC	1507	1507	1508	1541	1529	1592	1963	1962	1871	1310	1584	1384	1745	1540
20 PUGET SOUND ENERGY	421	421	430	1032	1873	1877	1878	1875	1102	801	639	638	336	431
21 AVISTA CORP (WWP)	-385	-385	-335	-109	-116	-106	-213	-171	-187	-174	-285	-254	-445	-466
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22 TOTAL INVESTOR-OWNED UTILIT	2081	2081	2157	3275	4144	4142	4436	4457	3654	2365	2137	1657	2220	2085
TOTAL OTHER DEDICATED RESOURCES														
23 TOTAL OTHER DEDICATED RES.	2452	2454	2538	3673	4688	4782	5171	5198	4406	3056	2827	2183	2702	2579

TABLE A-24

OTHER DEDICATED RESOURCES

1998 WHITE BOOK: 12/31/98

2003- 4 OPERATING YEAR

RUN DATE: 12/31/98

1937 WATER YEAR

PEAK IN MEGAWATTS

AUG
1-15AUG
16-31

SEP

OCT

NOV

DEC

JAN

FEB

MAR

APR
1-15APR
16-30

MAY

JUN

JUL

OTHER DEDICATED RESOURCES

-- PUBLIC AGENCIES --

1 CHELAN COUNTY PUD #1	-43	-43	-42	-42	7	8	8	7	7	7	8	7	-43	-42
2 CLARK COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 COWLITZ COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 DOUGLAS COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 EUGENE WATER & ELEC BOARD	24	26	30	30	30	2	27	21	24	26	25	27	26	10
6 GRANT COUNTY PUD #2	79	79	76	73	65	65	65	65	73	78	78	81	80	80
7 GRAY'S HARBOR COUNTY PUD 1	54	54	54	54	54	54	54	54	54	27	27	54	54	54
8 OKANOGAN COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 PEND OREILLE COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 SEATTLE CITY LIGHT	-63	-63	-91	-78	26	47	47	47	47	13	13	1	-59	-59
11 SNOHOMISH COUNTY PUD #1	89	89	89	87	84	78	79	82	84	86	86	88	89	89
12 SPRINGFIELD UTILITY BOARD	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 TACOMA PUBLIC UTILITIES	-74	-74	-57	-6	-56	-23	-23	-23	-23	-23	-23	-40	-23	-24
14 SMALL & NON GEN PUBLIC	52	52	50	48	51	53	52	53	52	49	49	52	52	52
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15 TOTAL PUBLIC AGENCIES	118	121	109	166	262	284	309	306	318	263	263	270	176	160

-- INVESTOR-OWNED UTILITIES --

16 IDAHO POWER COMPANY	399	399	327	295	295	245	295	295	295	174	174	242	295	295
17 MONTANA POWER CO. REGIONAL	193	193	186	190	194	191	197	195	188	193	-37	272	225	189
18 PACIFICORP	-2	-2	93	368	612	591	142	126	153	127	127	-440	85	54
19 PORTLAND GENERAL ELECTRIC	1351	1351	1352	1385	1373	1376	1375	1374	1343	922	1196	996	1357	1352
20 PUGET SOUND ENERGY	333	333	333	635	1269	1275	1274	1271	505	503	341	340	39	133
21 AVISTA CORP (WWP)	4	4	5	205	313	366	367	367	280	280	169	164	161	150
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22 TOTAL INVESTOR-OWNED UTILIT	2278	2278	2296	3078	4056	4044	3650	3628	2764	2199	1970	1574	2162	2173

TOTAL OTHER DEDICATED RESOURCES

23 TOTAL OTHER DEDICATED RES.	2396	2399	2405	3244	4318	4328	3959	3934	3082	2462	2233	1844	2338	2333
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TABLE A-24

OTHER DEDICATED RESOURCES

1998 WHITE BOOK: 12/31/98

2008- 9 OPERATING YEAR

RUN DATE: 12/31/98

1937 WATER YEAR

PEAK IN MEGAWATTS

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL
OTHER DEDICATED RESOURCES	----	----	----	----	----	----	----	----	----	----	----	----	----	----
-- PUBLIC AGENCIES --														
1 CHELAN COUNTY PUD #1	-42	-42	-42	-42	8	8	8	8	8	8	7	8	-43	-42
2 CLARK COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 COWLITZ COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 DOUGLAS COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 EUGENE WATER & ELEC BOARD	22	24	28	28	28	0	25	19	22	24	23	25	24	8
6 GRANT COUNTY PUD #2	649	649	646	643	635	635	635	635	643	648	648	651	650	650
7 GRAY'S HARBOR COUNTY PUD 1	54	54	54	54	54	54	54	54	54	54	54	27	54	54
8 OKANOGAN COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 PEND OREILLE COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 SEATTLE CITY LIGHT	-59	-59	-59	-28	26	47	47	47	47	13	13	1	-59	-59
11 SNOHOMISH COUNTY PUD #1	-11	-11	-11	-13	-16	-22	-21	-18	-16	-14	-14	-12	-11	-21
12 SPRINGFIELD UTILITY BOARD	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 TACOMA PUBLIC UTILITIES	17	17	17	18	18	18	18	18	18	18	18	1	18	17
14 SMALL & NON GEN PUBLIC	26	26	26	26	25	26	25	26	26	25	25	26	26	26
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15 TOTAL PUBLIC AGENCIES	655	658	658	685	778	765	791	789	801	775	774	726	659	632
-- INVESTOR-OWNED UTILITIES --														
16 IDAHO POWER COMPANY	295	295	295	295	295	295	295	295	295	174	174	242	295	295
17 MONTANA POWER CO. REGIONAL	188	188	188	190	194	198	199	196	190	195	-35	274	225	190
18 PACIFICORP	364	364	460	463	506	484	454	435	468	441	441	-126	349	246
19 PORTLAND GENERAL ELECTRIC	1351	1351	1352	1385	1373	1376	1375	1374	1343	922	1196	996	1357	1352
20 PUGET SOUND ENERGY	433	433	433	435	969	975	974	971	505	503	341	340	339	443
21 AVISTA CORP (WWP)	251	251	251	301	407	457	457	457	368	368	257	253	300	300
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22 TOTAL INVESTOR-OWNED UTILIT	2882	2882	2979	3069	3744	3785	3754	3728	3169	2603	2374	1979	2865	2826
TOTAL OTHER DEDICATED RESOURCES														
23 TOTAL OTHER DEDICATED RES.	3537	3540	3637	3754	4522	4550	4545	4517	3970	3378	3148	2705	3524	3458

