

A VISTA UTILITIES
 Washington Electric Cost Study
 Twelve Months Ended December 31, 1998
 Non-Coincident Peak Calculations

1993 Peak Study
Non-Coincident Peak

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Washington												
Schedule 1	577,190	515,032	507,269	405,174	301,466	280,244	284,028	306,650	304,056	383,043	519,237	463,826
Schedule 11/12	81,423	95,501	59,016	69,270	63,245	60,840	60,840	67,723	65,728	70,681	70,681	76,175
Schedule 21/22	245,209	242,794	239,874	228,996	246,169	228,756	210,277	259,990	253,386	235,395	237,279	237,547
Schedule 25	104,393	101,195	93,879	95,256	97,633	95,784	95,942	99,415	96,972	96,150	95,310	97,267
Schedule 28	2,280	-	2,620	2,250	614	1,430	3,720	-	-	300	3,610	2,530
Schedule 29 (Exchange)	3,804	4,350	2,994	3,631	5,766	7,839	8,190	5,804	9,269	5,796	4,091	2,765
Schedule 31/32	5,146	4,847	5,160	8,670	17,677	28,891	23,189	18,247	24,227	16,077	8,483	5,116
Schedule 41-46	3,818	3,818	3,818	3,818	3,818	3,818	3,818	3,818	3,818	3,818	3,818	3,818
Schedule 47-49	2,472	2,472	2,472	2,472	2,472	2,472	2,472	2,472	2,472	2,472	2,472	2,472
Total Washington	1,025,735	970,009	917,102	819,537	738,860	713,959	692,476	769,119	761,548	808,779	944,981	891,516

monthly kWh consumption

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Washington												
Schedule 1	292,414,660	234,177,280	222,223,807	171,019,080	123,813,884	121,875,004	135,984,129	125,029,486	133,167,533	176,711,423	200,833,137	241,649,238
Schedule 11/12	37,666,141	40,336,460	25,899,337	27,279,311	23,554,719	23,946,862	25,471,653	24,662,129	26,579,208	28,691,833	28,071,443	34,823,332
Schedule 21/22	121,975,738	108,168,932	113,496,427	101,615,386	101,889,168	101,334,884	102,558,398	103,327,898	111,846,452	108,167,368	98,930,556	116,858,155
Schedule 25	57,688,066	49,409,428	54,516,042	51,447,034	52,403,639	50,083,682	51,782,316	55,983,554	51,669,109	52,125,954	50,459,455	51,688,177
Schedule 28	9,597	-	28,199	4,200	66,514	1,890	54,220	-	-	300	12,179	64,911
Schedule 29 (Exchange)	2,106,728	2,067,204	1,522,206	1,931,143	3,174,243	4,434,103	4,425,035	3,190,550	4,948,245	3,089,209	2,004,011	1,598,603
Schedule 31/32	2,942,653	2,621,988	2,915,571	3,417,390	6,865,146	15,068,502	11,887,610	10,581,531	13,985,630	6,550,402	4,144,199	2,518,227
Schedule 41-46	1,750,939	1,440,526	1,400,814	1,154,861	1,021,485	899,867	974,391	1,129,086	1,281,371	1,350,060	1,651,094	1,798,285
Schedule 47-49	1,133,551	932,590	906,880	747,656	661,307	582,576	630,818	730,977	829,556	990,551	1,068,912	1,164,201
Total Washington	517,688,073	439,154,408	422,909,283	358,616,061	313,450,105	318,227,370	333,768,570	324,635,211	344,307,104	377,857,100	387,174,986	452,163,129

1993 Study Average kW (consumption/hours)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Washington												
Schedule 1	393,030	348,478	298,688	237,857	166,417	169,271	182,774	168,050	184,955	237,197	278,935	324,797
Schedule 11/12	50,627	60,024	34,811	37,941	31,660	33,260	34,236	33,148	36,916	38,513	38,988	46,806
Schedule 21/22	163,946	160,966	152,549	141,329	136,948	140,743	137,847	138,882	155,342	145,191	137,404	157,067
Schedule 25	77,538	73,526	73,274	71,554	70,435	69,561	69,600	75,247	71,763	69,968	70,083	69,473
Schedule 28	13	-	38	6	89	3	73	-	-	0	17	87
Schedule 29 (Exchange)	2,832	3,076	2,046	2,686	4,266	6,158	5,948	4,288	6,873	4,147	2,783	2,149
Schedule 31/32	3,955	3,902	3,919	4,753	9,227	20,928	15,978	14,222	19,424	8,792	5,756	3,385
Schedule 41-46	2,353	2,144	1,883	1,606	1,373	1,250	1,310	1,518	1,780	2,054	2,293	2,417
Schedule 47-49	1,524	1,388	1,219	1,040	889	809	848	982	1,152	1,330	1,485	1,565
Total Washington	744	672	744	719	744	720	744	744	720	745	720	744

Ratio of Non-Coincident Peak kW to Average kW

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Washington												
Schedule 1	1.47	1.48	1.70	1.70	1.81	1.66	1.55	1.82	1.64	1.61	1.86	1.43
Schedule 11/12	1.61	1.59	1.70	1.83	2.00	1.95	1.78	2.19	1.82	1.71	1.81	1.63
Schedule 21/22	1.50	1.51	1.57	1.62	1.80	1.63	1.53	1.87	1.63	1.62	1.73	1.51
Schedule 25	1.35	1.38	1.28	1.33	1.39	1.38	1.38	1.32	1.35	1.37	1.36	1.40
Schedule 28	176.76	-	69.13	385.18	6.87	544.76	51.05	-	-	745.00	213.42	29.00
Schedule 29 (Exchange)	1.34	1.41	1.46	1.35	1.35	1.27	1.38	1.35	1.35	1.40	1.47	1.29
Schedule 31/32	1.30	1.24	1.32	1.82	1.92	1.38	1.45	1.28	1.25	1.83	1.51	1.47
Schedule 41-46	1.62	1.78	2.03	2.38	2.78	3.05	2.92	2.52	2.15	1.86	1.66	1.58
Schedule 47-49	1.62	1.78	2.03	2.38	2.78	3.06	2.92	2.52	2.15	1.86	1.67	1.58

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1998 Average kW (consumption/hours)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Washington	744	696	744	719	744	720	744	744	720	745	720	744
Schedule 1/3/15/81	358,281	327,844	265,938	238,466	198,450	195,597	182,237	216,964	213,051	193,449	239,687	298,019
Schedule 1/1/2/82	52,618	50,556	43,652	39,092	36,486	37,372	36,067	41,526	42,769	38,910	41,332	48,060
Schedule 2/1/22/83 Secondary	206,953	135,355	147,441	141,655	143,154	150,146	144,039	157,127	168,111	155,053	156,429	166,956
Schedule 2/1 Primary	8,057	7,444	9,176	10,242	6,646	12,250	9,448	9,883	9,557	8,859	8,740	6,504
Schedule 3/1/32/84	4,530	4,504	4,020	6,373	12,472	16,336	21,118	23,612	23,953	13,892	5,729	4,328
Estimate 12 Monthly Non-Coincident Peaks												
Washington	526,159	484,536	451,649	406,211	359,495	323,829	283,193	395,905	350,244	312,396	446,177	425,585
Schedule 1/81	84,626	80,436	74,005	71,373	72,886	72,728	64,093	91,103	78,027	66,406	74,930	78,217
Schedule 1/1/2/82	309,533	204,163	231,842	229,524	257,325	244,039	219,722	294,145	274,214	251,384	270,133	252,503
Schedule 2/1/22/83 Secondary	12,051	11,229	14,429	16,596	11,947	19,911	14,413	18,500	15,588	14,363	15,092	9,836
Schedule 2/1 Primary	5,894	5,595	5,294	11,625	23,892	22,551	30,649	30,294	29,875	25,401	8,443	6,542
Schedule 3/1/32/84	3,947	3,947	3,947	3,947	3,947	3,947	3,947	3,947	3,947	3,947	3,947	3,947
Street Lights	16,980,066											
Area Lights	10,446,458											
Schedule 25	107,445	109,150	107,153	113,241	114,792	111,924	116,973	116,002	118,969	112,528	112,571	111,964
Schedule 28	2,050	-	1,740	-	-	-	2,560	-	-	2,240	-	2,540
Estimated Non-Coincident Peak with Losses												
Washington	565,621	520,876	485,522	436,677	386,457	348,117	304,433	425,598	376,512	335,826	479,640	457,504
Schedule 1/81	90,973	86,469	79,556	76,726	78,352	78,183	68,900	97,936	83,879	71,387	80,550	84,083
Schedule 1/1/2/82	332,748	219,476	249,230	246,738	276,624	262,342	236,201	316,206	294,780	270,238	290,393	271,441
Schedule 2/1/22/83 Secondary	1,075	1,075	1,075	1,075	1,075	1,075	1,075	1,075	1,075	1,075	1,075	1,075
Schedule 2/1 Primary	12,678	11,812	15,179	17,459	12,568	20,946	15,162	19,462	16,399	15,110	15,877	10,348
Schedule 3/1/32/84	6,336	6,015	5,691	12,497	25,684	24,243	32,948	32,566	32,115	27,306	9,077	7,033
Street Lights	1,075	1,075	1,075	1,075	1,075	1,075	1,075	1,075	1,075	1,075	1,075	1,075
Area Lights	1,075	1,075	1,075	1,075	1,075	1,075	1,075	1,075	1,075	1,075	1,075	1,075
Schedule 25	113,032	114,826	112,725	119,130	120,761	117,744	123,056	122,034	125,155	118,379	118,425	117,786
Schedule 28	2,112	-	1,792	-	-	-	2,637	-	-	2,307	-	2,616
Total	1,130,353	966,328	956,549	916,080	907,301	858,427	790,190	1,020,656	935,695	847,407	1,000,815	957,664
Washington												
Schedule 1/81	426,899											
Schedule 1/1/2/82	81,416											
Schedule 2/1/22/83 Secondary	272,201											
Schedule 2/1 Primary	15,250											
Schedule 3/1/32/84	18,459											
Street Lights	4,243											
Area Lights	2,610											
Schedule 25	118,588											
Schedule 28	955											
Total	940,622											