

MEDIUM LOADS
1998 WHITE BOOK LOAD FORECAST

1998 WHITE BOOK: 12/31/98

1999-0 OPERATING YEAR

RUN DATE: 12/31/98

ENERGY IN AVERAGE MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	12 MO AVG
FIRM LOADS	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
-- FEDERAL SYSTEM --															
1 FEDERAL AGENCIES	146	146	138	142	150	167	161	162	154	142	142	136	135	144	148
2 FEDERAL GPU TRANS LOSSES	41	42	49	75	84	90	81	67	56	56	50	48	44	40	61
3 FEDERAL NGP TRANS LOSSES	95	95	89	93	113	132	135	127	110	103	103	97	97	97	107
4 USBR	161	161	109	42	2	2	2	2	4	49	49	117	151	168	67
5 FEDERAL DSI FIRM LOADS	2484	2484	1945	1911	2088	2489	1578	1209	1051	1051	1051	2156	2155	2487	1884
6 FEDERAL DSI LOSSES	65	65	51	52	61	77	49	37	30	29	29	58	58	65	53
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7 FEDERAL NON-UTILITY LOADS	2992	2993	2381	2315	2498	2957	2006	1604	1405	1430	1424	2612	2640	3001	2320
-- PUBLIC AGENCIES --															
8 CHELAN COUNTY PUD #1	177	177	176	186	202	218	225	208	197	181	181	174	172	179	191
9 CLARK COUNTY PUD #1	337	337	342	408	479	571	562	517	493	424	424	387	342	341	434
10 COWLITZ COUNTY PUD #1	509	509	507	531	561	558	579	566	561	546	546	526	506	512	538
11 DOUGLAS COUNTY PUD #1	106	106	105	113	126	138	152	136	124	107	107	104	105	109	119
12 EUGENE WATER & ELEC BOARD	252	252	256	284	334	362	380	359	331	304	304	274	251	243	302
13 GRANT COUNTY PUD #2	404	404	353	338	329	371	401	372	343	352	352	390	426	403	373
14 GRAY'S HARBOR CO PUD #1	110	110	115	131	151	157	163	156	150	142	142	118	108	109	134
15 OKANOGAN COUNTY PUD #1	60	60	63	63	79	92	88	78	67	60	60	58	61	62	69
16 PEND OREILLE COUNTY PUD #1	45	45	45	48	53	56	65	59	56	51	51	45	43	44	51
17 SEATTLE CITY LIGHT	931	931	942	1074	1195	1238	1306	1195	1224	1111	1111	996	942	931	1090
18 SNOHOMISH COUNTY PUD #1	580	580	629	698	863	908	949	945	821	751	751	654	606	569	748
19 SPRINGFIELD UTILITY BOARD	99	99	97	111	123	134	137	128	122	105	105	108	98	99	113
20 TACOMA PUBLIC UTILITIES	571	571	578	635	720	769	771	734	707	654	654	600	559	557	655
21 SMALL & NON GEN PUBLICS	2837	2837	2662	2667	3030	3260	3396	3216	2954	2860	2860	2765	2796	2896	2945
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22 PUBLIC AGENCIES	7019	7019	6870	7287	8245	8832	9174	8668	8149	7648	7648	7199	7014	7054	7763
-- INVESTOR-OWNED UTILITIES --															
23 AVISTA CORP (WWP)	786	786	769	800	916	1003	1050	982	883	808	808	775	768	771	859
24 IDAHO POWER COMPANY	1672	1672	1498	1422	1501	1584	1634	1551	1428	1435	1435	1576	1776	1834	1576
25 MONTANA POWER CO. REGIONAL	317	317	297	312	330	356	362	338	310	292	292	289	300	320	319
26 PACIFICORP	2235	2235	2223	2239	2448	2747	2718	2769	2402	2190	2190	2204	2130	2271	2381
27 PORTLAND GENERAL ELECTRIC	1861	1861	1876	1977	2189	2337	2374	2193	2128	1991	1991	1870	1832	1820	2037
28 PUGET SOUND ENERGY	2113	2113	2156	2418	2820	3137	3298	3097	2936	2573	2573	2315	2217	2084	2597
29 UTAH POWER & LIGHT	451	451	328	286	301	275	334	346	318	305	305	338	472	526	357
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30 INVESTOR-OWNED UTILITIES	9434	9434	9146	9454	10505	11439	11770	11277	10405	9594	9594	9367	9496	9625	10126

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ENERGY IN AVERAGE MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	12 MO AVG
FIRM LOADS (CONTINUED)	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
-- OTHER ENTITIES --															
31 COLOCKUM TRANSMISSION CO.	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180
32 NON-FED DSI LOAD	705	705	1244	1278	1101	700	1611	1980	2138	2138	2138	1033	1034	702	1305
33 NON-FED DSI FIRM LOSSES	18	18	32	35	32	22	50	61	62	60	60	28	28	18	37
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34 OTHER FIRM LOADS	903	903	1456	1493	1313	902	1841	2221	2380	2378	2378	1241	1242	900	1522
REGIONAL FIRM LOADS															
35 REGIONAL FIRM LOADS	20348	20349	19854	20549	22561	24130	24791	23770	22340	21050	21044	20419	20392	20581	21732
NON-FIRM LOADS															
-- INVESTOR-OWNED UTILITIES --															
36 OTHER NON-FIRM (UTAH)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
REGIONAL NON-FIRM LOADS															
37 REGIONAL NON-FIRM LOAD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
REGIONAL TOTAL LOADS															
38 FEDERAL SYSTEM	2992	2993	2381	2315	2498	2957	2006	1604	1405	1430	1424	2612	2640	3001	2320
39 PUBLIC AGENCIES	7019	7019	6870	7287	8245	8832	9174	8668	8149	7648	7648	7199	7014	7054	7763
40 INVESTOR-OWNED UTILITIES	9434	9434	9146	9454	10505	11439	11770	11277	10405	9594	9594	9367	9496	9625	10126
41 OTHER ENTITIES	903	903	1456	1493	1313	902	1841	2221	2380	2378	2378	1241	1242	900	1522
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42 REGIONAL TOTAL LOADS	20348	20349	19854	20549	22561	24130	24791	23770	22340	21050	21044	20419	20392	20581	21732

MEDIUM LOADS
1998 WHITE BOOK LOAD FORECAST

1998 WHITE BOOK: 12/31/98

2003- 4 OPERATING YEAR

RUN DATE: 12/31/98

ENERGY IN AVERAGE MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	12 MO AVG
FIRM LOADS	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
-- FEDERAL SYSTEM --															
1 FEDERAL AGENCIES	149	149	141	145	154	171	165	166	158	145	145	139	138	148	152
2 FEDERAL GPU TRANS LOSSES	14	14	16	33	38	39	34	24	23	23	15	16	15	15	24
3 FEDERAL NGP TRANS LOSSES	98	98	92	96	116	134	138	130	113	106	106	100	100	99	110
4 USBR	162	162	109	42	2	2	2	2	4	50	50	118	152	169	68
5 FEDERAL DSI FIRM LOADS	2486	2486	1962	2078	2088	2488	1922	1382	1199	1049	1049	2156	2156	2464	1952
6 FEDERAL DSI LOSSES	65	65	51	56	61	77	60	43	35	29	29	58	58	64	55
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7 FEDERAL NON-UTILITY LOADS	2974	2974	2371	2450	2459	2911	2321	1747	1532	1402	1394	2587	2619	2959	2361
-- PUBLIC AGENCIES --															
8 CHELAN COUNTY PUD #1	185	185	184	195	211	227	235	217	206	189	189	181	180	187	200
9 CLARK COUNTY PUD #1	358	358	364	434	506	600	592	546	523	451	451	414	365	362	460
10 COWLITZ COUNTY PUD #1	525	525	523	544	570	564	584	574	571	558	558	541	523	530	551
11 DOUGLAS COUNTY PUD #1	117	117	116	125	140	153	169	151	136	117	117	114	116	120	131
12 EUGENE WATER & ELEC BOARD	259	259	263	290	340	367	384	364	338	311	311	281	258	251	309
13 GRANT COUNTY PUD #2	425	425	371	355	343	386	405	377	349	359	359	400	437	421	386
14 GRAY'S HARBOR CO PUD #1	111	111	117	133	152	157	163	156	151	143	143	120	110	110	135
15 OKANOGAN COUNTY PUD #1	62	62	65	65	80	93	89	79	68	61	61	59	62	64	71
16 PEND OREILLE COUNTY PUD #1	46	46	46	48	54	57	66	59	57	52	52	46	43	45	52
17 SEATTLE CITY LIGHT	935	935	946	1075	1190	1229	1296	1188	1222	1114	1114	1003	950	935	1090
18 SNOHOMISH COUNTY PUD #1	617	617	670	741	911	956	998	996	869	798	798	697	647	605	792
19 SPRINGFIELD UTILITY BOARD	102	102	101	116	128	138	141	132	126	110	110	113	102	102	118
20 TACOMA PUBLIC UTILITIES	574	574	581	636	718	764	774	738	714	663	663	611	569	567	659
21 SMALL & NON GEN PUBLICS	2918	2918	2744	2743	3097	3316	3452	3281	3021	2934	2934	2843	2875	2976	3017
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22 PUBLIC AGENCIES	7234	7234	7090	7500	8439	9007	9349	8859	8351	7860	7860	7423	7237	7275	7969
-- INVESTOR-OWNED UTILITIES --															
23 AVISTA CORP (WWP)	774	774	754	782	895	981	1033	965	867	793	793	762	758	760	844
24 IDAHO POWER COMPANY	1709	1709	1538	1468	1555	1634	1690	1604	1476	1477	1477	1610	1809	1869	1620
25 MONTANA POWER CO. REGIONAL	310	310	289	305	323	349	356	332	304	287	287	284	296	316	313
26 PACIFICORP	2349	2349	2336	2353	2572	2885	2866	2919	2533	2310	2310	2325	2247	2396	2508
27 PORTLAND GENERAL ELECTRIC	1891	1891	1905	2005	2215	2368	2419	2236	2172	2033	2033	1911	1873	1863	2074
28 PUGET SOUND ENERGY	2192	2192	2236	2509	2925	3254	3416	3209	3042	2665	2665	2399	2297	2159	2692
29 UTAH POWER & LIGHT	468	468	341	296	308	281	345	357	327	313	313	349	494	555	369
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30 INVESTOR-OWNED UTILITIES	9693	9693	9400	9718	10794	11752	12124	11621	10721	9879	9879	9640	9774	9918	10419

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FIRM LOADS (CONTINUED)	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
-- OTHER ENTITIES --															
31 COLOCKUM TRANSMISSION CO.	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180
32 NON-FED DSI LOAD	703	703	1227	1111	1101	701	1267	1807	1990	2140	2140	1033	1033	725	1236
33 NON-FED DSI FIRM LOSSES	18	18	32	30	32	22	39	56	58	60	60	28	28	19	35
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34 OTHER FIRM LOADS	901	901	1439	1321	1313	903	1486	2043	2228	2380	2380	1241	1241	924	1452
REGIONAL FIRM LOADS															
35 REGIONAL FIRM LOADS	20802	20802	20300	20989	23005	24573	25280	24270	22832	21520	21512	20891	20871	21076	22200
NON-FIRM LOADS															
-- INVESTOR-OWNED UTILITIES --															
36 OTHER NON-FIRM (UTAH)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
REGIONAL NON-FIRM LOADS															
37 REGIONAL NON-FIRM LOAD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
REGIONAL TOTAL LOADS															
38 FEDERAL SYSTEM	2974	2974	2371	2450	2459	2911	2321	1747	1532	1402	1394	2587	2619	2959	2361
39 PUBLIC AGENCIES	7234	7234	7090	7500	8439	9007	9349	8859	8351	7860	7860	7423	7237	7275	7969
40 INVESTOR-OWNED UTILITIES	9693	9693	9400	9718	10794	11752	12124	11621	10721	9879	9879	9640	9774	9918	10419
41 OTHER ENTITIES	901	901	1439	1321	1313	903	1486	2043	2228	2380	2380	1241	1241	924	1452
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42 REGIONAL TOTAL LOADS	20802	20802	20300	20989	23005	24573	25280	24270	22832	21520	21512	20891	20871	21076	22201

MEDIUM LOADS
1998 WHITE BOOK LOAD FORECAST

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2008- 9 OPERATING YEAR

RUN DATE: 12/31/98

ENERGY IN AVERAGE MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	12 MO AVG
FIRM LOADS	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
-- FEDERAL SYSTEM --															
1 FEDERAL AGENCIES	154	154	145	149	159	177	170	171	162	150	150	143	142	152	156
2 FEDERAL GPU TRANS LOSSES	10	10	12	29	33	34	29	20	19	19	10	11	11	11	19
3 FEDERAL NGP TRANS LOSSES	101	101	96	100	119	137	141	134	117	109	109	104	104	103	114
4 USBR	162	162	109	42	2	2	2	2	4	50	50	118	152	170	68
5 FEDERAL DSI FIRM LOADS	2486	2486	1962	2078	2088	2488	1922	1382	1199	1049	1049	2156	2156	2464	1952
6 FEDERAL DSI LOSSES	65	65	51	56	61	77	60	43	35	29	29	58	58	64	55
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7 FEDERAL NON-UTILITY LOADS	2978	2978	2375	2454	2462	2915	2324	1752	1536	1406	1397	2590	2623	2964	2365
-- PUBLIC AGENCIES --															
8 CHELAN COUNTY PUD #1	192	192	192	202	217	233	241	223	212	195	195	188	187	194	206
9 CLARK COUNTY PUD #1	383	383	390	464	536	632	620	573	552	477	477	440	388	385	487
10 COWLITZ COUNTY PUD #1	540	540	538	555	577	567	584	577	577	568	568	554	537	546	560
11 DOUGLAS COUNTY PUD #1	128	128	126	137	153	168	186	166	149	127	127	125	126	131	143
12 EUGENE WATER & ELEC BOARD	269	269	273	300	350	376	392	373	347	321	321	292	268	261	318
13 GRANT COUNTY PUD #2	449	449	392	373	358	401	420	391	364	377	377	421	461	444	404
14 GRAY'S HARBOR CO PUD #1	113	113	119	135	153	157	163	157	152	145	145	122	111	112	137
15 OKANOGAN COUNTY PUD #1	64	64	67	67	82	95	91	81	70	63	63	62	64	66	73
16 PEND OREILLE COUNTY PUD #1	47	47	47	49	55	58	67	61	58	53	53	47	45	46	53
17 SEATTLE CITY LIGHT	942	942	954	1079	1186	1220	1291	1186	1227	1122	1122	1016	964	946	1094
18 SNOHOMISH COUNTY PUD #1	665	665	722	795	971	1014	1055	1055	926	854	854	749	697	654	846
19 SPRINGFIELD UTILITY BOARD	108	108	107	122	134	144	147	138	132	116	116	119	108	108	124
20 TACOMA PUBLIC UTILITIES	592	592	599	653	732	775	781	747	727	677	677	627	585	584	673
21 SMALL & NON GEN PUBLICS	3025	3025	2854	2847	3189	3396	3536	3374	3118	3039	3039	2952	2986	3084	3117
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22 PUBLIC AGENCIES	7517	7517	7381	7779	8692	9236	9574	9102	8612	8134	8134	7713	7528	7562	8236
-- INVESTOR-OWNED UTILITIES --															
23 AVISTA CORP (WWP)	769	769	745	767	875	959	1013	947	851	781	781	754	754	757	831
24 IDAHO POWER COMPANY	1777	1777	1608	1544	1639	1726	1790	1753	1561	1553	1553	1682	1881	1945	1705
25 MONTANA POWER CO. REGIONAL	314	314	293	309	327	353	362	337	309	291	291	289	301	322	317
26 PACIFICORP	2531	2531	2517	2536	2770	3105	3079	3027	2723	2484	2484	2500	2417	2576	2689
27 PORTLAND GENERAL ELECTRIC	1996	1996	2010	2111	2328	2485	2545	2356	2294	2145	2145	2019	1980	1971	2187
28 PUGET SOUND ENERGY	2310	2310	2355	2643	3083	3429	3637	3416	3238	2838	2838	2554	2446	2298	2854
29 UTAH POWER & LIGHT	493	493	359	311	320	291	354	355	336	321	321	359	514	582	383
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30 INVESTOR-OWNED UTILITIES	10190	10190	9886	10220	11343	12348	12780	12190	11311	10413	10413	10158	10292	10450	10965

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FIRM LOADS (CONTINUED)	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
-- OTHER ENTITIES --															
31 COLOCKUM TRANSMISSION CO.	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180
32 NON-FED DSI LOAD	703	703	1227	1111	1101	701	1267	1807	1990	2140	2140	1033	1033	725	1236
33 NON-FED DSI FIRM LOSSES	18	18	32	30	32	22	39	56	58	60	60	28	28	19	35
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34 OTHER FIRM LOADS	901	901	1439	1321	1313	903	1486	2043	2228	2380	2380	1241	1241	924	1452
REGIONAL FIRM LOADS															
35 REGIONAL FIRM LOADS	21586	21586	21081	21774	23810	25402	26164	25088	23687	22333	22324	21702	21684	21900	23017
NON-FIRM LOADS															
-- INVESTOR-OWNED UTILITIES --															
36 OTHER NON-FIRM (UTAH)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
REGIONAL NON-FIRM LOADS															
37 REGIONAL NON-FIRM LOAD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
REGIONAL TOTAL LOADS															
38 FEDERAL SYSTEM	2978	2978	2375	2454	2462	2915	2324	1752	1536	1406	1397	2590	2623	2964	2365
39 PUBLIC AGENCIES	7517	7517	7381	7779	8692	9236	9574	9102	8612	8134	8134	7713	7528	7562	8236
40 INVESTOR-OWNED UTILITIES	10190	10190	9886	10220	11343	12348	12780	12190	11311	10413	10413	10158	10292	10450	10965
41 OTHER ENTITIES	901	901	1439	1321	1313	903	1486	2043	2228	2380	2380	1241	1241	924	1452
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42 REGIONAL TOTAL LOADS	21586	21586	21081	21774	23810	25402	26164	25088	23687	22333	22324	21702	21684	21900	23017

EXPORTS

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ENERGY IN AVERAGE MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	12 MO AVG
-- UTILITY TRANSACTIONS --	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
41 PP&L TO SMUD PWR S	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
42 PP&L TO SCE PWR S	60	60	40	43	58	57	60	54	60	40	40	43	42	59	51
43 PP&L TO WAPA PWR S	164	164	164	164	164	164	116	116	116	116	116	116	116	116	136
44 PGE TO GLENDALE PWR S	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
45 PGE TO GLENDALE SPX	9	9	9	0	0	0	0	0	0	0	0	0	9	9	3
46 PSE TO PG&E SPX	141	141	141	0	0	0	0	0	0	0	0	0	141	141	47
47 SCL TO NCPA SPX	19	19	30	14	0	0	0	0	0	0	0	0	30	30	10
48 SNOH TO SMUD PWR S	36	36	36	26	26	26	26	26	26	27	27	26	33	33	29
49 TPU TO WAPA PWR S	41	41	69	67	40	29	20	23	32	42	42	42	41	41	41
50 AVC TO MODESTO PWR S	17	17	4	0	0	0	0	0	0	0	0	0	0	0	2
51 UTILITY EXPORTS TO PSW	1744	1744	1760	1467	1319	1342	1276	1260	1199	1309	1342	1451	1834	1761	1478
-- OTHER ENTITIES TRANSACTIONS --	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
52 BOARDMAN(14.8%) TO SDG&E *	65	65	65	65	65	65	65	65	65	66	66	1	33	65	57
53 BOARDMAN(10.2%) TO TURLOCK*	44	44	44	44	44	44	44	44	44	45	45	1	23	44	39
54 LONGVIEW FIBRE TO WAPA *	36	36	36	36	36	36	36	36	36	37	37	37	37	36	36
55 OTHER ENTITIES EXP TO PSW	145	145	145	145	145	145	145	145	145	145	145	36	90	145	131
-- INTRA-COMPANY TRANSFERS TO PSW --	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
56 PP&L TO PP&L N. CALIF.	69	69	23	4	-3	-8	-11	-24	-34	-25	-25	6	63	90	12
57 TOTAL EXPORTS TO PSW	1958	1958	1928	1616	1461	1479	1410	1381	1310	1429	1462	1492	1986	1996	1622
EXPORTS TO CANADA	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
58 BPA CAN. ENT. TO BC HYDRO	307	307	307	307	307	307	307	307	307	307	307	307	307	307	307
59 AVC TO WEST KOOTENAI CAP S	0	0	0	0	19	25	34	21	0	0	0	0	0	0	8
60 EXPORTS TO CANADA	307	307	307	307	326	332	341	327	307	307	307	307	307	307	315
TOTAL EXPORTS	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
61 FEDERAL SYSTEM	1225	1225	1238	1178	1057	1072	1059	1063	997	1104	1138	1226	1443	1406	1174
62 PUBLIC AGENCIES	111	111	135	107	66	55	46	49	58	69	69	68	121	123	84
63 INVESTOR-OWNED UTILITIES	804	804	721	497	524	545	507	459	422	441	440	492	692	735	570
64 OTHER ENTITIES *	145	145	145	145	145	145	145	145	145	148	148	39	93	145	132
65 TOTAL EXPORTS	2285	2285	2239	1927	1792	1817	1757	1716	1622	1762	1795	1825	2349	2409	1960

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

ENERGY IN AVERAGE MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	12 MO AVG
-- UTILITY TRANSACTIONS --	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
41 PP&L TO SMUD PWR S	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
42 PP&L TO SCE PWR S	60	60	40	43	58	57	60	54	60	40	40	43	42	59	51
43 PP&L TO WAPA PWR S	116	116	116	116	116	116	108	108	108	108	108	108	108	108	111
44 PGE TO GLENDALE PWR S	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
45 PGE TO GLENDALE SPX	9	9	9	0	0	0	0	0	0	0	0	0	9	9	3
46 PSE TO PG&E SPX	141	141	141	0	0	0	0	0	0	0	0	0	141	141	47
47 SCL TO NCPA SPX	19	19	30	14	0	0	0	0	0	0	0	0	30	30	10
48 SNOH TO SMUD PWR S	36	36	36	26	26	26	26	26	26	26	26	26	33	33	29
49 TPU TO WAPA PWR S	41	41	69	67	40	29	20	23	32	41	41	41	41	41	40
50 AVC TO MODESTO PWR S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51 UTILITY EXPORTS TO PSW	1526	1526	1565	1273	1133	1148	857	856	802	814	811	901	1277	1298	1121
-- OTHER ENTITIES TRANSACTIONS --	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
52 BOARDMAN(14.8%) TO SDG&E *	65	65	65	65	65	65	65	65	65	65	65	0	32	65	57
53 BOARDMAN(10.2%) TO TURLOCK*	44	44	44	44	44	44	44	44	44	44	44	0	22	44	38
54 LONGVIEW FIBRE TO WAPA *	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
55 OTHER ENTITIES EXP TO PSW	145	145	145	145	145	145	145	145	145	145	145	36	90	145	131
-- INTRA-COMPANY TRANSFERS TO PSW --	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
56 PP&L TO PP&L N. CALIF.	74	74	27	9	1	-2	-5	-19	-29	-20	-20	10	68	96	17
57 TOTAL EXPORTS TO PSW	1745	1745	1737	1427	1279	1291	997	982	918	939	936	947	1435	1539	1270
EXPORTS TO CANADA	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
58 BPA CAN. ENT. TO BC HYDRO	530	530	530	530	530	530	530	530	530	530	530	530	530	530	530
59 AVC TO WEST KOOTENAI CAP S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60 EXPORTS TO CANADA	530	530	530	530	530	530	530	530	530	530	530	530	530	530	530
TOTAL EXPORTS	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
61 FEDERAL SYSTEM	1395	1395	1412	1341	1233	1252	1032	1033	964	949	946	1037	1246	1248	1178
62 PUBLIC AGENCIES	111	111	135	107	66	55	46	49	58	67	67	67	121	123	84
63 INVESTOR-OWNED UTILITIES	716	716	647	425	441	450	385	363	354	368	368	400	612	670	486
64 OTHER ENTITIES *	145	145	145	145	145	145	145	145	145	145	145	36	90	145	131
65 TOTAL EXPORTS	2367	2367	2339	2018	1885	1902	1608	1590	1521	1529	1526	1540	2069	2186	1879

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

ENERGY IN AVERAGE MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	12 MO AVG
-- UTILITY TRANSACTIONS --	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
41 PP&L TO SMUD PWR S	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
42 PP&L TO SCE PWR S	0	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	0	0
44 PGE TO GLENDALE PWR S	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
45 PGE TO GLENDALE SPX	9	9	9	0	0	0	0	0	0	0	0	0	9	9	3
46 PSE TO PG&E SPX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47 SCL TO NCPA SPX	19	19	30	14	0	0	0	0	0	0	0	0	30	30	10
48 SNOH TO SMUD PWR S	0	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	0
50 AVC TO MODESTO PWR S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51 UTILITY EXPORTS TO PSW	501	501	537	448	396	410	395	400	336	364	360	436	387	374	415
-- OTHER ENTITIES TRANSACTIONS --	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
52 BOARDMAN(14.8%) TO SDG&E *	65	65	65	65	65	65	65	65	65	65	65	0	33	65	57
53 BOARDMAN(10.2%) TO TURLOCK*	44	44	44	44	44	44	44	44	44	44	44	0	22	44	38
54 LONGVIEW FIBRE TO WAPA *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55 OTHER ENTITIES EXP TO PSW	109	109	109	109	109	109	109	109	109	109	109	0	55	109	95
-- INTRA-COMPANY TRANSFERS TO PSW --	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
56 PP&L TO PP&L N. CALIF.	80	80	31	13	6	3	1	-9	-23	15	-15	16	75	101	24
57 TOTAL EXPORTS TO PSW	690	690	677	570	511	522	505	500	422	488	454	452	517	584	535
EXPORTS TO CANADA	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
58 BPA CAN. ENT. TO BC HYDRO	517	517	517	517	517	517	517	517	517	517	517	517	517	517	517
59 AVC TO WEST KOOTENAI CAP S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60 EXPORTS TO CANADA	517	517	517	517	517	517	517	517	517	517	517	517	517	517	517
TOTAL EXPORTS	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
61 FEDERAL SYSTEM	906	906	924	878	854	878	863	865	794	776	772	852	793	793	848
62 PUBLIC AGENCIES	34	34	30	14	0	0	0	0	0	0	0	0	47	49	14
63 INVESTOR-OWNED UTILITIES	267	267	218	161	154	151	149	139	125	193	163	194	262	288	190
64 OTHER ENTITIES *	109	109	109	109	109	109	109	109	109	109	109	0	55	109	95
65 TOTAL EXPORTS	1316	1316	1281	1162	1117	1138	1121	1113	1028	1078	1044	1046	1157	1239	1148

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

ENERGY IN AVERAGE MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	12 MO AVG
REGULATED HYDRO PROJECTS															
1 ALBENI FLS AFTER ENC. FED	29	20	26	33	23	24	19	17	21	23	31	33	46	44	28
2 ALDER TPU	51	43	0	3	15	0	1	49	36	42	30	44	20	49	25
3 BONNEVILLE W/EFF IMP FED	248	146	474	453	475	588	505	510	469	513	331	497	403	238	436
4 BOUNDARY AFTER ENC. SCL	246	162	235	365	261	279	218	192	248	281	413	587	605	470	334
5 BOX CANYON AFTER ENC. PENDO	39	27	37	55	40	43	35	31	38	44	60	74	74	63	48
6 BROWNLEE IPC	385	243	236	225	114	266	252	146	258	324	324	305	191	251	240
7 CABINET GORGE AVC	58	39	41	62	76	77	65	52	64	52	84	162	189	128	86
8 CARMEN-SMITH EUG	17	16	16	14	13	16	14	14	17	17	17	17	17	17	16
9 CHELAN AFTER ENC. CHLN	57	52	16	50	50	55	54	54	52	5	5	54	4	57	42
10 CHF JOE AFT ENC W/EFF FED	1323	1116	989	948	1081	1275	1104	1063	716	746	888	1549	1290	1183	1103
11 CUSHMAN 1 TPU	45	41	1	2	6	22	5	30	1	2	2	34	2	33	15
12 CUSHMAN 2 TPU	77	75	0	0	8	43	8	66	0	0	0	70	0	69	28
13 DIABLO SCL	172	88	17	24	88	84	46	36	67	66	60	74	172	172	81
14 DWORSHAK FED	380	202	51	51	51	51	50	50	50	51	53	56	283	381	118
15 FARADAY PGE	10	9	7	7	8	17	10	19	31	43	42	43	37	15	20
16 GORGE SCL	183	101	22	29	99	100	54	42	82	81	75	92	182	182	92
17 GCL -LD+TUR W/EFF IMP FED	2011	1728	1574	1579	1875	2202	1925	1807	1115	1112	1311	2442	2000	1802	1783
18 HELLS CANYON IPC	307	203	197	189	90	201	198	113	194	244	245	239	152	190	189
19 HUNGRY HORSE FED	91	80	76	85	89	90	92	92	88	67	3	3	16	171	77
20 ICE HARBOR FED	58	59	119	130	76	138	125	107	183	59	58	89	58	58	100
21 JOHN DAY FED	794	577	744	710	756	926	803	789	699	767	771	1049	962	790	807
22 KERR REGIONAL MPC	34	26	22	42	49	44	45	29	35	26	26	39	56	73	41
23 LA GRANDE TPU	63	63	0	5	25	0	1	63	59	63	49	63	32	63	36
24 LIBBY FED	265	112	193	169	149	142	81	79	220	72	72	352	350	117	176
25 LITTLE FALLS AVC	12	9	13	14	12	19	13	11	24	31	31	30	34	16	19
26 LITTLE GOOSE FED	278	160	130	129	77	138	127	93	175	248	300	507	380	258	209
27 LONG LAKE AVC	28	22	30	32	28	41	27	24	51	69	73	73	73	38	43
28 LOWER BAKER PSE	72	71	4	4	48	59	9	16	5	24	70	71	61	71	39
29 LOWER GRANITE FED	285	164	136	128	78	139	128	94	178	242	307	511	389	265	212
30 LOWER MONUMENTAL FED	281	161	124	131	76	140	126	107	186	264	316	514	392	267	214
31 MAYFIELD TPU	89	20	41	55	62	55	55	172	70	70	70	8	126	95	72
32 MCNARY FED	710	621	536	511	520	657	582	557	486	534	370	643	531	710	571
33 MERWIN PP&L	15	16	16	26	37	46	104	83	78	108	66	36	52	38	52
34 MONROE STREET AVC	7	6	10	11	9	10	10	7	15	15	15	15	15	14	11
35 MOSSY ROCK TPU	168	37	72	88	97	64	77	248	56	57	31	0	246	180	106
36 NINE MILE AVC	7	6	10	10	8	10	9	7	15	23	23	22	24	11	13
37 NORTH FORK PGE	11	11	8	8	9	19	11	21	34	54	47	53	41	17	24
38 NOXON AVC	80	56	56	92	116	116	93	71	91	81	107	243	308	183	128
39 OAK GROVE PGE	34	34	16	22	31	28	25	34	19	34	34	34	31	34	28
40 OXBOW IPC	161	106	103	98	46	104	103	58	100	125	125	120	75	99	97
41 PACKWOOD WPPSS	6	16	5	4	3	6	4	4	5	9	9	19	30	20	10
42 PELTON PGE	71	35	18	30	34	43	31	45	33	33	33	53	33	42	37
43 POST FALLS AVC	3	2	5	6	4	6	6	3	10	15	14	14	15	6	8
44 PRST RPDS AFTER ENC. GRNT	390	457	410	401	450	525	462	444	306	297	216	505	487	397	422

REGULATED HYDRO PROJECTS

1998 WHITE BOOK: 12/31/98

1999-0 OPERATING YEAR

RUN DATE: 12/31/98

1937 WATER YEAR

ENERGY IN AVERAGE MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	12 MO AVG
REGULATED HYDRO PROJECTS	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
45 RIVER MILL PGE	6	5	4	4	5	10	6	11	17	23	23	23	21	8	11
46 ROCK ISLAND CHLN	288	294	281	276	304	340	310	300	219	205	199	338	328	268	288
47 RKY REACH AFTER ENC. CHLN	619	558	496	486	546	637	561	539	374	375	410	748	686	575	552
48 ROSS SCL	189	73	0	16	97	86	47	36	63	60	52	59	223	190	84
49 ROUND BUTTE PGE	181	80	39	74	82	105	72	108	75	76	78	130	76	100	89
50 SWIFT 1 PP&L	52	26	49	17	80	37	150	26	64	124	99	0	92	57	60
51 SWIFT 2 COW	15	8	14	5	26	12	55	12	31	59	47	0	28	17	22
52 THE DALLES FED	303	297	584	561	599	738	639	637	572	600	402	404	364	295	516
53 THOMPSON FLS REGIONAL MPC	18	15	13	19	21	19	19	15	18	17	18	29	29	30	20
54 TRAIL BRIDGE EUG	4	4	3	3	3	3	3	3	4	4	4	4	4	4	3
55 UPPER BAKER PSE	96	72	0	0	34	40	8	9	22	6	61	53	45	95	35
56 UPPER FALLS AVC	6	5	9	9	7	9	9	6	10	10	9	8	9	10	8
57 WANAPUM AFTER ENC. GRNT	371	404	354	344	397	480	410	390	253	248	231	476	460	353	379
58 WELLS AFTER ENC. DGLS	403	357	319	307	347	406	353	340	228	239	262	457	445	356	349
59 WHITE PSE	62	31	0	3	7	44	17	18	35	47	53	60	63	62	34
60 YALE PP&L	49	20	29	19	67	48	129	75	75	102	111	0	85	41	59
61 REGULATED HYDRO W/ENC.	12313	9487	9030	9173	9884	11922	10500	10074	8740	9228	9266	14227	13442	11838	10748
TOTAL REGULATED HYDRO W/ENCROACHMENTS															
62 FEDERAL SYSTEM	7062	5459	5761	5622	5928	7254	6310	6006	5163	5307	5222	8668	7494	6599	6361
63 PUBLIC AGENCIES	2157	1567	1153	1375	1633	1725	1431	1775	1318	1339	1381	2068	2593	2383	1723
64 INVESTOR-OWNED UTILITIES	2952	2333	2002	2064	2197	2796	2630	2169	2173	2496	2569	3319	3197	2724	2537
65 OTHER ENTITIES	142	128	114	112	126	147	129	124	86	86	94	172	158	132	127
66 TOTAL REGULATED HYDRO W/ENC	12313	9487	9030	9173	9884	11922	10500	10074	8740	9228	9266	14227	13442	11838	10748
HYDRO INDEPENDENTS (FROM TABLE A-4)															
67 FEDERAL SYSTEM	409	407	345	370	296	225	166	187	265	419	498	685	719	423	379
68 PUBLIC AGENCIES	99	102	96	108	109	172	116	101	138	174	172	193	208	143	138
69 INVESTOR-OWNED UTILITIES	566	587	588	535	536	601	537	545	576	657	616	669	658	599	588
70 TOTAL HYDRO INDEPENDENTS	1074	1096	1029	1013	941	998	819	833	979	1250	1286	1547	1585	1165	1105
TOTAL REGIONAL HYDRO															
71 FEDERAL SYSTEM	7471	5866	6106	5992	6224	7479	6476	6193	5428	5726	5720	9353	8213	7022	6740
72 PUBLIC AGENCIES	2256	1669	1249	1483	1742	1897	1547	1876	1456	1513	1553	2261	2801	2526	1861
73 INVESTOR-OWNED UTILITIES	3518	2920	2590	2599	2733	3397	3167	2714	2749	3153	3185	3988	3855	3323	3125
74 OTHER ENTITIES	142	128	114	112	126	147	129	124	86	86	94	172	158	132	127
75 TOTAL REGIONAL HYDRO	13387	10583	10059	10186	10825	12920	11319	10907	9719	10478	10552	15774	15027	13003	11853

REGULATED HYDRO PROJECTS

1998 WHITE BOOK: 12/31/98

2003- 4 OPERATING YEAR

RUN DATE: 12/31/98

1937 WATER YEAR

ENERGY IN AVERAGE MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	12 MO AVG
REGULATED HYDRO PROJECTS															
1 ALBENI FLS AFTER ENC. FED	29	20	26	33	23	24	19	17	21	23	31	33	46	44	28
2 ALDER TPU	51	43	0	3	15	0	1	49	36	42	30	44	20	49	25
3 BONNEVILLE W/EFF IMP FED	251	149	479	458	481	595	512	515	474	520	336	501	406	241	441
4 BOUNDARY AFTER ENC. SCL	246	162	235	365	261	279	218	192	248	281	413	587	605	470	334
5 BOX CANYON AFTER ENC. PENDO	39	27	37	55	40	43	35	31	38	44	60	74	74	63	48
6 BROWNLEE IPC	385	243	236	225	114	266	252	146	258	324	324	305	191	251	240
7 CABINET GORGE AVC	58	39	41	62	76	77	65	52	64	52	84	162	189	128	86
8 CARMEN-SMITH EUG	17	16	16	14	13	16	14	14	17	17	17	17	17	17	16
9 CHELAN AFTER ENC. CHLN	57	52	16	50	50	55	54	54	52	5	5	54	4	57	42
10 CHF JOE AFT ENC W/EFF FED	1340	1128	999	958	1093	1288	1118	1072	724	759	902	1564	1302	1191	1114
11 CUSHMAN 1 TPU	45	41	1	2	6	22	5	30	1	2	2	34	2	33	15
12 CUSHMAN 2 TPU	77	75	0	0	8	43	8	66	0	0	0	70	0	69	28
13 DIABLO SCL	172	88	17	24	88	84	46	36	67	66	60	74	172	172	81
14 DWORSHAK FED	380	202	51	51	51	51	50	50	50	51	53	56	283	381	118
15 FARADAY PGE	10	9	7	7	8	17	10	19	31	43	42	43	37	15	20
16 GORGE SCL	183	101	22	29	99	100	54	42	82	81	75	92	182	182	92
17 GCL -LD+TUR W/EFF IMP FED	2030	1741	1585	1591	1889	2217	1941	1816	1123	1125	1324	2457	2012	1812	1796
18 HELLS CANYON IPC	307	203	197	189	90	201	198	113	194	244	245	239	152	190	189
19 HUNGRY HORSE FED	91	80	76	85	89	90	92	92	88	67	3	3	16	171	77
20 ICE HARBOR FED	58	59	119	130	76	138	125	107	183	59	58	89	58	58	100
21 JOHN DAY FED	794	577	744	710	756	926	803	789	699	767	771	1049	962	790	807
22 KERR REGIONAL MPC	31	24	20	38	45	40	47	30	32	24	24	35	50	57	37
23 LA GRANDE TPU	63	63	0	5	25	0	1	63	59	63	49	63	32	63	36
24 LIBBY FED	265	112	193	169	149	142	81	79	220	72	72	352	350	117	176
25 LITTLE FALLS AVC	12	9	13	14	12	19	13	11	24	31	31	30	34	16	19
26 LITTLE GOOSE FED	278	160	130	129	77	138	127	93	175	248	300	507	380	258	209
27 LONG LAKE AVC	28	22	30	32	28	41	27	24	51	69	73	73	73	38	43
28 LOWER BAKER PSE	72	71	4	4	48	59	9	16	5	24	70	71	61	71	39
29 LOWER GRANITE FED	285	164	136	128	78	139	128	94	178	242	307	511	389	265	212
30 LOWER MONUMENTAL FED	281	161	124	131	76	140	126	107	186	264	316	514	392	267	214
31 MAYFIELD TPU	89	20	41	55	62	55	55	172	70	70	70	8	126	95	72
32 MCNARY FED	710	621	536	511	520	657	582	557	486	534	370	643	531	710	571
33 MERWIN PP&L	15	16	16	26	37	46	104	83	78	108	66	36	52	38	52
34 MONROE STREET AVC	7	6	10	11	9	10	10	7	15	15	15	15	15	14	11
35 MOSSY ROCK TPU	168	37	72	88	97	64	77	248	56	57	31	0	246	180	106
36 NINE MILE AVC	7	6	10	10	8	10	9	7	15	23	23	22	24	11	13
37 NORTH FORK PGE	11	11	8	8	9	19	11	21	34	54	47	53	41	17	24
38 NOXON AVC	80	56	56	92	116	116	93	71	91	81	107	243	308	183	128
39 OAK GROVE PGE	34	34	16	22	31	28	25	34	19	34	34	34	31	34	28
40 OXBOW IPC	161	106	103	98	46	104	103	58	100	125	125	120	75	99	97
41 PACKWOOD WPPSS	6	16	5	4	3	6	4	4	5	9	9	19	30	20	10
42 PELTON PGE	71	35	18	30	34	43	31	45	33	33	33	53	33	42	37
43 POST FALLS AVC	3	2	5	6	4	6	6	3	10	15	14	14	15	6	8
44 PRST RPDS AFTER ENC. GRNT	390	457	410	401	450	525	462	444	306	297	216	505	487	397	422

REGULATED HYDRO PROJECTS

1998 WHITE BOOK: 12/31/98

2003- 4 OPERATING YEAR

RUN DATE: 12/31/98

1937 WATER YEAR

ENERGY IN AVERAGE MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	12 MO AVG
REGULATED HYDRO PROJECTS	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
45 RIVER MILL PGE	6	5	4	4	5	10	6	11	18	23	23	23	21	8	12
46 ROCK ISLAND CHLN	288	294	281	276	304	340	310	300	219	205	199	338	328	268	288
47 RKY REACH AFTER ENC. CHLN	619	558	496	486	546	637	561	539	374	375	410	748	686	575	552
48 ROSS SCL	189	73	0	16	97	86	47	36	63	60	52	59	224	190	84
49 ROUND BUTTE PGE	181	80	38	74	82	105	72	108	75	76	78	130	76	100	89
50 SWIFT 1 PP&L	52	26	49	17	80	37	150	26	64	124	99	0	92	57	60
51 SWIFT 2 COW	15	8	14	5	26	12	55	12	31	59	47	0	28	17	22
52 THE DALLES FED	303	297	584	561	599	738	639	637	572	600	402	404	364	295	516
53 THOMPSON FLS REGIONAL MPC	17	14	12	17	19	18	19	15	17	16	16	25	26	23	19
54 TRAIL BRIDGE EUG	4	4	3	3	3	3	3	3	4	4	4	4	4	4	3
55 UPPER BAKER PSE	96	72	0	0	34	40	8	9	22	6	61	53	45	95	35
56 UPPER FALLS AVC	6	5	9	9	7	9	9	6	10	10	9	8	9	10	8
57 WANAPUM AFTER ENC. GRNT	371	404	354	344	397	480	410	390	253	248	231	476	460	353	379
58 WELLS AFTER ENC. DGLS	403	357	319	307	347	406	353	340	228	239	262	457	445	356	349
59 WHITE PSE	62	31	0	3	7	44	17	18	35	47	53	60	63	62	34
60 YALE PP&L	49	20	29	19	67	48	129	75	75	102	111	0	85	41	59
61 REGULATED HYDRO W/ENC.	12348	9512	9052	9194	9910	11952	10539	10098	8758	9258	9294	14253	13461	11836	10772
TOTAL REGULATED HYDRO W/ENCROACHMENTS															
62 FEDERAL SYSTEM	7101	5487	5787	5649	5960	7289	6347	6029	5184	5340	5254	8702	7521	6620	6390
63 PUBLIC AGENCIES	2199	1618	1204	1425	1691	1792	1490	1831	1358	1371	1399	2134	2655	2415	1774
64 INVESTOR-OWNED UTILITIES	2906	2279	1947	2008	2133	2724	2573	2114	2130	2461	2547	3245	3127	2669	2481
65 OTHER ENTITIES	142	128	114	112	126	147	129	124	86	86	94	172	158	132	127
66 TOTAL REGULATED HYDRO W/ENC	12348	9512	9052	9194	9910	11952	10539	10098	8758	9258	9294	14253	13461	11836	10772
HYDRO INDEPENDENTS (FROM TABLE A-4)															
67 FEDERAL SYSTEM	431	429	366	384	304	236	175	195	273	433	512	707	741	445	394
68 PUBLIC AGENCIES	99	102	96	107	109	172	115	102	138	173	171	193	208	143	138
69 INVESTOR-OWNED UTILITIES	554	574	575	524	526	589	532	541	564	643	603	657	646	579	577
70 TOTAL HYDRO INDEPENDENTS	1084	1105	1037	1015	939	997	822	838	975	1249	1286	1557	1595	1167	1109
TOTAL REGIONAL HYDRO															
71 FEDERAL SYSTEM	7532	5916	6153	6033	6264	7525	6522	6224	5457	5773	5766	9409	8262	7065	6784
72 PUBLIC AGENCIES	2298	1720	1300	1532	1800	1964	1605	1933	1496	1544	1570	2327	2863	2558	1912
73 INVESTOR-OWNED UTILITIES	3460	2853	2522	2532	2659	3313	3105	2655	2694	3104	3150	3902	3773	3248	3057
74 OTHER ENTITIES	142	128	114	112	126	147	129	124	86	86	94	172	158	132	127
75 TOTAL REGIONAL HYDRO	13432	10617	10089	10209	10849	12949	11361	10936	9733	10507	10580	15810	15056	13003	11880

REGULATED HYDRO PROJECTS

1998 WHITE BOOK: 12/31/98

2008- 9 OPERATING YEAR

RUN DATE: 12/31/98

1937 WATER YEAR

ENERGY IN AVERAGE MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	12 MO AVG
REGULATED HYDRO PROJECTS															
1 ALBENI FLS AFTER ENC. FED	29	20	26	33	23	24	19	17	21	23	31	33	45	44	28
2 ALDER TPU	51	43	0	3	15	0	1	49	36	42	30	44	20	49	25
3 BONNEVILLE W/EFF IMP FED	254	152	484	463	487	602	519	520	480	527	340	505	410	243	446
4 BOUNDARY AFTER ENC. SCL	246	162	235	365	260	279	218	192	248	281	413	587	605	470	334
5 BOX CANYON AFTER ENC. PENDO	39	26	37	55	40	43	35	31	38	44	60	74	74	63	48
6 BROWNLEE IPC	385	243	236	225	114	266	252	146	258	324	324	305	191	251	240
7 CABINET GORGE AVC	58	39	41	62	76	77	65	52	64	52	84	162	189	128	86
8 CARMEN-SMITH EUG	17	16	16	14	13	16	14	14	17	17	17	17	17	17	16
9 CHELAN AFTER ENC. CHLN	57	52	16	50	50	55	54	54	52	5	5	54	4	57	42
10 CHF JOE AFT ENC W/EFF FED	1361	1143	1011	971	1109	1305	1137	1082	734	776	919	1584	1317	1203	1129
11 CUSHMAN 1 TPU	45	41	1	2	6	22	5	30	1	2	2	34	2	33	15
12 CUSHMAN 2 TPU	77	75	0	0	8	43	8	66	0	0	0	70	0	69	28
13 DIABLO SCL	172	88	17	24	88	84	46	36	67	66	60	74	172	172	81
14 DWORSHAK FED	380	202	51	51	51	51	50	50	50	51	53	56	283	381	118
15 FARADAY PGE	10	9	7	7	8	17	10	19	31	43	42	43	37	15	20
16 GORGE SCL	183	101	22	29	99	100	54	42	82	81	75	92	182	182	92
17 GCL -LD+TUR W/EFF IMP FED	2049	1755	1596	1602	1903	2232	1956	1824	1132	1138	1338	2473	2025	1822	1809
18 HELLS CANYON IPC	307	203	197	189	90	201	198	113	194	244	245	239	152	190	189
19 HUNGRY HORSE FED	91	80	76	85	89	90	92	92	88	67	3	3	16	171	77
20 ICE HARBOR FED	58	59	119	130	76	138	125	107	183	59	58	89	58	58	100
21 JOHN DAY FED	794	577	744	710	756	926	803	789	699	767	771	1049	962	790	807
22 KERR REGIONAL MPC	27	21	21	39	45	46	47	30	33	24	24	36	51	58	38
23 LA GRANDE TPU	63	63	0	5	25	0	1	63	59	63	49	63	32	63	36
24 LIBBY FED	265	112	193	169	149	142	81	79	220	72	72	352	350	117	176
25 LITTLE FALLS AVC	12	9	13	14	12	19	13	11	24	31	31	30	34	16	19
26 LITTLE GOOSE FED	278	160	130	129	77	138	127	93	175	248	300	507	380	258	209
27 LONG LAKE AVC	28	22	30	32	28	41	27	24	51	69	73	73	73	38	43
28 LOWER BAKER PSE	72	71	4	4	48	59	9	16	5	24	70	71	61	71	39
29 LOWER GRANITE FED	285	164	136	128	78	139	128	94	178	242	307	511	389	265	212
30 LOWER MONUMENTAL FED	281	161	124	131	76	140	126	107	186	264	316	514	392	267	214
31 MAYFIELD TPU	89	20	41	55	62	55	55	172	70	70	70	8	126	95	72
32 MCNARY FED	710	621	536	511	520	657	582	557	486	534	370	643	531	710	571
33 MERWIN PP&L	15	16	16	26	37	46	104	83	78	108	66	36	52	38	52
34 MONROE STREET AVC	7	6	10	11	9	10	10	7	15	15	15	15	15	14	11
35 MOSSY ROCK TPU	168	37	72	88	97	64	77	248	56	57	31	0	246	180	106
36 NINE MILE AVC	7	6	10	10	8	10	9	7	15	23	23	22	24	11	13
37 NORTH FORK PGE	11	11	8	8	9	19	11	21	34	54	47	53	41	17	24
38 NOXON AVC	80	56	56	92	116	116	93	71	91	81	107	243	308	183	128
39 OAK GROVE PGE	34	34	16	22	31	28	25	34	19	34	34	34	31	34	28
40 OXBOW IPC	161	106	103	98	46	104	103	58	100	125	125	120	75	99	97
41 PACKWOOD WPPSS	6	16	5	4	3	6	4	4	5	9	9	19	30	20	10
42 PELTON PGE	71	35	18	30	34	43	31	45	33	33	33	53	33	42	37
43 POST FALLS AVC	3	2	5	6	4	6	6	3	10	15	14	14	15	6	8
44 PRST RPDS AFTER ENC. GRNT	390	457	410	401	450	525	462	444	306	297	216	505	487	397	422

REGULATED HYDRO PROJECTS

1998 WHITE BOOK: 12/31/98

2008- 9 OPERATING YEAR

RUN DATE: 12/31/98

1937 WATER YEAR

ENERGY IN AVERAGE MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	12 MO AVG
REGULATED HYDRO PROJECTS	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
45 RIVER MILL PGE	6	5	4	4	5	10	6	11	18	23	23	23	21	8	12
46 ROCK ISLAND CHLN	288	294	281	276	304	340	310	300	219	205	199	338	328	268	288
47 RKY REACH AFTER ENC. CHLN	619	558	496	486	546	637	561	539	374	375	410	748	686	575	552
48 ROSS SCL	189	73	0	16	97	86	47	36	63	60	52	59	223	190	84
49 ROUND BUTTE PGE	181	80	38	74	82	105	72	108	75	76	78	130	76	100	89
50 SWIFT 1 PP&L	52	26	49	17	80	37	150	26	64	124	99	0	92	57	60
51 SWIFT 2 COW	15	8	14	5	26	12	55	12	31	59	47	0	28	17	22
52 THE DALLES FED	303	297	584	561	599	738	639	637	572	600	402	404	364	295	516
53 THOMPSON FLS REGIONAL MPC	14	12	12	17	19	20	20	16	17	16	17	26	26	24	19
54 TRAIL BRIDGE EUG	4	4	3	3	3	3	3	3	4	4	4	4	4	4	3
55 UPPER BAKER PSE	96	72	0	0	34	40	8	9	22	6	61	53	45	95	35
56 UPPER FALLS AVC	6	5	9	9	7	9	9	6	10	10	9	8	9	10	8
57 WANAPUM AFTER ENC. GRNT	371	404	354	344	397	480	410	390	253	248	231	476	460	353	379
58 WELLS AFTER ENC. DGLS	403	357	319	307	347	406	353	340	228	239	262	457	445	356	349
59 WHITE PSE	62	31	0	3	7	44	17	18	35	47	53	60	63	62	34
60 YALE PP&L	49	20	29	19	67	48	129	75	75	102	111	0	85	41	59
61 REGULATED HYDRO W/ENC.	12384	9538	9081	9224	9945	11999	10581	10122	8784	9295	9330	14295	13492	11862	10805
TOTAL REGULATED HYDRO W/ENCROACHMENTS															
62 FEDERAL SYSTEM	7144	5519	5815	5678	5996	7328	6388	6052	5209	5377	5289	8742	7552	6644	6422
63 PUBLIC AGENCIES	2369	1818	1386	1602	1889	2025	1694	2027	1492	1499	1489	2358	2871	2579	1959
64 INVESTOR-OWNED UTILITIES	2729	2073	1766	1832	1934	2499	2370	1919	1997	2333	2458	3023	2911	2507	2296
65 OTHER ENTITIES	142	128	114	112	126	147	129	124	86	86	94	172	158	132	127
66 TOTAL REGULATED HYDRO W/ENC	12384	9538	9081	9224	9945	11999	10581	10122	8784	9295	9330	14295	13492	11862	10805
HYDRO INDEPENDENTS (FROM TABLE A-4)															
67 FEDERAL SYSTEM	431	429	366	384	304	236	175	195	273	433	512	707	741	445	394
68 PUBLIC AGENCIES	99	102	96	107	109	172	115	102	138	173	171	193	208	143	138
69 INVESTOR-OWNED UTILITIES	543	562	575	524	527	597	533	541	564	644	604	657	647	579	577
70 TOTAL HYDRO INDEPENDENTS	1073	1093	1037	1015	940	1005	823	838	975	1250	1287	1557	1596	1167	1109
TOTAL REGIONAL HYDRO															
71 FEDERAL SYSTEM	7575	5948	6181	6062	6300	7564	6563	6247	5482	5810	5801	9449	8293	7089	6816
72 PUBLIC AGENCIES	2468	1920	1482	1709	1998	2197	1809	2129	1630	1672	1660	2551	3079	2722	2097
73 INVESTOR-OWNED UTILITIES	3272	2635	2341	2356	2461	3096	2903	2460	2561	2977	3062	3680	3558	3086	2873
74 OTHER ENTITIES	142	128	114	112	126	147	129	124	86	86	94	172	158	132	127
75 TOTAL REGIONAL HYDRO	13457	10631	10118	10239	10885	13004	11404	10960	9759	10545	10617	15852	15088	13029	11914

HYDRO INDEPENDENTS

1998 WHITE BOOK: 12/31/98

1999-0 OPERATING YEAR

RUN DATE: 12/31/98

1937 WATER YEAR

ENERGY IN AVERAGE MEGAWATTS

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	12 MO AVG	
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HYDRO INDEPENDENTS																
1 AMERICAN FALLS IPC	55	55	35	13	0	0	0	0	6	20	20	67	70	75	28	
2 ANDERSON RANCH FED	23	18	11	4	5	11	16	16	5	25	27	11	38	27	16	
3 BIG CLIFF FED	8	7	9	13	15	7	4	7	7	10	17	21	21	8	11	
4 BIG CREEK FED	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	
5 BLACK CANYON FED	10	10	8	9	6	7	9	5	8	10	10	10	8	7	8	
6 BLACK EAGLE REGIONAL MPC	7	7	6	5	6	6	5	5	6	7	5	5	5	6	6	
7 BLISS IPC	41	41	46	44	46	46	43	40	40	39	39	38	38	37	41	
8 BLUE RIVER EUG	3	3	2	2	3	4	3	2	2	3	3	3	3	3	3	
9 BONNEVILLE FISHWAY FED	24	24	25	25	12	12	12	24	24	25	25	25	25	24	21	
10 BULL RUN PGE	5	5	4	2	1	15	7	14	15	15	15	15	15	12	10	
11 C.J.STRIKE IPC	44	44	52	54	59	59	55	51	51	49	49	45	43	38	50	
12 CALISPEL CREEK PENDO	0	0	1	0	0	1	0	0	1	0	0	1	0	0	0	
13 CASCADE IPC	13	13	10	2	2	3	6	2	1	1	1	1	1	11	4	
14 CEDAR FALLS; NEWHALEM SCL	2	2	3	8	11	19	9	7	9	18	18	25	31	2	12	
15 CHANDLER FED	5	5	4	7	12	13	9	9	13	10	10	8	8	5	9	
16 COCHRANE REGIONAL MPC	11	12	9	9	9	9	9	9	9	11	9	8	8	10	9	
17 CNDT SM PLNTS BIG FRK PP&L	23	23	23	20	19	23	20	21	31	36	36	37	37	28	26	
18 COUGAR FED	17	24	12	25	24	6	4	6	7	8	29	29	29	11	16	
19 COWLITZ FALLS FED	10	10	8	6	3	23	10	14	33	48	48	64	66	29	26	
20 DETROIT FED	30	24	32	44	46	20	11	18	20	33	66	106	91	30	41	
21 DEXTER FED	6	6	6	12	16	4	4	5	5	10	16	17	17	6	9	
22 FELT PP&L	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
23 FOSTER FED	4	10	4	8	6	14	4	9	21	22	23	23	23	6	12	
24 GEM STATE HYDRO CIDFL	14	15	11	10	11	12	12	11	15	19	19	17	17	19	14	
25 GREEN PETER FED	22	32	4	26	16	34	8	1	33	89	45	59	49	10	28	
26 GREEN SPRINGS PP&L/FED	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
27 HAUSER REGIONAL MPC	6	6	5	5	5	5	5	5	5	6	5	4	4	6	5	
28 HEBGEN REGIONAL MPC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
29 HILLS CREEK FED	7	7	25	23	27	6	6	4	5	19	31	35	35	14	18	
30 HOLTER REGIONAL MPC	12	13	10	10	10	10	10	10	10	12	10	9	9	11	10	
31 HOOD STREET TPU	0	0	0	1	1	1	1	1	1	1	1	1	1	0	1	
32 IDAHO FALLS FED	19	19	20	20	18	15	18	17	15	17	17	21	21	21	18	
33 ISLAND PARK FLRV	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
34 JACKSON SNOH	18	18	20	21	19	80	33	16	42	65	65	74	82	46	43	
35 KLAMATH PP&L	12	32	51	53	55	52	55	53	50	44	12	1	0	2	35	
36 LAKE CREEK NLGHT	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
37 LEABURG EUG	8	8	6	8	8	7	4	13	13	13	13	13	13	10	10	
38 LOOKOUT POINT FED	25	22	24	45	47	9	9	12	15	38	64	80	75	24	35	
39 LOST CREEK FED	44	34	23	40	26	18	17	12	13	14	15	56	56	46	30	
40 LOWER SALMON IPC	26	26	30	28	30	30	27	25	24	24	24	24	24	23	26	
41 MADISON REGIONAL MPC	4	4	3	3	3	3	3	3	3	4	3	3	2	3	3	
42 MCNARY FISHWY KLICK NWSCO	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
43 MEYERS FALLS AVC	0	0	0	0	0	1	0	0	1	1	1	1	1	1	0	
44 MILL CREEK LEWIS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
45 MLTWN FLT CR REGIONAL MPC	0	1	1	0	0	0	0	0	1	1	0	0	1	0	0	
46 MILNER IPC	0	0	0	0	6	10	5	3	0	0	0	0	0	0	2	
47 MINIDOKA FED	16	16	15	6	2	5	1	1	1	7	7	16	16	16	8	
48 MORONY REGIONAL MPC	13	13	11	11	10	10	10	10	10	13	10	9	9	11	10	
49 MORSE CREEK PANGL	0	0	0	0	0	0	1	1	1	1	1	0	0	1	0	

HYDRO INDEPENDENTS

1998 WHITE BOOK: 12/31/98

1999-0 OPERATING YEAR

RUN DATE: 12/31/98

1937 WATER YEAR

ENERGY IN AVERAGE MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	12 MO AVG
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HYDRO INDEPENDENTS															
50 MOYIE SPRINGS BONFY	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
51 MYSTICE REGIONAL MPC	3	3	3	3	3	2	3	2	3	3	2	2	2	3	3
52 NORTH UMPQUA PP&L	93	93	89	85	82	86	82	92	95	141	141	171	162	104	107
53 PALISADES FED	131	131	119	55	15	15	20	23	27	21	38	95	131	131	66
54 RAINBOW REGIONAL MPC	15	15	12	12	12	11	12	12	12	14	12	10	10	13	12
55 REEDER GULCH ASHLD	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0
56 ROGUE PP&L	33	33	30	27	26	28	25	27	40	50	50	51	51	45	36
57 ROZA - PUMPING LOAD FED	8	8	-4	2	0	5	4	4	13	13	10	9	9	8	6
58 RYAN REGIONAL MPC	3	3	2	2	2	2	2	2	2	2	2	1	2	2	2
59 SHOSHONE FALLS IPC	10	10	12	8	12	12	12	12	7	7	7	6	5	6	9
60 SNOQUALMIE ELCT & NK PSE	37	34	34	30	19	56	28	39	59	62	68	68	68	55	46
61 SODA CREEK SODAS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
62 SOUTH FORK TOLT SCL	9	9	6	5	5	5	5	5	5	5	5	6	8	9	6
63 SPRINGS PLANTS IPC	27	28	28	30	31	31	30	30	27	28	28	27	26	26	28
64 STONE CREEK EUG	4	6	10	10	10	2	7	1	4	6	5	7	6	10	6
65 STRAWBERRY LWVAL	2	1	2	2	2	1	2	2	2	2	1	2	2	2	2
66 SWAN FALLS IPC	14	14	16	18	19	19	17	17	16	16	16	15	14	14	16
67 T W SULLIVAN PGE	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
68 THE DALLES FISHWAY NWSCO	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
69 TWIN FALLS IPC	5	5	8	4	11	14	10	8	0	0	0	0	0	7	6
70 UPPER SALMON 1&2 IPC	18	18	19	19	19	19	19	17	17	16	16	16	16	16	18
71 UPPER SALMON 3&4 IPC	15	15	18	17	18	18	16	15	14	14	14	14	14	13	15
72 WATERVILLE EUG	5	6	4	5	4	5	3	7	8	6	6	9	10	8	6
73 WYNOCHEE TPU	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
74 YELM CNTRA	9	9	6	10	10	10	10	10	10	10	10	10	10	8	9
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75 TOTAL HYDRO INDEPENDENTS	1074	1096	1029	1013	941	998	819	833	979	1250	1286	1547	1585	1165	1105
TOTAL HYDRO INDEPENDENTS															
76 FEDERAL SYSTEM	409	407	345	370	296	225	166	187	265	419	498	685	719	423	379
77 PUBLIC AGENCIES	99	102	96	108	109	172	116	101	138	174	172	193	208	143	138
78 INVESTOR-OWNED UTILITIES	566	587	588	535	536	601	537	545	576	657	616	669	658	599	588
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79 TOTAL HYDRO INDEPENDENTS	1074	1096	1029	1013	941	998	819	833	979	1250	1286	1547	1585	1165	1105

HYDRO INDEPENDENTS

1998 WHITE BOOK: 12/31/98

2003- 4 OPERATING YEAR

RUN DATE: 12/31/98

1937 WATER YEAR

ENERGY IN AVERAGE MEGAWATTS

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	12 MO AVG	
	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
HYDRO INDEPENDENTS																
1 AMERICAN FALLS IPC	55	55	35	13	0	0	0	0	6	20	20	67	70	75	28	
2 ANDERSON RANCH FED	23	18	11	4	5	11	16	16	5	25	27	11	38	27	16	
3 BIG CLIFF FED	8	7	9	13	15	7	4	7	7	10	17	21	21	8	11	
4 BIG CREEK FED	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	
5 BLACK CANYON FED	10	10	8	9	6	7	9	5	8	10	10	10	8	7	8	
6 BLACK EAGLE REGIONAL MPC	6	7	5	5	5	5	6	6	5	6	5	5	4	5	5	
7 BLISS IPC	41	41	46	44	46	46	43	40	40	39	39	38	38	37	41	
8 BLUE RIVER EUG	3	3	2	2	3	4	3	2	2	3	3	3	3	3	3	
9 BONNEVILLE FISHWAY FED	24	24	25	25	12	12	12	24	24	25	25	25	25	24	21	
10 BULL RUN PGE	5	5	4	2	1	15	7	14	15	15	15	15	15	12	10	
11 C.J.STRIKE IPC	44	44	52	54	59	59	55	51	51	49	49	45	43	38	50	
12 CALISPEL CREEK PENDO	0	0	1	0	0	1	0	0	1	0	0	1	0	0	0	
13 CASCADE IPC	13	13	10	2	2	3	6	2	1	1	1	1	1	11	4	
14 CEDAR FALLS; NEWHALEM SCL	2	2	3	8	11	19	9	7	9	18	18	25	31	2	12	
15 CHANDLER FED	5	5	4	7	12	13	9	9	13	10	10	8	8	5	9	
16 COCHRANE REGIONAL MPC	11	11	9	9	9	8	9	9	8	10	8	7	7	8	9	
17 CNDT SM PLNTS BIG FRK PP&L	23	23	23	20	19	23	20	21	31	36	36	37	37	28	26	
18 COUGAR FED	17	24	12	25	24	6	4	6	7	8	29	29	29	11	16	
19 COWLITZ FALLS FED	10	10	8	6	3	23	10	14	33	48	48	64	66	29	26	
20 DETROIT FED	30	24	32	44	46	20	11	18	20	33	66	106	91	30	41	
21 DEXTER FED	6	6	6	12	16	4	4	5	5	10	16	17	17	6	9	
22 FELT PP&L	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
23 FOSTER FED	4	10	4	8	6	14	4	9	21	22	23	23	23	6	12	
24 GEM STATE HYDRO CIDFL	14	15	11	10	11	12	12	11	15	19	19	17	17	19	14	
25 GREEN PETER FED	22	32	4	26	16	34	8	1	33	89	45	59	49	10	28	
26 GREEN SPRINGS PP&L/FED	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
27 HAUSER REGIONAL MPC	6	6	5	5	5	4	5	5	5	6	4	4	4	4	5	
28 HEBGEN REGIONAL MPC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
29 HILLS CREEK FED	7	7	25	23	27	6	6	4	5	19	31	35	35	14	18	
30 HOLTER REGIONAL MPC	11	12	9	9	9	9	10	10	9	11	9	8	8	9	9	
31 HOOD STREET TPU	0	0	0	1	1	1	1	1	1	1	1	1	1	0	1	
32 IDAHO FALLS FED	19	19	20	20	18	15	18	17	15	17	17	21	21	21	18	
33 ISLAND PARK FLRV	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
34 JACKSON SNOH	18	18	20	21	19	80	33	16	42	65	65	74	82	46	43	
35 KLAMATH PP&L	12	32	51	53	55	52	55	53	50	44	12	1	0	2	35	
36 LAKE CREEK NLGHT	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
37 LEABURG EUG	8	8	6	8	8	7	4	13	13	13	13	13	13	10	10	
38 LOOKOUT POINT FED	25	22	24	45	47	9	9	12	15	38	64	80	75	24	35	
39 LOST CREEK FED	44	34	23	40	26	18	17	12	13	14	15	56	56	46	30	
40 LOWER SALMON IPC	26	26	30	28	30	30	27	25	24	24	24	24	24	23	26	
41 MADISON REGIONAL MPC	3	3	3	3	3	3	3	3	3	3	3	2	2	3	3	
42 MCNARY FISHWY KLICK NWSCO	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
43 MEYERS FALLS AVC	0	0	0	0	1	1	0	0	1	1	1	1	1	1	1	
44 MILL CREEK LEWIS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
45 MLTWN FLT CR REGIONAL MPC	1	1	0	0	0	0	0	1	1	1	0	0	1	0	0	
46 MILNER IPC	0	0	0	0	6	10	5	3	0	0	0	0	0	0	2	
47 MINIDOKA FED	31	31	29	13	3	9	3	2	2	14	14	31	31	31	17	
48 MORONY REGIONAL MPC	12	12	10	10	10	9	11	10	10	11	9	8	8	9	10	
49 MORSE CREEK PANGL	0	0	0	0	0	0	1	1	1	0	0	0	0	1	0	

HYDRO INDEPENDENTS

1998 WHITE BOOK: 12/31/98

2003- 4 OPERATING YEAR

RUN DATE: 12/31/98

1937 WATER YEAR

ENERGY IN AVERAGE MEGAWATTS

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	12 MO AVG	
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HYDRO INDEPENDENTS																
50 MOYIE SPRINGS BONFY	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
51 MYSTICE REGIONAL MPC	3	3	2	2	2	2	3	3	2	3	2	2	2	2	2	
52 NORTH UMPQUA PP&L	93	93	89	85	82	86	82	92	95	141	141	171	162	104	107	
53 PALISADES FED	131	131	119	55	15	15	20	23	27	21	38	95	131	131	66	
54 RAINBOW REGIONAL MPC	14	14	11	11	11	11	12	12	11	13	11	9	9	10	11	
55 REEDER GULCH ASHLD	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	
56 ROGUE PP&L	33	33	30	27	26	28	25	27	40	50	50	51	51	45	36	
57 ROZA - PUMPING LOAD FED	8	8	-4	2	0	5	4	4	13	13	10	9	9	8	6	
58 RYAN REGIONAL MPC	2	2	2	2	2	2	2	2	2	2	1	1	2	2	2	
59 SHOSHONE FALLS IPC	10	10	12	8	12	12	12	12	7	7	7	6	5	6	9	
60 SNOQUALMIE ELCT & NK PSE	37	34	34	30	19	56	28	39	59	62	68	68	68	55	46	
61 SODA CREEK SODAS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
62 SOUTH FORK TOLT SCL	9	9	6	5	5	5	5	5	5	5	5	6	8	9	6	
63 SPRINGS PLANTS IPC	27	28	28	30	31	31	30	30	27	28	28	27	26	26	28	
64 STONE CREEK EUG	4	6	10	10	10	2	7	1	4	6	5	7	6	10	6	
65 STRAWBERRY LWVAL	2	1	2	2	2	1	2	2	2	2	1	2	2	2	2	
66 SWAN FALLS IPC	14	14	16	18	19	19	17	17	16	16	16	15	14	14	16	
67 T W SULLIVAN PGE	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	
68 THE DALLES FISHWAY NWSCO	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
69 TWIN FALLS IPC	5	5	8	4	11	14	10	8	0	0	0	0	0	7	6	
70 UPPER SALMON 1&2 IPC	18	18	19	19	19	19	19	17	17	16	16	16	16	16	18	
71 UPPER SALMON 3&4 IPC	15	15	18	17	18	18	16	15	14	14	14	14	14	13	15	
72 WATERVILLE EUG	5	6	4	5	4	5	3	7	8	6	6	9	10	8	6	
73 WYNOCHEE TPU	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
74 YELM CNTRA	9	9	6	10	10	10	10	10	10	10	10	10	10	8	9	
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75 TOTAL HYDRO INDEPENDENTS	1084	1105	1037	1015	939	997	822	838	975	1249	1286	1557	1595	1167	1109	
TOTAL HYDRO INDEPENDENTS																
76 FEDERAL SYSTEM	431	429	366	384	304	236	175	195	273	433	512	707	741	445	394	
77 PUBLIC AGENCIES	99	102	96	107	109	172	115	102	138	173	171	193	208	143	138	
78 INVESTOR-OWNED UTILITIES	554	574	575	524	526	589	532	541	564	643	603	657	646	579	577	
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79 TOTAL HYDRO INDEPENDENTS	1084	1105	1037	1015	939	997	822	838	975	1249	1286	1557	1595	1167	1109	

HYDRO INDEPENDENTS

1998 WHITE BOOK: 12/31/98

2008- 9 OPERATING YEAR

RUN DATE: 12/31/98

1937 WATER YEAR

ENERGY IN AVERAGE MEGAWATTS

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	12 MO AVG	
	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
HYDRO INDEPENDENTS																
1 AMERICAN FALLS IPC	55	55	35	13	0	0	0	0	6	20	20	67	70	75	28	
2 ANDERSON RANCH FED	23	18	11	4	5	11	16	16	5	25	27	11	38	27	16	
3 BIG CLIFF FED	8	7	9	13	15	7	4	7	7	10	17	21	21	8	11	
4 BIG CREEK FED	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	
5 BLACK CANYON FED	10	10	8	9	6	7	9	5	8	10	10	10	8	7	8	
6 BLACK EAGLE REGIONAL MPC	5	6	5	5	6	6	6	6	5	6	5	5	4	5	5	
7 BLISS IPC	41	41	46	44	46	46	43	40	40	39	39	38	38	37	41	
8 BLUE RIVER EUG	3	3	2	2	3	4	3	2	2	3	3	3	3	3	3	
9 BONNEVILLE FISHWAY FED	24	24	25	25	12	12	12	24	24	25	25	25	25	24	21	
10 BULL RUN PGE	5	5	4	2	1	15	7	14	15	15	15	15	15	12	10	
11 C.J.STRIKE IPC	44	44	52	54	59	59	55	51	51	49	49	45	43	38	50	
12 CALISPEL CREEK PENDO	0	0	1	0	0	1	0	0	1	0	0	1	0	0	0	
13 CASCADE IPC	13	13	10	2	2	3	6	2	1	1	1	1	1	11	4	
14 CEDAR FALLS; NEWHALEM SCL	2	2	3	8	11	19	9	7	9	18	18	25	31	2	12	
15 CHANDLER FED	5	5	4	7	12	13	9	9	13	10	10	8	8	5	9	
16 COCHRANE REGIONAL MPC	9	9	9	9	9	9	9	9	8	10	8	7	7	8	8	
17 CNDT SM PLNTS BIG FRK PP&L	23	23	23	20	19	23	20	21	31	36	36	37	37	28	26	
18 COUGAR FED	17	24	12	25	24	6	4	6	7	8	29	29	29	11	16	
19 COWLITZ FALLS FED	10	10	8	6	3	23	10	14	33	48	48	64	66	29	26	
20 DETROIT FED	30	24	32	44	46	20	11	18	20	33	66	106	91	30	41	
21 DEXTER FED	6	6	6	12	16	4	4	5	5	10	16	17	17	6	9	
22 FELT PP&L	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
23 FOSTER FED	4	10	4	8	6	14	4	9	21	22	23	23	23	6	12	
24 GEM STATE HYDRO CIDFL	14	15	11	10	11	12	12	11	15	19	19	17	17	19	14	
25 GREEN PETER FED	22	32	4	26	16	34	8	1	33	89	45	59	49	10	28	
26 GREEN SPRINGS PP&L/FED	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
27 HAUSER REGIONAL MPC	5	5	5	5	5	5	5	5	5	6	4	4	4	4	5	
28 HEBGEN REGIONAL MPC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
29 HILLS CREEK FED	7	7	25	23	27	6	6	4	5	19	31	35	35	14	18	
30 HOLTER REGIONAL MPC	10	10	9	9	9	10	10	10	9	11	9	8	8	9	9	
31 HOOD STREET TPU	0	0	0	1	1	1	1	1	1	1	1	1	1	0	1	
32 IDAHO FALLS FED	19	19	20	20	18	15	18	17	15	17	17	21	21	21	18	
33 ISLAND PARK FLRV	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
34 JACKSON SNOH	18	18	20	21	19	80	33	16	42	65	65	74	82	46	43	
35 KLAMATH PP&L	12	32	51	53	55	52	55	53	50	44	12	1	0	2	35	
36 LAKE CREEK NLGHT	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
37 LEABURG EUG	8	8	6	8	8	7	4	13	13	13	13	13	13	10	10	
38 LOOKOUT POINT FED	25	22	24	45	47	9	9	12	15	38	64	80	75	24	35	
39 LOST CREEK FED	44	34	23	40	26	18	17	12	13	14	15	56	56	46	30	
40 LOWER SALMON IPC	26	26	30	28	30	30	27	25	24	24	24	24	24	23	26	
41 MADISON REGIONAL MPC	3	3	3	3	3	3	3	3	3	3	3	2	2	3	3	
42 MCNARY FISHWY KLINK NWSCO	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
43 MEYERS FALLS AVC	0	0	0	0	1	1	0	0	1	1	1	1	1	1	1	
44 MILL CREEK LEWIS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
45 MLTWN FLT CR REGIONAL MPC	0	0	0	0	0	1	1	0	1	1	0	0	1	0	0	
46 MILNER IPC	0	0	0	0	6	10	5	3	0	0	0	0	0	0	2	
47 MINIDOKA FED	31	31	29	13	3	9	3	2	2	14	14	31	31	31	17	
48 MORONY REGIONAL MPC	10	10	10	10	10	10	11	11	10	12	9	8	8	9	10	
49 MORSE CREEK PANGL	0	0	0	0	0	0	1	1	1	0	0	0	0	1	0	

HYDRO INDEPENDENTS

1998 WHITE BOOK: 12/31/98

2008- 9 OPERATING YEAR

RUN DATE: 12/31/98

1937 WATER YEAR

ENERGY IN AVERAGE MEGAWATTS

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	12 MO AVG
	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
HYDRO INDEPENDENTS															
50 MOYIE SPRINGS BONFY	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
51 MYSTICE REGIONAL MPC	2	2	2	2	2	3	3	3	2	3	2	2	2	2	2
52 NORTH UMPQUA PP&L	93	93	89	85	82	86	82	92	95	141	141	171	162	104	107
53 PALISADES FED	131	131	119	55	15	15	20	23	27	21	38	95	131	131	66
54 RAINBOW REGIONAL MPC	12	12	11	11	11	12	12	12	11	13	11	9	10	10	11
55 REEDER GULCH ASHLD	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
56 ROGUE PP&L	33	33	30	27	26	28	25	27	40	50	50	51	51	45	36
57 ROZA - PUMPING LOAD FED	8	8	-4	2	0	5	4	4	13	13	10	9	9	8	6
58 RYAN REGIONAL MPC	2	2	2	2	2	2	2	2	2	2	2	1	2	2	2
59 SHOSHONE FALLS IPC	10	10	12	8	12	12	12	12	7	7	7	6	5	6	9
60 SNOQUALMIE ELCT & NK PSE	37	34	34	30	19	56	28	39	59	62	68	68	68	55	46
61 SODA CREEK SODAS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
62 SOUTH FORK TOLT SCL	9	9	6	5	5	5	5	5	5	5	5	6	8	9	6
63 SPRINGS PLANTS IPC	27	28	28	30	31	31	30	30	27	28	28	27	26	26	28
64 STONE CREEK EUG	4	6	10	10	10	2	7	1	4	6	5	7	6	10	6
65 STRAWBERRY LWVAL	2	1	2	2	2	1	2	2	2	2	1	2	2	2	2
66 SWAN FALLS IPC	14	14	16	18	19	19	17	17	16	16	16	15	14	14	16
67 T W SULLIVAN PGE	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
68 THE DALLES FISHWAY NWSCO	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
69 TWIN FALLS IPC	5	5	8	4	11	14	10	8	0	0	0	0	0	7	6
70 UPPER SALMON 1&2 IPC	18	18	19	19	19	19	19	17	17	16	16	16	16	16	18
71 UPPER SALMON 3&4 IPC	15	15	18	17	18	18	16	15	14	14	14	14	14	13	15
72 WATERVILLE EUG	5	6	4	5	4	5	3	7	8	6	6	9	10	8	6
73 WYNOCHEE TPU	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
74 YELM CNTRA	9	9	6	10	10	10	10	10	10	10	10	10	10	8	9
	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
75 TOTAL HYDRO INDEPENDENTS	1073	1093	1037	1015	940	1005	823	838	975	1250	1287	1557	1596	1167	1109
TOTAL HYDRO INDEPENDENTS															
76 FEDERAL SYSTEM	431	429	366	384	304	236	175	195	273	433	512	707	741	445	394
77 PUBLIC AGENCIES	99	102	96	107	109	172	115	102	138	173	171	193	208	143	138
78 INVESTOR-OWNED UTILITIES	543	562	575	524	527	597	533	541	564	644	604	657	647	579	577
	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
79 TOTAL HYDRO INDEPENDENTS	1073	1093	1037	1015	940	1005	823	838	975	1250	1287	1557	1596	1167	1109

TABLE A-5

SHEET 1 OF 2

IMPORTS

1998 WHITE BOOK: 12/31/98

1999-0 OPERATING YEAR

RUN DATE: 12/31/98

ENERGY IN AVERAGE MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	12 MO AVG
IMPORTS FROM EAST	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1 BASIN ELEC. TO BPA PWR S	0	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	94
3 IMPORTS FROM EAST	13	13	42	108	161	215	189	145	117	90	90	0	18	34	94
INTRA-COMPANY TRANSFERS FROM EAST															
4 PP&L (WY) TO PP&L	957	957	825	743	822	842	841	823	655	673	673	588	888	951	801
INTRA-COMPANY TRANSFERS FROM INLAND SOUTHWEST															
5 UTAH	451	451	328	286	301	275	334	346	318	305	305	338	472	526	357
IMPORTS FROM PSW															
6 ANAHEIM TO BPA XCHG NRG	0	0	0	6	6	6	6	6	6	6	0	0	0	0	3
7 ANAHEIM TO BPA PK REPL 1	0	0	0	0	5	5	5	5	5	5	5	7	0	0	3
8 ANAHEIM TO BPA PK REPL 2	7	7	7	7	0	0	0	0	0	0	0	0	7	7	3
9 AZUSA TO BPA PWR X	0	0	0	0	3	3	3	3	0	0	0	0	0	0	1
10 AZUSA TO BPA PK REPL	3	3	3	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	0
12 BANNING TO BPA PK REPL	1	1	1	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	0
14 COLTON TO BPA PWR X	0	0	0	0	3	3	3	3	0	0	0	0	0	0	1
15 COLTON TO BPA PK REPL	3	3	3	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	0
17 GLENDALE TO BPA XCHG NRG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 OTHER ENTITIES TO BPA	119	119	111	0	0	0	0	0	0	0	0	0	0	0	19
19 PASADENA TO BPA XCH NRG 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 PASADENA TO BPA XCH NRG 1	0	0	3	3	3	3	3	3	2	0	0	0	0	0	2
21 PASADENA TO BPA PK REPL	4	4	4	0	0	0	0	0	0	0	0	0	0	4	1
22 PASADENA TO BPA SEAS RPLC	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0
23 RIVERSIDE TO BPA XCH NRG 1	0	0	0	6	6	6	6	6	6	6	0	0	0	0	3
24 RIVERSIDE TO BPA PK REPL 1	7	7	7	7	0	0	0	0	0	0	0	0	7	7	3
25 RIVERSIDE TO BPA PK REPL 2	0	0	0	0	5	5	5	5	5	5	5	7	0	0	3
26 RIVERSIDE TO BPA SEAS XCHG	0	0	0	0	9	9	9	9	9	9	9	0	0	0	4
27 RIVERSIDE TO BPA XCH NRG 3	0	0	0	0	16	16	16	16	16	16	0	0	0	0	7
28 RIVERSIDE TO BPA PK REPL 3	11	11	11	11	3	3	3	3	2	2	2	0	0	11	5
29 SIERRA TO BPA HARNEY&WELLS	75	75	75	45	45	45	45	45	45	75	75	75	75	75	60
30 SCE TO BPA XCHG NRG	0	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	0
32 SCE TO BPA ENV STORAGE	0	0	0	0	15	30	31	30	0	0	0	0	0	0	9
33 SCE TO BPA OPT NRG	0	0	0	0	0	0	142	285	285	285	0	0	0	0	71
34 SCE TO BPA PK REPL	74	74	74	74	0	0	0	0	0	0	0	0	74	74	31
35 SCE TO PP&L PWR S	0	0	0	120	120	120	120	120	120	0	0	0	0	0	60
36 GLENDALE TO PGE SPX	0	0	0	0	9	9	9	9	0	0	0	0	0	0	3
37 PG&E TO PSE SPX	0	0	0	0	141	141	141	141	0	0	0	0	0	0	47
38 NCPA TO SCL SPX	0	0	0	0	24	30	30	30	30	6	6	0	0	0	12
39 IMPORTS FROM PSW	304	304	300	280	415	436	579	721	531	415	93	89	163	178	354

IMPORTS

1998 WHITE BOOK: 12/31/98

1999- 0 OPERATING YEAR

RUN DATE: 12/31/98

ENERGY IN AVERAGE MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	12 MO AVG
IMPORTS FROM CANADA	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
40 BC HYDRO TO PSE PWR S	2	2	2	2	3	2	4	3	3	2	2	2	2	2	2
41 BC HYDRO TO SCL ROSS	18	18	13	18	35	45	58	67	59	28	28	26	36	24	36
42 POWEREX TO BENTON REA PWR S	45	45	40	32	27	29	27	32	21	25	25	26	32	38	31
43 PWRX TO BPA (ABC) PK REP	6	6	6	0	0	0	0	0	0	0	0	0	0	0	1
44 PWRX TO BPA (P.ALTO) PK REP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45 POWEREX TO CLRWATER PWR S	8	8	8	8	11	13	12	12	10	10	10	8	8	7	10
46 POWEREX TO EWEB PWR S	17	17	17	19	22	24	26	24	22	20	20	18	17	16	20
47 W KOOTENAY TO AVC PK REP	0	0	0	0	19	25	34	20	0	0	0	0	0	0	8
	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
48 IMPORTS FROM CANADA	96	96	86	79	117	138	161	158	115	85	85	80	95	87	108
TOTAL IMPORTS															
49 FEDERAL SYSTEM	323	323	348	268	282	351	468	566	498	499	177	89	181	212	327
50 PUBLIC AGENCIES	88	88	78	77	119	141	153	165	142	89	89	78	93	85	109
51 INVESTOR-OWNED UTILITIES	1410	1410	1155	1151	1415	1414	1483	1462	1096	980	980	928	1362	1479	1278
	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
52 TOTAL IMPORTS	1821	1821	1581	1496	1816	1906	2104	2193	1736	1568	1246	1095	1636	1776	1714

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

ENERGY IN AVERAGE MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	12 MO AVG
IMPORTS FROM EAST	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1 BASIN ELEC. TO BPA PWR S	0	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	94
3 IMPORTS FROM EAST	13	13	42	108	161	215	189	145	117	90	90	0	18	34	94
INTRA-COMPANY TRANSFERS FROM EAST															
4 PP&L (WY) TO PP&L	809	809	512	583	739	746	741	781	773	657	657	786	802	855	732
INTRA-COMPANY TRANSFERS FROM INLAND SOUTHWEST															
5 UTAH	468	468	341	296	308	281	345	357	327	313	313	349	494	555	369
IMPORTS FROM PSW															
6 ANAHEIM TO BPA XCHG NRG	0	0	0	6	6	6	6	6	6	6	0	0	0	0	3
7 ANAHEIM TO BPA PK REPL 1	0	0	0	0	5	5	5	5	5	5	5	7	0	0	3
8 ANAHEIM TO BPA PK REPL 2	7	7	7	7	0	0	0	0	0	0	0	0	7	7	3
9 AZUSA TO BPA PWR X	0	0	0	0	3	3	3	3	0	0	0	0	0	0	1
10 AZUSA TO BPA PK REPL	3	3	3	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	0
12 BANNING TO BPA PK REPL	1	1	1	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	0
14 COLTON TO BPA PWR X	0	0	0	0	3	3	3	3	0	0	0	0	0	0	1
15 COLTON TO BPA PK REPL	3	3	3	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	0
17 GLENDALE TO BPA XCHG NRG	0	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	0
19 PASADENA TO BPA XCH NRG 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 PASADENA TO BPA XCH NRG 1	0	0	3	3	3	3	3	3	2	0	0	0	0	0	2
21 PASADENA TO BPA PK REPL	4	4	4	0	0	0	0	0	0	0	0	0	0	4	1
22 PASADENA TO BPA SEAS RPLC	0	0	1	1	0	1	1	0	0	0	0	0	0	0	0
23 RIVERSIDE TO BPA XCH NRG 1	0	0	0	6	6	6	6	6	6	6	0	0	0	0	3
24 RIVERSIDE TO BPA PK REPL 1	7	7	7	7	0	0	0	0	0	0	0	0	7	7	3
25 RIVERSIDE TO BPA PK REPL 2	0	0	0	0	5	5	5	5	5	5	5	7	0	0	3
26 RIVERSIDE TO BPA SEAS XCHG	0	0	0	0	9	9	9	9	9	9	0	0	0	0	4
27 RIVERSIDE TO BPA XCH NRG 3	0	0	0	0	16	16	16	16	16	16	0	0	0	0	7
28 RIVERSIDE TO BPA PK REPL 3	11	11	11	11	3	3	3	3	2	2	2	0	0	11	5
29 SIERRA TO BPA HARNEY&WELLS	75	75	75	45	45	45	45	45	45	75	75	75	75	75	60
30 SCE TO BPA XCHG NRG	0	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	0
32 SCE TO BPA ENV STORAGE	0	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	142	285	285	285	0	0	0	0	71
34 SCE TO BPA PK REPL	74	74	74	74	0	0	0	0	0	0	0	0	74	74	31
35 SCE TO PP&L PWR S	0	0	0	120	120	120	0	0	0	0	0	0	0	0	30
36 GLENDALE TO PGE SPX	0	0	0	0	9	9	9	9	0	0	0	0	0	0	3
37 PG&E TO PSE SPX	0	0	0	0	141	141	141	141	0	0	0	0	0	0	47
38 NCPA TO SCL SPX	0	0	0	0	24	30	30	30	30	6	6	0	0	0	12
39 IMPORTS FROM PSW	185	185	189	280	399	406	428	570	411	415	93	89	163	178	296

IMPORTS

1998 WHITE BOOK: 12/31/98

2003- 4 OPERATING YEAR

RUN DATE: 12/31/98

ENERGY IN AVERAGE MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	12 MO AVG
IMPORTS FROM CANADA	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
40 BC HYDRO TO PSE PWR S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41 BC HYDRO TO SCL ROSS	18	18	13	19	35	45	58	67	59	27	27	26	36	24	36
42 POWEREX TO BENTON REA PWR S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43 PWRX TO BPA (ABC) PK REP	6	6	6	0	0	0	0	0	0	0	0	0	0	0	1
44 PWRX TO BPA (P.ALTO) PK REP	0	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	0
46 POWEREX TO EWEB PWR S	16	16	17	0	0	0	0	0	0	0	0	0	0	0	3
47 W KOOTENAY TO AVC PK REP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48 IMPORTS FROM CANADA	40	40	36	19	35	45	58	67	59	27	27	26	36	24	39
TOTAL IMPORTS															
49 FEDERAL SYSTEM	204	204	237	268	266	321	437	535	498	499	177	89	181	212	299
50 PUBLIC AGENCIES	34	34	30	19	59	75	88	97	89	33	33	26	36	24	51
51 INVESTOR-OWNED UTILITIES	1277	1277	853	999	1317	1297	1236	1288	1100	970	970	1135	1296	1410	1181
52 TOTAL IMPORTS	1515	1515	1120	1286	1642	1693	1761	1920	1687	1502	1180	1250	1513	1646	1531

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

ENERGY IN AVERAGE MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	12 MO AVG
IMPORTS FROM EAST	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1 BASIN ELEC. TO BPA PWR S	0	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	94
3 IMPORTS FROM EAST	13	13	42	108	161	215	189	145	117	90	90	0	18	34	94
INTRA-COMPANY TRANSFERS FROM EAST															
4 PP&L (WY) TO PP&L	753	753	619	543	626	627	623	604	433	555	555	434	692	739	604
INTRA-COMPANY TRANSFERS FROM INLAND SOUTHWEST															
5 UTAH	493	493	359	311	320	291	354	355	336	321	321	359	514	582	383
IMPORTS FROM PSW															
6 ANAHEIM TO BPA XCHG NRG	0	0	0	6	6	6	6	6	6	6	0	0	0	0	3
7 ANAHEIM TO BPA PK REPL 1	0	0	0	0	5	5	5	5	5	5	5	7	0	0	3
8 ANAHEIM TO BPA PK REPL 2	7	7	7	7	0	0	0	0	0	0	0	0	0	0	2
9 AZUSA TO BPA PWR X	0	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	0
11 BANNING TO BPA PWR X	0	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	0
13 BURBANK TO BPA XCHG NRG	0	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	0
15 COLTON TO BPA PK REPL	0	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	0
17 GLENDALE TO BPA XCHG NRG	0	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	0
19 PASADENA TO BPA XCH NRG 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 PASADENA TO BPA XCH NRG 1	0	0	3	3	3	3	3	3	2	0	0	0	0	0	2
21 PASADENA TO BPA PK REPL	4	4	4	0	0	0	0	0	0	0	0	0	0	4	1
22 PASADENA TO BPA SEAS RPLC	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0
23 RIVERSIDE TO BPA XCH NRG 1	0	0	0	6	6	6	6	6	6	6	0	0	0	0	3
24 RIVERSIDE TO BPA PK REPL 1	7	7	7	7	0	0	0	0	0	0	0	0	0	0	2
25 RIVERSIDE TO BPA PK REPL 2	0	0	0	0	5	5	5	5	5	5	5	7	0	0	3
26 RIVERSIDE TO BPA SEAS XCHG	0	0	0	0	9	9	9	9	9	9	0	0	0	0	4
27 RIVERSIDE TO BPA XCH NRG 3	0	0	0	0	16	16	16	16	16	16	0	0	0	0	7
28 RIVERSIDE TO BPA PK REPL 3	11	11	11	11	3	3	3	3	2	3	2	0	0	11	5
29 SIERRA TO BPA HARNEY&WELLS	75	75	75	45	45	45	45	45	45	75	75	75	75	75	60
30 SCE TO BPA XCHG NRG	0	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	0
32 SCE TO BPA ENV STORAGE	0	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	0
34 SCE TO BPA PK REPL	0	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	0
36 GLENDALE TO PGE SPX	0	0	0	0	9	9	9	9	0	0	0	0	0	0	3
37 PG&E TO PSE SPX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38 NCPA TO SCL SPX	0	0	0	0	24	30	30	30	30	6	6	0	0	0	12
39 IMPORTS FROM PSW	104	104	108	86	131	137	137	137	126	131	93	89	75	90	111

IMPORTS

1998 WHITE BOOK: 12/31/98

2008- 9 OPERATING YEAR

RUN DATE: 12/31/98

ENERGY IN AVERAGE MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	12 MO AVG
IMPORTS FROM CANADA	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
40 BC HYDRO TO PSE PWR S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41 BC HYDRO TO SCL ROSS	18	18	13	19	35	45	58	67	59	27	27	26	36	24	36
42 POWEREX TO BENTON REA PWR S	0	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	0
44 PWRX TO BPA (P.ALTO) PK REP	0	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	0
46 POWEREX TO EWEB PWR S	0	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	0
48 IMPORTS FROM CANADA	18	18	13	19	35	45	58	67	59	27	27	26	36	24	36
TOTAL IMPORTS															
49 FEDERAL SYSTEM	117	117	150	194	259	313	287	243	213	215	177	89	93	124	190
50 PUBLIC AGENCIES	18	18	13	19	59	75	88	97	89	33	33	26	36	24	48
51 INVESTOR-OWNED UTILITIES	1246	1246	978	854	955	927	986	968	769	876	876	793	1206	1321	990
52 TOTAL IMPORTS	1381	1381	1141	1067	1273	1315	1361	1308	1071	1124	1086	908	1335	1469	1228

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

ENERGY IN AVERAGE MEGAWATTS

AUG
1-15
----AUG
16-31
----SEP
----OCT
----NOV
----DEC
----JAN
----FEB
----MAR
----APR
1-15
----APR
16-30
----MAY
----JUN
----JUL
----12 MO
AVG

SMALL THERMAL AND MISCELLANEOUS RESOURCES

-- PUBLIC AGENCIES --

1 SCL BOUNDARY SCL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 STEAM PLANT 2 TPU	3	3	3	3	3	3	3	3	3	3	3	0	2	3	3
	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
3 PUBLIC AGENCIES	3	3	3	3	3	3	3	3	3	3	3	0	2	3	3

-- INVESTOR-OWNED UTILITIES --

4 ENERGY MGMT SYSTEMS IPC	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17
5 BIRD REGIONAL MPC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 CORETTE REGIONAL MPC	74	76	61	61	61	58	59	59	60	72	58	51	0	66	56
7 CRYSTAL MOUNTAIN PSE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 SHUFFLETON PSE	0	0	0	0	6	6	6	6	0	0	0	0	0	0	2
	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
9 INVESTOR-OWNED UTILITIES	91	93	78	78	84	81	82	82	77	89	75	68	17	83	75

TOTAL SMALL THERMAL & MISCELLANEOUS RESOURCES

10 TOTAL SMALL THERMAL & MISC.	94	96	81	81	87	84	85	85	80	92	78	68	19	86	78
--------------------------------	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

TABLE A-6

SMALL THERMAL AND MISCELLANEOUS RESOURCES

1998 WHITE BOOK: 12/31/98

2003- 4 OPERATING YEAR

RUN DATE: 12/31/98

ENERGY IN AVERAGE MEGAWATTS

AUG

AUG

SEP

OCT

NOV

DEC

JAN

FEB

MAR

APR

APR

MAY

JUN

JUL

12 MO
AVG

1-15

16-31

1-15

16-30

SMALL THERMAL AND MISCELLANEOUS RESOURCES

-- PUBLIC AGENCIES --

1 SCL BOUNDARY SCL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2 STEAM PLANT 2 TPU	3	3	3	3	3	3	3	3	3	3	3	0	2	3	3	
	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
3 PUBLIC AGENCIES	3	3	3	3	3	3	3	3	3	3	3	0	2	3	3	
-- INVESTOR-OWNED UTILITIES --																
4 ENERGY MGMT SYSTEMS IPC	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	
5 BIRD REGIONAL MPC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6 CORETTE REGIONAL MPC	69	70	55	55	56	53	61	61	55	66	53	45	0	52	52	
7 CRYSTAL MOUNTAIN PSE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
8 SHUFFLETON PSE	0	0	0	0	6	6	6	6	0	0	0	0	0	0	2	
	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
9 INVESTOR-OWNED UTILITIES	86	87	72	72	79	76	84	84	72	83	70	62	17	69	71	

TOTAL SMALL THERMAL & MISCELLANEOUS RESOURCES

10 TOTAL SMALL THERMAL & MISC.	89	90	75	75	82	79	87	87	75	86	73	62	19	72	73
--------------------------------	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

TABLE A-6

SMALL THERMAL AND MISCELLANEOUS RESOURCES

1998 WHITE BOOK: 12/31/98

2008- 9 OPERATING YEAR

RUN DATE: 12/31/98

ENERGY IN AVERAGE MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	12 MO AVG
SMALL THERMAL AND MISCELLANEOUS RESOURCES															
-- PUBLIC AGENCIES --															
1 SCL BOUNDARY SCL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 STEAM PLANT 2 TPU	3	3	3	3	3	3	3	3	3	3	3	0	2	3	3
3 PUBLIC AGENCIES	3	3	3	3	3	3	3	3	3	3	3	0	2	3	3
-- INVESTOR-OWNED UTILITIES --															
4 ENERGY MGMT SYSTEMS IPC	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17
5 BIRD REGIONAL MPC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 CORETTE REGIONAL MPC	58	60	56	56	57	60	62	61	56	67	53	46	0	53	52
7 CRYSTAL MOUNTAIN PSE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 SHUFFLETON PSE	0	0	0	0	6	6	6	6	0	0	0	0	0	0	2
9 INVESTOR-OWNED UTILITIES	75	77	73	73	80	83	85	84	73	84	70	63	17	70	71
TOTAL SMALL THERMAL & MISCELLANEOUS RESOURCES															
10 TOTAL SMALL THERMAL & MISC.	78	80	76	76	83	86	88	87	76	87	73	63	19	73	74

TABLE A-7

COMBUSTION TURBINES

1998 WHITE BOOK: 12/31/98

1999-0 OPERATING YEAR

RUN DATE: 12/31/98

ENERGY IN AVERAGE MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	12 MO AVG
COMBUSTION TURBINES															
-- PUBLIC AGENCIES --															
1 RIVER ROAD (COGNTRX) CLRK	231	231	235	240	242	245	252	250	247	247	247	244	240	236	242
-- INVESTOR-OWNED UTILITIES --															
2 BETHEL PGE	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52
3 BEAVER PGE	431	431	431	431	430	430	430	430	222	0	287	431	431	431	389
4 WHIDBEY ISLAND PSE	0	0	0	0	2	2	2	2	0	0	0	0	0	0	1
5 WHITEHORN PSE	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
6 FREDRICKSON PSE	0	0	0	0	13	12	12	13	0	0	0	0	0	0	4
7 FREDONIA UNITS 1&2 PSE	0	0	0	0	17	17	17	19	0	0	0	0	0	0	6
8 NORTHEAST UNITS 1&2 AVC	56	56	56	56	56	56	56	56	56	56	56	28	56	56	54
9 INVESTOR-OWNED UTILITIES	545	545	545	545	576	575	575	578	336	114	401	517	545	545	512
TOTAL COMBUSTION TURBINES															
10 TOTAL COMBUSTION TURBINES	776	776	780	785	818	820	827	828	583	361	648	761	785	781	754

TABLE A-7

COMBUSTION TURBINES

1998 WHITE BOOK: 12/31/98

2003- 4 OPERATING YEAR

RUN DATE: 12/31/98

ENERGY IN AVERAGE MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	12 MO AVG
COMBUSTION TURBINES															
-- PUBLIC AGENCIES --															
1 RIVER ROAD (COGNTRX) CLRK	235	235	239	245	247	249	247	245	242	242	242	239	235	231	241
-- INVESTOR-OWNED UTILITIES --															
2 BETHEL PGE	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52
3 BEAVER PGE	431	431	431	431	430	430	430	430	222	0	287	431	431	431	389
4 WHIDBEY ISLAND PSE	0	0	0	0	2	2	2	2	0	0	0	0	0	0	1
5 WHITEHORN PSE	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
6 FREDRICKSON PSE	0	0	0	0	13	12	12	13	0	0	0	0	0	0	4
7 FREDONIA UNITS 1&2 PSE	0	0	0	0	17	17	17	19	0	0	0	0	0	0	6
8 NORTHEAST UNITS 1&2 AVC	56	56	56	56	56	56	56	56	56	56	56	28	56	56	54
9 INVESTOR-OWNED UTILITIES	545	545	545	545	576	575	575	578	336	114	401	517	545	545	512
TOTAL COMBUSTION TURBINES															
10 TOTAL COMBUSTION TURBINES	780	780	784	790	823	824	822	823	578	356	643	756	780	776	753

TABLE A-7

COMBUSTION TURBINES

1998 WHITE BOOK: 12/31/98

2008- 9 OPERATING YEAR

RUN DATE: 12/31/98

ENERGY IN AVERAGE MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	12 MO AVG
COMBUSTION TURBINES															
-- PUBLIC AGENCIES --															
1 RIVER ROAD (COGNTRX) CLRK	228	228	231	237	239	241	251	249	246	246	246	243	239	235	240
-- INVESTOR-OWNED UTILITIES --															
2 BETHEL PGE	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52
3 BEAVER PGE	431	431	431	431	430	430	430	430	222	0	287	431	431	431	389
4 WHIDBEY ISLAND PSE	0	0	0	0	2	2	2	2	0	0	0	0	0	0	1
5 WHITEHORN PSE	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
6 FREDRICKSON PSE	0	0	0	0	13	12	12	13	0	0	0	0	0	0	4
7 FREDONIA UNITS 1&2 PSE	0	0	0	0	17	17	17	19	0	0	0	0	0	0	6
8 NORTHEAST UNITS 1&2 AVC	56	56	56	56	56	56	56	56	56	56	56	28	56	56	54
9 INVESTOR-OWNED UTILITIES	545	545	545	545	576	575	575	578	336	114	401	517	545	545	512
TOTAL COMBUSTION TURBINES															
10 TOTAL COMBUSTION TURBINES	773	773	776	782	815	816	826	827	582	360	647	760	784	780	752

TABLE A-8

RENEWABLE RESOURCES

1998 WHITE BOOK: 12/31/98

1999- 0 OPERATING YEAR

RUN DATE: 12/31/98

ENERGY IN AVERAGE MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	12 MO AVG
RENEWABLE RESOURCES															
-- FEDERAL SYSTEM --															
1 JR WAUNA	27	27	27	28	29	31	32	31	31	30	30	27	27	27	29
-- PUBLIC AGENCIES --															
2 SHORT MOUNTAIN EMERALD	4	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	2
4 PUBLIC AGENCIES	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
-- INVESTOR-OWNED UTILITIES --															
5 KETTLE FALLS AVC	45	45	45	45	45	45	45	45	45	45	45	0	45	45	41
TOTAL RENEWABLE RESOURCES															
6 TOTAL RENEWABLE RESOURCES	78	78	78	79	80	82	83	82	82	81	81	33	78	78	76

TABLE A-8

RENEWABLE RESOURCES

1998 WHITE BOOK: 12/31/98

2003- 4 OPERATING YEAR

RUN DATE: 12/31/98

ENERGY IN AVERAGE MEGAWATTS	AUG 1-15 ----	AUG 16-31 ----	SEP ----	OCT ----	NOV ----	DEC ----	JAN ----	FEB ----	MAR ----	APR 1-15 ----	APR 16-30 ----	MAY ----	JUN ----	JUL ----	12 MO AVG ----
RENEWABLE RESOURCES															
-- FEDERAL SYSTEM --															
1 JR WAUNA	27	27	27	28	29	31	32	31	31	30	30	27	27	27	29
-- PUBLIC AGENCIES --															
2 SHORT MOUNTAIN EMERALD	4	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	2
	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
4 PUBLIC AGENCIES	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
-- INVESTOR-OWNED UTILITIES --															
5 KETTLE FALLS AVC	45	45	45	45	45	45	45	45	45	45	45	0	45	45	41
TOTAL RENEWABLE RESOURCES															
6 TOTAL RENEWABLE RESOURCES	78	78	78	79	80	82	83	82	82	81	81	33	78	78	76

TABLE A-8

RENEWABLE RESOURCES

1998 WHITE BOOK: 12/31/98

2008- 9 OPERATING YEAR

RUN DATE: 12/31/98

ENERGY IN AVERAGE MEGAWATTS	AUG 1-15 ----	AUG 16-31 ----	SEP ----	OCT ----	NOV ----	DEC ----	JAN ----	FEB ----	MAR ----	APR 1-15 ----	APR 16-30 ----	MAY ----	JUN ----	JUL ----	12 MO AVG ----
RENEWABLE RESOURCES															
-- FEDERAL SYSTEM --															
1 JR WAUNA	27	27	27	28	29	31	32	31	31	30	30	27	27	27	29
-- PUBLIC AGENCIES --															
2 SHORT MOUNTAIN EMERALD	4	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	2
	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
4 PUBLIC AGENCIES	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
-- INVESTOR-OWNED UTILITIES --															
5 KETTLE FALLS AVC	45	45	45	45	45	45	45	45	45	45	45	0	45	45	41
TOTAL RENEWABLE RESOURCES															
6 TOTAL RENEWABLE RESOURCES	78	78	78	79	80	82	83	82	82	81	81	33	78	78	76

TABLE A-9

COGENERATION

1998 WHITE BOOK: 12/31/98

1999-0 OPERATING YEAR

RUN DATE: 12/31/98

ENERGY IN AVERAGE MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	12 MO AVG
COGENERATION															
-- PUBLIC AGENCIES --															
1 WEYCO ENERGY CENTER EWEB	15	15	15	15	15	8	15	15	15	15	15	15	15	8	14
2 PUBLIC AGENCIES	15	15	15	15	15	8	15	15	15	15	15	15	15	8	14
-- INVESTOR-OWNED UTILITIES --															
3 COYOTE SPRINGS PGE	223	223	223	223	223	223	223	223	173	223	223	223	223	223	219
4 HERMISTON PP&L	443	443	443	443	443	443	443	443	443	443	443	0	443	443	406
5 INVESTOR-OWNED UTILITIES	666	666	666	666	666	666	666	666	616	666	666	223	666	666	625
-- OTHER ENTITIES --															
6 LONGVIEW FIBRE FOR WAPA *	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
TOTAL COGENERATION															
7 TOTAL COGENERATION	717	717	717	717	717	710	717	717	667	717	717	274	717	710	675

TABLE A-9

COGENERATION

1998 WHITE BOOK: 12/31/98

2003- 4 OPERATING YEAR

RUN DATE: 12/31/98

ENERGY IN AVERAGE MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	12 MO AVG
COGENERATION	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
-- PUBLIC AGENCIES --															
1 WEYCO ENERGY CENTER EWEB	15	15	15	15	15	8	15	15	15	15	15	15	15	8	14
	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
2 PUBLIC AGENCIES	15	15	15	15	15	8	15	15	15	15	15	15	15	8	14
-- INVESTOR-OWNED UTILITIES --															
3 COYOTE SPRINGS PGE	223	223	223	223	223	223	223	223	173	223	223	223	223	223	219
4 HERMISTON PP&L	443	443	443	443	443	443	443	443	443	443	443	0	443	443	406
	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
5 INVESTOR-OWNED UTILITIES	666	666	666	666	666	666	666	666	616	666	666	223	666	666	625
-- OTHER ENTITIES --															
6 LONGVIEW FIBRE FOR WAPA *	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
TOTAL COGENERATION															
7 TOTAL COGENERATION	717	717	717	717	717	710	717	717	667	717	717	274	717	710	675

TABLE A-9

COGENERATION

1998 WHITE BOOK: 12/31/98

2008- 9 OPERATING YEAR

RUN DATE: 12/31/98

ENERGY IN AVERAGE MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	12 MO AVG
COGENERATION															
-- PUBLIC AGENCIES --															
1 WEYCO ENERGY CENTER EWEB	15	15	15	15	15	8	15	15	15	15	15	15	15	8	14
2 PUBLIC AGENCIES	15	15	15	15	15	8	15	15	15	15	15	15	15	8	14
-- INVESTOR-OWNED UTILITIES --															
3 COYOTE SPRINGS PGE	223	223	223	223	223	223	223	223	173	223	223	223	223	223	219
4 HERMISTON PP&L	443	443	443	443	443	443	443	443	443	443	443	0	443	443	406
5 INVESTOR-OWNED UTILITIES	666	666	666	666	666	666	666	666	616	666	666	223	666	666	625
-- OTHER ENTITIES --															
6 LONGVIEW FIBRE FOR WAPA *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL COGENERATION															
7 TOTAL COGENERATION	681	681	681	681	681	674	681	681	631	681	681	238	681	674	639

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

ENERGY IN AVERAGE MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	12 MO AVG
LARGE THERMAL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BOARDMAN: COAL															
1 IPC SHARE 10.0 %	44	44	44	44	44	44	44	44	44	44	44	0	22	44	38
2 PGE SHARE 65.2 %	287	287	287	287	287	287	287	287	287	287	287	0	143	287	251
3 BOARDMAN (75.8% REGION)	331	331	331	331	331	331	331	331	331	331	331	0	165	331	290
-- NON-NORTHWEST UTILITIES SHARE --															
4 SDG&E SHARE 14.8 % *	65	65	65	65	65	65	65	65	65	65	65	0	33	65	57
5 TURLOCK SHARE 10.0 % *	44	44	44	44	44	44	44	44	44	44	44	0	22	44	38
6 BOARDMAN (24.2% NON-REGION)	109	109	109	109	109	109	109	109	109	109	109	0	55	109	95
7 BOARDMAN TOTAL	440	440	440	440	440	440	440	440	440	440	440	0	220	440	385
CENTRALIA: COAL															
8 PP&L SHARE 47.5 %	595	595	595	595	595	595	595	595	595	595	595	317	595	595	572
9 PGE SHARE 2.5 %	31	31	32	32	32	32	32	32	31	31	31	17	32	32	30
10 PSE SHARE 7.0 %	88	88	88	88	88	88	88	88	88	88	88	47	88	88	85
11 SCL SHARE 8.0 %	100	100	100	100	100	100	100	100	100	100	100	53	100	100	96
12 TPU SHARE 8.0 %	100	100	100	100	100	100	100	100	100	100	100	53	100	100	96
13 AVC SHARE 15.0 %	188	188	188	188	188	188	188	188	188	188	188	100	188	188	181
14 SNOHOM SHARE 8.0 %	100	100	100	100	100	100	100	100	100	100	100	53	100	100	96
15 GHARBOR SHARE 4.0%	50	50	50	50	50	50	50	50	50	50	50	27	50	50	48
16 CENTRALIA TOTAL	1252	1252	1253	1253	1253	1253	1253	1253	1252	1252	1252	667	1253	1253	1204
COLSTRIP 1 & 2: COAL															
17 MPC SHARE IN REGION	148	151	121	121	121	115	117	116	120	72	91	66	103	131	113
18 PSE SHARE	289	289	289	289	289	289	289	289	289	145	229	187	289	289	272
19 COLSTRIP 1 & 2 REGION TOTAL	437	440	410	410	410	404	406	405	408	216	320	252	391	420	385
COLSTRIP 3: COAL															
20 MPC SHARE IN REGION	108	110	89	88	89	84	86	85	87	105	85	43	50	96	83
21 PP&L SHARE 10 %	70	71	70	70	70	71	70	70	71	70	70	41	47	70	66
22 PGE SHARE 20 %	141	141	141	141	141	141	141	141	141	141	141	82	94	141	132
23 PSE SHARE 25 %	176	176	176	176	176	176	176	176	176	176	176	102	117	176	165
24 AVC SHARE 15 %	106	106	106	106	106	106	106	106	106	106	106	62	71	106	99
25 COLSTRIP 3 REGIONAL TOTAL	601	604	582	581	582	578	579	578	581	598	578	330	379	589	546

LARGE THERMAL

1998 WHITE BOOK: 12/31/98

1999- 0 OPERATING YEAR

RUN DATE: 12/31/98

ENERGY IN AVERAGE MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	12 MO AVG
LARGE THERMAL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
COLSTRIP 4: COAL															
26 MPC SHARE 30 %	211	211	211	211	211	211	211	211	211	211	85	116	211	211	198
27 PP&L SHARE 10 %	71	71	71	71	71	71	71	71	71	71	28	39	71	71	67
28 PGE SHARE 20 %	141	141	141	141	141	141	141	141	141	141	56	77	141	141	132
29 PSE SHARE 25 %	176	176	176	176	176	176	176	176	176	176	71	96	176	176	165
30 AVC SHARE 15 %	106	106	106	106	106	106	106	106	106	106	42	58	106	106	99
	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
31 COLSTRIP 4 REGIONAL TOTAL	705	705	705	705	705	705	705	705	705	705	282	386	705	705	661
JIM BRIDGER: COAL															
32 IPC SHARE 33%	638	638	637	638	637	638	638	637	602	478	456	478	616	638	605
VALMY: COAL															
33 IPC SHARE 50%	202	202	202	202	202	202	202	202	160	202	189	163	202	202	195
WNP 2: NUCLEAR															
34 FEDERAL SHARE 100%	1000	820	433	277	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	885
	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
35 TOTAL LARGE THERMAL	5275	5101	4662	4506	5229	5220	5223	5220	5148	4891	4517	3276	4766	5247	4866
TOTAL LARGE THERMAL															
36 FEDERAL SYSTEM	1000	820	433	277	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	885
37 PUBLIC AGENCIES	350	350	350	350	350	350	350	350	350	350	350	186	350	350	336
38 INVESTOR-OWNED UTILITIES	3816	3822	3770	3770	3770	3761	3764	3761	3689	3432	3058	2090	3361	3788	3549
39 NON-NORTHWEST UTILITIES *	109	109	109	109	109	109	109	109	109	109	109	0	55	109	95
	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
40 TOTAL LARGE THERMAL	5275	5101	4662	4506	5229	5220	5223	5220	5148	4891	4517	3276	4766	5247	4866

LARGE THERMAL

1998 WHITE BOOK: 12/31/98

2003- 4 OPERATING YEAR

RUN DATE: 12/31/98

ENERGY IN AVERAGE MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	12 MO AVG
LARGE THERMAL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BOARDMAN: COAL															
1 IPC SHARE 10.0 %	44	44	44	44	44	44	44	44	44	44	44	0	22	44	38
2 PGE SHARE 65.2 %	287	287	287	287	287	287	287	287	287	287	287	0	143	287	251
3 BOARDMAN (75.8% REGION)	331	331	331	331	331	331	331	331	331	331	331	0	165	331	290
-- NON-NORTHWEST UTILITIES SHARE --															
4 SDG&E SHARE 14.8 % *	65	65	65	65	65	65	65	65	65	65	65	0	33	65	57
5 TURLOCK SHARE 10.0 % *	44	44	44	44	44	44	44	44	44	44	44	0	22	44	38
6 BOARDMAN (24.2% NON-REGION)	109	109	109	109	109	109	109	109	109	109	109	0	55	109	95
7 BOARDMAN TOTAL	440	440	440	440	440	440	440	440	440	440	440	0	220	440	385
CENTRALIA: COAL															
8 PP&L SHARE 47.5 %	595	595	595	595	595	595	595	595	566	297	297	509	595	595	561
9 PGE SHARE 2.5 %	32	31	32	32	32	32	32	32	30	16	16	27	31	31	30
10 PSE SHARE 7.0 %	88	88	88	88	88	88	88	88	84	44	44	75	88	88	83
11 SCL SHARE 8.0 %	100	100	100	100	100	100	100	100	95	50	50	86	100	100	94
12 TPU SHARE 8.0 %	100	100	100	100	100	100	100	100	95	50	50	86	100	100	94
13 AVC SHARE 15.0 %	188	188	188	188	188	188	188	188	179	94	94	160	188	188	177
14 SNOHOM SHARE 8.0 %	100	100	100	100	100	100	100	100	95	50	50	85	100	100	94
15 GHARBOR SHARE 4.0%	50	50	50	50	50	50	50	50	48	25	25	43	50	50	47
16 CENTRALIA TOTAL	1253	1252	1253	1253	1253	1253	1253	1253	1192	626	626	1071	1252	1252	1180
COLSTRIP 1 & 2: COAL															
17 MPC SHARE IN REGION	137	140	110	110	111	105	122	120	110	66	83	58	92	103	105
18 PSE SHARE	289	289	289	289	289	289	289	289	289	145	229	187	289	289	272
19 COLSTRIP 1 & 2 REGION TOTAL	426	429	399	399	400	394	410	409	399	210	311	245	381	392	376
COLSTRIP 3: COAL															
20 MPC SHARE IN REGION	100	103	81	81	81	77	89	88	80	96	77	39	45	76	77
21 PP&L SHARE 10 %	70	70	70	70	71	70	70	70	70	70	70	41	47	70	66
22 PGE SHARE 20 %	141	141	141	141	141	141	141	141	141	141	141	82	94	141	132
23 PSE SHARE 25 %	176	176	176	176	176	176	176	176	176	176	176	102	117	176	165
24 AVC SHARE 15 %	106	106	106	106	106	106	106	106	106	106	106	61	71	106	99
25 COLSTRIP 3 REGIONAL TOTAL	593	596	574	574	575	570	582	581	573	589	570	325	374	569	539

LARGE THERMAL

1998 WHITE BOOK: 12/31/98

2003- 4 OPERATING YEAR

RUN DATE: 12/31/98

ENERGY IN AVERAGE MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	12 MO AVG
LARGE THERMAL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
COLSTRIP 4: COAL															
26 MPC SHARE 30 %	211	211	211	211	211	211	211	211	211	211	85	116	211	211	198
27 PP&L SHARE 10 %	71	71	71	71	71	71	71	71	71	71	28	39	71	71	67
28 PGE SHARE 20 %	141	141	141	141	141	141	141	141	141	141	56	77	141	141	132
29 PSE SHARE 25 %	176	176	176	176	176	176	176	176	176	176	71	96	176	176	165
30 AVC SHARE 15 %	106	106	106	106	106	106	106	106	106	106	42	58	106	106	99
	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
31 COLSTRIP 4 REGIONAL TOTAL	705	705	705	705	705	705	705	705	705	705	282	386	705	705	661
JIM BRIDGER: COAL															
32 IPC SHARE 33%	637	638	637	637	637	637	638	637	381	554	637	520	573	638	597
VALMY: COAL															
33 IPC SHARE 50%	211	211	211	211	211	211	211	211	172	115	106	161	211	211	195
WNP 2: NUCLEAR															
34 FEDERAL SHARE 100%	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
35 TOTAL LARGE THERMAL	5265	5271	5219	5219	5221	5210	5239	5236	4862	4239	3972	3708	4716	5207	4934
TOTAL LARGE THERMAL															
36 FEDERAL SYSTEM	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
37 PUBLIC AGENCIES	350	350	350	350	350	350	350	350	333	175	175	300	350	350	330
38 INVESTOR-OWNED UTILITIES	3806	3812	3760	3760	3762	3751	3780	3777	3420	2955	2688	2408	3311	3748	3509
39 NON-NORTHWEST UTILITIES *	109	109	109	109	109	109	109	109	109	109	109	0	55	109	95
	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
40 TOTAL LARGE THERMAL	5265	5271	5219	5219	5221	5210	5239	5236	4862	4239	3972	3708	4716	5207	4934

LARGE THERMAL

1998 WHITE BOOK: 12/31/98

2008- 9 OPERATING YEAR

RUN DATE: 12/31/98

ENERGY IN AVERAGE MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	12 MO AVG
LARGE THERMAL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BOARDMAN: COAL															
1 IPC SHARE 10.0 %	44	44	44	44	44	44	44	44	44	44	44	0	22	44	38
2 PGE SHARE 65.2 %	287	287	287	287	287	287	287	287	287	287	287	0	143	287	251
3 BOARDMAN (75.8% REGION)	331	331	331	331	331	331	331	331	331	331	331	0	165	331	290
-- NON-NORTHWEST UTILITIES SHARE --															
4 SDG&E SHARE 14.8 % *	65	65	65	65	65	65	65	65	65	65	65	0	33	65	57
5 TURLOCK SHARE 10.0 % *	44	44	44	44	44	44	44	44	44	44	44	0	22	44	38
6 BOARDMAN (24.2% NON-REGION)	109	109	109	109	109	109	109	109	109	109	109	0	55	109	95
7 BOARDMAN TOTAL	440	440	440	440	440	440	440	440	440	440	440	0	220	440	385
CENTRALIA: COAL															
8 PP&L SHARE 47.5 %	595	595	595	595	595	595	595	595	595	595	595	317	595	595	572
9 PGE SHARE 2.5 %	32	31	32	31	32	32	32	32	32	32	32	17	32	31	31
10 PSE SHARE 7.0 %	88	88	88	88	88	88	88	88	88	88	88	47	88	88	85
11 SCL SHARE 8.0 %	100	100	100	100	100	100	100	100	100	100	100	53	100	100	96
12 TPU SHARE 8.0 %	100	100	100	100	100	100	100	100	100	100	100	53	100	100	96
13 AVC SHARE 15.0 %	188	188	188	188	188	188	188	188	188	188	188	100	188	188	181
14 SNOHOM SHARE 8.0 %	100	100	100	100	100	100	100	100	100	100	100	53	100	100	96
15 GHARBOR SHARE 4.0%	50	50	50	50	50	50	50	50	50	50	50	27	50	50	48
16 CENTRALIA TOTAL	1253	1252	1253	1252	1253	1253	1253	1253	1253	1253	1253	667	1253	1252	1204
COLSTRIP 1 & 2: COAL															
17 MPC SHARE IN REGION	116	119	111	111	112	120	123	122	111	66	84	60	94	105	105
18 PSE SHARE	289	289	289	289	289	289	289	289	289	145	229	187	289	289	272
19 COLSTRIP 1 & 2 REGION TOTAL	405	408	400	400	401	409	412	411	400	211	312	246	383	394	377
COLSTRIP 3: COAL															
20 MPC SHARE IN REGION	85	87	82	82	82	88	90	89	81	97	78	39	46	77	77
21 PP&L SHARE 10 %	70	70	70	70	70	70	70	70	70	70	70	41	47	70	66
22 PGE SHARE 20 %	141	141	141	141	141	141	141	141	141	141	141	82	94	141	132
23 PSE SHARE 25 %	176	176	176	176	176	176	176	176	176	176	176	102	117	176	165
24 AVC SHARE 15 %	106	106	106	106	106	106	106	106	106	106	106	62	70	106	99
25 COLSTRIP 3 REGIONAL TOTAL	578	580	575	575	575	581	583	582	574	590	571	326	374	570	540

LARGE THERMAL

1998 WHITE BOOK: 12/31/98

2008- 9 OPERATING YEAR

RUN DATE: 12/31/98

ENERGY IN AVERAGE MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	12 MO AVG
LARGE THERMAL	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
COLSTRIP 4: COAL															
26 MPC SHARE 30 %	211	211	211	211	211	211	211	211	211	211	85	116	211	211	198
27 PP&L SHARE 10 %	71	71	71	71	71	71	71	71	71	71	28	39	71	71	67
28 PGE SHARE 20 %	141	141	141	141	141	141	141	141	141	141	56	77	141	141	132
29 PSE SHARE 25 %	176	176	176	176	176	176	176	176	176	176	71	96	176	176	165
30 AVC SHARE 15 %	106	106	106	106	106	106	106	106	106	106	42	58	106	106	99
	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
31 COLSTRIP 4 REGIONAL TOTAL	705	705	705	705	705	705	705	705	705	705	282	386	705	705	661
JIM BRIDGER: COAL															
32 IPC SHARE 33%	638	638	637	638	637	638	638	637	550	605	349	571	637	638	611
VALMY: COAL															
33 IPC SHARE 50%	211	211	211	211	211	211	211	211	169	116	106	161	211	211	195
WNP 2: NUCLEAR															
34 FEDERAL SHARE 100%	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	0	0	1000	1000	875
	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
35 TOTAL LARGE THERMAL	5230	5234	5221	5221	5222	5237	5242	5239	5091	4920	3313	2357	4783	5210	4848
TOTAL LARGE THERMAL															
36 FEDERAL SYSTEM	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	0	0	1000	1000	875
37 PUBLIC AGENCIES	350	350	350	350	350	350	350	350	350	350	350	186	350	350	336
38 INVESTOR-OWNED UTILITIES	3771	3775	3762	3762	3763	3778	3783	3780	3632	3461	2854	2171	3378	3751	3541
39 NON-NORTHWEST UTILITIES *	109	109	109	109	109	109	109	109	109	109	109	0	55	109	95
	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
40 TOTAL LARGE THERMAL	5230	5234	5221	5221	5222	5237	5242	5239	5091	4920	3313	2357	4783	5210	4848

CANADIAN ENTITLEMENT RETURN FOR CSPE
EXPIRING APRIL 1 2003

1998 WHITE BOOK: 12/31/98

1999-0 OPERATING YEAR

RUN DATE: 12/31/98

ENERGY IN AVERAGE MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	12 MO AVG
	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
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	1
31 PGE TO BPA CER(CSPE) RRH	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
32 PSE TO BPA CER(CSPE) RRH	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
33 AVC TO BPA CER(CSPE) RRH	0	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	0
35 CHELAN TO BPA CER(CSPE) RRH	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
36 COLOCK TO BPA CER(CSPE) RRH	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
37 RRH CER(CSPE) OBLIGATION	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
WELLS CER FOR CSPE OBLIGATION															
38 PP&L TO BPA CER(CSPE) WEL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39 PGE TO BPA CER(CSPE) WEL	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
40 PSE TO BPA CER(CSPE) WEL	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
41 AVC TO BPA CER(CSPE) WEL	0	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	1	1	1	1	1	2
43 OKANOG TO BPA CER(CSPE) WEL	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
44 WEL CER(CSPE) OBLIGATION	6	6	6	6	6	6	6	6	6	5	5	5	5	5	6
45 TOTAL CER(CSPE) OBLIGATION	103	103	103	103	103	103	103	103	103	99	99	99	99	99	102
TOTAL CER FOR CSPE OBLIGATION															
46 FEDERAL SYSTEM	80	80	80	80	80	80	80	80	80	77	77	77	77	77	79
47 PUBLIC AGENCIES	7	7	7	7	7	7	7	7	7	6	6	6	6	7	7
48 INVESTOR-OWNED UTILITIES	14	14	14	14	14	14	14	14	14	14	14	14	14	13	14
49 OTHER ENTITIES	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
50 TOTAL CER FOR CSPE	103	103	103	103	103	103	103	103	103	99	99	99	99	99	102

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

ENERGY IN AVERAGE MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	12 MO AVG
CSPE PURCHASE															
-- PUBLIC AGENCIES --															
1 BPA TO CHELAN CSPE	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2 BPA TO CLARK CSPE	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
3 BPA TO COWLITZ CSPE	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
4 BPA TO DOUGLAS CSPE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 BPA TO EWEB CSPE	6	6	6	6	6	6	6	6	6	5	5	5	5	5	6
6 BPA TO GRANT CSPE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7 BPA TO GRAYS HARBOR CSPE	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
8 BPA TO PEND O CSPE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 BPA TO SCL CSPE	13	13	13	13	13	13	13	13	13	12	12	12	12	12	13
10 BPA TO SNOHOMISH CSPE	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
11 BPA TO SUB CSPE	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0
12 BPA TO TPU CSPE	13	13	13	13	13	13	13	13	13	12	12	12	12	12	13
13 BPA TO SMALL NGP CSPE	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
14 TOTAL BPA TO PUBLIC	52	52	52	52	52	52	52	52	52	50	50	50	50	50	51
-- INVESTOR-OWNED UTILITIES --															
15 BPA TO AVC	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
16 BPA TO PGE	18	18	18	18	18	18	18	18	18	17	17	17	17	17	18
17 BPA TO PPL	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
18 BPA TO PSE	18	18	18	18	18	18	18	18	18	17	17	17	17	17	18
19 TOTAL BPA TO IOU	51	51	51	51	51	51	51	51	51	49	49	49	49	49	50
TOTAL CSPE PURCHASE															
20 TOTAL CSPE PURCHASE	103	103	103	103	103	103	103	103	103	99	99	99	99	99	102

SUPPLEMENTAL AND ENTITLEMENT CAPACITY
EXPIRING APRIL 1 2003

1998 WHITE BOOK: 12/31/98

1999-0 OPERATING YEAR

RUN DATE: 12/31/98

ENERGY IN AVERAGE MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	12 MO AVG
	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
SUPPLEMENTAL AND ENTITLEMENT CAPACITY															
-- PUBLIC AGENCIES --															
1 BPA TO CHELAN SUP CAP	2	2	2	2	2	2	2	2	2	2	2	2	2	3	2
2 BPA TO COWLITZ SUP CAP	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0
3 BPA TO DOUGLAS SUP CAP	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
4 BPA TO EWEB SUP CAP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 BPA TO GRANT SUP CAP	10	10	10	10	10	10	10	10	10	9	9	9	9	9	10
6 BPA TO OKANOGAN SUP CAP	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7 BPA TO SCL SUP CAP	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8 BPA TO TPU SUP CAP	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9 BPA TO FGROVE SUP CAP	0	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	0
11 BPA TO MFREE SUP CAP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12 BPA TO KITTITAS SUP CAP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 BPA TO PGE SUP CAP	9	9	9	9	9	9	9	9	9	7	7	7	7	7	8
14 BPA TO PPL SUP CAP	7	7	7	7	7	7	7	7	7	6	6	6	6	6	7
15 BPA TO PSE SUP CAP	13	13	13	13	13	13	13	13	13	13	13	13	13	12	13
16 BPA TO AVC SUP CAP	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
17 BPA TO COLOCKUM SUP CAP	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
18 CHELAN TO BPA SUP REP	2	2	2	2	2	2	2	2	2	2	2	2	2	4	2
19 COWLITZ TO BPA SUP REP	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0
20 DOUGLAS TO BPA SUP REP	2	2	2	2	2	2	2	2	2	3	3	3	3	2	2
21 EWEB TO BPA SUP REP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 GRANT TO BPA SUP REP	11	11	11	11	11	11	11	11	11	9	9	9	9	9	10
23 OKANOGAN TO BPA SUP REP	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24 SCL TO BPA SUP REP	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25 TPU TO BPA SUP REP	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26 FGROVE TO BPA SUP REP	0	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	0
28 MFREE TO BPA SUP REP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 KITTITAS TO BPA SUP REP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30 PGE TO BPA SUP REP	9	9	9	9	9	9	9	9	9	7	7	7	7	7	8
31 PPL TO BPA SUP REP	7	7	7	7	7	7	7	7	7	6	6	6	6	6	7
32 PSE TO BPA SUP REP	13	13	13	13	13	13	13	13	13	12	12	12	12	11	13
33 AVC TO BPA SUP REP	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
34 COLOCKUM TO BPA SUP REP	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
35 TOTAL SUPP & ENT CAPACITY	105	105	105	105	105	105	105	105	105	98	98	98	98	98	103

SUPPLEMENTAL AND ENTITLEMENT CAPACITY
EXPIRING APRIL 1 2003

1998 WHITE BOOK: 12/31/98

1999-0 OPERATING YEAR

RUN DATE: 12/31/98

ENERGY IN AVERAGE MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	12 MO AVG
	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
TOTAL SUPP & ENT CAPACITY CONTRACTS OUT															
36 FEDERAL SUPP & ENT CAP OUT	52	52	52	52	52	52	52	52	52	49	49	49	49	49	51
37 PUBLIC SUPP & ENT CAP OUT	18	18	18	18	18	18	18	18	18	18	18	18	18	19	18
38 IOU SUPP & ENT CAP OUT	31	31	31	31	31	31	31	31	31	27	27	27	27	26	30
39 OTHER SUPP & ENT CAP OUT	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
40 TOTAL SUPP & ENT CAP OUT	104	104	104	104	104	104	104	104	104	97	97	97	97	97	102
TOTAL SUPP & ENT CAPACITY CONTRACTS IN															
41 FEDERAL SUPP & ENT CAP IN	52	52	52	52	52	52	52	52	52	48	48	48	48	48	51
42 PUBLIC SUP & ENT CAP IN	17	17	17	17	17	17	17	17	17	17	17	17	17	18	17
43 IOU SUPP & ENT CAP IN	31	31	31	31	31	31	31	31	31	28	28	28	28	27	30
44 OTHER SUPP & ENT CAP IN	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
45 TOTAL SUPP & ENT CAP IN	104	104	104	104	104	104	104	104	104	97	97	97	97	97	102

CANADIAN ENTITLEMENT RETURN FOR CANADA
BEGINNING APRIL 1 1998

1998 WHITE BOOK: 12/31/98

2003- 4 OPERATING YEAR

RUN DATE: 12/31/98

ENERGY IN AVERAGE MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	12 MO AVG
	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BPA CER FOR CANADA OBLIGATION															
1 BPA CER(CAN) OBLIGATION	387	387	387	387	387	387	387	387	387	380	380	380	380	380	385
PRIEST RAPIDS CER FOR CANADA OBLIGATION															
2 PP&L TO BPA CER(CAN) PRD	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
3 PGE TO BPA CER(CAN) PRD	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
4 PSE TO BPA CER(CAN) PRD	2	2	2	2	2	2	2	2	2	3	3	3	3	3	2
5 SEATTL TO BPA CER(CAN) PRD	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
6 TPU TO BPA CER(CAN) PRD	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
7 AVC TO BPA CER(CAN) PRD	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
8 GRANT TO BPA CER(CAN) PRD	11	11	11	11	11	11	11	11	11	12	12	12	12	12	11
9 EUGENE TO BPA CER(CAN) PRD	1	1	1	1	1	1	1	1	1	0	0	0	0	0	1
10 COWLIZ TO BPA CER(CAN) PRD	1	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	0
12 MCMINN TO BPA CER(CAN) PRD	0	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	0
14 KITITS TO BPA CER(CAN) PRD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
15 PRD CER(CAN) OBLIGATION	31	31	31	31	31	31	31	31	31	32	32	32	32	32	31
WANAPUM CER FOR CANADA OBLIGATION															
16 PP&L TO BPA CER(CAN) WAN	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
17 PGE TO BPA CER(CAN) WAN	5	5	5	5	5	5	5	5	5	6	6	6	6	6	5
18 PSE TO BPA CER(CAN) WAN	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
19 AVC TO BPA CER(CAN) WAN	2	2	2	2	2	2	2	2	2	3	3	3	3	3	2
20 GRANT TO BPA CER(CAN) WAN	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
21 EUGENE TO BPA CER(CAN) WAN	1	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	1
23 F GROV TO BPA CER(CAN) WAN	0	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	0
25 M FREE TO BPA CER(CAN) WAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
26 WAN CER(CAN) OBLIGATION	29	29	29	29	29	29	29	29	29	31	31	31	31	31	30
ROCK ISLAND CER FOR CANADA OBLIGATION															
27 CHELAN TO BPA CER(CAN) RIS	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
28 PSE TO BPA CER(CAN) RIS	9	9	9	9	9	9	9	9	9	10	10	10	10	10	9
	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
29 RIS CER(CAN) OBLIGATION	19	19	19	19	19	19	19	19	19	20	20	20	20	20	19

CONTRACTS BETWEEN UTILITIES

1998 WHITE BOOK: 12/31/98

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RUN DATE: 12/31/98

ENERGY IN AVERAGE MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	12 MO AVG
CONTRACTS BETWEEN UTILITIES	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
103 PEND O TO SCL PS	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
104 PGE TO BPA PK REPL	30	30	30	30	30	50	50	50	30	0	0	0	0	0	25
105 PGE TO CANBY PS	11	11	11	13	16	19	18	16	14	13	13	12	11	10	14
106 PGE TO CHELAN XCHG NRG	0	0	0	0	11	11	11	11	0	0	0	0	0	0	4
107 PGE TO CHELAN PK REPL	7	7	1	0	0	0	0	0	0	0	0	0	7	8	2
108 PGE TO CLALLAM PS	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
109 PGE TO EWEB PS	16	16	17	19	22	24	26	24	22	20	20	18	17	16	20
110 PGE TO PNGC CAP S	0	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	3
112 PGE TO SNOH PS	56	56	56	56	56	56	59	59	59	59	59	59	59	59	58
113 PGE TO AVC PK REPL	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
114 PNGC TO PGE PK REPL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
115 PSE TO BPA WP3 S	0	0	56	56	56	56	56	56	56	56	56	0	56	0	42
116 PSE TO GHBR CNTRL XCHG	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
117 PSE TO AVC PS	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
118 SCL TO PEND O PS	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
119 SCL TO IPC SPX	54	54	16	0	0	0	0	0	0	0	0	0	0	100	14
120 SCL TO TPU NRG S	0	0	0	50	0	0	0	0	0	0	0	0	0	0	4
121 SNOH TO PSE (CONS) PS1	4	4	4	4	6	7	7	6	6	5	5	4	4	3	5
122 SNOH TO PSE PS2	0	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	4
124 AVC TO BPA WP3 S	0	0	56	56	56	56	56	56	56	56	56	0	56	0	42
125 AVC TO CHENEY PS	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
126 AVC TO CLARK PS2	50	50	53	50	75	85	119	118	125	117	117	78	98	112	90
127 AVC TO EWEB PS	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
128 AVC TO MPC PS1	100	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	100
130 AVC TO OTHER ENTITIES PS	215	215	215	215	215	215	215	215	215	215	215	215	215	215	215
131 AVC TO PP&L PS	38	38	19	0	0	0	0	0	0	0	0	0	19	38	9
132 AVC TO PP&L SPX	13	13	6	0	0	0	0	0	0	0	0	0	6	13	3
133 AVC TO PEND OREILLE PWR S	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
134 AVC TO PGE CAP S	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
135 AVC TO PSE PS	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75
136 AVC TO SNOH PS	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
137 TOTAL CONTRACTS	3791	3791	3761	3944	4204	4479	5345	5266	4937	4613	4578	4433	4620	4174	4462
TOTAL CONTRACTS OUT															
138 FEDERAL CONTRACTS OUT	1195	1195	1247	1441	1762	1915	2678	2606	2412	2150	2150	2240	2255	1634	1961
139 PUBLIC CONTRACTS OUT	283	283	186	218	169	172	173	170	170	171	171	173	180	280	195
140 IOU CONTRACTS OUT	1997	1997	2012	1973	2068	2191	2229	2222	2083	2016	1981	1740	1902	1976	2033
141 OTHER ENTITIES CONT OUT	316	316	316	312	205	201	265	268	272	276	276	280	283	284	273
142 TOTAL CONTRACTS OUT	3791	3791	3761	3944	4204	4479	5345	5266	4937	4613	4578	4433	4620	4174	4462
TOTAL CONTRACTS IN															
143 FEDERAL CONTRACTS IN	484	484	596	596	596	616	641	641	621	591	591	479	591	427	573
144 PUBLIC CONTRACTS IN	932	932	911	948	1024	1139	1200	1173	1079	987	987	1248	1274	1292	1101
145 IOU CONTRACTS IN	1891	1891	1770	1916	2100	2240	2557	2505	2290	2038	2003	1709	1758	1833	2049
146 OTHER ENTITIES CONT IN	484	484	484	484	484	484	947	947	947	997	997	997	997	622	739
147 TOTAL CONTRACTS IN	3791	3791	3761	3944	4204	4479	5345	5266	4937	4613	4578	4433	4620	4174	4462

CONTRACTS BETWEEN UTILITIES

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ENERGY IN AVERAGE MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	12 MO AVG
	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CONTRACTS BETWEEN UTILITIES															
103 PEND O TO SCL PS	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
104 PGE TO BPA PK REPL	0	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	0
106 PGE TO CHELAN XCHG NRG	0	0	0	0	11	11	11	11	0	0	0	0	0	0	4
107 PGE TO CHELAN PK REPL	8	8	1	0	0	0	0	0	0	0	0	0	8	8	2
108 PGE TO CLALLAM PS	0	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	0
110 PGE TO PNGC CAP S	0	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	3
112 PGE TO SNOH PS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
113 PGE TO AVC PK REPL	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
114 PNGC TO PGE PK REPL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
115 PSE TO BPA WP3 S	0	0	56	56	56	56	56	56	56	56	56	0	56	0	42
116 PSE TO GHBR CNTRL XCHG	0	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	0
118 SCL TO PEND O PS	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32
119 SCL TO IPC SPX	54	54	16	0	0	0	0	0	0	0	0	0	0	0	6
120 SCL TO TPU NRG S	0	0	0	50	0	0	0	0	0	0	0	0	0	0	4
121 SNOH TO PSE (CONS) PS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
122 SNOH TO PSE PS2	7	7	8	9	12	16	15	14	12	10	10	9	8	7	11
123 TPU TO SCL NRG S	50	50	0	0	0	0	0	0	0	0	0	0	0	0	4
124 AVC TO BPA WP3 S	0	0	56	56	56	56	56	56	56	56	56	0	56	0	42
125 AVC TO CHENEY PS	0	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	0
127 AVC TO EWEB PS	0	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	0
129 AVC TO MPC PS2	0	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	0
131 AVC TO PP&L PS	38	38	19	0	0	0	0	0	0	0	0	0	0	0	5
132 AVC TO PP&L SPX	13	13	6	0	0	0	0	0	0	0	0	0	6	13	3
133 AVC TO PEND OREILLE PWR S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
134 AVC TO PGE CAP S	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
135 AVC TO PSE PS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
136 AVC TO SNOH PS	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
137 TOTAL CONTRACTS	2607	2607	2402	2456	2633	2852	2799	2729	2493	2454	2418	2135	2331	2349	2518
TOTAL CONTRACTS OUT															
138 FEDERAL CONTRACTS OUT	1623	1623	1510	1557	1887	2037	2034	1969	1756	1718	1717	1596	1659	1696	1753
139 PUBLIC CONTRACTS OUT	237	237	141	173	125	130	130	127	126	126	126	128	135	135	143
140 IOU CONTRACTS OUT	754	754	758	732	627	690	640	638	616	616	581	418	544	525	628
141 OTHER ENTITIES CONT OUT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
142 TOTAL CONTRACTS OUT	2614	2614	2409	2462	2639	2857	2804	2734	2498	2460	2424	2142	2338	2356	2525
TOTAL CONTRACTS IN															
143 FEDERAL CONTRACTS IN	275	275	387	387	387	387	387	387	387	387	387	275	387	275	359
144 PUBLIC CONTRACTS IN	1044	1044	846	907	946	1046	1067	1046	948	905	904	974	1026	1046	983
145 IOU CONTRACTS IN	861	861	742	734	872	990	916	867	729	734	699	459	491	601	748
146 OTHER ENTITIES CONT IN	434	434	434	434	434	434	434	434	434	434	434	434	434	434	434
147 TOTAL CONTRACTS IN	2614	2614	2409	2462	2639	2857	2804	2734	2498	2460	2424	2142	2338	2356	2525

CONTRACTS BETWEEN UTILITIES

1998 WHITE BOOK: 12/31/98

2008- 9 OPERATING YEAR

RUN DATE: 12/31/98

ENERGY IN AVERAGE MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	12 MO AVG
	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
CONTRACTS BETWEEN UTILITIES															
103 PEND O TO SCL PS	0	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	0
105 PGE TO CANBY PS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
106 PGE TO CHELAN XCHG NRG	0	0	0	0	10	11	11	11	0	0	0	0	0	0	4
107 PGE TO CHELAN PK REPL	8	8	1	0	0	0	0	0	0	0	0	0	7	8	2
108 PGE TO CLALLAM PS	0	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	0
110 PGE TO PNGC CAP S	0	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	3
112 PGE TO SNOH PS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
113 PGE TO AVC PK REPL	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
114 PNGC TO PGE PK REPL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
115 PSE TO BPA WP3 S	0	0	56	56	56	56	56	56	56	56	56	0	56	0	42
116 PSE TO GHBR CNTRL XCHG	0	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	0
118 SCL TO PEND O PS	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42
119 SCL TO IPC SPX	0	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	0
121 SNOH TO PSE (CONS) PS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
122 SNOH TO PSE PS2	7	7	8	9	12	16	15	14	12	10	10	9	8	7	11
123 TPU TO SCL NRG S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
124 AVC TO BPA WP3 S	0	0	56	56	56	56	56	56	56	56	56	0	56	0	42
125 AVC TO CHENEY PS	0	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	0
127 AVC TO EWEB PS	0	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	0
129 AVC TO MPC PS2	0	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	0
131 AVC TO PP&L PS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
132 AVC TO PP&L SPX	13	13	6	0	0	0	0	0	0	0	0	0	0	0	2
133 AVC TO PEND OREILLE PWR S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
134 AVC TO PGE CAP S	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
135 AVC TO PSE PS	0	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	0
137 TOTAL CONTRACTS	1138	1138	1233	1262	1550	1638	1619	1575	1394	1386	1351	992	1145	1148	1339
TOTAL CONTRACTS OUT															
138 FEDERAL CONTRACTS OUT	529	529	533	571	848	917	898	859	701	693	693	495	522	550	676
139 PUBLIC CONTRACTS OUT	134	134	126	124	126	131	131	128	127	127	127	129	136	136	130
140 IOU CONTRACTS OUT	475	475	574	567	576	590	590	588	566	566	531	368	487	462	533
141 OTHER ENTITIES CONT OUT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
142 TOTAL CONTRACTS OUT	1138	1138	1233	1262	1550	1638	1619	1575	1394	1386	1351	992	1145	1148	1339
TOTAL CONTRACTS IN															
143 FEDERAL CONTRACTS IN	275	275	387	387	387	387	387	387	387	387	387	275	387	275	359
144 PUBLIC CONTRACTS IN	223	223	192	194	229	249	254	259	216	204	204	196	211	223	221
145 IOU CONTRACTS IN	578	578	592	619	872	940	916	867	729	733	698	459	485	588	697
146 OTHER ENTITIES CONT IN	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62
147 TOTAL CONTRACTS IN	1138	1138	1233	1262	1550	1638	1619	1575	1394	1386	1351	992	1145	1148	1339

CAPACITY RESERVES

1998 WHITE BOOK: 12/31/98

1999-0 OPERATING YEAR

RUN DATE: 12/31/98

1937 WATER YEAR

ENERGY IN AVERAGE MEGAWATTS

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	12 MO AVG
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LARGE THERMAL RESERVES

-- FEDERAL SYSTEM --

29 FEDERAL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

-- PUBLIC AGENCIES --

30 CHELAN COUNTY PUD #1 0 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 0

32 COWLITZ COUNTY PUD #1 0 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 0

34 EUGENE WATER & ELEC BOARD 0 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 0

36 GRAYS HARBOR COUNTY PUD #1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

37 OKANOGAN COUNTY PUD #1 0 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 0

39 SEATTLE CITY LIGHT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

40 SNOHOMISH COUNTY PUD #1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

41 SPRINGFIELD UTILITY BOARD 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

42 TACOMA PUBLIC UTILITIES 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

43 SMALL & NON GEN PUBLICS 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

44 PUBLIC AGENCIES 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

-- INVESTOR-OWNED UTILITIES --

45 AVISTA CORP (WWP) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

46 IDAHO POWER COMPANY 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

47 MONTANA POWER CO. REGIONAL 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

48 PACIFICORP 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

49 PORTLAND GENERAL ELECTRIC 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

50 PUGET SOUND ENERGY 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

51 INVESTOR-OWNED UTILITIES 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

LARGE THERMAL RESERVES

52 TOTAL THERMAL RESERVES 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

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

ENERGY IN AVERAGE MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	12 MO AVG
1 WELLS	450	402	363	349	391	453	398	384	267	279	304	505	492	401	394
2 WELLS AFTER ENC.	403	357	319	307	347	406	353	340	228	239	262	457	445	356	349
3 PP&L SHARE	29	26	23	22	25	29	25	24	16	17	19	33	32	26	25
4 PGE SHARE	85	75	67	65	73	86	75	72	48	51	55	96	94	75	74
5 PSE SHARE	130	115	103	99	112	131	114	110	74	77	85	148	144	115	113
6 AVC SHARE	15	13	12	11	13	15	13	13	9	9	10	17	16	13	13
7 DOUGLS SHARE	112	99	88	85	96	113	98	94	63	66	72	127	123	99	97
8 OKANOG CO. PUD SHARE PUB	32	29	26	25	28	32	28	27	18	19	21	36	36	28	28
9 WELLS AFTER ENC. DGLS	403	357	319	307	347	406	353	340	228	239	262	457	445	356	349
10 CHELAN	54	49	13	48	48	52	51	50	48	1	1	50	1	54	39
11 CHELAN AFTER ENC.	57	52	16	50	50	55	54	54	52	5	5	54	4	57	42
12 TO CHELAN FR AVC CONTRACT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 CHELAN SH OF CHELAN PROJ	57	52	16	50	50	55	54	54	52	5	5	54	4	57	42
14 CHELAN SHARE (PROJ+CONT)	57	52	16	50	50	55	54	54	52	5	5	54	4	57	42
15 AVC SHARE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 CHELAN AFTER ENC. CHLN	57	52	16	50	50	55	54	54	52	5	5	54	4	57	42

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

ENERGY IN AVERAGE MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	12 MO AVG
1 WELLS	450	402	363	349	391	453	398	384	267	279	304	505	492	401	394
2 WELLS AFTER ENC.	403	357	319	307	347	406	353	340	228	239	262	457	445	356	349
3 PP&L SHARE	29	26	23	22	25	29	25	24	16	17	19	33	32	26	25
4 PGE SHARE	85	75	67	65	73	86	75	72	48	51	55	96	94	75	74
5 PSE SHARE	130	115	103	99	112	131	114	110	74	77	85	148	144	115	113
6 AVC SHARE	15	13	12	11	13	15	13	13	9	9	10	17	16	13	13
7 DOUGLS SHARE	112	99	88	85	96	113	98	94	63	66	72	127	123	99	97
8 OKANOG CO. PUD SHARE PUB	32	29	26	25	28	32	28	27	18	19	21	36	36	28	28
9 WELLS AFTER ENC. DGLS	403	357	319	307	347	406	353	340	228	239	262	457	445	356	349
10 CHELAN	54	49	13	48	48	52	51	50	48	1	1	50	1	54	39
11 CHELAN AFTER ENC.	57	52	16	50	50	55	54	54	52	5	5	54	4	57	42
12 TO CHELAN FR AVC CONTRACT	2	2	3	3	3	3	3	3	3	3	3	3	2	2	3
13 CHELAN SH OF CHELAN PROJ	57	52	16	50	50	55	54	54	52	5	5	54	4	57	42
14 CHELAN SHARE (PROJ+CONT)	59	54	18	53	53	58	57	57	55	8	8	57	6	59	45
15 AVC SHARE	-2	-2	-2	-3	-3	-3	-3	-3	-3	-3	-3	-3	-2	-2	-3
16 CHELAN AFTER ENC. CHLN	57	52	16	50	50	55	54	54	52	5	5	54	4	57	42

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

ENERGY IN AVERAGE MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	12 MO AVG
1 WELLS	450	402	363	349	391	453	398	384	267	279	304	505	492	401	394
2 WELLS AFTER ENC.	403	357	319	307	347	406	353	340	228	239	262	457	445	356	349
3 PP&L SHARE	29	26	23	22	25	29	25	24	16	17	19	33	32	26	25
4 PGE SHARE	85	75	67	65	73	86	75	72	48	51	55	96	94	75	74
5 PSE SHARE	130	115	103	99	112	131	114	110	74	77	85	148	144	115	113
6 AVC SHARE	15	13	12	11	13	15	13	13	9	9	10	17	16	13	13
7 DOUGLS SHARE	112	99	88	85	96	113	98	94	63	66	72	127	123	99	97
8 OKANOG CO. PUD SHARE PUB	32	29	26	25	28	32	28	27	18	19	21	36	36	28	28
9 WELLS AFTER ENC. DGLS	403	357	319	307	347	406	353	340	228	239	262	457	445	356	349
10 CHELAN	54	49	13	48	48	52	51	50	48	1	1	50	1	54	39
11 CHELAN AFTER ENC.	57	52	16	50	50	55	54	54	52	5	5	54	4	57	42
12 TO CHELAN FR AVC CONTRACT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 CHELAN SH OF CHELAN PROJ	57	52	16	50	50	55	54	54	52	5	5	54	4	57	42
14 CHELAN SHARE (PROJ+CONT)	57	52	16	50	50	55	54	54	52	5	5	54	4	57	42
15 AVC SHARE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 CHELAN AFTER ENC. CHLN	57	52	16	50	50	55	54	54	52	5	5	54	4	57	42

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

ENERGY IN AVERAGE MEGAWATTS

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	12 MO AVG
1 ROCKY REACH	601	541	479	468	528	619	543	523	359	360	394	730	667	557	535
2 ROCKY REACH AFTER ENC.	619	558	496	486	546	637	561	539	374	375	410	748	686	575	552
3 PP&L SHARE	33	30	26	26	29	34	30	28	20	20	22	39	36	30	29
4 PGE SHARE	74	67	60	58	65	76	67	65	45	45	49	90	82	69	66
5 PSE SHARE	241	217	193	189	212	248	218	210	145	146	159	291	267	224	215
6 AVC SHARE	18	16	14	14	16	18	16	16	11	11	12	22	20	17	16
7 DOUGLS SHARE	17	16	14	13	15	18	16	15	10	10	12	21	19	16	15
8 CHELAN SHARE	94	84	75	74	83	96	85	81	57	57	62	113	104	87	84
9 COLOCK SHARE	142	128	114	112	126	147	129	124	86	86	94	172	158	132	127
10 RKY REACH AFTER ENC. CHLN	619	558	496	486	546	637	561	539	374	375	410	748	686	575	552
11 ROCK ISLAND	219	225	216	211	236	271	241	232	162	148	136	269	259	198	222
12 RISL PH#1 & PH#2 AFTER ENC.	288	294	281	276	304	340	310	300	219	205	199	338	328	268	288
13 RISL PH#1 AFTER ENC.	193	174	162	159	171	183	173	169	130	134	165	181	184	193	170
14 CHELAN PH#1 SHARE	95	86	80	79	84	90	85	84	64	66	82	89	91	96	84
15 PSE PH#1 SHARE	98	88	82	81	86	93	88	86	66	68	84	92	93	96	86
16 RISL PH#2 AFTER ENC.	95	119	120	116	133	157	137	131	89	71	34	156	144	75	118
17 CHELAN PH#2 SHARE	0	0	0	0	0	0	0	0	0	0	0	0	0	7	1
18 PSE PH#2 SHARE	95	119	120	116	133	157	137	131	89	71	34	156	144	67	118
19 CHELAN TOTAL SHARE	95	86	80	79	84	90	85	84	64	66	81	90	91	104	85
20 PSE TOTAL SHARE	193	208	201	197	220	250	225	216	155	139	118	248	237	164	203
21 ROCK ISLAND CHLN	288	294	281	276	304	340	310	300	219	205	199	338	328	268	288

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

ENERGY IN AVERAGE MEGAWATTS

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	12 MO AVG
1 ROCKY REACH	601	541	479	468	528	619	543	523	359	360	394	730	667	557	535
2 ROCKY REACH AFTER ENC.	619	558	496	486	546	637	561	539	374	375	410	748	686	575	552
3 PP&L SHARE	33	30	26	26	29	34	30	28	20	20	22	39	36	30	29
4 PGE SHARE	74	67	60	58	65	76	67	65	45	45	49	90	82	69	66
5 PSE SHARE	241	217	193	189	212	248	218	210	145	146	159	291	267	224	215
6 AVC SHARE	18	16	14	14	16	18	16	16	11	11	12	22	20	17	16
7 DOUGLS SHARE	17	16	14	13	15	18	16	15	10	10	12	21	19	16	15
8 CHELAN SHARE	94	84	75	74	83	96	85	81	57	57	62	113	104	87	84
9 COLOCK SHARE	142	128	114	112	126	147	129	124	86	86	94	172	158	132	127
10 RKY REACH AFTER ENC. CHLN	619	558	496	486	546	637	561	539	374	375	410	748	686	575	552
11 ROCK ISLAND	219	225	216	211	236	271	241	232	162	148	136	269	259	198	222
12 RISL PH#1 & PH#2 AFTER ENC.	288	294	281	276	304	340	310	300	219	205	199	338	328	268	288
13 RISL PH#1 AFTER ENC.	193	174	162	159	171	183	173	169	130	134	165	181	184	193	170
14 CHELAN PH#1 SHARE	96	87	81	80	85	91	87	85	65	67	83	91	92	96	85
15 PSE PH#1 SHARE	96	87	81	80	85	91	87	85	65	67	83	91	92	96	85
16 RISL PH#2 AFTER ENC.	95	119	120	116	133	157	137	131	89	71	34	156	144	75	118
17 CHELAN PH#2 SHARE	38	48	48	47	53	63	55	52	35	28	14	63	58	37	48
18 PSE PH#2 SHARE	57	72	72	70	80	94	82	79	53	43	20	94	86	37	70
19 CHELAN TOTAL SHARE	135	135	129	126	139	154	141	137	101	95	96	153	150	134	133
20 PSE TOTAL SHARE	153	159	152	150	165	186	169	163	118	110	103	185	178	134	155
21 ROCK ISLAND CHLN	288	294	281	276	304	340	310	300	219	205	199	338	328	268	288

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

ENERGY IN AVERAGE MEGAWATTS

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	12 MO AVG
1 ROCKY REACH	601	541	479	468	528	619	543	523	359	360	394	730	667	557	535
2 ROCKY REACH AFTER ENC.	619	558	496	486	546	637	561	539	374	375	410	748	686	575	552
3 PP&L SHARE	33	30	26	26	29	34	30	28	20	20	22	39	36	30	29
4 PGE SHARE	74	67	60	58	65	76	67	65	45	45	49	90	82	69	66
5 PSE SHARE	241	217	193	189	212	248	218	210	145	146	159	291	267	224	215
6 AVC SHARE	18	16	14	14	16	18	16	16	11	11	12	22	20	17	16
7 DOUGLS SHARE	17	16	14	13	15	18	16	15	10	10	12	21	19	16	15
8 CHELAN SHARE	94	84	75	74	83	96	85	81	57	57	62	113	104	87	84
9 COLOCK SHARE	142	128	114	112	126	147	129	124	86	86	94	172	158	132	127
10 RKY REACH AFTER ENC. CHLN	619	558	496	486	546	637	561	539	374	375	410	748	686	575	552
11 ROCK ISLAND	219	225	216	211	236	271	241	232	162	148	136	269	259	198	222
12 RISL PH#1 & PH#2 AFTER ENC.	288	294	281	276	304	340	310	300	219	205	199	338	328	268	288
13 RISL PH#1 AFTER ENC.	193	174	162	159	171	183	173	169	130	134	165	181	184	193	170
14 CHELAN PH#1 SHARE	96	87	81	80	85	91	87	85	65	67	83	91	92	96	85
15 PSE PH#1 SHARE	96	87	81	80	85	91	87	85	65	67	83	91	92	96	85
16 RISL PH#2 AFTER ENC.	95	119	120	116	133	157	137	131	89	71	34	156	144	75	118
17 CHELAN PH#2 SHARE	47	60	60	58	67	78	69	65	44	36	17	78	72	37	59
18 PSE PH#2 SHARE	47	60	60	58	67	78	69	65	44	36	17	78	72	37	59
19 CHELAN TOTAL SHARE	144	147	141	138	152	170	155	150	109	102	99	169	164	134	144
20 PSE TOTAL SHARE	144	147	140	138	152	170	155	150	110	103	100	169	164	134	144
21 ROCK ISLAND CHLN	288	294	281	276	304	340	310	300	219	205	199	338	328	268	288

TABLE A-20

WANAPUM AND PRIEST RAPIDS ALLOCATION

1998 WHITE BOOK: 12/31/98

1999-0 OPERATING YEAR

RUN DATE: 12/31/98

1937 WATER YEAR

ENERGY IN AVERAGE MEGAWATTS

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	12 MO AVG
1 WANAPUM	444	477	424	414	470	554	484	462	314	310	299	550	533	427	450
2 WANAPUM AFTER ENC.	371	404	354	344	397	480	410	390	253	248	231	476	460	353	379
3 PP&L SHARE	69	76	66	64	74	90	77	73	47	46	43	89	86	66	71
4 PGE SHARE	69	75	66	64	74	90	77	73	47	46	43	89	86	66	71
5 PSE SHARE	40	44	38	37	43	52	44	42	27	27	25	52	50	38	41
6 AVC SHARE	30	33	29	28	32	40	33	32	21	20	19	39	38	29	31
7 GRANT SHARE	135	147	129	126	145	175	150	142	92	90	84	174	168	129	138
8 EUGENE SHARE	9	9	8	8	9	11	9	9	6	6	5	11	11	8	9
9 COWLIZ SHARE	10	11	10	9	11	13	11	10	7	7	6	13	12	10	10
10 F GROV SHARE	3	3	2	2	3	3	3	3	2	2	2	3	3	2	3
11 MCMINN SHARE	3	3	3	3	3	3	3	3	2	2	2	3	3	2	3
12 M FREE SHARE	3	3	3	3	3	3	3	3	2	2	2	3	3	3	3
13 WANAPUM AFTER ENC. GRNT	371	404	354	344	397	480	410	390	253	248	231	476	460	353	379
14 PRIEST RAPIDS	407	473	426	417	466	542	478	460	321	311	231	521	503	413	438
15 PRIEST RAPIDS AFTER ENC.	390	457	410	401	450	525	462	444	306	297	216	505	487	397	422
16 PP&L SHARE	54	63	57	56	63	73	64	62	43	41	30	70	68	55	59
17 PGE SHARE	54	63	57	56	63	73	64	62	43	41	30	70	68	55	59
18 PSE SHARE	31	37	33	32	36	42	37	35	24	24	17	40	39	32	34
19 SEATTL SHARE	31	37	33	32	36	42	37	35	24	24	17	40	39	32	34
20 TPU SHARE	31	37	33	32	36	42	37	36	24	24	17	40	39	32	34
21 AVC SHARE	24	28	25	24	27	32	28	27	19	18	13	31	30	24	26
22 GRANT SHARE	142	167	150	146	164	192	169	162	112	108	79	184	178	145	154
23 EUGENE SHARE	7	8	7	7	8	9	8	8	5	5	4	9	8	7	7
24 COWLIZ SHARE	8	9	8	8	9	10	9	9	6	6	5	10	10	8	8
25 F GROV SHARE	2	2	2	2	2	3	2	2	2	1	1	3	2	2	2
26 MCMINN SHARE	2	2	2	2	2	3	2	2	2	2	1	3	2	2	2
27 M FREE SHARE	2	2	2	2	2	2	3	2	1	2	1	3	2	2	2
28 KITATS SHARE	2	2	1	2	2	2	2	2	1	1	1	2	2	1	2
29 PRST RPDS AFTER ENC. GRNT	390	457	410	401	450	525	462	444	306	297	216	505	487	397	422

TABLE A-20

WANAPUM AND PRIEST RAPIDS ALLOCATION

1998 WHITE BOOK: 12/31/98

2003- 4 OPERATING YEAR

RUN DATE: 12/31/98

1937 WATER YEAR

ENERGY IN AVERAGE MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	12 MO AVG
1 WANAPUM	444	477	424	414	470	554	484	462	314	310	299	550	533	427	450
2 WANAPUM AFTER ENC.	371	404	354	344	397	480	410	390	253	248	231	476	460	353	379
3 PP&L SHARE	69	76	66	64	74	90	77	73	47	46	43	89	86	66	71
4 PGE SHARE	69	75	66	64	74	90	77	73	47	46	43	89	86	66	71
5 PSE SHARE	40	44	38	37	43	52	44	42	27	27	25	52	50	38	41
6 AVC SHARE	30	33	29	28	32	40	33	32	21	20	19	39	38	29	31
7 GRANT SHARE	135	147	129	126	145	175	150	142	92	90	84	174	168	129	138
8 EUGENE SHARE	9	9	8	8	9	11	9	9	6	6	5	11	11	8	9
9 COWLIZ SHARE	10	11	10	9	11	13	11	10	7	7	6	13	12	10	10
10 F GROV SHARE	3	3	2	2	3	3	3	3	2	2	2	3	3	2	3
11 MCMINN SHARE	3	3	3	3	3	3	3	3	2	2	2	3	3	2	3
12 M FREE SHARE	3	3	3	3	3	3	3	3	2	2	2	3	3	3	3
13 WANAPUM AFTER ENC. GRNT	371	404	354	344	397	480	410	390	253	248	231	476	460	353	379
14 PRIEST RAPIDS	407	473	426	417	466	542	478	460	321	311	231	521	503	413	438
15 PRIEST RAPIDS AFTER ENC.	390	457	410	401	450	525	462	444	306	297	216	505	487	397	422
16 PP&L SHARE	54	63	57	56	63	73	64	62	43	41	30	70	68	55	59
17 PGE SHARE	54	63	57	56	63	73	64	62	43	41	30	70	68	55	59
18 PSE SHARE	31	37	33	32	36	42	37	35	24	24	17	40	39	32	34
19 SEATTL SHARE	31	37	33	32	36	42	37	35	24	24	17	40	39	32	34
20 TPU SHARE	31	37	33	32	36	42	37	36	24	24	17	40	39	32	34
21 AVC SHARE	24	28	25	24	27	32	28	27	19	18	13	31	30	24	26
22 GRANT SHARE	142	167	150	146	164	192	169	162	112	108	79	184	178	145	154
23 EUGENE SHARE	7	8	7	7	8	9	8	8	5	5	4	9	8	7	7
24 COWLIZ SHARE	8	9	8	8	9	10	9	9	6	6	5	10	10	8	8
25 F GROV SHARE	2	2	2	2	2	3	2	2	2	1	1	3	2	2	2
26 MCMINN SHARE	2	2	2	2	2	3	2	2	2	2	1	3	2	2	2
27 M FREE SHARE	2	2	2	2	2	2	3	2	1	2	1	3	2	2	2
28 KITATS SHARE	2	2	1	2	2	2	2	2	1	1	1	2	2	1	2
29 PRST RPDS AFTER ENC. GRNT	390	457	410	401	450	525	462	444	306	297	216	505	487	397	422

TABLE A-20

WANAPUM AND PRIEST RAPIDS ALLOCATION

1998 WHITE BOOK: 12/31/98

2008- 9 OPERATING YEAR

RUN DATE: 12/31/98

1937 WATER YEAR

ENERGY IN AVERAGE MEGAWATTS

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	12 MO AVG
1 WANAPUM	444	477	424	414	470	554	484	462	314	310	299	550	533	427	450
2 WANAPUM AFTER ENC.	371	404	354	344	397	480	410	390	253	248	231	476	460	353	379
3 PP&L SHARE	69	76	66	64	74	90	77	73	47	46	43	89	86	66	71
4 PGE SHARE	69	75	66	64	74	90	77	73	47	46	43	89	86	66	71
5 PSE SHARE	40	44	38	37	43	52	44	42	27	27	25	52	50	38	41
6 AVC SHARE	30	33	29	28	32	40	33	32	21	20	19	39	38	29	31
7 GRANT SHARE	135	147	129	126	145	175	150	142	92	90	84	174	168	129	138
8 EUGENE SHARE	9	9	8	8	9	11	9	9	6	6	5	11	11	8	9
9 COWLIZ SHARE	10	11	10	9	11	13	11	10	7	7	6	13	12	10	10
10 F GROV SHARE	3	3	2	2	3	3	3	3	2	2	2	3	3	2	3
11 MCMINN SHARE	3	3	3	3	3	3	3	3	2	2	2	3	3	2	3
12 M FREE SHARE	3	3	3	3	3	3	3	3	2	2	2	3	3	3	3
13 WANAPUM AFTER ENC. GRNT	371	404	354	344	397	480	410	390	253	248	231	476	460	353	379
14 PRIEST RAPIDS	407	473	426	417	466	542	478	460	321	311	231	521	503	413	438
15 PRIEST RAPIDS AFTER ENC.	390	457	410	401	450	525	462	444	306	297	216	505	487	397	422
16 PP&L SHARE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 PGE SHARE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 PSE SHARE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19 SEATTL SHARE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 TPU SHARE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21 AVC SHARE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22 GRANT SHARE	390	457	410	401	450	525	462	444	306	297	216	505	487	397	422
23 EUGENE SHARE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 COWLIZ SHARE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 F GROV SHARE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 MCMINN SHARE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27 M FREE SHARE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 KITATS SHARE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 PRST RPDS AFTER ENC. GRNT	390	457	410	401	450	525	462	444	306	297	216	505	487	397	422

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

ENERGY IN AVERAGE MEGAWATTS

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	12 MO AVG
1 SWIFT 1	52	26	49	17	80	37	150	26	64	124	99	0	92	57	60
2 COWLIZ SHARE	13	7	13	5	21	10	39	7	17	32	26	0	24	15	16
3 PP&L SHARE (SYSTEM)	39	19	36	12	59	27	111	19	47	92	73	0	68	42	44
4 SWIFT 1 PP&L	52	26	49	17	80	37	150	26	64	124	99	0	92	57	60
5 SWIFT 2	15	8	14	5	26	12	55	12	31	59	47	0	28	17	22
6 COWLIZ SHARE	4	2	4	1	7	3	14	3	8	15	12	0	7	5	6
7 PP&L SHARE (SYSTEM)	11	6	10	4	19	9	41	9	23	44	35	0	21	12	16
8 SWIFT 2 COW	15	8	14	5	26	12	55	12	31	59	47	0	28	17	22

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

ENERGY IN AVERAGE MEGAWATTS

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	12 MO AVG
1 SWIFT 1	52	26	49	17	80	37	150	26	64	124	99	0	92	57	60
2 COWLIZ SHARE	13	7	13	5	21	10	39	7	17	32	26	0	24	15	16
3 PP&L SHARE (SYSTEM)	39	19	36	12	59	27	111	19	47	92	73	0	68	42	44
4 SWIFT 1 PP&L	52	26	49	17	80	37	150	26	64	124	99	0	92	57	60
5 SWIFT 2	15	8	14	5	26	12	55	12	31	59	47	0	28	17	22
6 COWLIZ SHARE	4	2	4	1	7	3	14	3	8	15	12	0	7	5	6
7 PP&L SHARE (SYSTEM)	11	6	10	4	19	9	41	9	23	44	35	0	21	12	16
8 SWIFT 2 COW	15	8	14	5	26	12	55	12	31	59	47	0	28	17	22

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

ENERGY IN AVERAGE MEGAWATTS

	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	12 MO AVG
1 SWIFT 1	52	26	49	17	80	37	150	26	64	124	99	0	92	57	60
2 COWLIZ SHARE	13	7	13	5	21	10	39	7	17	32	26	0	24	15	16
3 PP&L SHARE (SYSTEM)	39	19	36	12	59	27	111	19	47	92	73	0	68	42	44
4 SWIFT 1 PP&L	52	26	49	17	80	37	150	26	64	124	99	0	92	57	60
5 SWIFT 2	15	8	14	5	26	12	55	12	31	59	47	0	28	17	22
6 COWLIZ SHARE	4	2	4	1	7	3	14	3	8	15	12	0	7	5	6
7 PP&L SHARE (SYSTEM)	11	6	10	4	19	9	41	9	23	44	35	0	21	12	16
8 SWIFT 2 COW	15	8	14	5	26	12	55	12	31	59	47	0	28	17	22

TABLE A-22

NON-UTILITY GENERATING RESOURCES

1998 WHITE BOOK: 12/31/98

1999-0 OPERATING YEAR

RUN DATE: 12/31/98

ENERGY IN AVERAGE MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	12 MO AVG
NON-UTILITY GENERATING RESOURCES															
-- FEDERAL SYSTEM --															
1 FEDERAL	5	5	5	7	11	13	13	12	9	8	8	6	6	5	8
-- PUBLIC AGENCIES --															
2 CHELAN COUNTY PUD #1	0	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	0
4 COWLITZ COUNTY PUD #1	0	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	0
6 EUGENE WATER & ELEC BRD	2	2	2	7	9	9	5	5	5	12	12	39	39	12	12
7 GRANT COUNTY PUD #2	12	12	7	5	0	0	0	0	1	10	10	14	15	15	7
8 GRAY'S HARBOR COUNTY PUD 1	0	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	0
10 PEND OREILLE COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 SEATTLE CITY LIGHT	121	121	76	28	5	5	10	12	28	88	88	134	141	138	65
12 SNOHOMISH COUNTY PUD #1	38	38	38	27	27	27	27	27	27	38	38	38	38	38	32
13 SPRINGFIELD UTIL BOARD DED	0	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	25
15 SMALL & NON GEN PUBLICS	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
16 PUBLIC AGENCIES	234	234	164	90	49	49	50	52	73	191	191	282	296	270	150
-- INVESTOR-OWNED UTILITIES --															
17 IDAHO POWER COMPANY DED	136	136	117	86	72	53	53	58	70	101	101	129	146	144	97
18 MONTANA POWER CO. REGIONAL	47	48	39	31	39	36	37	37	39	38	30	34	34	43	38
19 PACIFICORP	57	57	56	57	64	67	53	74	63	69	69	78	64	62	64
20 PORTLAND GENERAL ELECTRIC	12	12	12	16	24	27	25	25	24	24	25	23	17	13	20
21 PUGET SOUND ENERGY	643	643	655	655	655	655	655	655	655	643	643	260	564	643	611
22 AVISTA CORP (WWP)	67	67	69	68	70	73	74	74	76	76	76	51	51	69	68
23 INVESTOR-OWNED UTILITIES	962	963	948	913	924	911	897	923	927	951	944	575	876	974	898
TOTAL REGIONAL NON-UTILITY GENERATION															
24 TOTAL NON-UTILITY GEN	1201	1202	1117	1010	984	973	960	987	1009	1150	1143	863	1178	1249	1056

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	44	43	54	44	53	55	54	54	54	39	47	63	62	51	53
2. UPC: N-U-G'S	8	8	8	7	7	6	5	6	7	7	7	11	14	11	8

TABLE A-22

NON-UTILITY GENERATING RESOURCES

1998 WHITE BOOK: 12/31/98

2003- 4 OPERATING YEAR

RUN DATE: 12/31/98

ENERGY IN AVERAGE MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	12 MO AVG
NON-UTILITY GENERATING RESOURCES	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
-- FEDERAL SYSTEM --															
1 FEDERAL	43	43	44	42	47	50	50	49	48	46	46	37	47	44	45
-- PUBLIC AGENCIES --															
2 CHELAN COUNTY PUD #1	0	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	0
4 COWLITZ COUNTY PUD #1	0	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	0
6 EUGENE WATER & ELEC BRD	2	2	2	7	9	9	5	5	5	12	12	39	39	12	12
7 GRANT COUNTY PUD #2	12	12	7	5	0	0	0	0	1	10	10	14	15	15	7
8 GRAY'S HARBOR COUNTY PUD 1	0	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	0
10 PEND OREILLE COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 SEATTLE CITY LIGHT	121	121	76	28	5	5	10	12	28	88	88	134	141	138	65
12 SNOHOMISH COUNTY PUD #1	38	38	38	27	27	27	27	27	27	38	38	38	38	38	32
13 SPRINGFIELD UTIL BOARD DED	0	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	25
15 SMALL & NON GEN PUBLICS	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
16 PUBLIC AGENCIES	234	234	164	90	49	49	50	52	73	191	191	282	296	270	150
-- INVESTOR-OWNED UTILITIES --															
17 IDAHO POWER COMPANY DED	137	137	117	86	72	53	53	58	70	101	101	129	146	144	97
18 MONTANA POWER CO. REGIONAL	43	44	36	29	36	33	38	38	36	35	28	30	31	34	35
19 PACIFICORP	57	57	56	57	64	67	53	74	63	69	69	78	64	62	64
20 PORTLAND GENERAL ELECTRIC	12	12	12	15	24	27	25	25	24	24	24	23	17	13	20
21 PUGET SOUND ENERGY	643	643	655	655	655	655	655	655	655	643	643	260	564	643	611
22 AVISTA CORP (WWP)	8	8	9	9	11	14	15	15	17	17	17	16	16	4	13
23 INVESTOR-OWNED UTILITIES	900	901	885	851	862	849	839	865	865	889	882	536	838	900	840
TOTAL REGIONAL NON-UTILITY GENERATION															
24 TOTAL NON-UTILITY GEN	1177	1178	1093	983	958	948	939	966	986	1126	1119	855	1181	1214	1035

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	48	47	57	46	56	58	53	53	57	42	49	67	65	60	55
2. UPC: N-U-G'S	8	8	8	7	7	6	5	6	7	7	7	11	14	11	8

TABLE A-22

NON-UTILITY GENERATING RESOURCES

1998 WHITE BOOK: 12/31/98

2008- 9 OPERATING YEAR

RUN DATE: 12/31/98

ENERGY IN AVERAGE MEGAWATTS	AUG 1-15	AUG 16-31	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR 1-15	APR 16-30	MAY	JUN	JUL	12 MO AVG
NON-UTILITY GENERATING RESOURCES	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
-- FEDERAL SYSTEM --															
1 FEDERAL	43	43	44	42	47	50	50	49	48	46	46	37	47	44	45
-- PUBLIC AGENCIES --															
2 CHELAN COUNTY PUD #1	0	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	0
4 COWLITZ COUNTY PUD #1	0	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	0
6 EUGENE WATER & ELEC BRD	1	1	2	7	9	8	5	5	5	12	12	39	39	12	12
7 GRANT COUNTY PUD #2	12	12	7	5	0	0	0	0	1	11	11	14	15	14	7
8 GRAY'S HARBOR COUNTY PUD 1	0	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	0
10 PEND OREILLE COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 SEATTLE CITY LIGHT	121	121	75	27	4	5	10	12	27	88	88	134	141	138	65
12 SNOHOMISH COUNTY PUD #1	38	38	38	27	27	27	27	27	27	38	38	38	38	38	32
13 SPRINGFIELD UTIL BOARD DED	0	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	25
15 SMALL & NON GEN PUBLICS	3	3	3	3	3	3	3	3	3	2	2	2	3	3	3
16 PUBLIC AGENCIES	228	228	158	84	43	43	45	47	67	186	186	276	291	264	144
-- INVESTOR-OWNED UTILITIES --															
17 IDAHO POWER COMPANY DED	136	137	117	86	72	53	53	58	70	101	101	129	146	144	97
18 MONTANA POWER CO. REGIONAL	37	37	36	29	36	38	39	38	36	35	28	31	31	34	35
19 PACIFICORP	57	57	56	57	64	67	53	74	63	69	69	78	64	62	64
20 PORTLAND GENERAL ELECTRIC	12	12	12	15	24	27	25	25	24	25	25	23	17	13	20
21 PUGET SOUND ENERGY	643	643	655	655	655	655	655	655	655	643	643	260	564	643	611
22 AVISTA CORP (WWP)	5	5	5	5	5	5	5	5	5	5	5	5	4	4	5
23 INVESTOR-OWNED UTILITIES	890	891	881	847	856	845	830	855	853	878	871	526	826	900	832
TOTAL REGIONAL NON-UTILITY GENERATION															
24 TOTAL NON-UTILITY GEN	1161	1162	1083	973	946	938	925	951	968	1110	1103	839	1164	1208	1022

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	54	54	57	46	56	53	52	53	57	42	49	66	65	60	55
2. UPC: N-U-G'S	8	8	8	7	7	6	5	6	7	7	7	11	14	11	8

TABLE A-23

DEDICATED RESOURCES															
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	12 MO
ENERGY IN AVERAGE MEGAWATTS	1-15	16-31								1-15	16-30				AVG
	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
DEDICATED RESOURCES															
-- PUBLIC AGENCIES --															
1 CHELAN COUNTY PUD #1	228	205	154	185	200	224	207	202	157	112	132	239	181	228	193
2 CLARK COUNTY PUD #1	234	234	238	243	245	248	255	253	250	250	250	247	243	239	245
3 COWLITZ COUNTY PUD #1	196	190	196	184	209	197	234	190	199	221	210	184	214	199	201
4 DOUGLAS COUNTY PUD #1	122	108	95	91	104	124	107	102	66	69	77	141	135	109	105
5 EUGENE WATER & ELEC BOARD	171	172	177	200	246	270	266	257	230	212	211	215	217	181	220
6 GRANT COUNTY PUD #2	217	250	221	217	251	302	257	247	156	150	118	290	278	213	233
7 GRAY'S HARBOR COUNTY PUD 1	27	27	27	27	27	27	27	27	27	27	27	16	27	27	26
8 OKANOGAN COUNTY PUD #1	30	27	24	23	26	30	26	25	16	17	19	38	38	30	27
9 PEND OREILLE COUNTY PUD #1	-7	-12	-8	9	-6	-2	-11	-12	-7	-2	14	29	28	17	3
10 SEATTLE CITY LIGHT	1068	708	502	622	734	762	581	529	682	747	852	1092	1533	1315	837
11 SNOHOMISH COUNTY PUD #1	122	122	124	124	122	183	136	119	145	178	178	141	189	153	145
12 SPRINGFIELD UTILITY BOARD	24	24	24	24	24	24	24	24	24	25	25	25	25	25	24
13 TACOMA PUBLIC UTILITIES	638	430	261	299	363	340	298	778	360	371	312	325	578	634	426
14 SMALL & NON GEN PUBLIC	312	312	321	331	351	389	386	381	355	337	334	701	683	688	436
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15 TOTAL PUBLIC AGENCIES	3382	2797	2356	2580	2896	3118	2792	3122	2660	2715	2759	3683	4369	4058	3122
-- INVESTOR-OWNED UTILITIES --															
16 IDAHO POWER COMPANY	1818	1518	1481	1409	1143	1439	1402	1165	1366	1421	1401	1440	1358	1513	1400
17 MONTANA POWER CO. REGIONAL	329	327	322	335	353	381	388	365	334	306	284	236	297	336	331
18 PACIFICORP	2220	2198	2082	1957	2179	2192	2390	2196	2023	2221	2074	1592	2368	2244	2132
19 PORTLAND GENERAL ELECTRIC	916	775	662	704	756	871	752	834	635	705	738	995	899	810	790
20 PUGET SOUND ENERGY	1950	1877	1666	1651	1799	1990	1768	1763	1606	1456	1631	1534	1936	1905	1756
21 AVISTA CORP (WWP)	533	480	499	558	593	639	567	514	586	602	658	808	1019	737	638
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22 TOTAL INVESTOR-OWNED UTILS	7766	7175	6712	6614	6823	7512	7267	6837	6550	6711	6786	6605	7877	7545	7047
TOTAL DEDICATED RESOURCES															
23 TOTAL DEDICATED RESOURCES	11148	9972	9068	9194	9719	10630	10059	9959	9210	9426	9545	10288	12246	11603	10168

TABLE A-23

DEDICATED RESOURCES															
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	12 MO
ENERGY IN AVERAGE MEGAWATTS	1-15	16-31								1-15	16-30				AVG
	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
DEDICATED RESOURCES															
-- PUBLIC AGENCIES --															
1 CHELAN COUNTY PUD #1	261	248	197	228	249	283	258	250	189	136	141	298	233	254	236
2 CLARK COUNTY PUD #1	235	235	239	245	247	249	247	245	242	242	242	239	235	231	241
3 COWLITZ COUNTY PUD #1	42	36	42	30	55	43	80	36	45	67	56	30	60	45	47
4 DOUGLAS COUNTY PUD #1	170	156	143	139	152	172	155	150	114	117	125	189	183	156	153
5 EUGENE WATER & ELEC BOARD	86	87	81	70	71	74	62	75	76	82	81	120	121	86	84
6 GRANT COUNTY PUD #2	212	245	216	212	246	297	252	242	151	143	111	283	271	206	228
7 GRAY'S HARBOR COUNTY PUD 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 OKANOGAN COUNTY PUD #1	30	27	24	23	26	30	26	25	16	17	19	34	34	26	26
9 PEND OREILLE COUNTY PUD #1	0	-9	-1	16	1	5	-4	-8	0	5	21	36	35	24	9
10 SEATTLE CITY LIGHT	1046	686	480	601	712	740	559	507	655	675	780	1104	1513	1294	813
11 SNOHOMISH COUNTY PUD #1	120	120	122	122	120	181	134	117	138	127	127	171	187	151	141
12 SPRINGFIELD UTILITY BOARD	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31
13 TACOMA PUBLIC UTILITIES	624	416	247	285	349	326	284	764	341	308	249	345	565	621	410
14 SMALL & NON GEN PUBLIC	788	788	655	670	746	841	866	843	760	722	718	797	821	838	779
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15 TOTAL PUBLIC AGENCIES	3645	3066	2476	2672	3004	3273	2949	3277	2758	2673	2701	3677	4289	3963	3198
-- INVESTOR-OWNED UTILITIES --															
16 IDAHO POWER COMPANY	1835	1536	1504	1432	1161	1462	1484	1232	1206	1562	1646	1566	1388	1588	1443
17 MONTANA POWER CO. REGIONAL	326	326	320	335	352	380	379	357	335	307	284	237	294	348	330
18 PACIFICORP	2076	2052	1773	1801	2101	2098	2294	2158	2115	1910	1764	1985	2286	2152	2055
19 PORTLAND GENERAL ELECTRIC	912	770	657	702	757	874	757	836	636	688	721	1001	893	802	788
20 PUGET SOUND ENERGY	1885	1803	1592	1579	1719	1901	1687	1685	1540	1355	1544	1471	1849	1846	1680
21 AVISTA CORP (WWP)	532	479	498	556	592	637	565	512	575	503	559	863	1015	733	632
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22 TOTAL INVESTOR-OWNED UTILS	7566	6966	6344	6405	6682	7352	7166	6780	6407	6325	6518	7123	7725	7469	6928
TOTAL DEDICATED RESOURCES															
23 TOTAL DEDICATED RESOURCES	11211	10032	8820	9077	9686	10625	10115	10057	9165	8998	9219	10800	12014	11432	10127

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	12 MO
ENERGY IN AVERAGE MEGAWATTS	1-15	16-31								1-15	16-30				AVG
	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
DEDICATED RESOURCES															
-- PUBLIC AGENCIES --															
1 CHELAN COUNTY PUD #1	268	258	207	237	259	295	269	260	195	140	142	310	246	252	244
2 CLARK COUNTY PUD #1	228	228	231	237	239	241	251	249	246	246	246	243	239	235	240
3 COWLITZ COUNTY PUD #1	29	22	29	17	41	28	66	22	34	56	46	15	45	32	34
4 DOUGLAS COUNTY PUD #1	120	106	93	89	102	122	105	100	64	67	75	139	133	106	103
5 EUGENE WATER & ELEC BOARD	40	40	35	41	40	43	31	44	47	53	52	88	89	55	51
6 GRANT COUNTY PUD #2	192	225	196	192	226	277	232	222	131	124	92	264	252	187	208
7 GRAY'S HARBOR COUNTY PUD 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 OKANOGAN COUNTY PUD #1	30	27	24	23	26	30	26	25	16	17	19	34	34	26	26
9 PEND OREILLE COUNTY PUD #1	19	6	18	35	20	24	15	11	19	24	40	55	54	43	28
10 SEATTLE CITY LIGHT	999	633	430	552	658	682	506	456	619	685	797	1015	1457	1246	765
11 SNOHOMISH COUNTY PUD #1	156	156	158	148	146	207	160	143	169	203	203	165	220	184	172
12 SPRINGFIELD UTILITY BOARD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 TACOMA PUBLIC UTILITIES	596	382	217	256	316	287	250	731	325	337	285	275	529	592	381
14 SMALL & NON GEN PUBLIC	188	188	171	176	200	215	223	229	199	192	191	186	178	187	195
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15 TOTAL PUBLIC AGENCIES	2865	2270	1808	2002	2273	2451	2133	2492	2064	2144	2188	2788	3475	3145	2447
-- INVESTOR-OWNED UTILITIES --															
16 IDAHO POWER COMPANY	1895	1596	1564	1473	1212	1523	1484	1232	1375	1613	1358	1617	1452	1588	1479
17 MONTANA POWER CO. REGIONAL	342	340	323	338	355	377	384	360	338	310	289	241	299	352	334
18 PACIFICORP	1970	1937	1827	1709	1928	1910	2116	1923	1765	2069	1934	1375	2112	1985	1884
19 PORTLAND GENERAL ELECTRIC	862	711	604	649	698	805	697	778	599	669	713	927	832	753	735
20 PUGET SOUND ENERGY	1847	1756	1549	1537	1672	1845	1638	1639	1514	1373	1573	1392	1801	1819	1640
21 AVISTA CORP (WWP)	512	455	477	537	570	610	542	490	570	585	646	778	990	714	615
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22 TOTAL INVESTOR-OWNED UTILS	7428	6795	6344	6243	6435	7070	6861	6422	6161	6619	6513	6330	7486	7211	6687
TOTAL DEDICATED RESOURCES															
23 TOTAL DEDICATED RESOURCES	10293	9065	8152	8245	8708	9521	8994	8914	8225	8763	8701	9118	10961	10356	9134

TABLE A-24

OTHER DEDICATED RESOURCES

1998 WHITE BOOK: 12/31/98

1999-0 OPERATING YEAR

RUN DATE: 12/31/98

1937 WATER YEAR

ENERGY IN AVERAGE MEGAWATTS

AUG
1-15AUG
16-31

SEP

OCT

NOV

DEC

JAN

FEB

MAR

APR
1-15APR
16-30

MAY

JUN

JUL

12 MO
AVG

OTHER DEDICATED RESOURCES

-- PUBLIC AGENCIES --

1 CHELAN COUNTY PUD #1	8	7	7	7	18	19	18	19	5	6	7	8	8	8	11
2 CLARK COUNTY PUD #1	50	50	53	50	75	85	119	118	125	117	117	78	98	112	90
3 COWLITZ COUNTY PUD #1	30	30	30	0	0	0	0	0	0	0	0	0	0	0	5
4 DOUGLAS COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 EUGENE WATER & ELEC BOARD	26	28	31	32	35	22	33	25	26	28	27	30	29	25	29
6 GRANT COUNTY PUD #2	39	43	35	32	31	37	33	30	21	29	26	50	50	43	36
7 GRAY'S HARBOR COUNTY PUD 1	25	25	25	25	25	25	25	25	25	25	25	14	25	25	24
8 OKANOGAN COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 PEND OREILLE COUNTY PUD #1	6	-1	6	6	6	6	6	3	6	6	6	6	6	6	5
10 SEATTLE CITY LIGHT	-23	-23	-46	-64	49	80	80	80	30	6	6	0	-30	-130	3
11 SNOHOMISH COUNTY PUD #1	106	106	106	106	106	134	136	138	138	137	137	109	109	109	119
12 SPRINGFIELD UTILITY BOARD	21	21	21	21	21	21	44	42	42	21	21	21	21	21	26
13 TACOMA PUBLIC UTILITIES	-42	-42	-20	33	10	21	30	27	18	8	8	5	8	8	9
14 SMALL & NON GEN PUBLIC	51	51	64	56	56	55	54	55	54	38	38	37	38	38	50
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15 TOTAL PUBLIC AGENCIES	297	296	312	304	432	504	578	562	490	421	418	358	362	265	407

-- INVESTOR-OWNED UTILITIES --

16 IDAHO POWER COMPANY	137	137	25	21	-5	-82	-82	-83	-24	19	6	-63	-2	209	5
17 MONTANA POWER CO. REGIONAL	401	403	387	389	389	386	387	386	387	399	294	369	414	395	386
18 PACIFICORP	-66	-66	2	186	213	259	283	259	246	143	143	-384	39	-14	97
19 PORTLAND GENERAL ELECTRIC	1011	1011	1011	1023	1029	1032	1369	1368	1194	957	1115	910	1114	1100	1100
20 PUGET SOUND ENERGY	452	452	397	689	990	990	991	993	766	591	464	337	223	452	651
21 AVISTA CORP (WWP)	84	84	63	96	73	76	43	40	-25	-19	-83	-153	-153	-95	0
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22 TOTAL INVESTOR-OWNED UTILIT	2019	2021	1885	2404	2689	2661	2991	2963	2544	2090	1939	1016	1635	2047	2239

TOTAL OTHER DEDICATED RESOURCES

23 TOTAL OTHER DEDICATED RES.	2316	2317	2197	2708	3121	3165	3569	3525	3034	2511	2357	1374	1997	2312	2646
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TABLE A-24

OTHER DEDICATED RESOURCES

1998 WHITE BOOK: 12/31/98

2003- 4 OPERATING YEAR

RUN DATE: 12/31/98

1937 WATER YEAR

ENERGY IN AVERAGE MEGAWATTS

AUG
1-15AUG
16-31

SEP

OCT

NOV

DEC

JAN

FEB

MAR

APR
1-15APR
16-30

MAY

JUN

JUL

12 MO
AVG

OTHER DEDICATED RESOURCES

-- PUBLIC AGENCIES --

1 CHELAN COUNTY PUD #1	10	9	7	7	19	19	18	18	6	6	7	8	9	8	11
2 CLARK COUNTY PUD #1	0	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	0
4 DOUGLAS COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 EUGENE WATER & ELEC BOARD	26	28	31	32	35	22	33	25	26	28	27	30	29	25	29
6 GRANT COUNTY PUD #2	39	43	35	32	31	37	33	30	21	29	26	50	50	43	36
7 GRAY'S HARBOR COUNTY PUD 1	50	50	50	50	50	50	50	50	48	25	25	43	50	50	47
8 OKANOGAN COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 PEND OREILLE COUNTY PUD #1	0	-3	0	0	0	0	0	0	0	0	0	0	0	0	0
10 SEATTLE CITY LIGHT	-23	-23	-46	-64	24	30	30	30	30	6	6	0	-30	-30	-4
11 SNOHOMISH COUNTY PUD #1	43	43	42	41	38	34	35	36	38	40	40	41	42	43	39
12 SPRINGFIELD UTILITY BOARD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 TACOMA PUBLIC UTILITIES	-88	-88	-66	-13	-36	-25	-16	-19	-28	-37	-37	-40	-38	-38	-37
14 SMALL & NON GEN PUBLIC	46	46	44	44	45	48	46	48	44	44	44	45	46	46	45
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15 TOTAL PUBLIC AGENCIES	103	105	97	129	205	214	229	218	185	141	138	177	158	147	167

-- INVESTOR-OWNED UTILITIES --

16 IDAHO POWER COMPANY	401	401	288	272	272	222	272	272	233	176	167	178	250	272	259
17 MONTANA POWER CO. REGIONAL	196	196	181	182	184	180	189	188	182	192	88	163	214	180	182
18 PACIFICORP	0	0	69	252	420	464	328	305	292	285	285	-277	126	89	196
19 PORTLAND GENERAL ELECTRIC	965	965	966	978	984	987	985	984	810	623	781	576	779	966	890
20 PUGET SOUND ENERGY	379	379	324	466	625	628	627	629	404	402	275	185	70	263	412
21 AVISTA CORP (WWP)	164	164	135	160	263	279	280	278	219	219	155	85	125	198	198
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22 TOTAL INVESTOR-OWNED UTILIT	2105	2105	1963	2310	2748	2760	2681	2656	2140	1897	1751	910	1564	1968	2136

TOTAL OTHER DEDICATED RESOURCES

23 TOTAL OTHER DEDICATED RES.	2208	2210	2060	2439	2953	2974	2910	2874	2325	2038	1889	1087	1722	2115	2303
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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

ENERGY IN AVERAGE MEGAWATTS

AUG
1-15AUG
16-31

SEP

OCT

NOV

DEC

JAN

FEB

MAR

APR
1-15APR
16-30

MAY

JUN

JUL

12 MO
AVG

OTHER DEDICATED RESOURCES

-- PUBLIC AGENCIES --

1 CHELAN COUNTY PUD #1	9	9	7	7	17	19	18	18	5	5	7	8	8	8	11
2 CLARK COUNTY PUD #1	0	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	0
4 DOUGLAS COUNTY PUD #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 EUGENE WATER & ELEC BOARD	25	27	30	31	33	20	31	24	25	28	26	29	28	24	27
6 GRANT COUNTY PUD #2	287	333	295	287	317	370	326	312	215	219	164	371	359	294	304
7 GRAY'S HARBOR COUNTY PUD 1	50	50	50	50	50	50	50	50	50	50	50	27	50	50	48
8 OKANOGAN COUNTY PUD #1	0	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	0
10 SEATTLE CITY LIGHT	-19	-19	-30	-14	24	30	30	30	30	6	6	0	-30	-30	2
11 SNOHOMISH COUNTY PUD #1	-7	-7	-8	-9	-12	-16	-15	-14	-12	-10	-10	-9	-8	-7	-11
12 SPRINGFIELD UTILITY BOARD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 TACOMA PUBLIC UTILITIES	3	3	3	4	4	4	4	4	4	4	4	1	3	3	3
14 SMALL & NON GEN PUBLIC	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
15 TOTAL PUBLIC AGENCIES	371	419	370	379	457	500	467	447	340	325	270	450	433	365	408

-- INVESTOR-OWNED UTILITIES --

16 IDAHO POWER COMPANY	272	272	272	272	272	272	272	272	230	177	167	178	250	272	250
17 MONTANA POWER CO. REGIONAL	185	186	181	182	185	188	190	188	183	193	88	164	214	181	182
18 PACIFICORP	326	326	394	472	536	583	564	529	521	460	490	-71	329	317	415
19 PORTLAND GENERAL ELECTRIC	965	965	966	978	985	987	985	984	810	623	781	576	780	966	890
20 PUGET SOUND ENERGY	404	404	350	351	484	487	486	488	404	402	275	185	211	404	383
21 AVISTA CORP (WWP)	249	249	200	206	307	320	320	318	257	256	192	125	169	261	246
22 TOTAL INVESTOR-OWNED UTILIT	2401	2402	2363	2461	2769	2837	2817	2779	2405	2111	1993	1157	1953	2401	2366

TOTAL OTHER DEDICATED RESOURCES

23 TOTAL OTHER DEDICATED RES.	2772	2821	2733	2840	3226	3337	3284	3226	2745	2436	2263	1607	2386	2766	2775
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