

2013 Water Consumption Statistics Report

Water Services Department



Issued: November 2014



TABLE OF CONTENTS

2013 GVWD Statistics Book - Notes.....	3
Annual Peak Day Consumption Dates	7

SYSTEM AND MUNICIPAL CONSUMPTION

Tables

Capilano Source Monthly Average Flows	11
Seymour Source Monthly Average Flows.....	12
Coquitlam Source Monthly Average Flows	13
Total System Monthly Average Flows	14
Annual Average Daily Flows	15
Peak Week Average Daily Flows.....	16
Annual Peak Day Flows	17
Annual Peak Hour Flows	18
Peak Hour to Annual Average Ratios	19
Peak Day to Annual Average Ratios	20
Peak Hour to Peak Day Ratios	21

Graphs (Peak Hour, Peak Day and Annual Average Consumption)

Village of Anmore.....	22
Village of Belcarra	23
City of Burnaby	24
City of Coquitlam.....	25
Corporation of Delta.....	26
City of Langley.....	27
Township of Langley.....	28
City of Maple Ridge	29
City of New Westminster	30
City of North Vancouver	31
District of North Vancouver.....	32
District of Pitt Meadows	33
City of Port Coquitlam	34
City of Port Moody.....	35
City of Richmond	36
City of Surrey	37
University Endowment Lands	38
City of Vancouver	39
District of West Vancouver.....	40
Whole System	41

TABLE OF CONTENTS - Cont.

PER CAPITA CONSUMPTION

Tables

Population Data	45
Annual Average Daily Flows	46
Peak Week Average Daily Flows	47
Annual Peak Day Flows	48
Annual Peak Hour Flows	49

Graphs

System Annual Average Daily Consumption.....	50
System Annual Peak Day Consumption	51
System Annual Peak Hour Consumption.....	52
Village of Anmore - Per Capita.....	53
Village of Belcarra - Per Capita	54
City of Burnaby - Per Capita	55
City of Coquitlam - Per Capita.....	56
Corporation of Delta - Per Capita	57
City of Langley - Per Capita.....	58
Township of Langley - Per Capita.....	59
City of Maple Ridge - Per Capita.....	60
City of New Westminster - Per Capita.....	61
City of North Vancouver - Per Capita.....	62
District of North Vancouver - Per Capita.....	63
District of Pitt Meadows - Per Capita	64
City of Port Coquitlam - Per Capita	65
City of Port Moody - Per Capita	66
City of Richmond - Per Capita.....	67
City of Surrey - Per Capita	68
University Endowment Lands - Per Capita	69
City of Vancouver - Per Capita	70
District of West Vancouver - Per Capita.....	71
Whole System - Per Capita	72

2013 GVWD STATISTICS BOOK

NOTES

Overview

The Greater Vancouver Water District (the GVWD or the “District”) is one of the four separate entities that operates under the name Metro Vancouver and is responsible for supplying water to its member municipalities. This report provides statistical water consumption data for each member as well as source lakes and the system as a whole.

The information provided includes tabulated water consumption data for peak hour, peak day, peak week, and annual average daily flows where available, and their corresponding graphs. In addition, per capita water consumption data and their graphs are presented in this report.

General Notes

1. This issue of the statistics book supersedes all previous issues.
2. Peak Day is the day of annual maximum withdrawal from the sources. The municipal peak day flows in this report are determined from flows on Peak Day. Actual municipal peak day consumption may differ slightly.
3. Prior to 1987, peak week demand was calculated for the week containing the peak day. Starting 1987 and for subsequent years, peak week is the true annual peak week and may not include the Peak Day.
4. As of 2002, “system” flow represents flow drawn from the sources. Previously, “system” flow represented flow delivered by the transmission network.
5. Abbreviations used in this book:
 - ML/d – millions of litres per day
 - Lpcd – litres per capita per day
6. The Village of Anmore joined the GVWD in 1999. Anmore’s water consumption is supplied by the City of Port Moody. Statistical data regarding Anmore’s consumption are available quarterly starting in 2010. Between years 1999 and 2010, Anmore’s consumption is included with the City of Port Moody’s consumption
7. The Village of Belcarra joined the GVWD in December 2008. Belcarra’s water consumption is supplied by the District of North Vancouver. Statistical data regarding water consumption are available monthly starting in 2012. In previous reports, Belcarra’s water consumption data were included with the District of North Vancouver.

8. The Tsawwassen First Nation (TFN) joined the GVWD in April 2009. A metered connection to TFN was commissioned in November 2011, however, the connection registers only very minimal consumption. The bulk of TFN's consumption is provided by the Corporation of Delta and is included with Delta's consumption.

Municipalities with Additional Water Supply Sources

1. In addition to water supplied by the GVWD the following municipalities use their own sources:
 - Corporation of Delta (wells)
 - Township of Langley (wells)
 - City of Maple Ridge (wells)
 - City of Surrey (wells)
 - District of West Vancouver (Eagle Lake)

The percentage of the municipal water use from the above sources may vary.

2. The City of White Rock fully depends on its own water supply wells and is not a GVWD member.

Population

1. Population figures were drawn from the following sources:

- 1961 – 1986: Tables titled "Municipal Statistics" published by the Department of Municipal Affairs of the Province of BC.
- 1987 – 1991: Statistics Canada.
- 1992 – 2005: Population Section, BC Stats, Government of British Columbia
- 2006 – 2013: Regional Planning, Planning, Policy and Environment Department, Metro Vancouver. Population figures have been calibrated to the recently released 2011 Census undercount calculations by Statistics Canada.

Different sources of population statistics have different historical values for population estimates. Consequently, this report may have different historical population figures than previous editions of this report.

2. Assumed annual percentage of Township of Langley's population supplied with GVWD water which is used to compute per capita consumption:

Year	Percentage	Year	Percentage	Year	Percentage
prior to 1989	0	1997	20	2006*	33
1989	2	1998	26	2007*	34
1990	4	1999	34	2008*	33
1991	23	2000*	33	2009*	36
1992	28	2001*	36	2010*	36
1993	23	2002*	29	2011*	36
1994	25	2003*	30	2012*	36
1995	32	2004*	30	2013*	38
1996	23	2005*	30		

* Based on figures supplied by the Township of Langley.

Per Capita Consumption

1. Per capita figures include non-residential water consumption.
2. System as a Whole:
Only the percentage of the Township of Langley population assumed to be serviced by GVWD water (see "Population" notes on Page 4) was included in the system population used to compute system per capita consumption.
3. University Endowment Lands (UEL):
UEL per capita flows include all UEL and UBC flows, however, the population denominator may not include all UBC transient population.
4. Delta, Maple Ridge, Surrey, and West Vancouver:
Although the above members have their own secondary supply sources (see "Municipalities with Additional Water Supply Sources" notes on Pages 3 and 4), for the calculation of per capita consumption at the municipal level, the total municipal population was used.
5. Port Moody:
Statistical data regarding Anmore's consumption became available only from 2010 and a new chart is included in this report to represent Anmore's consumption. Between 1999 and 2010, the portion of Anmore's population supplied by Port Moody is not added to Port Moody's population figures (see "General" notes on Page 3).
6. District of North Vancouver:
Statistical data regarding Belcarra's consumption became available starting in 2012 and a new chart is included in this report to represent Belcarra's consumption. Therefore, in this report Belcarra's consumption is no longer included with the District

of North Vancouver, and Belcarra's population is not added to the District of North Vancouver's population.

7. Delta:

While Tsawwassen First Nation's consumption of GVWD water is included in Delta's consumption values, the portion of the TFN's population so supplied is not added to Delta's population figure (see "General" notes on Page 3).

Factors That Affected Water Consumption in Most Recent Years

1992: Region-wide summer lawn sprinkling ban for 10 weeks.

1993-2002*: June 1 to September 30 region-wide restrictions limiting lawn sprinkling to restricted hours in the morning and evening, two days per week.

2003: Region-wide restrictions limiting lawn sprinkling to two days per week from June 1 were increased to one day per week on August 5th. On August 22nd a region wide sprinkling ban was imposed due to the low storage level and unusually warm and dry weather.

2004-2010: June 1 to September 30 region-wide restrictions limiting lawn sprinkling to restricted hours in the morning and evening, two days per week.

2011: June 1 to September 30 region-wide restrictions. The majority of municipalities implemented new lawn sprinkling hours in 2011, limiting lawn sprinkling to restricted hours in the morning three days per week. A minority of municipalities implemented the same sprinkling hours as were in place for the 2004 to 2010 period.

2012-2013: June 1 to September 30 region-wide restrictions limiting lawn sprinkling to restricted hours in the morning three days per week.

*In addition to regional restrictions, a total sprinkling ban was introduced during the summer of 1997 for approximately 10 weeks in the Corporation of Delta, City of Surrey, City of Langley and Township of Langley. This ban was implemented due to the failure of the Port Mann Main – Fraser River Crossing during the 1997 spring freshet.

Annual Peak Day Dates

Year	Date
1965	July 30, Sunday
1967	June 19, Wednesday
1968	July 31, Wednesday
1969	June 18, Wednesday
1970	July 5, Sunday
1971	July 27, Tuesday
1972	August 7, Thursday
1973	July 18, Wednesday
1974	August 29, Thursday
1975	July 7, Monday
1976	July 19, Monday
1977	August 17, Wednesday
1978	August 8, Tuesday
1979	July 31, Tuesday
1980	August 11, Monday
1981	August 10, Monday
1982	June 18, Friday
1983	May 29, Sunday
1984	July 24, Tuesday
1985	July 18, Thursday
1986	August 7, Thursday
1987	June 29, Monday
1988	July 25, Monday
1989	August 8, Tuesday

1966 Peak Day not available

Year	Date
1990	July 30, Monday
1991	July 23, Tuesday
1992	June 22, Monday
1993	August 4, Wednesday
1994	July 21, Thursday
1995	July 19, Wednesday
1996	July 25, Thursday
1997	August 17, Sunday
1998	August 13, Thursday
1999	July 28, Wednesday
2000	July 19, Wednesday
2001	July 11, Wednesday
2002	August 14, Wednesday
2003	July 30, Wednesday
2004	July 29, Thursday
2005	August 14, Sunday
2006	July 23, Sunday
2007	July 12, Thursday
2008	July 13, Sunday
2009	July 30, Thursday
2010	July 29, Thursday
2011	August 18, Thursday
2012	August 16, Thursday
2013	July 25, Thursday

Annual Peak Day Statistics

Month	Percent of Total Peak Days (%)
May	1/48 = 2.1
June	5/48 = 10.4
July	27/48 = 56.3
August	15/48 = 31.2

Day	Percent of Total Peak Days (%)
Monday	8/48 = 16.7
Tuesday	6/48 = 12.5
Wednesday	12/48 = 25.0
Thursday	14/48 = 29.2
Friday	1/48 = 2.1
Saturday	0/48 = 0.0
Sunday	7/48 = 14.6

SYSTEM AND MUNICIPAL CONSUMPTION

GREATER VANCOUVER WATER DISTRICT
CAPILANO SOURCE MONTHLY AVERAGE FLOWS
[ML/d]

	1970	1975	1980	1985	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
JANUARY	227	268	295	332	357	402	348	353	339	319	285	368	361	242	353	384	0	54	0	404	467	2	0	294	0	0	0	0
FEBRUARY	232	277	309	323	365	374	293	337	361	323	50	367	363	0	368	336	0	222	0	244	422	0	254	275	0	0	0	0
MARCH	236	268	305	341	368	364	285	346	356	314	0	243	366	0	352	480	0	154	88	48	370	0	358	216	0	0	0	0
APRIL	241	282	309	350	384	373	316	349	375	381	209	347	385	157	362	402	0	101	277	53	368	30	337	348	29	13	75	0
MAY	250	300	341	364	435	407	450	403	420	461	337	415	432	461	365	394	0	418	406	350	375	253	363	334	226	254	226	329
JUNE	377	373	336	436	435	421	485	402	404	472	442	439	468	433	267	417	348	508	481	444	464	356	389	473	223	290	364	341
JULY	418	518	382	718	600	517	386	422	477	521	557	473	515	477	424	489	449	505	614	482	538	348	487	538	513	301	425	493
AUGUST	350	418	450	500	662	553	418	450	496	456	535	554	561	490	457	440	528	400	462	507	514	199	484	488	501	319	461	493
SEPTEMBER	259	323	332	391	436	429	383	441	409	462	413	439	464	480	419	132	463	336	574	357	432	431	410	407	284	339	491	0
OCTOBER	236	282	323	359	373	391	352	365	377	311	371	380	367	368	242	0	490	202	156	330	355	0	337	231	0	0	166	0
NOVEMBER	232	286	309	350	365	353	339	336	350	287	352	366	431	332	227	0	265	0	203	290	109	0	161	0	0	0	0	0
DECEMBER	232	268	295	346	397	340	329	329	323	255	345	358	300	352	252	0	145	0	402	518	0	0	342	0	0	0	32	0

GREATER VANCOUVER WATER DISTRICT
SEYMOUR SOURCE MONTHLY AVERAGE FLOWS
[ML/d]

	1970	1975	1980	1985	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009*	2010	2011	2012	2013
JANUARY	195	259	314	368	392	417	386	471	370	386	460	401	414	468	399	419	421	524	674	84	548	628	397	453	493	749	658	502
FEBRUARY	200	255	209	359	406	438	419	465	375	375	605	396	447	659	360	387	479	429	666	300	484	603	427	429	597	754	711	483
MARCH	191	255	309	364	403	463	420	465	357	363	629	473	460	660	351	467	619	474	615	551	410	536	202	457	598	739	690	716
APRIL	195	268	314	368	421	586	399	441	395	397	484	433	450	577	351	405	622	602	526	593	434	472	438	441	598	744	608	727
MAY	223	282	346	391	446	446	512	425	481	452	418	469	474	473	372	425	646	435	508	519	481	429	487	440	573	481	519	489
JUNE	336	350	318	486	434	443	507	418	425	455	502	430	515	402	522	444	475	505	525	457	534	503	495	493	553	505	437	586
JULY	373	459	364	755	596	530	339	376	497	466	543	472	482	448	493	457	495	430	389	446	559	576	571	384	495	616	522	470
AUGUST	323	359	441	527	601	538	348	453	476	427	514	506	506	460	504	382	462	340	335	483	543	653	440	339	421	644	425	448
SEPTEMBER	218	264	327	332	375	348	365	456	369	458	437	458	344	461	433	551	404	205	469	435	305	456	461	427	429	525	495	668
OCTOBER	205	236	318	336	397	414	387	398	346	359	397	424	362	426	407	531	241	411	546	466	285	508	418	464	664	634	631	636
NOVEMBER	200	241	309	346	449	400	383	383	364	256	406	421	481	471	371	461	295	522	533	552	351	528	487	455	643	605	726	530
DECEMBER	200	236	309	359	311	385	400	381	370	326	402	411	528	402	407	459	413	643	164	499	464	320	452	458	677	489	682	524

* During 2009, Seymour source was used to provide the water needed for start up and commissioning of the Seymour - Capilano Filtration Plant (SCFP)

GREATER VANCOUVER WATER DISTRICT
COQUITLAM SOURCE MONTHLY AVERAGE FLOWS
[ML/d]

	1970	1975	1980	1985	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
JANUARY	64	64	91	91	157	182	195	152	196	236	246	257	191	341	275	200	602	448	388	550	0	395	463	262	463	243	292	449
FEBRUARY	59	68	86	105	163	146	228	139	182	243	366	246	159	386	295	292	550	381	371	476	106	404	314	293	378	242	245	464
MARCH	59	64	86	73	164	116	266	125	222	298	384	275	158	387	312	70	431	399	319	418	226	461	405	309	376	254	238	251
APRIL	64	68	86	82	165	5	277	143	180	233	300	251	180	337	340	233	444	355	316	422	217	531	224	223	364	251	274	288
MAY	68	73	100	127	141	157	261	210	224	310	267	256	246	193	328	317	477	273	356	319	266	460	220	339	283	288	358	300
JUNE	91	86	95	141	185	171	339	197	249	303	295	268	282	338	413	346	506	426	399	294	284	345	284	464	368	349	286	285
JULY	91	123	109	264	286	256	325	259	346	383	407	276	386	371	427	476	506	703	604	426	445	484	422	644	544	344	326	564
AUGUST	86	114	127	164	314	275	325	254	345	263	356	326	457	364	448	473	547	716	631	559	445	520	367	583	526	434	504	441
SEPTEMBER	73	91	95	150	276	307	278	254	285	263	251	257	556	304	349	504	387	603	117	459	567	323	296	369	428	381	308	469
OCTOBER	77	86	95	123	172	215	219	205	257	327	236	210	349	285	427	550	376	486	382	282	457	517	272	410	371	389	290	385
NOVEMBER	73	86	95	150	121	191	209	193	213	430	240	201	113	232	431	567	491	523	299	190	562	457	337	576	356	351	251	432
DECEMBER	73	86	91	155	257	191	180	187	230	336	241	195	216	274	354	566	478	383	446	0	561	637	208	538	316	451	234	431

GREATER VANCOUVER WATER DISTRICT
TOTAL SOURCE MONTHLY AVERAGE FLOWS
[ML/d]

	1970	1975	1980	1985	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009 [*]	2010	2011	2012	2013
JANUARY	486	591	700	786	907	1001	929	976	904	941	991	1026	966	1052	1027	1004	1023	1026	1062	1038	1014	1025	962	1010	957	993	949	951
FEBRUARY	491	600	605	782	934	958	941	941	919	941	1022	1009	969	1045	1023	1014	1027	1032	1036	1020	1012	1007	995	997	974	996	956	947
MARCH	486	586	700	773	935	943	971	936	935	975	1014	991	984	1047	1015	1017	1050	1027	1023	1017	1006	997	964	981	974	992	927	967
APRIL	500	618	709	800	970	963	992	932	950	1011	994	1031	1014	1071	1053	1040	1064	1058	1119	1068	1019	1032	999	1011	992	1008	957	1016
MAY	541	655	786	882	1023	1010	1222	1038	1125	1223	1022	1139	1152	1127	1065	1136	1123	1127	1271	1188	1122	1143	1070	1113	1082	1023	1103	1118
JUNE	805	809	746	1068	1054	1034	1331	1017	1079	1230	1239	1137	1265	1173	1202	1206	1327	1439	1405	1194	1282	1204	1168	1429	1144	1144	1086	1212
JULY	882	1100	855	1741	1483	1302	1050	1057	1320	1370	1508	1221	1383	1296	1343	1422	1450	1638	1607	1353	1542	1408	1480	1566	1552	1261	1272	1526
AUGUST	759	891	1023	1196	1576	1366	1090	1157	1317	1146	1406	1387	1524	1314	1410	1296	1537	1455	1428	1550	1502	1371	1290	1410	1448	1397	1390	1381
SEPTEMBER	550	677	755	877	1087	1083	1026	1151	1063	1183	1101	1153	1364	1246	1201	1186	1255	1144	1161	1250	1304	1211	1167	1202	1141	1244	1294	1137
OCTOBER	518	605	741	818	942	1019	958	968	981	997	1004	1014	1078	1080	1075	1081	1109	1099	1084	1077	1097	1024	1027	1105	1034	1023	1087	1021
NOVEMBER	505	614	714	850	934	944	931	912	927	973	996	988	1024	1035	1029	1028	1050	1045	1034	1032	1022	985	985	1031	999	956	978	962
DECEMBER	505	591	696	859	964	915	909	897	923	917	990	964	1047	1028	1013	1025	1037	1026	1013	1017	1026	957	1002	996	993	940	948	954

^{*} During 2009, Seymour source was used to provide the water needed for start up and commissioning of the Seymour - Capilano Filtration Plant (SCFP)

GREATER VANCOUVER WATER DISTRICT ANNUAL AVERAGE DAILY FLOWS

[ML/d]

MUNICIPALITY	1970	1975	1980	1985	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002 [*]	2003	2004	2005	2006	2007	2008	2009 ^{**}	2010 [†]	2011	2012 [‡]	2013
ANMORE																									0.75	0.61	0.66	0.85
BELCARRA																											0.07	0.11
BURNABY	75	76	80	101	114	110	104	102	106	111	111	107	113	113	118	119	116	119	120	115	114	107	109	113	112	104	110	116
COQUITLAM	15	25	30	46	42	43	51	49	49	49	53	54	57	58	57	54	57	60	60	56	46	55	49	51	52	50	50	53
DELTA	21	43	51	68	87	86	77	69	72	74	73	71	80	76	74	70	74	75	76	74	78	74	70	72	71	64	65	65
LANGLEY CITY			7	8	10	9	10	9	11	10	11	11	11	11	12	12	12	12	12	12	12	11	11	11	11	11	11	11
LANGLEY TOWNSHIP					2	10	13	10	12	15	12	10	14	18	13	14	17	16	16	17	15	16	15	17	15	15	15	17
MAPLE RIDGE	9	11	13	17	24	23	23	23	25	27	26	26	29	28	28	29	31	33	34	33	34	33	31	33	31	29	30	32
NEW WESTMINSTER	31	31	35	41	42	37	39	35	35	35	32	31	31	30	29	33	31	29	25	27	28	22	22	23	23	22	23	25
NORTH VAN. CITY	0	1	2	22	25	26	22	25	27	27	27	25	26	27	25	25	24	23	21	21	21	19	20	21	20	23	24	25
NORTH VAN. DIST.	35	40	46	57	62	52	46	45	47	48	49	51	55	50	49	51	54	50	50	47	48	42	46	48	46	49	50	52
PITT MEADOWS	2	3	5	7	10	9	10	9	9	9	10	8	9	9	10	10	11	12	13	11	13	9	9	10	10	9	10	9
PORT COQUITLAM	8	11	14	18	20	19	19	21	23	24	24	23	26	23	24	25	28	29	29	27	29	28	25	27	26	25	25	25
PORT MOODY	12	15	20	22	17	17	16	13	13	14	14	14	15	13	14	14	16	14	14	14	15	14	14	15	13	13	13	13
RICHMOND	41	55	63	77	92	93	91	93	97	101	101	99	108	105	105	111	110	109	109	107	114	108	101	104	100	96	103	101
SURREY	31	46	68	95	116	114	121	128	142	147	147	148	167	159	163	162	173	184	187	189	210	193	189	192	179	179	182	183
UEL	11	16	16	17	19	19	20	19	19	20	20	19	19	19	17	16	17	16	16	16	16	14	15	15	13	13	14	14
VANCOUVER	268	291	285	325	361	352	338	323	325	334	339	340	361	345	347	342	365	364	359	353	343	331	319	327	314	304	307	300
WEST VANCOUVER	20	21	21	27	24	24	23	26	26	28	25	24	26	22	21	24	22	24	20	18	19	14	14	14	11	13	13	12
CAPILANO SYSTEM	275	321	331	402	433	411	365	379	391	380	388	415	447	403	382	375	228	235	306	337	368	135	327	300	148	127	188	140
SEYMOUR SYSTEM	239	287	330	417	435	451	403	428	403	393	406	405	428	394	364	365	466	460	495	449	450	517	438	437	562	623	591	565
COQUITLAM SYSTEM	73	84	97	135	203	185	259	194	245	302	281	242	275	310	363	372	474	476	387	366	346	462	326	417	398	332	301	396
TOTAL SYSTEM	586	692	759	954	1071	1046	1026	1000	1039	1075	1075	1063	1151	1107	1108	1112	1168	1171	1188	1152	1164	1115	1091	1154	1108	1082	1080	1101

* As of 2002, System flow represents Source flow.

** During 2009, Seymour source was used to provide the water needed for start up and commissioning of the Seymour - Capilano Filtration Plant (SCFP).

† Starting in 2010 Anmore's consumption has been subtracted from Port Moody's consumption. Only Quarterly Consumption data are available.

‡ Starting in 2012 Belcarra's consumption has been subtracted from North Vancouver District. Only Monthly consumption data are available. 2012 figure represents 325 days water usage.

GREATER VANCOUVER WATER DISTRICT
PEAK WEEK AVERAGE DAILY FLOWS

[ML/d]

MUNICIPALITY	1970	1975	1980	1985	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002 [*]	2003	2004	2005	2006	2007	2008	2009 ^{**}	2010	2011	2012	2013
BURNABY	135	162	144	191	214	161	156	135	145	157	169	161	163	138	152	171	165	176	184	162	180	165	146	150	157	146	158	183
COQUITLAM	26	49	51	71	92	75	84	67	79	72	79	74	95	80	86	86	88	99	119	90	82	80	74	83	89	59	75	75
DELTA	42	80	86	130	172	146	131	95	115	123	127	105	122	104	110	114	129	134	135	124	132	114	114	120	120	83	101	112
LANGLEY CITY			11	15	15	16	14	13	15	14	16	16	15	13	14	15	15	16	16	15	17	15	14	15	15	13	13	14
LANGLEY TOWNSHIP					13	21	19	16	25	24	24	17	32	31	32	35	42	39	35	33	29	36	30	35	36	34	28	36
MAPLE RIDGE	13	19	23	36	50	36	38	31	42	40	47	47	49	38	43	47	49	59	59	56	63	56	52	60	55	42	46	54
NEW WESTMINSTER	40	37	41	73	66	50	47	44	45	48	46	56	79	47	40	45	44	55	35	39	42	43	34	37	35	30	35	42
NORTH VAN. CITY	0	1	0	38	46	36	29	30	35	36	37	33	35	34	32	32	32	31	28	29	31	25	27	29	26	27	32	30
NORTH VAN. DIST.	57	77	85	105	105	80	75	57	72	76	78	78	86	66	75	74	103	89	82	75	77	66	70	79	72	69	70	79
PITT MEADOWS	3	7	12	16	22	18	20	15	18	23	19	19	21	16	19	20	18	28	29	27	33	25	22	20	25	16	21	20
PORT COQUITLAM	15	20	22	34	38	28	27	26	33	36	39	34	34	28	33	33	39	50	40	36	43	40	38	37	45	32	33	35
PORT MOODY	15	19	27	27	26	24	20	20	19	18	21	21	21	18	21	19	25	22	20	20	23	22	21	21	23	19	18	20
RICHMOND	57	87	103	144	163	149	140	122	132	143	153	138	153	130	140	152	154	160	157	156	154	149	143	152	140	123	136	130
SURREY	46	60	108	188	193	171	193	174	229	251	279	195	256	234	236	245	259	301	293	294	326	288	279	307	276	243	252	273
UEL	15	29	25	28	30	25	25	24	25	27	26	26	25	25	22	22	24	22	23	21	21	17	20	20	18	17	18	18
VANCOUVER	451	515	448	584	618	492	466	394	422	425	465	457	471	402	441	410	481	492	473	480	468	434	418	447	418	381	382	392
WEST VANCOUVER	36	45	41	56	49	40	40	35	41	45	43	41	42	34	38	46	42	46	43	39	36	27	28	34	25	28	26	25
CAPILANO SYSTEM	430	579	555	749	799	624	558	489	538	563	625	671	612	523	495	542	564	568	677	647	592	523	529	625	573	484	566	543
SEYMOUR SYSTEM	389	514	515	772	874	622	611	528	547	518	579	536	610	560	499	572	666	767	694	619	590	681	609	543	709	753	761	735
COQUITLAM SYSTEM	101	137	162	248	382	328	358	288	416	481	499	348	617	411	567	589	621	851	789	608	693	705	654	732	636	530	554	587
TOTAL SYSTEM	920	1182	1232	1795	1958	1545	1522	1228	1494	1532	1674	1555	1621	1375	1474	1512	1609	1802	1740	1700	1741	1625	1585	1752	1644	1421	1474	1492

1. Until 1986 peak day week values used. Starting 1987 the actual municipal peak week used.

^{*}As of 2002, System Flow refers to Source Flow.

^{**}During 2009, Seymour source was used to provide the water needed for start-up and commissioning of the Seymour-Capilano Filtration Plant (SCFP)

2. Weekly data are not available for Anmore and Belcarra

GREATER VANCOUVER WATER DISTRICT
ANNUAL PEAK DAY FLOWS
[ML/d]

MUNICIPALITY	1970	1975	1980	1985	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002*	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
BURNABY	184	195		210	211	182	179	142	172	179	181	141	183	142	152	170	189	201	193	169	157	176	159	171	177	149	173	165
COQUITLAM	31	53		74	100	79	81	64	89	N/A	68	98	98	87	58	62	90	124	85	102	98	115	122	95	93	84	84	90
DELTA	45	85		135	153	168	120	107	130	138	137	92	136	73	117	135	135	155	142	130	144	133	124	144	126	88	113	116
LANGLEY CITY				16	17	12	16	14	17	16	17	15	15	14	15	16	15	17	18	16	18	18	16	17	16	13	14	15
LANGLEY TOWNSHIP					14	26	19	13	30	24	40	17	33	39	25	39	28	31	33	37	35	45	33	42	46	32	33	34
MAPLE RIDGE	20	21		40	53	42	44	34	47	51	53	52	57	43	44	52	53	67	62	63	73	63	63	69	57	41	50	55
NEW WESTMINSTER	55	68		77	81	57	69	48	51	46	37	42	41	48	40	47	41	42	47	39	42	38	34	36	37	40	39	37
NORTH VAN. CITY				45	35	41	34	33	39	39	43	36	45	39	40	39	38	41	27	37	32	28	27	36	26	27	35	33
NORTH VAN. DIST.	30			99	120	79	76	67	80	88	84	92	89	82	71	75	86	91	74	87	89	76	75	96	79	75	76	81
PITT MEADOWS	6	7		17	23	21	28	17	21	19	22	20	22	14	17	20	16	28	24	31	34	21	18	27	24	18	23	19
PORT COQUITLAM	21	23		37	40	31	32	27	40	43	39	38	39	35	34	39	41	57	52	37	51	52	47	41	47	33	34	36
PORT MOODY				29	26	21	22	15	24	24	22	24	26	19	19	21	26	25	24	21	26	25	23	25	22	18	21	18
RICHMOND	80	97		158	165	154	140	138	150	163	142	147	142	152	149	173	161	171	164	151	164	157	149	172	143	121	146	133
SURREY	63	75		228	219	183	215	193	255	282	289	204	293	291	265	276	285	361	315	315	357	324	295	353	288	253	273	285
UEL	20			29	34	26	26	26	27	31	27	24	27	29	24	29	22	26	28	24	20	19	19	23	20	19	19	19
VANCOUVER	614	555		607	623	525	486	433	469	503	532	460	489	450	451	438	493	519	489	484	489	419	430	470	449	374	405	465
WEST VANCOUVER	55	48		61	51	45	44	40	47	49	44	50	47	40	41	42	48	51	46	42	36	30	30	40	27	22	26	24
CAPILANO SYSTEM	636	718		900	889	743	625	541	663	742	708	717	704	607	439	578	685	613	663	548	613	626	529	623	583	406	522	537
SEYMOUR SYSTEM	455	486		682	706	615	622	566	567	554	564	511	543	524	552	567	529	451	389	588	595	631	602	622	637	650	449	398
COQUITLAM SYSTEM	123	143		286	405	370	394	330	466	495	556	388	599	494	533	555	632	894	828	651	679	625	604	749	583	475	690	635
TOTAL SYSTEM	1237	1380	1359	1891	2001	1729	1641	1436	1696	1790	1828	1616	1846	1625	1523	1700	1788	1956	1872	1800	1892	1817	1683	1996	1769	1499	1608	1528
RESERVOIRS**	23	32		45	25	18	41	26	-66	58	-78	-22	-53	-45	-15	2	-58	-2	-8	14	5	-65	-52	2	-34	-33	-53	-42

*As of 2002, System flow refers to Source flow. In addition only the Total System flow includes the reservoir flows. In prior years, the individual system flows included the flow from the reservoirs that were allocated to each individual system.

Please note that due to this change, the Total System flow values previously reported for 2002 and 2003 have been corrected.

** Negative numbers indicate net inflow into the peaking reservoirs.

1. Peak Day data are not available for Anmore and Belcarra.

GREATER VANCOUVER WATER DISTRICT
ANNUAL PEAK HOUR FLOWS

[ML/d]

MUNICIPALITY	1970	1975	1980	1985	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001†	2002*	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
BURNABY	283	280		338	318	303	237	217	327	348	324	267	324	196	218	295	304	353	313	280	268	250	248	285	269	220	219	256
COQUITLAM	52	79		126	151	141	134	112	153	N/A	134	197	188	153	146	161	137	190	164	185	182	176	191	182	162	111	135	127
DELTA	63	113		195	251	237	165	149	214	217	242	123	223	125	187	188	206	242	246	221	230	202	204	237	200	111	143	142
LANGLEY CITY			20	25	23	16	24	21	25	29	27	23	28	23	22	21	23	23	21	21	23	22	20	22	21	20	21	18
LANGLEY TOWNSHIP					14	38	37	23	48	37	62	34	55	57	38	58	50	36	44	58	63	62	56	72	71	44	47	45
MAPLE RIDGE	34	35	43	59	86	75	77	53	86	97	94	119	116	74	75	99	101	134	126	118	141	103	115	135	102	67	82	89
NEW WESTMINSTER	85	86		116	120	85	93	66	69	99	68	64	83	166	69	91	85	82	113	73	84	60	66	73	76	89	59	76
NORTH VAN. CITY				95	59	66	47	50	74	87	82	66	86	64	61	60	60	92	81	56	55	48	42	68	41	36	46	45
NORTH VAN. DIST.	42			150	158	120	119	101	134	161	145	122	143	114	116	119	130	132	112	132	144	115	118	152	109	105	100	113
PITT MEADOWS	10	14		25	33	32	37	24	37	42	44	34	41	27	31	33	32	46	43	42	44	32	30	48	38	24	31	25
PORT COQUITLAM	31	38		56	71	59	60	41	73	87	77	83	64	59	62	62	66	98	76	63	87	77	80	59	73	46	39	46
PORT MOODY	32	33		38	37	31	36	35	35	37	40	34	39	30	28	28	32	40	30	28	37	30	27	41	35	27	30	25
RICHMOND	110	131		217	238	232	201	201	220	293	207	229	202	223	227	263	232	247	239	224	249	212	219	243	211	154	180	166
SURREY	104	103		396	391	317	406	346	436	542	559	283	536	503	447	477	489	618	570	542	582	479	479	581	485	370	393	399
UEL	25	38		34	43	30	31	34	32	38	32	30	34	38	28	40	28	31	34	28	25	27	23	27	30	27	25	24
VANCOUVER	1031	934		923	902	812	650	669	661	823	881	709	763	662	632	661	700	860	735	720	725	591	626	733	670	499	534	596
WEST VANCOUVER	82	68		79	67	67	65	66	72	71	73	72	70	75	64	65	68	81	72	60	55	50	56	68	58	48	53	49
CAPILANO SYSTEM	793	873	755	955	1262	1142	877	837	1057	1289	1320	1191	1303	912	645	900	811	752	773	601	680	682	624	714	711	509	605	619
SEYMOUR SYSTEM	534	532	605	768	1074	896	867	809	837	990	906	732	843	923	900	850	636	679	464	620	658	657	660	689	639	652	452	401
COQUITLAM SYSTEM	157	175	195	309	610	552	619	480	695	782	877	626	929	679	860	920	766	949	881	790	723	672	815	831	689	553	771	744
TOTAL SYSTEM	2064	2112		2872	2938	2593	2350	2123	2558	3062	3063	2541	3035	2509	2356	2648	2671	2344	2962	2858	2985	2507	2563	3116	2629	1846	2044	1954
RESERVOIRS	580	532		850	683	527	518	448	738	918	874	641	870	533	476	626	618	287	868	874	956	550	508	894	730	345	455	375

*As of 2002, System flow refers to Source flow. In addition only the Total System flow includes the reservoir flows. In prior years, the individual system flows included the flow from the reservoirs that were allocated to each individual system.

Please note that due to this change, the Total System flow values previously reported for 2002 and 2003 have been corrected.

† Coquitlam System flow for 2001 reported in previous years was incorrect due to a typo and has been modified to its correct value in the current report.

1. Peak Hour data are not available for Anmore and Belcarra.

GREATER VANCOUVER WATER DISTRICT PEAK HOUR TO ANNUAL AVERAGE RATIOS

MUNICIPALITY	1970	1975	1980	1985	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
BURNABY	3.8	3.7		3.3	2.8	2.8	2.3	2.1	3.1	3.1	2.9	2.5	2.9	1.7	1.8	2.5	2.6	3.0	2.6	2.4	2.3	2.3	2.3	2.5	2.4	2.1	2.0	2.2
COQUITLAM	3.5	3.2		2.8	3.6	3.3	2.6	2.3	3.2	N/A	2.5	3.6	3.3	2.7	2.5	3.0	2.4	3.2	2.7	3.3	3.9	3.2	3.9	3.6	3.1	2.2	2.7	2.4
DELTA	3.0	2.6		2.9	2.9	2.8	2.2	2.2	3.0	2.9	3.3	1.7	2.8	1.7	2.5	2.7	2.8	3.2	3.2	3.0	2.9	2.7	2.9	3.3	2.8	1.7	2.2	2.2
LANGLEY CITY			2.7	3.0	2.4	1.8	2.5	2.2	2.4	2.8	2.6	2.1	2.6	2.1	1.9	1.8	1.9	2.0	1.8	1.8	1.9	1.9	1.8	2.0	1.9	1.8	2.0	1.6
LANGLEY TOWNSHIP					7.7	3.6	3.0	2.2	4.1	2.4	5.3	3.5	3.9	3.2	2.9	4.0	3.0	2.3	2.8	3.4	4.2	4.0	3.8	4.3	4.6	2.8	3.1	2.6
MAPLE RIDGE	3.9	3.2	3.4	3.4	3.6	3.2	3.3	2.3	3.4	3.7	3.6	4.6	4.0	2.6	2.6	3.4	3.3	4.0	3.7	3.6	4.1	3.1	3.7	4.1	3.3	2.3	2.7	2.8
NEW WESTMINSTER	2.7	2.8		2.8	2.8	2.3	2.4	1.9	1.9	2.8	2.1	2.0	2.7	5.6	2.4	2.7	2.7	2.9	4.4	2.7	3.0	2.7	3.1	3.2	3.3	4.0	2.5	3.0
NORTH VAN. CITY				4.3	2.3	2.5	2.1	2.0	2.8	3.2	3.1	2.6	3.3	2.4	2.4	2.4	2.4	4.1	3.8	2.7	2.7	2.6	2.1	3.3	2.0	1.6	1.9	1.8
NORTH VAN. DIST.	1.2			2.6	2.6	2.3	2.6	2.2	2.9	3.3	3.0	2.4	2.6	2.3	2.4	2.3	2.4	2.6	2.2	2.8	3.0	2.7	2.6	3.2	2.4	2.1	2.0	2.2
PITT MEADOWS	4.4	4.3		3.3	3.2	3.5	3.9	2.8	3.9	4.9	4.6	4.4	4.3	3.0	3.1	3.4	2.9	3.8	3.4	3.9	3.4	3.7	3.2	4.6	3.7	2.6	3.2	2.7
PORT COQUITLAM	3.8	3.5		3.1	3.6	3.1	3.1	2.0	3.2	3.7	3.2	3.6	2.5	2.5	2.6	2.4	2.4	3.4	2.6	2.4	3.1	2.8	3.1	2.2	2.8	1.9	1.6	1.8
PORT MOODY	2.6	2.1		1.8	2.2	1.8	2.2	2.8	2.8	2.7	2.8	2.5	2.6	2.3	2.0	2.0	2.0	2.8	2.2	2.0	2.5	2.1	1.9	2.7	2.5	2.0	2.3	2.0
RICHMOND	2.7	2.4		2.8	2.6	2.5	2.2	2.2	2.3	2.9	2.0	2.3	1.9	2.1	2.2	2.4	2.1	2.3	2.2	2.1	2.2	2.0	2.2	2.3	2.1	1.6	1.7	1.6
SURREY	3.3	2.2		4.2	3.4	2.8	3.4	2.7	3.1	3.7	3.8	1.9	3.2	3.2	2.7	2.9	2.8	3.4	3.0	2.9	2.8	2.5	2.5	3.0	2.7	2.1	2.2	2.2
UEL	2.2	2.4		2.0	2.2	1.6	1.5	1.8	1.7	1.9	1.6	1.6	1.8	2.0	1.6	2.4	1.7	1.9	2.1	1.7	1.6	1.9	1.5	1.8	2.2	2.1	1.8	1.8
VANCOUVER	3.8	3.2		2.8	2.5	2.3	1.9	2.1	2.0	2.5	2.6	2.1	2.1	1.9	1.8	1.9	1.9	2.4	2.1	2.0	2.1	1.8	2.0	2.2	2.1	1.6	1.7	2.0
WEST VANCOUVER	4.2	3.2		2.9	2.7	2.8	2.8	2.5	2.8	2.5	2.9	3.1	2.7	3.4	3.0	2.7	3.2	3.4	3.6	3.4	2.9	3.6	4.0	4.7	5.1	3.8	4.0	4.2
CAPILANO SYSTEM	2.9	2.7	2.3	2.4	2.9	2.8	2.4	2.2	2.7	3.4	3.4	2.9	2.9	2.3	1.7	2.4	3.6	3.2	2.5	1.8	1.9	5.0	1.9	2.4	4.8	4.0	3.2	4.4
SEYMOUR SYSTEM	2.2	1.9	1.8	1.8	2.5	2.0	2.2	1.9	2.1	2.5	2.2	1.8	2.0	2.3	2.5	2.3	1.4	1.5	0.9	1.4	1.5	1.3	1.5	1.6	1.1	1.0	0.8	0.7
COQUITLAM SYSTEM	2.2	2.1	2.0	2.3	3.0	3.0	2.4	2.5	2.8	2.6	3.1	2.6	3.4	2.2	2.4	2.5	1.6	2.0	2.3	2.2	2.1	1.5	2.5	2.0	1.7	1.7	2.6	1.9
TOTAL SYSTEM	3.5	3.1		3.0	2.7	2.5	2.3	2.1	2.5	2.8	2.8	2.4	2.6	2.3	2.1	2.4	2.3	2.0	2.5	2.5	2.6	2.2	2.4	2.7	2.4	1.7	1.9	1.8

1. Peak Hour data are not available for Anmore and Belcarra.

GREATER VANCOUVER WATER DISTRICT PEAK DAY TO ANNUAL AVERAGE RATIOS

MUNICIPALITY	1970	1975	1980	1985	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
BURNABY	2.5	2.6		2.1	1.9	1.7	1.7	1.4	1.6	1.6	1.6	1.3	1.6	1.3	1.3	1.4	1.6	1.7	1.6	1.5	1.4	1.6	1.5	1.5	1.6	1.4	1.6	1.4
COQUITLAM	2.1	2.2		1.6	2.4	1.8	1.6	1.3	1.8	N/A	1.3	1.8	1.7	1.5	1.0	1.1	1.6	2.0	1.4	1.8	2.1	2.1	2.5	1.9	1.8	1.7	1.7	1.7
DELTA	2.1	2.0		2.0	1.8	1.9	1.6	1.5	1.8	1.9	1.9	1.3	1.7	1.0	1.6	1.9	1.8	2.1	1.9	1.7	1.8	1.8	1.8	2.0	1.8	1.4	1.7	1.8
LANGLEY CITY				1.9	1.7	1.3	1.7	1.5	1.6	1.6	1.6	1.3	1.4	1.3	1.3	1.4	1.3	1.5	1.5	1.3	1.5	1.6	1.5	1.5	1.4	1.2	1.4	1.3
LANGLEY TOWNSHIP					7.3	2.5	1.5	1.2	2.6	1.6	3.4	1.8	2.3	2.2	1.9	2.7	1.7	2.0	2.1	2.2	2.3	2.9	2.2	2.5	3.0	2.1	2.2	2.0
MAPLE RIDGE	2.3	1.9		2.3	2.2	1.8	1.9	1.4	1.9	1.9	2.0	2.0	2.0	1.5	1.5	1.8	1.7	2.0	1.9	1.9	2.1	1.9	2.0	2.1	1.9	1.4	1.7	1.7
NEW WESTMINSTER	1.8	2.2		1.9	1.9	1.5	1.8	1.3	1.4	1.3	1.2	1.4	1.3	1.6	1.4	1.4	1.3	1.5	1.8	1.5	1.5	1.7	1.6	1.6	1.6	1.8	1.7	1.5
NORTH VAN. CITY				2.0	1.4	1.6	1.5	1.3	1.5	1.5	1.6	1.4	1.7	1.5	1.6	1.6	1.5	1.8	1.3	1.7	1.5	1.5	1.3	1.7	1.3	1.2	1.4	1.3
NORTH VAN. DIST.	0.8			1.7	2.0	1.5	1.6	1.5	1.7	1.8	1.7	1.8	1.6	1.6	1.4	1.5	1.6	1.8	1.5	1.8	1.9	1.8	1.6	2.0	1.7	1.5	1.5	1.6
PITT MEADOWS	2.6	2.3		2.4	2.2	2.3	2.9	2.0	2.3	2.2	2.3	2.6	2.3	1.6	1.8	2.1	1.4	2.4	1.9	2.8	2.6	2.5	1.9	2.6	2.3	1.9	2.4	2.0
PORT COQUITLAM	2.6	2.1		2.1	2.0	1.6	1.7	1.3	1.8	1.8	1.6	1.6	1.5	1.5	1.4	1.5	1.5	2.0	1.8	1.4	1.8	1.9	1.8	1.5	1.8	1.3	1.4	1.4
PORT MOODY				1.3	1.6	1.2	1.3	1.2	1.9	1.8	1.5	1.8	1.8	1.5	1.4	1.5	1.6	1.8	1.8	1.5	1.8	1.7	1.6	1.7	1.6	1.3	1.6	1.5
RICHMOND	2.0	1.8		2.0	1.8	1.7	1.5	1.5	1.5	1.6	1.4	1.5	1.3	1.5	1.4	1.6	1.5	1.6	1.5	1.4	1.4	1.5	1.5	1.6	1.4	1.3	1.4	1.3
SURREY	2.0	1.6		2.4	1.9	1.6	1.8	1.5	1.8	1.9	2.0	1.4	1.8	1.8	1.6	1.7	1.6	2.0	1.7	1.7	1.7	1.7	1.6	1.8	1.6	1.4	1.5	1.6
UEL	1.8			1.6	1.8	1.4	1.3	1.4	1.4	1.5	1.4	1.3	1.4	1.5	1.4	1.8	1.3	1.6	1.8	1.5	1.3	1.4	1.2	1.5	1.5	1.5	1.4	1.4
VANCOUVER	2.3	1.9		1.9	1.7	1.5	1.4	1.3	1.4	1.5	1.6	1.4	1.4	1.3	1.3	1.3	1.3	1.4	1.4	1.4	1.4	1.3	1.3	1.4	1.4	1.2	1.3	1.5
WEST VANCOUVER	2.8	2.2		2.3	2.1	1.9	1.9	1.6	1.8	1.7	1.8	2.1	1.8	1.8	1.9	1.7	2.2	2.1	2.3	2.4	1.9	2.2	2.2	2.7	2.4	1.7	1.9	2.1
CAPILANO SYSTEM	2.3	2.2		2.2	2.1	1.8	1.7	1.4	1.7	2.0	1.8	1.7	1.6	1.5	1.1	1.5	3.0	2.6	2.2	1.6	1.7	4.6	1.6	2.1	3.9	3.2	2.8	3.8
SEYMOUR SYSTEM	1.9	1.7		1.6	1.6	1.4	1.5	1.3	1.4	1.4	1.4	1.3	1.3	1.3	1.5	1.6	1.1	1.0	0.8	1.3	1.3	1.2	1.4	1.4	1.1	1.0	0.8	0.7
COQUITLAM SYSTEM	1.7	1.7		2.1	2.0	2.0	1.5	1.7	1.9	1.6	2.0	1.6	2.2	1.6	1.5	1.5	1.3	1.9	2.1	1.8	2.0	1.4	1.9	1.8	1.5	1.4	2.3	1.6
TOTAL SYSTEM	2.1	2.0	1.8	2.0	1.9	1.7	1.6	1.4	1.6	1.7	1.7	1.5	1.6	1.5	1.4	1.5	1.5	1.7	1.6	1.6	1.6	1.6	1.5	1.7	1.6	1.4	1.5	1.4

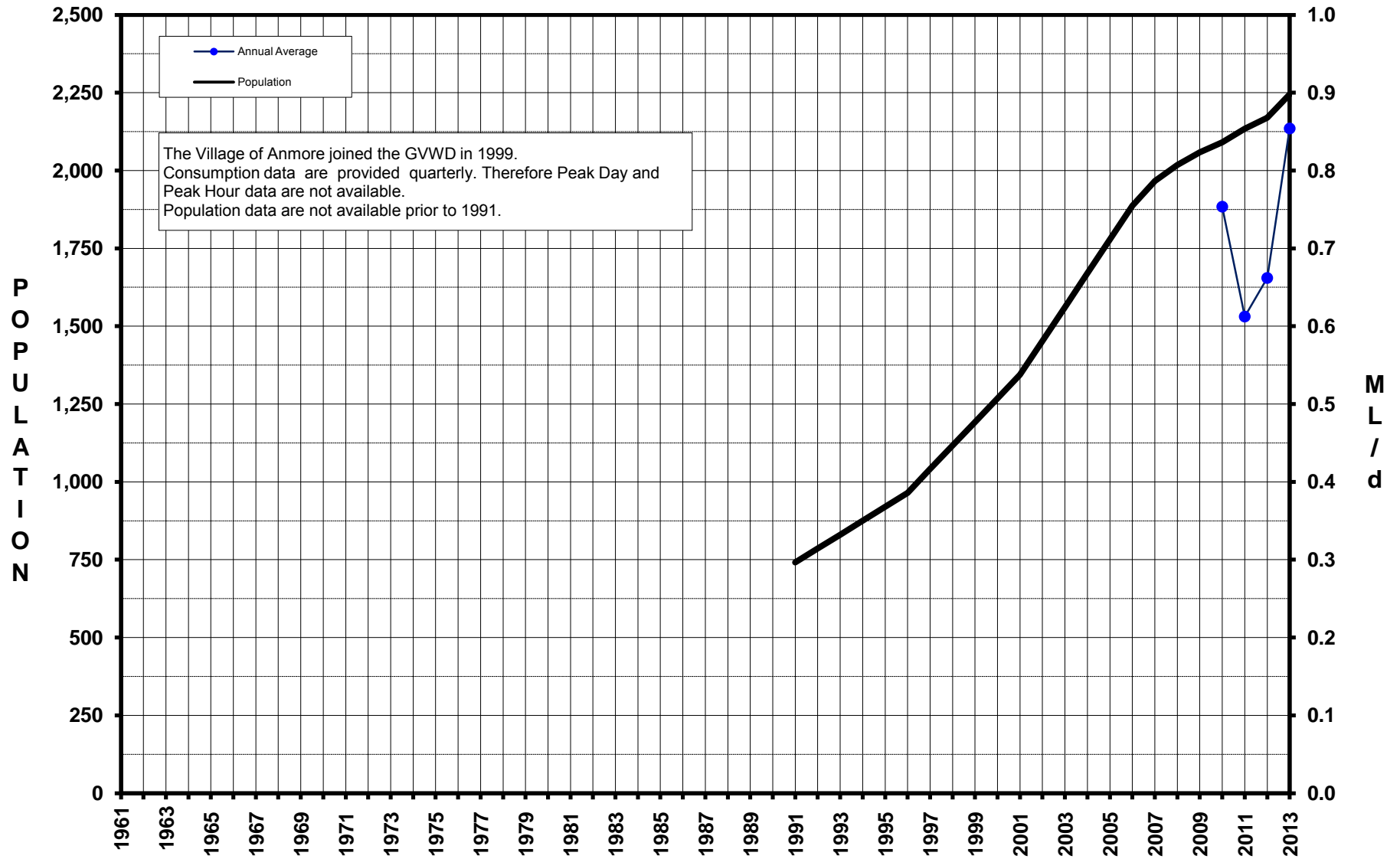
1. Peak Day data are not available for Anmore and Belcarra.

GREATER VANCOUVER WATER DISTRICT PEAK HOUR TO PEAK DAY RATIOS

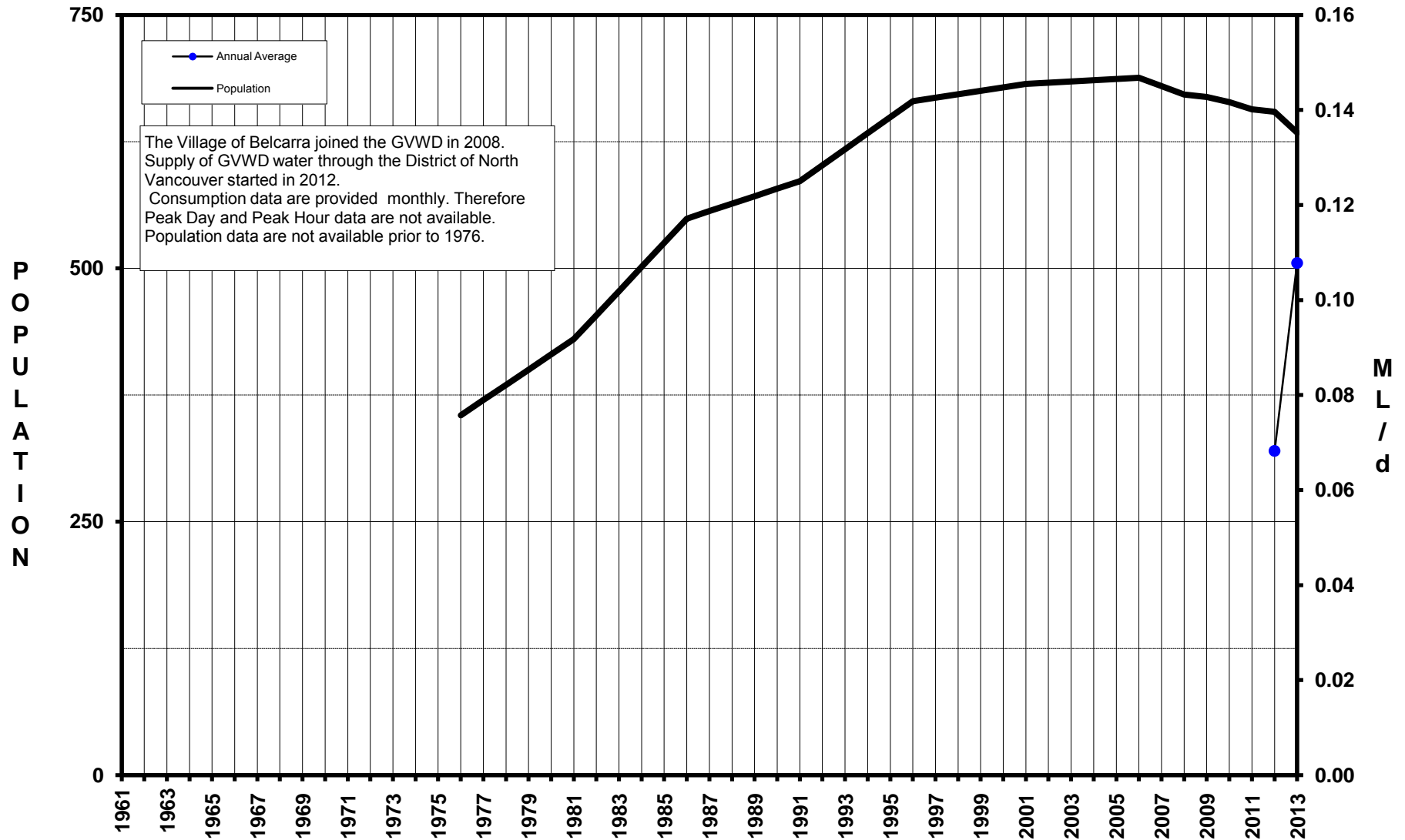
MUNICIPALITY	1970	1975	1980	1985	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
BURNABY	1.5	1.4		1.6	1.5	1.7	1.3	1.5	1.9	1.9	1.8	1.9	1.8	1.4	1.4	1.7	1.6	1.8	1.6	1.7	1.7	1.4	1.6	1.7	1.5	1.5	1.3	1.6
COQUITLAM	1.7	1.5		1.7	1.5	1.8	1.7	1.8	1.7	N/A	2.0	2.0	1.9	1.8	2.5	2.6	1.5	1.5	1.9	1.8	1.8	1.5	1.6	1.9	1.7	1.3	1.6	1.4
DELTA	1.4	1.3		1.4	1.6	1.4	1.4	1.4	1.7	1.6	1.8	1.3	1.6	1.7	1.6	1.4	1.5	1.6	1.7	1.7	1.6	1.5	1.6	1.7	1.6	1.3	1.3	1.2
LANGLEY CITY				1.6	1.4	1.3	1.5	1.5	1.5	1.8	1.6	1.5	1.9	1.6	1.5	1.3	1.5	1.3	1.2	1.3	1.3	1.2	1.3	1.3	1.3	1.5	1.4	1.2
LANGLEY TOWNSHIP					1.1	1.5	2.0	1.8	1.6	1.6	1.5	2.0	1.7	1.5	1.5	1.5	1.8	1.2	1.3	1.6	1.8	1.4	1.7	1.7	1.6	1.4	1.4	1.3
MAPLE RIDGE	1.7	1.7		1.5	1.6	1.8	1.7	1.6	1.8	1.9	1.8	2.3	2.0	1.7	1.7	1.9	1.9	2.0	2.0	1.9	1.9	1.6	1.8	2.0	1.8	1.6	1.6	1.6
NEW WESTMINSTER	1.5	1.3		1.5	1.5	1.5	1.4	1.4	1.4	2.2	1.8	1.5	2.0	3.5	1.7	1.9	2.1	2.0	2.4	1.9	2.0	1.6	2.0	2.0	2.0	2.2	1.5	2.0
NORTH VAN. CITY				2.1	1.7	1.6	1.4	1.5	1.9	2.2	1.9	1.8	1.9	1.6	1.5	1.5	1.6	2.2	3.0	1.5	1.7	1.7	1.5	1.9	1.6	1.3	1.3	1.4
NORTH VAN. DIST.	1.4			1.5	1.3	1.5	1.6	1.5	1.7	1.8	1.7	1.3	1.6	1.4	1.6	1.6	1.5	1.4	1.5	1.5	1.6	1.5	1.6	1.6	1.4	1.4	1.3	1.4
PITT MEADOWS	1.7	1.9		1.4	1.4	1.5	1.3	1.4	1.7	2.2	2.0	1.7	1.9	1.9	1.8	1.6	2.0	1.6	1.8	1.4	1.3	1.5	1.7	1.8	1.6	1.4	1.3	1.3
PORT COQUITLAM	1.5	1.7		1.5	1.8	1.9	1.9	1.5	1.8	2.0	2.0	2.2	1.6	1.7	1.8	1.6	1.6	1.7	1.5	1.7	1.7	1.5	1.7	1.5	1.6	1.4	1.2	1.3
PORT MOODY				1.3	1.4	1.4	1.7	2.3	1.5	1.5	1.9	1.4	1.5	1.6	1.5	1.4	1.2	1.6	1.3	1.3	1.4	1.2	1.2	1.6	1.5	1.5	1.5	1.4
RICHMOND	1.4	1.4		1.4	1.4	1.5	1.4	1.5	1.5	1.8	1.5	1.6	1.4	1.5	1.5	1.5	1.4	1.4	1.5	1.5	1.5	1.3	1.5	1.4	1.5	1.3	1.2	1.2
SURREY	1.7	1.4		1.7	1.8	1.7	1.9	1.8	1.7	1.9	1.9	1.4	1.8	1.7	1.7	1.7	1.7	1.7	1.8	1.7	1.6	1.5	1.6	1.6	1.7	1.5	1.4	1.4
UEL	1.2			1.2	1.2	1.1	1.2	1.3	1.2	1.2	1.2	1.3	1.3	1.3	1.2	1.4	1.3	1.2	1.2	1.1	1.3	1.4	1.2	1.2	1.5	1.5	1.3	1.3
VANCOUVER	1.7	1.7		1.5	1.4	1.5	1.3	1.5	1.4	1.6	1.7	1.5	1.6	1.5	1.4	1.5	1.4	1.7	1.5	1.5	1.5	1.4	1.5	1.6	1.5	1.3	1.3	1.3
WEST VANCOUVER	1.5	1.4		1.3	1.3	1.5	1.5	1.6	1.5	1.5	1.7	1.4	1.5	1.9	1.5	1.6	1.4	1.6	1.6	1.4	1.5	1.7	1.8	1.7	2.1	2.2	2.0	2.0
CAPILANO SYSTEM	1.2	1.2		1.1	1.4	1.5	1.4	1.5	1.6	1.7	1.9	1.7	1.8	1.5	1.5	1.6	1.2	1.2	1.2	1.1	1.1	1.1	1.2	1.1	1.2	1.3	1.2	1.2
SEYMOUR SYSTEM	1.2	1.1		1.1	1.5	1.5	1.4	1.4	1.5	1.8	1.6	1.4	1.6	1.8	1.6	1.5	1.2	1.5	1.2	1.1	1.1	1.0	1.1	1.1	1.0	1.0	1.0	1.0
COQUITLAM SYSTEM	1.3	1.2		1.1	1.5	1.5	1.6	1.5	1.5	1.6	1.6	1.6	1.6	1.4	1.6	1.7	1.2	1.1	1.1	1.2	1.1	1.1	1.3	1.1	1.2	1.2	1.1	1.2
TOTAL SYSTEM	1.7	1.5		1.5	1.5	1.5	1.4	1.5	1.5	1.7	1.7	1.6	1.6	1.5	1.5	1.6	1.5	1.2	1.6	1.6	1.6	1.4	1.5	1.6	1.5	1.2	1.3	1.3

1. Peak Hour data are not available for Anmore and Belcarra.

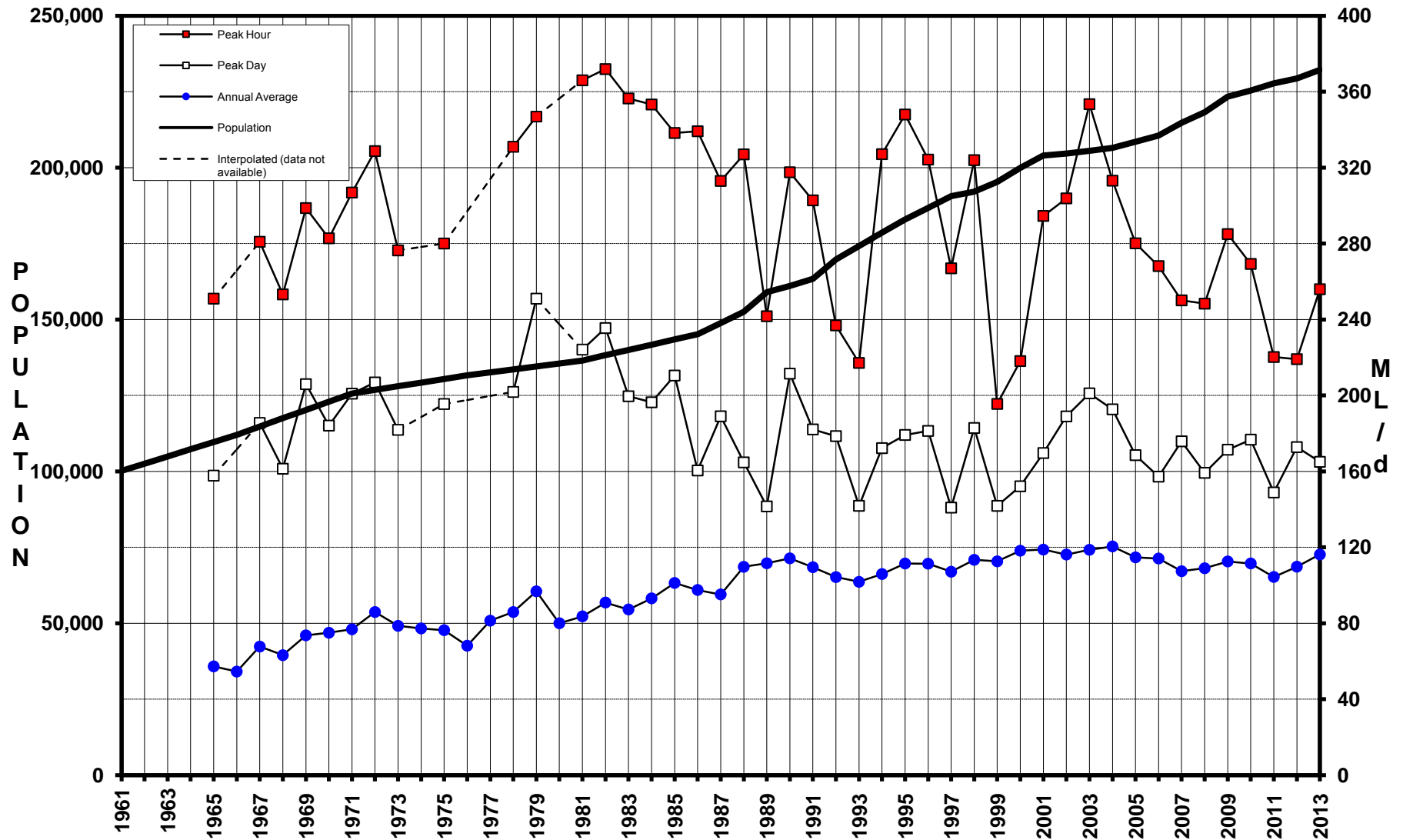
Greater Vancouver Water District Village of Anmore



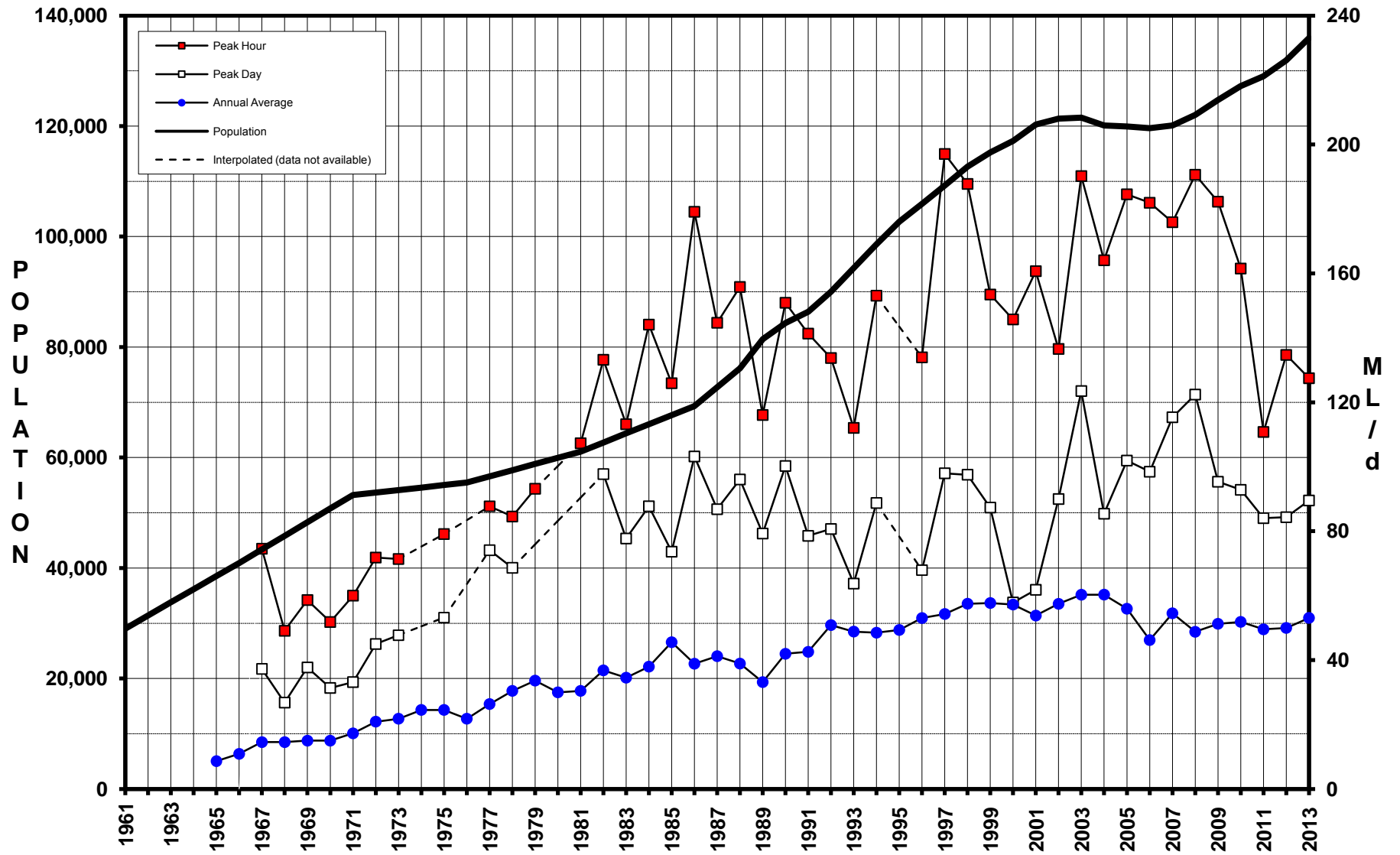
Greater Vancouver Water District Village of Belcarra



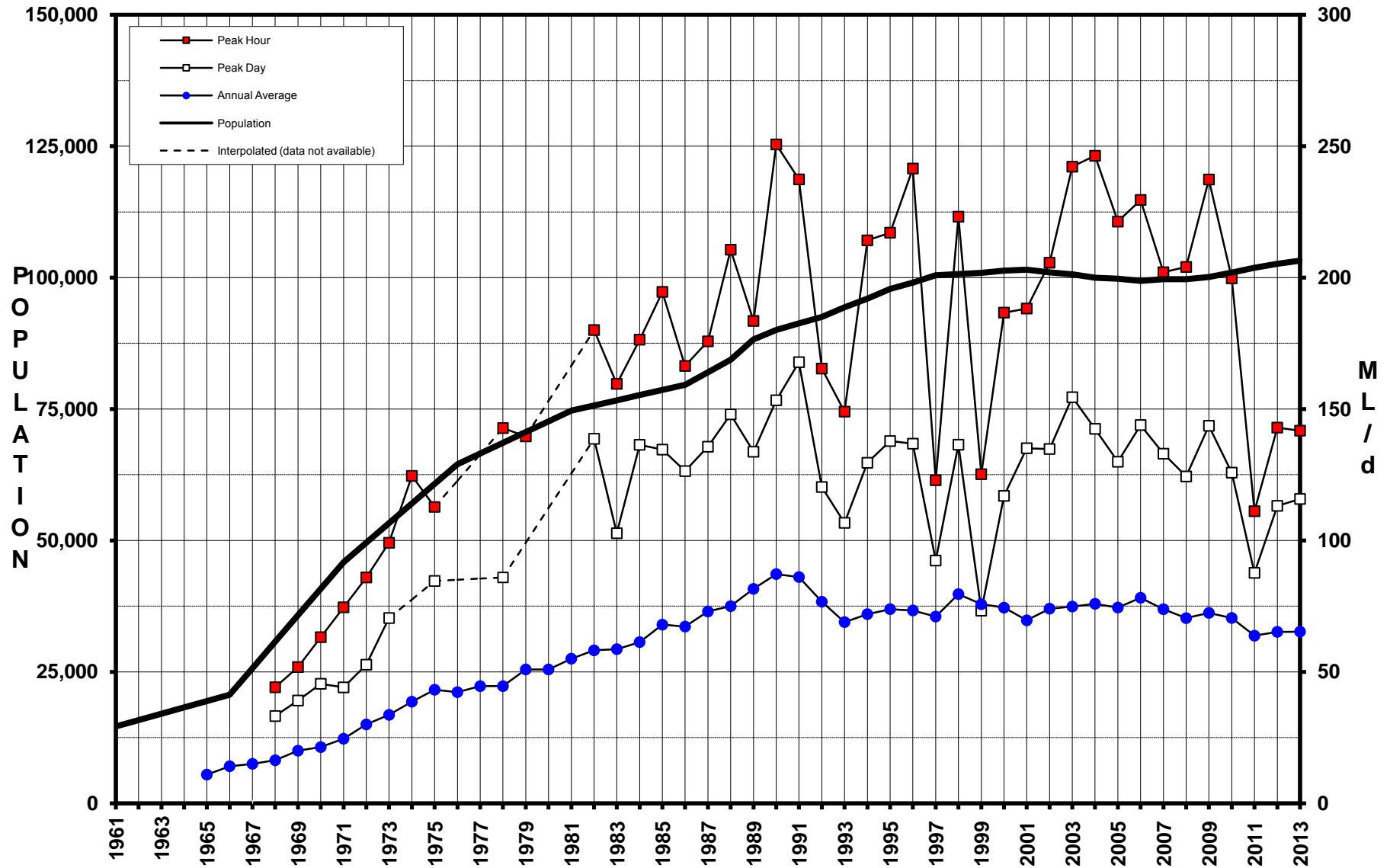
Greater Vancouver Water District City of Burnaby



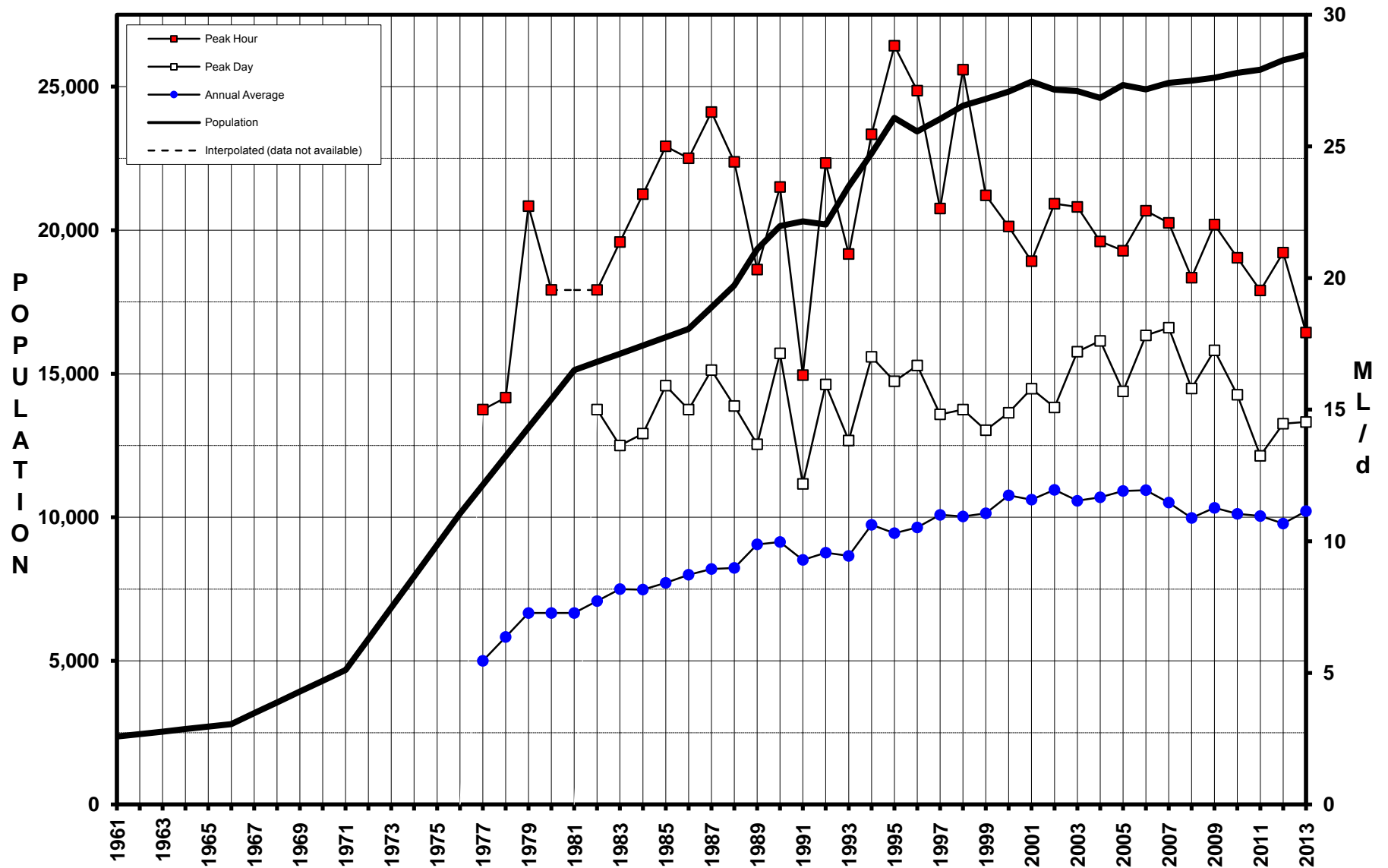
Greater Vancouver Water District City of Coquitlam



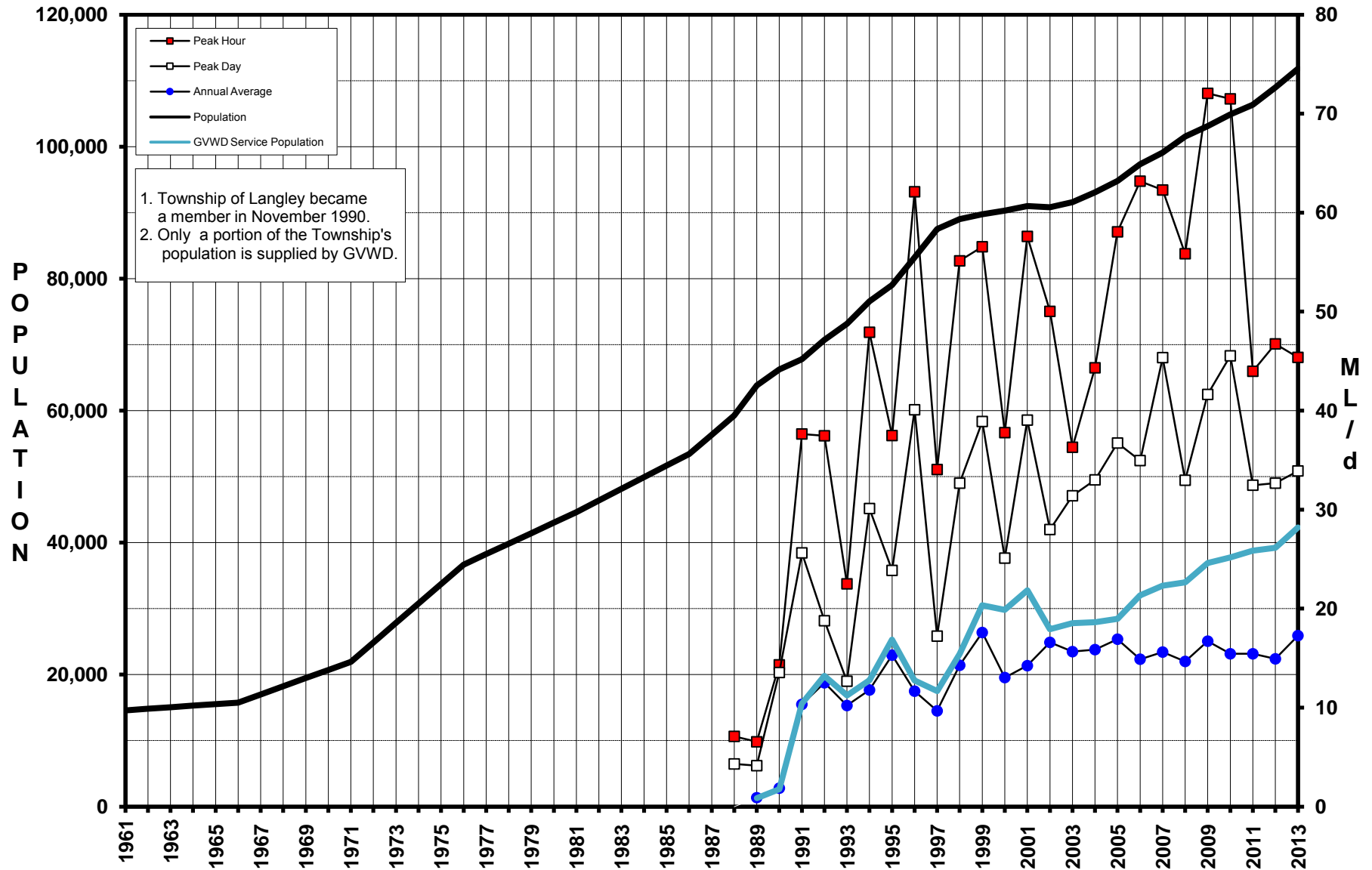
Greater Vancouver Water District Corporation of Delta



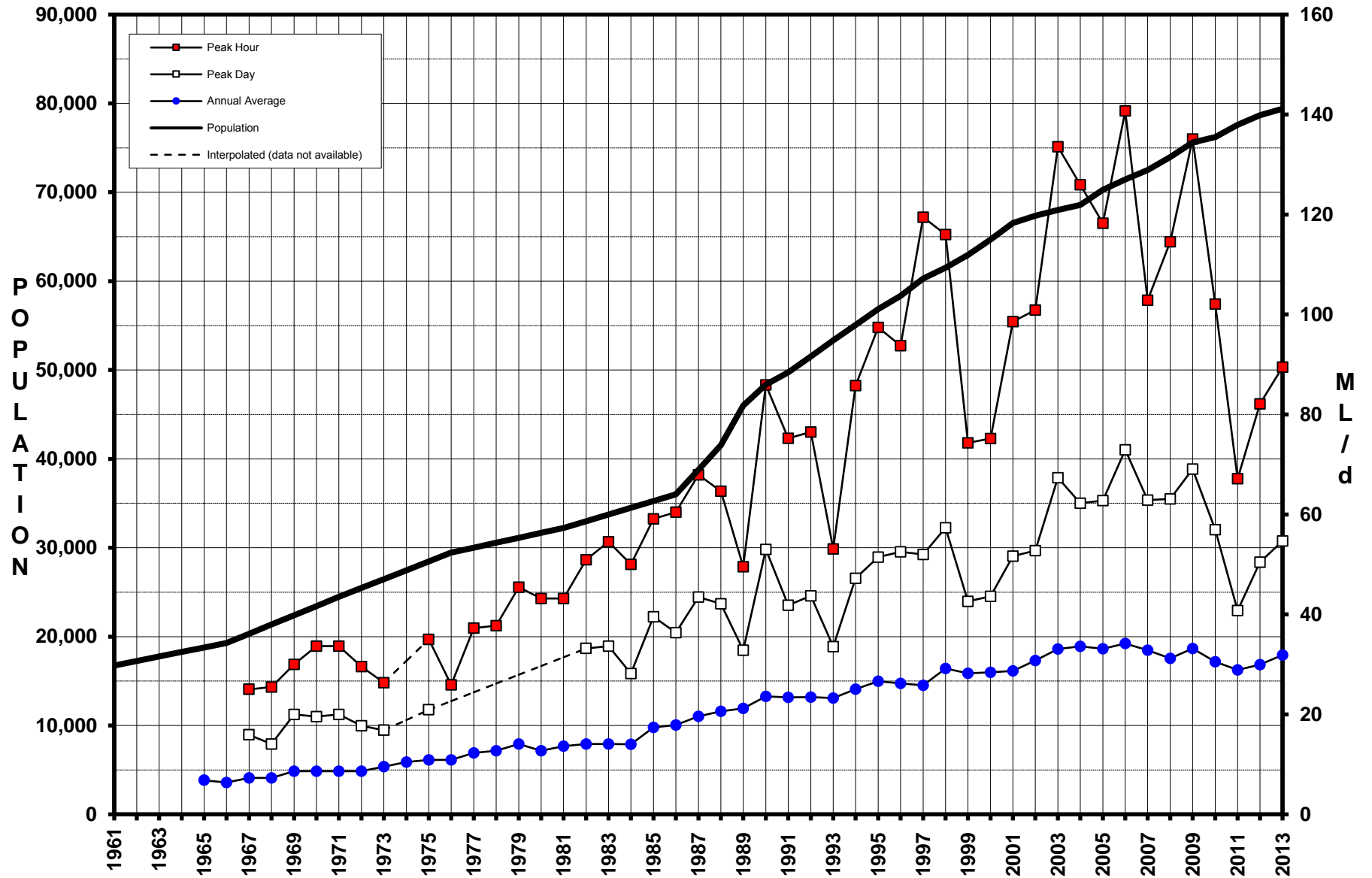
Greater Vancouver Water District City of Langley



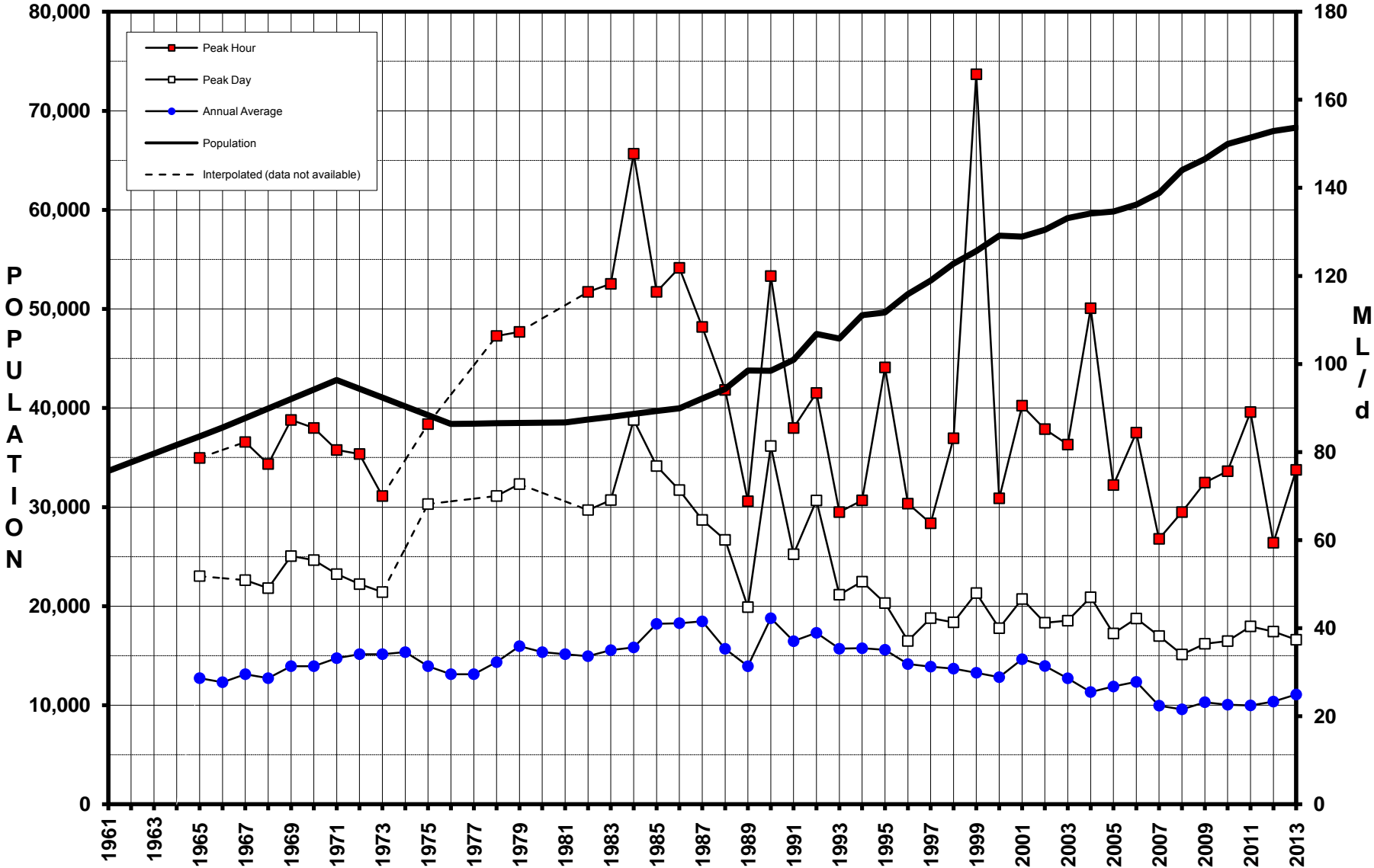
Greater Vancouver Water District Township of Langley



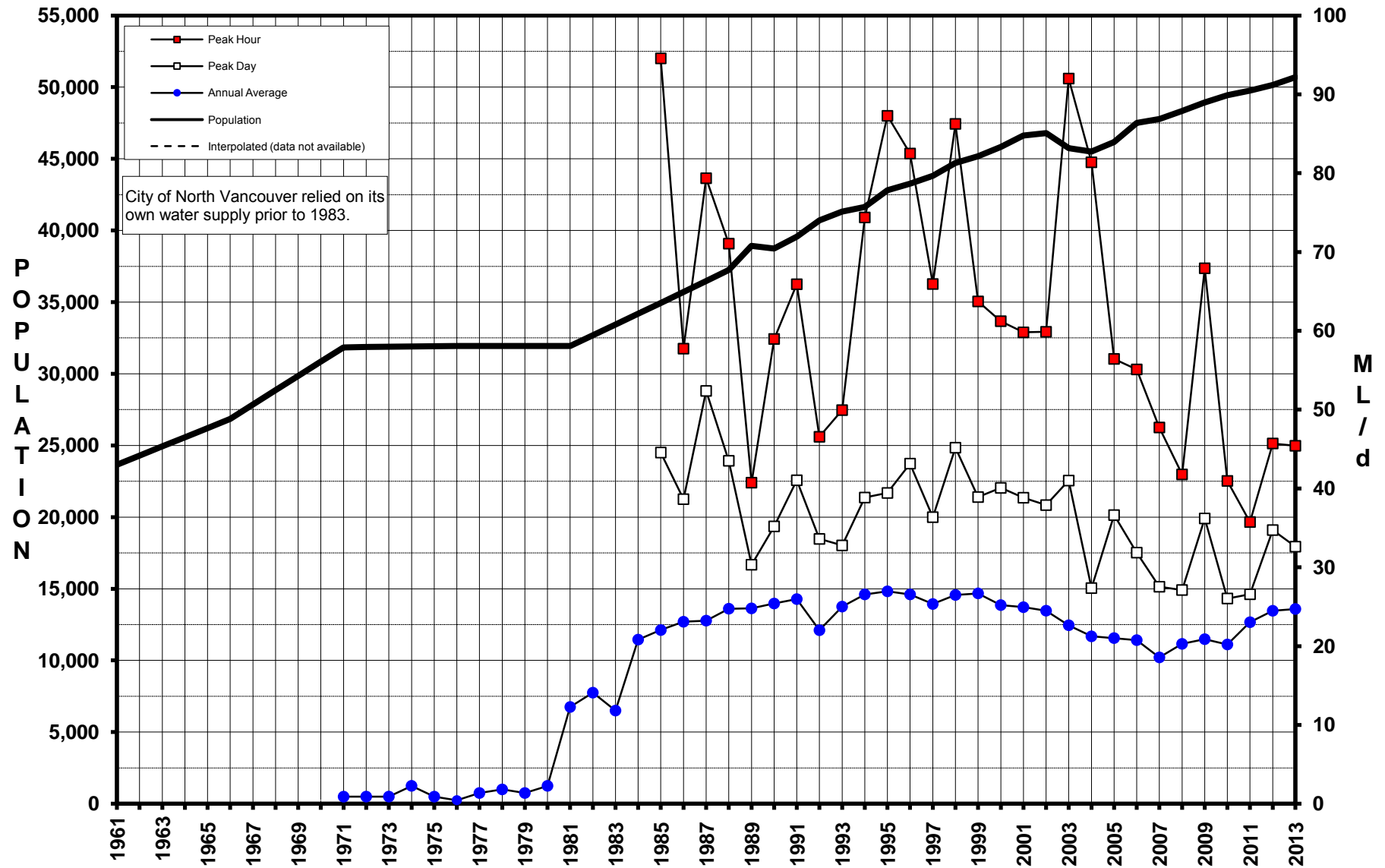
Greater Vancouver Water District City of Maple Ridge



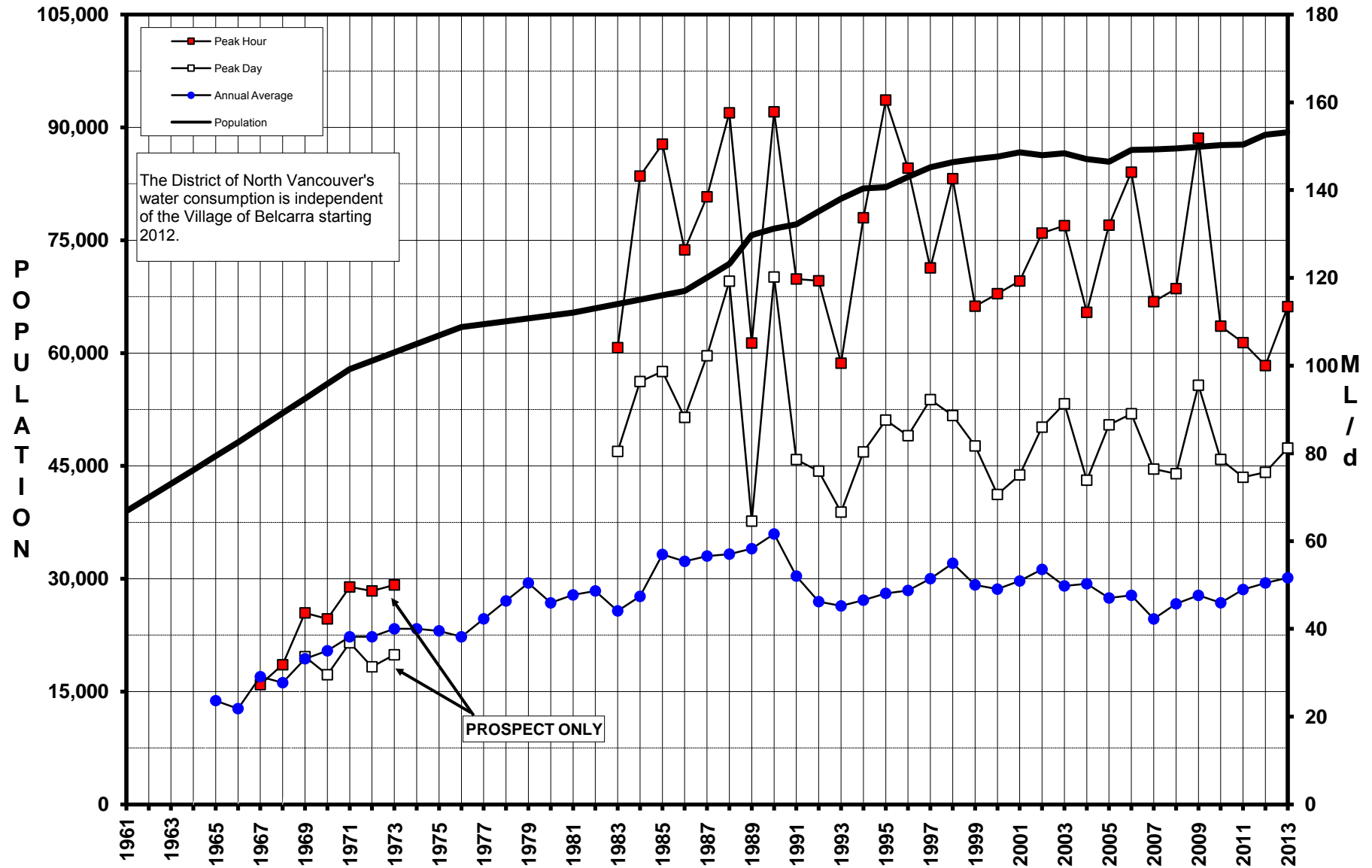
Greater Vancouver Water District City of New Westminster



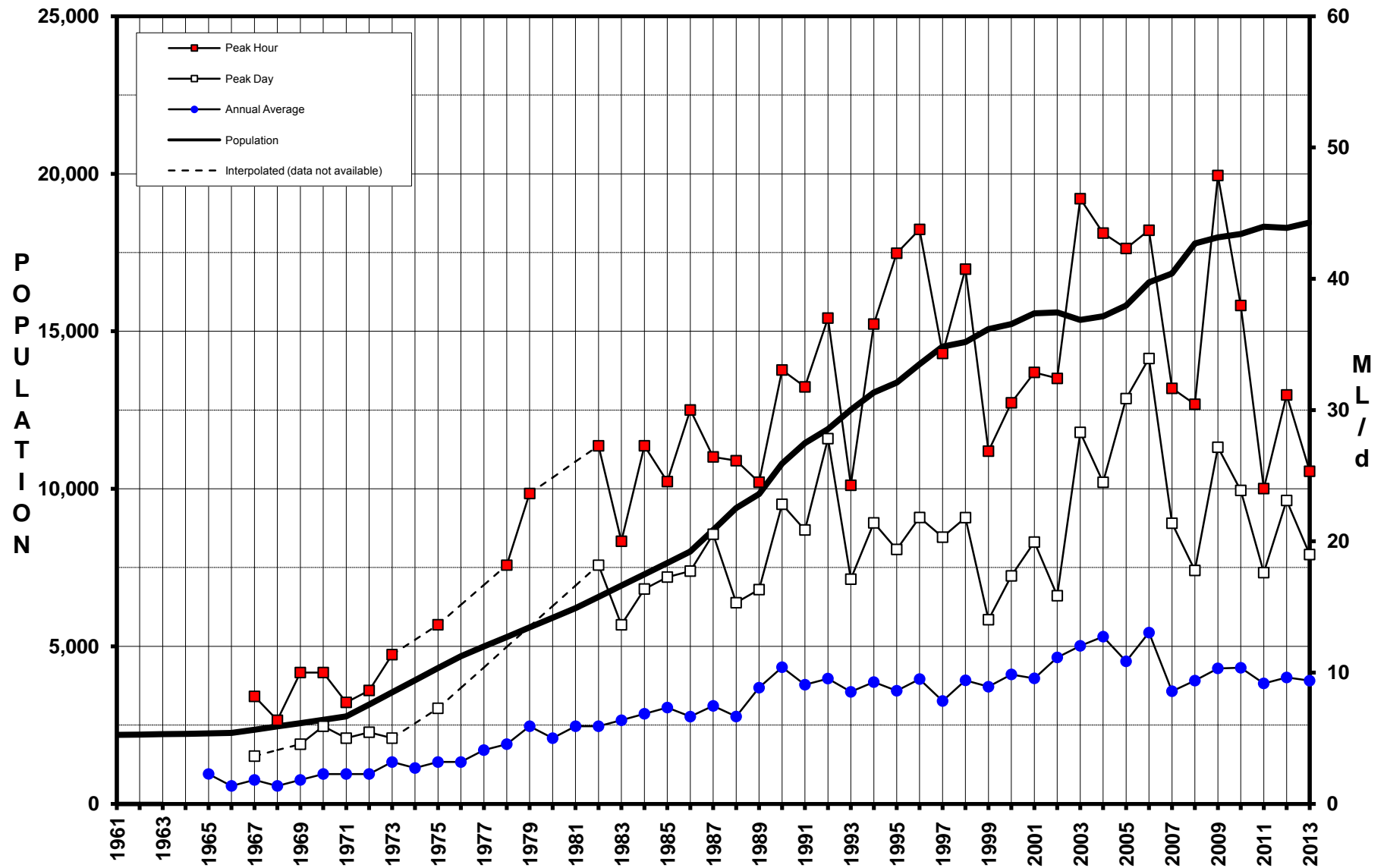
Greater Vancouver Water District City of North Vancouver



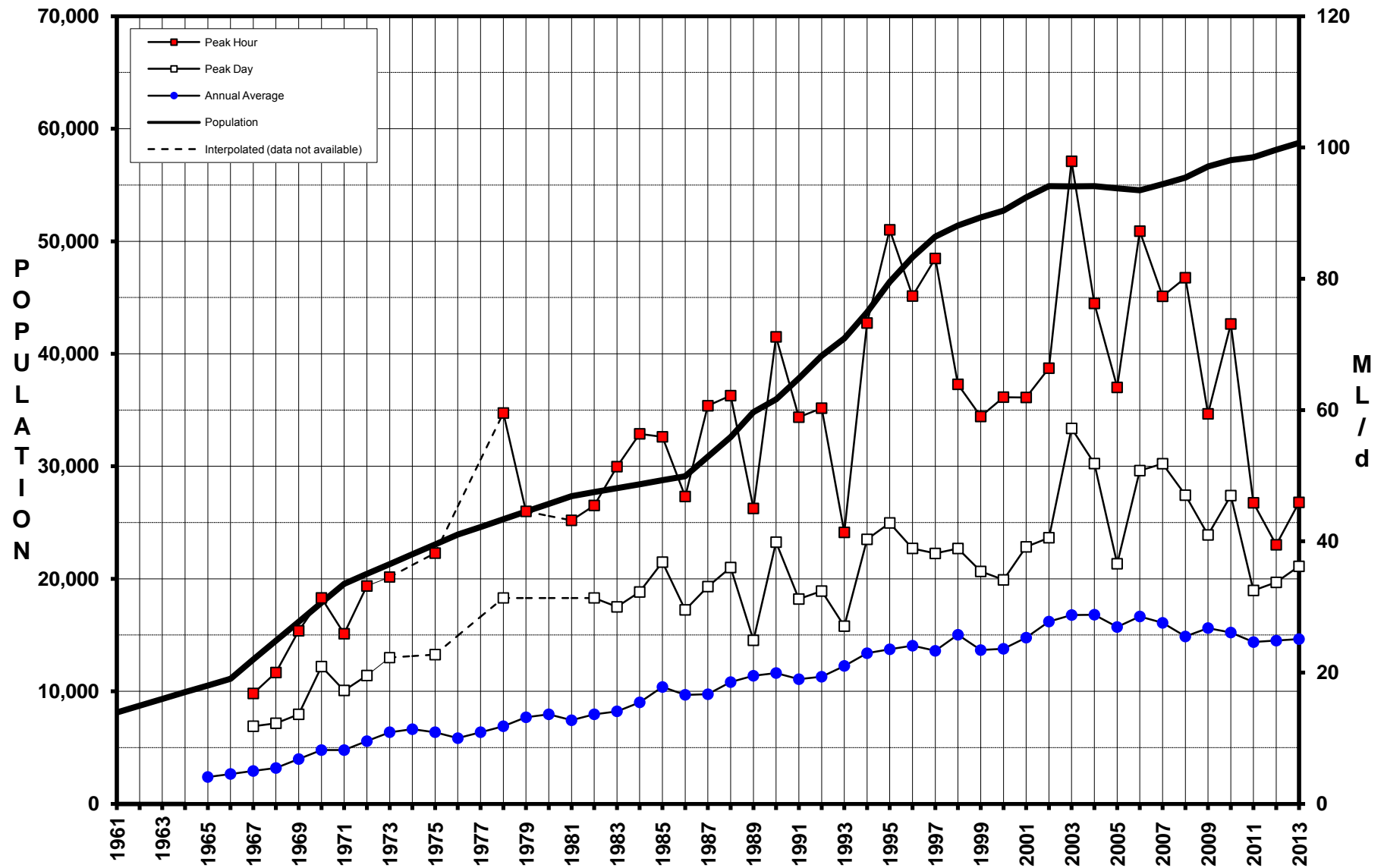
Greater Vancouver Water District District of North Vancouver



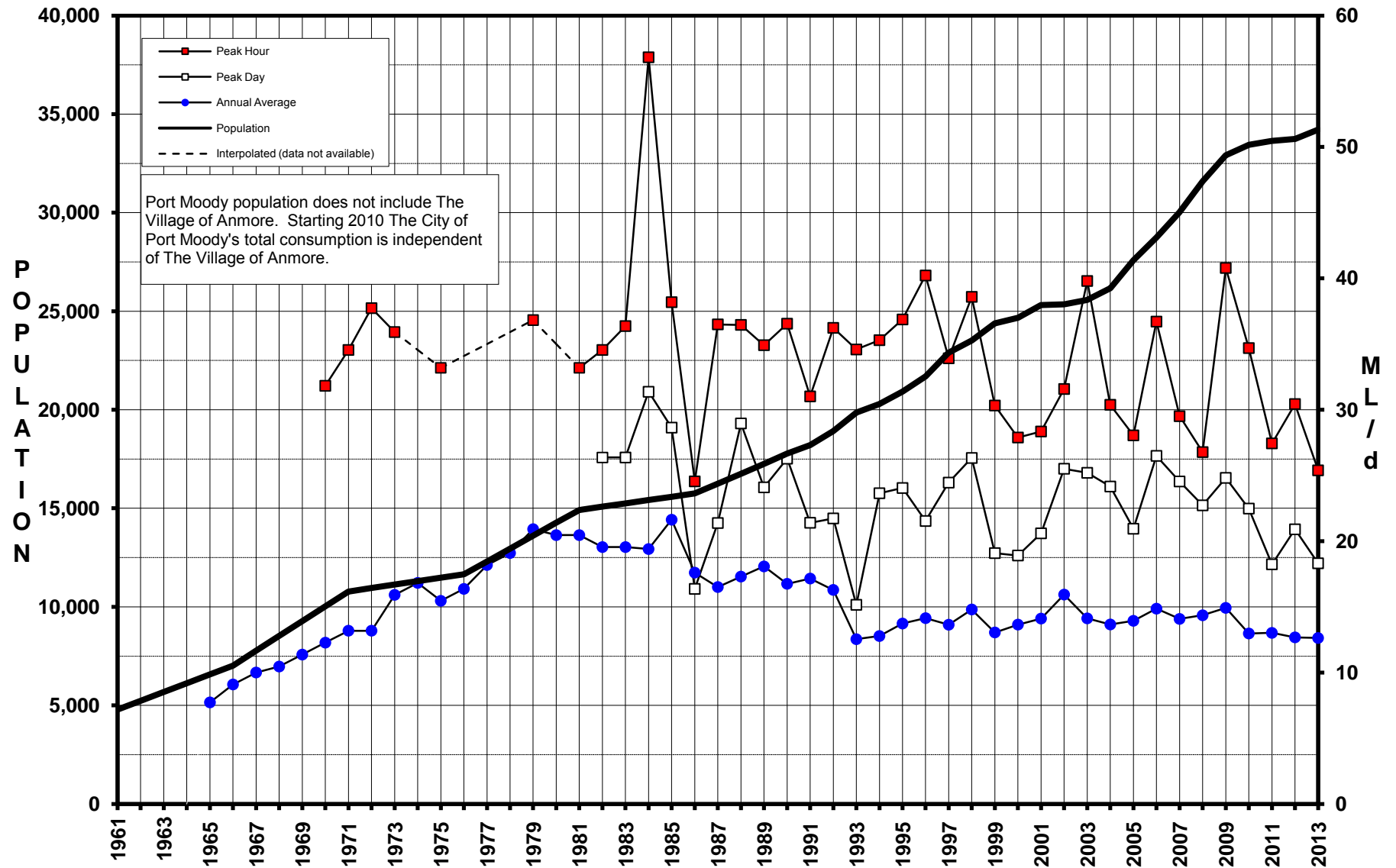
Greater Vancouver Water District District of Pitt Meadows



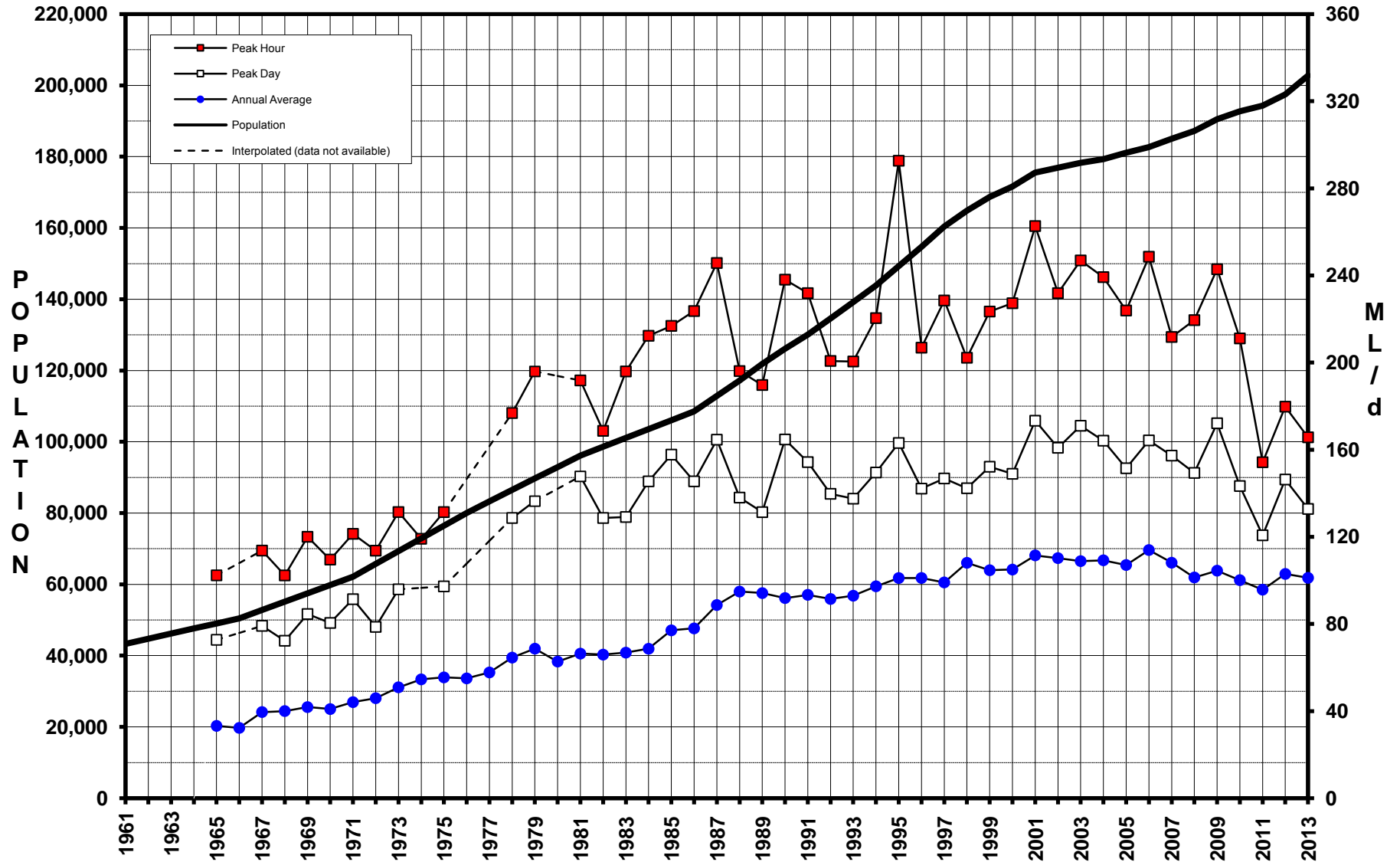
Greater Vancouver Water District City of Port Coquitlam



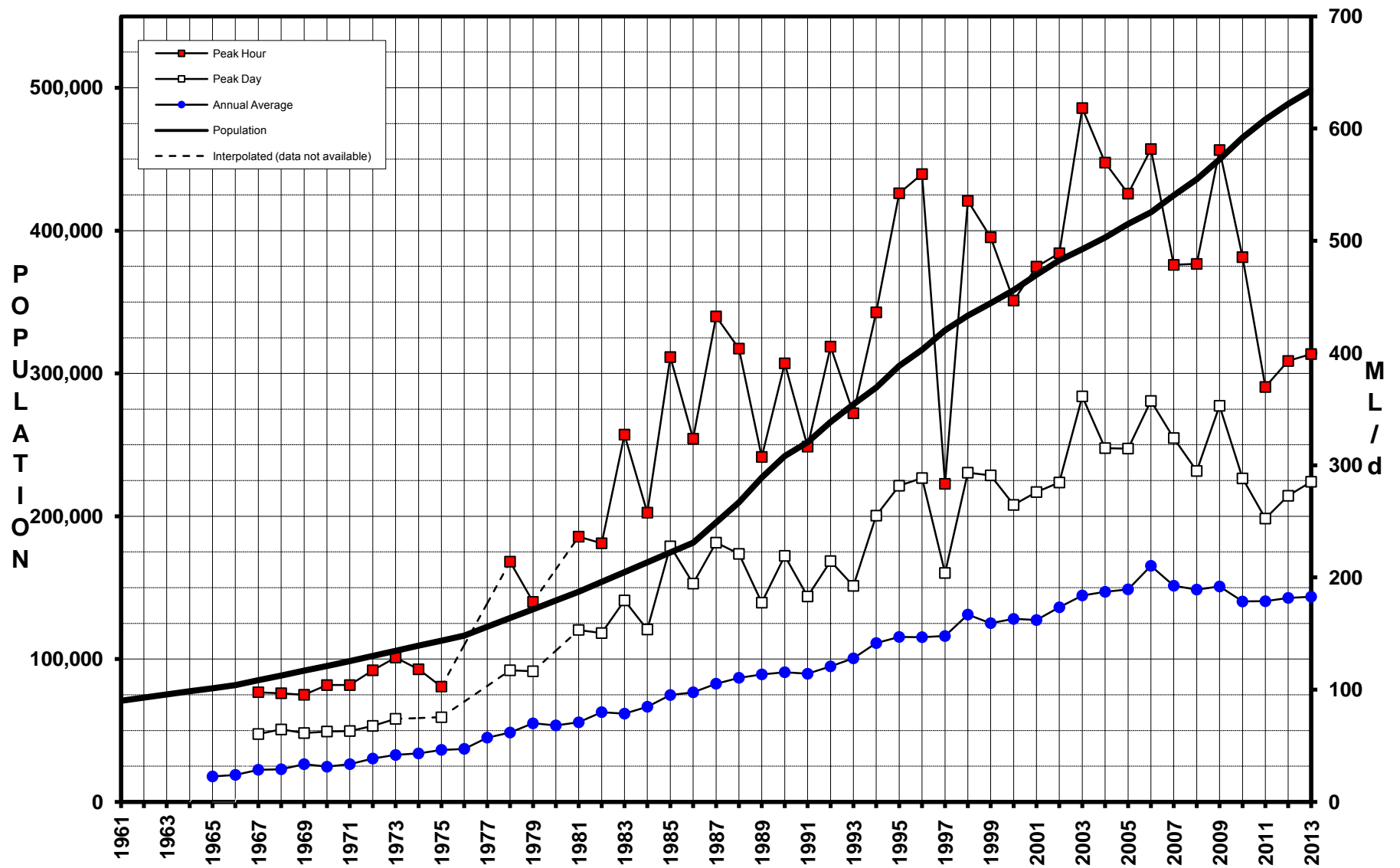
Greater Vancouver Water District City of Port Moody



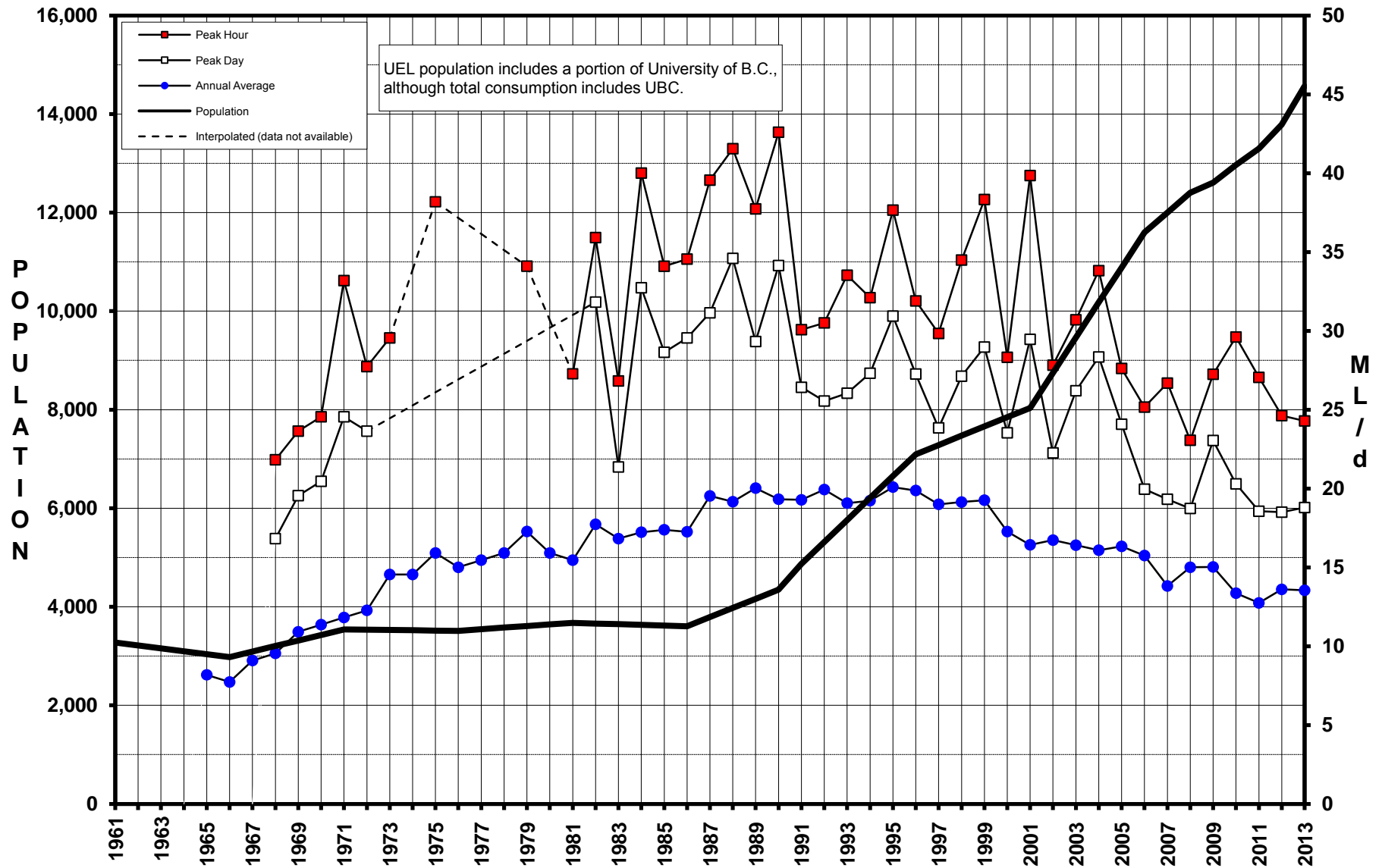
Greater Vancouver Water District City of Richmond



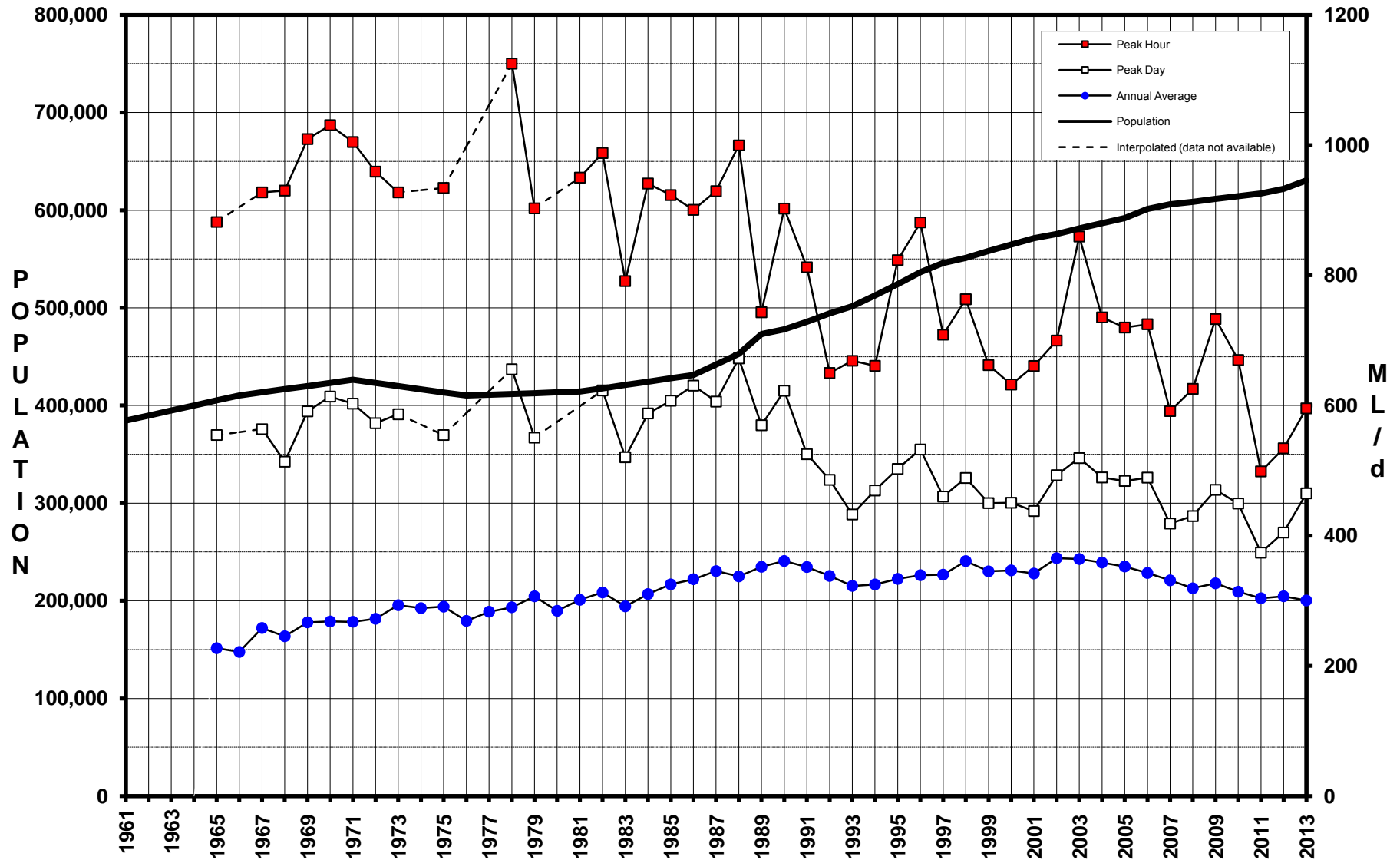
Greater Vancouver Water District City of Surrey



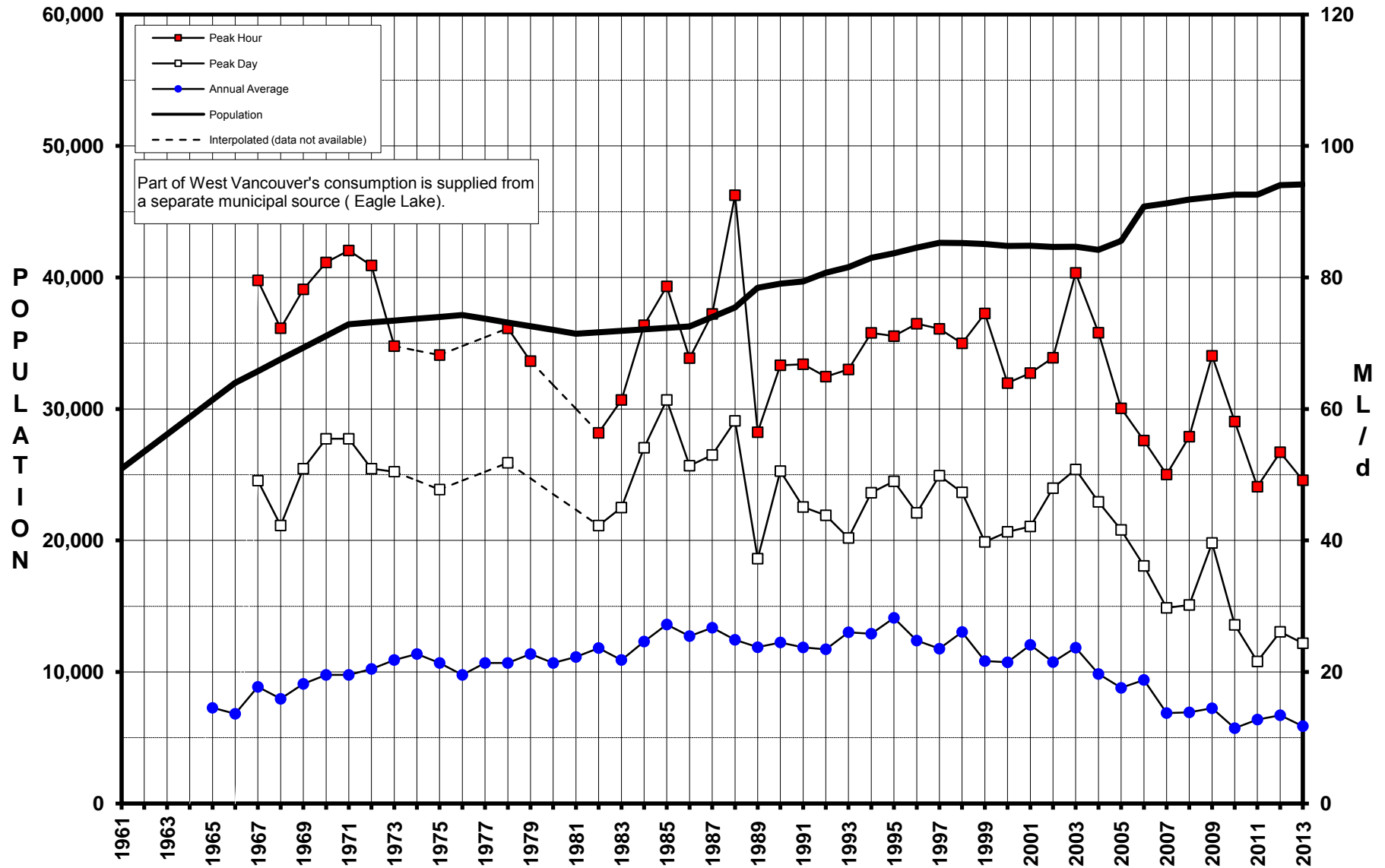
Greater Vancouver Water District University Endowment Lands



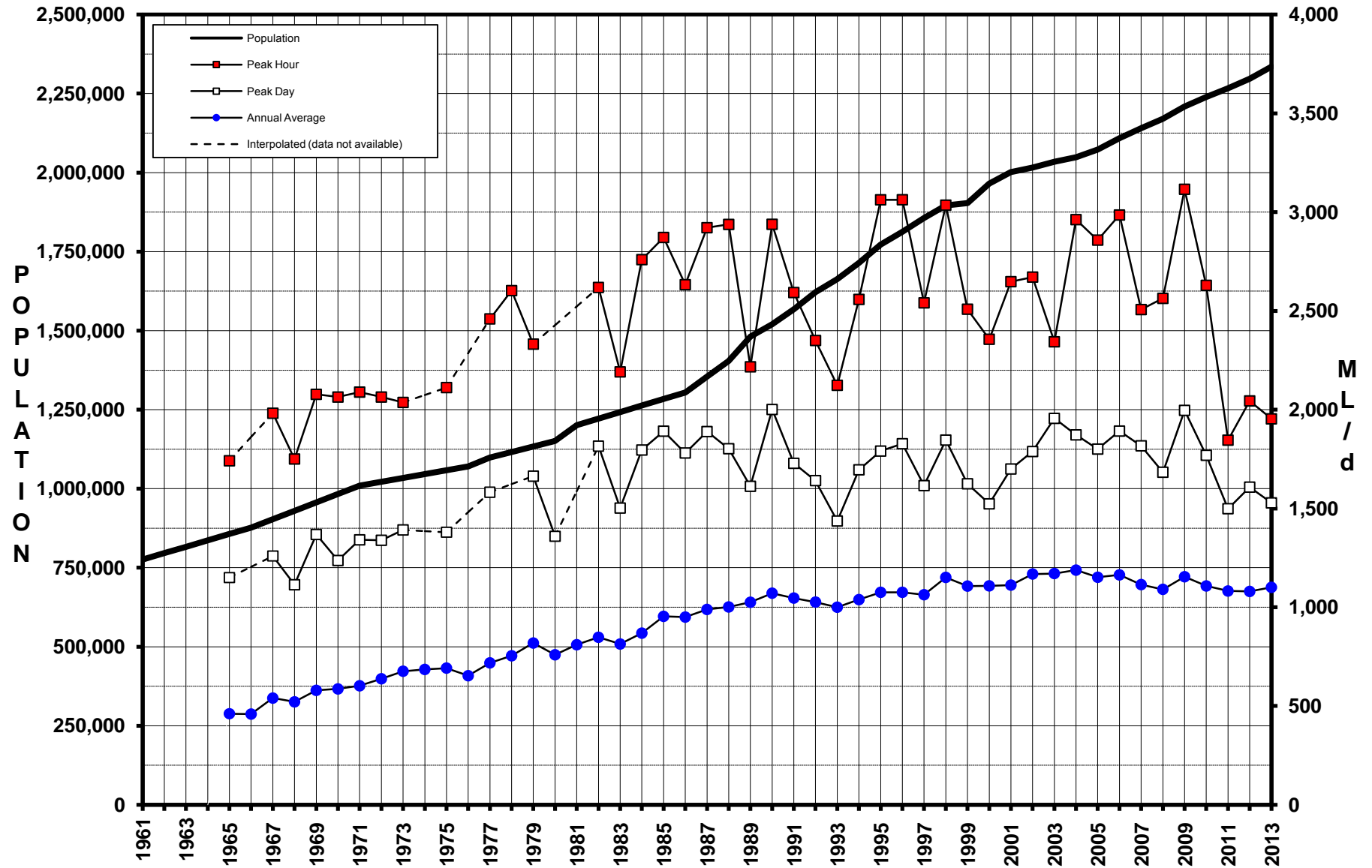
Greater Vancouver Water District City of Vancouver



Greater Vancouver Water District District of West Vancouver



Greater Vancouver Water District Whole System



PER CAPITA CONSUMPTION

GREATER VANCOUVER WATER DISTRICT
POPULATION

MUNICIPALITY	1970	1975	1980	1985	1990	1991*	1992	1993	1994	1995	1996*	1997	1998	1999	2000	2001*	2002	2003	2004	2005	2006*	2007	2008	2009	2010	2011*	2012	2013
ANMORE						741	786	831	875	920	965	1041	1117	1192	1268	1344	1453	1561	1670	1778	1887	1967	2018	2058	2090	2134	2169	2245
BELCARRA			415	525	579	586	602	618	633	649	665	668	672	675	679	682	683	684	686	687	688	680	672	669	664	657	655	634
BURNABY	122,935	130,411	135,515	143,428	161,010	163,409	169,790	174,181	178,644	182,875	186,713	190,586	192,092	195,341	199,923	203,983	204,627	205,517	206,529	208,530	210,507	214,759	218,246	223,329	225,390	227,704	229,339	232,153
COQUITLAM	50,767	55,017	59,954	67,648	84,369	86,381	90,044	94,335	98,607	102,693	105,918	109,267	112,652	115,217	117,310	120,275	121,336	121,518	120,092	119,948	119,607	120,089	121,994	124,703	127,263	128,997	131,889	135,920
DELTA	40,821	60,766	72,652	78,626	90,038	91,322	92,498	94,386	95,978	97,851	99,035	100,424	100,682	100,903	101,346	101,491	100,988	100,634	99,996	99,774	99,388	99,681	99,677	100,116	100,934	101,870	102,620	103,241
LANGLEY CITY	4,307	9,035	14,124	16,270	20,141	20,306	20,195	21,523	22,665	23,909	23,437	23,865	24,332	24,573	24,824	25,173	24,894	24,839	24,605	25,056	24,899	25,125	25,208	25,305	25,476	25,585	25,911	26,114
LANGLEY TOWNSHIP	20,702	33,714	43,025	51,671	66,245	67,776	70,730	73,170	76,564	79,037	83,193	87,513	89,009	89,738	90,306	91,016	90,814	91,599	93,101	94,821	97,335	99,096	101,550	103,114	104,894	106,337	108,972	111,802
MAPLE RIDGE	23,438	28,465	31,678	35,265	48,367	49,732	51,510	53,338	55,073	56,845	58,340	60,287	61,511	62,944	64,666	66,540	67,370	67,996	68,567	70,287	71,453	72,506	73,975	75,608	76,222	77,580	78,674	79,398
NEW WESTMINSTER	41,871	39,281	38,519	39,688	43,769	44,867	47,476	46,997	49,384	49,638	51,487	52,861	54,561	55,842	57,387	57,301	57,994	59,162	59,625	59,831	60,533	61,712	64,011	65,123	66,655	67,302	67,967	68,313
NORTH VAN. CITY	30,848	31,917	31,934	34,945	38,736	39,573	40,712	41,322	41,638	42,811	43,268	43,808	44,716	45,187	45,822	46,626	46,797	45,740	45,505	46,164	47,501	47,770	48,343	48,922	49,447	49,756	50,148	50,700
NORTH VAN. DIST.	55,914	62,349	64,988	67,666	76,533	77,127	78,850	80,509	81,886	82,032	83,419	84,710	85,380	85,794	86,120	86,691	86,312	86,563	85,805	85,445	87,004	87,086	87,187	87,416	87,641	87,720	89,025	89,360
PITT MEADOWS (3)	2,666	4,305	5,905	7,645	10,796	11,453	11,890	12,508	13,056	13,372	13,956	14,516	14,658	15,064	15,233	15,571	15,598	15,360	15,479	15,816	16,554	16,836	17,790	17,977	18,086	18,322	18,283	18,448
PORT COQUITLAM	17,872	23,053	26,661	28,761	35,957	37,803	39,823	41,360	43,679	46,403	48,590	50,410	51,411	52,106	52,714	53,910	54,908	54,876	54,891	54,714	54,543	55,064	55,662	56,643	57,211	57,474	58,138	58,731
PORT MOODY	10,027	11,475	14,263	15,587	17,779	18,213	18,910	19,854	20,297	20,919	21,689	22,899	23,518	24,387	24,666	25,308	25,350	25,577	26,161	27,584	28,747	30,017	31,601	32,910	33,448	33,638	33,735	34,208
RICHMOND	59,789	76,451	92,930	106,024	126,148	130,061	134,585	139,181	143,909	149,294	154,695	160,420	164,878	168,688	171,571	175,537	176,880	178,248	179,293	181,127	182,652	185,030	187,199	190,534	192,757	194,301	197,494	202,797
SURREY	95,246	112,918	141,010	174,585	242,056	251,916	265,939	278,404	290,139	305,267	316,656	330,179	340,494	349,184	358,326	369,041	379,329	386,953	395,244	404,647	412,847	424,717	435,825	450,014	465,071	477,773	488,722	498,127
UEL (2)	3,427	3,517	3,642	3,619	4,348	4,870	5,315	5,760	6,206	6,651	7,096	7,284	7,471	7,659	7,846	8,034	8,747	9,461	10,174	10,887	11,600	11,997	12,399	12,607	12,970	13,297	13,786	14,561
VANCOUVER	423,080	413,402	413,462	427,774	478,052	485,645	494,442	501,607	512,601	524,287	536,516	545,802	551,284	558,138	564,813	571,287	575,614	581,378	586,558	592,052	601,203	606,131	608,468	611,612	614,314	617,221	621,950	630,362
WEST VANCOUVER	35,549	37,003	36,011	36,158	39,532	39,694	40,370	40,780	41,498	41,850	42,269	42,633	42,611	42,547	42,389	42,408	42,330	42,347	42,108	42,778	45,398	45,638	45,923	46,112	46,300	46,306	47,025	47,073
WHITE ROCK	9,837	12,067	13,339	14,220	16,438	16,706	16,964	17,146	17,415	17,529	17,835	18,266	18,126	18,303	18,321	18,503	18,582	18,456	18,743	19,054	18,916	19,142	19,232	19,568	19,679	19,728	19,867	20,281
TOTAL GVRD	1,049,095	1,145,147	1,239,613	1,349,580	1,600,314	1,636,854	1,690,043	1,736,361	1,789,239	1,843,263	1,894,112	1,945,730	1,979,386	2,011,615	2,043,583	2,078,695	2,098,470	2,116,224	2,132,476	2,158,515	2,193,263	2,225,042	2,256,981	2,294,340	2,326,512	2,353,702	2,386,369	2,424,468
TOTAL GVWD (1)	983,402	1,058,414	1,151,314	1,283,690	1,520,275	1,567,825	1,622,120	1,663,024	1,714,708	1,771,905	1,812,739	1,856,851	1,895,805	1,903,574	1,964,757	2,001,942	2,015,952	2,033,969	2,048,562	2,073,086	2,109,014	2,140,286	2,170,188	2,208,582	2,239,679	2,266,404	2,296,734	2,334,680

- (1) - total population supplied by GVWD in a given year
- (2) - includes UEL and a portion of UBC population
- (3) - Denotes a boundary or status change between July 1, 2006 and June 30, 2009.
- * - census year (see " Notes - Population " for sources of census information)
- 2006-2013 municipal population estimates have been revised based on the recently released 2011 Census and include a revised estimate for the 2011 Census undercount.

GREATER VANCOUVER WATER DISTRICT
ANNUAL AVERAGE DAILY FLOWS
[Lpcd]

MUNICIPALITY	1970	1975	1980	1985	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010 [†]	2011	2012 ^{††}	2013
ANMORE																									360	287	305	380
BELCARRA																											104	170
BURNABY	610	586	590	706	709	670	614	585	593	610	597	562	590	576	591	582	568	578	583	550	542	500	499	504	495	459	479	501
COQUITLAM	296	446	500	673	497	493	565	518	492	481	501	497	510	501	488	447	474	496	502	466	386	454	400	411	408	384	379	391
DELTA	523	711	701	864	969	943	829	730	750	755	741	707	790	750	734	686	733	744	759	746	787	741	707	724	699	626	635	632
LANGLEY CITY			515	517	495	458	474	439	469	431	449	461	450	450	473	460	480	464	474	475	480	457	432	445	433	428	412	427
LANGLEY TOWNSHIP (4)					703	662	631	607	615	605	609	552	617	576	437	434	617	563	568	594	465	466	431	453	409	398	381	408
MAPLE RIDGE (2)	369	383	402	493	488	470	456	436	455	469	449	428	475	449	440	432	457	487	491	472	478	453	422	439	401	372	381	402
NEW WESTMINSTER	749	799	897	1032	966	826	820	752	718	707	619	591	565	535	503	575	542	484	428	447	459	363	337	356	339	334	343	365
NORTH VAN. CITY	15	28	71	631	656	656	541	605	638	629	614	578	592	591	550	535	523	495	467	455	437	389	420	427	409	463	488	487
NORTH VAN. DIST.	626	634	707	842	805	675	586	562	568	586	584	607	644	583	570	587	620	575	586	550	548	485	524	545	524	558	567	578
PITT MEADOWS	853	739	847	959	964	792	803	682	710	644	681	540	642	592	647	614	715	784	823	686	788	509	528	574	573	501	526	508
PORT COQUITLAM	458	473	512	619	554	502	486	508	525	507	496	462	501	449	448	470	506	524	525	492	523	501	458	473	456	429	428	427
PORT MOODY	1224	1347	1434	1388	942	942	861	632	630	656	652	596	629	535	553	557	628	552	522	505	517	469	454	453	388	387	376	369
RICHMOND	684	725	675	727	728	718	680	668	676	677	654	618	655	620	612	635	623	611	609	591	624	584	541	548	519	493	521	499
SURREY	329	411	484	546	477	453	454	460	488	482	464	448	490	456	455	439	457	476	474	468	510	454	434	427	384	374	372	367
UEL (1)	3316	4524	4369	4804	4444	3959	3750	3311	3099	3021	2801	2609	2562	2515	2201	2045	1912	1734	1581	1500	1358	1152	1210	1192	1030	958	987	930
VANCOUVER	634	704	688	760	755	724	684	644	634	636	632	623	655	618	614	598	635	626	611	596	570	547	524	534	511	492	493	477
WEST VANCOUVER (2)	550	577	593	753	619	598	581	638	622	674	586	552	612	509	506	569	508	559	468	411	414	301	302	314	247	276	285	250
TOTAL SYSTEM (3)	596	654	659	743	704	667	633	601	606	607	593	573	607	582	564	555	579	576	580	556	552	521	503	523	495	477	470	471

(1) - per capita flows are high because the calculation is (UBC + UEL Flow) / (UEL + a portion of UBC population).

(2) - although municipality has its own secondary supply source(s), total municipal population has been used to calculate per capita consumption (see Notes section).

(3) - see " Notes - Per Capita Consumption " in Notes section for population figures used to compute system per capita consumption.

(4) - As Township of Langley has its own secondary supply sources, the GVWD service population was used to compute per capita consumption (see Notes section).

† Starting in 2010 Anmore's consumption has been subtracted from Port Moody's consumption. Only Quarterly Consumption data are available.

†† Starting in 2012 Belcarra's consumption has been subtracted from North Vancouver District. Only Monthly consumption data are available. 2012 figure represents 325 days water usage.

GREATER VANCOUVER WATER DISTRICT
PEAK WEEK AVERAGE DAILY FLOWS
[Lpcd]

MUNICIPALITY	1970	1975	1980	1985	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
BURNABY	1102	1241	1063	1334	1330	988	921	777	810	860	907	847	851	707	760	839	806	859	889	778	853	769	668	674	698	643	690	788
COQUITLAM	510	892	849	1055	1088	868	934	715	806	699	745	678	843	690	736	714	729	814	991	753	684	670	609	668	699	455	565	550
DELTA	1036	1324	1189	1648	1912	1598	1415	1010	1200	1259	1283	1045	1207	1029	1083	1128	1273	1335	1354	1247	1324	1143	1145	1202	1190	818	983	1084
LANGLEY CITY			805	922	767	784	675	627	645	598	666	678	617	536	580	579	590	648	660	617	673	591	559	588	570	518	512	528
LANGLEY TOWNSHIP (4)						1371	941	950	1289	942	1229	980	1402	1009	1084	1063	1546	1398	1251	1168	896	1065	896	960	961	866	719	847
MAPLE RIDGE (2)	543	655	718	1031	1043	731	741	576	756	712	800	773	793	602	672	700	734	866	859	797	888	774	709	800	720	539	590	682
NEW WESTMINSTER	955	949	1074	1833	1506	1125	996	936	918	973	898	1063	1444	835	692	787	756	923	579	651	696	697	532	573	529	443	518	614
NORTH VAN. CITY	15	28	14	1080	1197	908	703	718	847	847	864	750	787	759	698	676	677	684	613	637	647	531	563	601	524	548	639	586
NORTH VAN. DIST.	1016	1240	1308	1559	1372	1037	951	709	875	925	941	924	1007	770	873	858	1193	1025	958	883	883	758	807	899	823	784	786	882
PITT MEADOWS	1194	1584	2002	2141	2021	1588	1721	1173	1366	1748	1390	1320	1399	1081	1227	1305	1131	1841	1845	1717	2016	1466	1239	1113	1372	885	1124	1111
PORT COQUITLAM	814	848	836	1185	1049	746	685	619	760	777	798	677	659	540	621	620	709	903	732	665	795	718	683	652	783	561	572	598
PORT MOODY	1542	1664	1912	1750	1457	1298	1058	989	915	879	983	928	883	726	868	756	992	850	777	735	804	724	652	651	675	575	532	573
RICHMOND	958	1142	1106	1355	1294	1146	1040	874	918	956	990	862	926	772	818	867	873	900	874	859	844	806	766	798	728	633	689	642
SURREY	482	535	764	1078	796	679	725	624	789	824	882	591	753	669	659	663	683	777	740	728	790	679	641	683	594	508	516	547
UEL (1)	4510	8272	6866	7663	6796	5228	4704	4114	4084	4017	3705	3613	3348	3273	2864	2768	2708	2371	2246	1959	1804	1420	1597	1570	1408	1312	1329	1251
VANCOUVER	1067	1246	1084	1365	1293	1014	943	785	823	812	868	838	855	721	780	717	836	846	806	810	779	717	688	730	681	617	614	622
WEST VANCOUVER (2)	1023	1216	1149	1559	1242	996	980	856	994	1078	1025	970	990	797	904	1089	999	1078	1023	903	794	581	611	729	535	601	552	537
TOTAL SYSTEM (3)	935	1117	1070	1399	1288	985	938	739	871	865	923	837	855	722	750	755	798	886	850	820	826	759	730	793	734	627	642	639

(1) - per capita flows are high because the calculation is (UBC + UEL Flow) / (UEL + a portion of UBC population).

(2) - although municipality has its own secondary supply source(s), total municipal population has been used to calculate per capita consumption (see Notes section).

(3) - see " Notes - Per Capita Consumption " for population figures used to compute system per capita consumption.

(4) - As Township of Langley has its own secondary supply sources, the GVWD service population was used to compute per capita consumption (see Notes section).

Peak Week data are not available for Anmore and Belcarra.

GREATER VANCOUVER WATER DISTRICT ANNUAL PEAK DAY FLOWS

[Lpcd]

MUNICIPALITY	1970	1975	1980	1985	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
BURNABY	1498	1499		1468	1313	1114	1052	814	964	980	971	739	952	726	761	832	923	979	933	808	747	819	730	768	784	654	753	711
COQUITLAM	618	967		1089	1188	909	896	676	900	N/A	641	897	866	758	494	514	742	1016	711	850	823	961	1003	765	730	652	640	659
DELTA	1114	1392		1711	1703	1838	1301	1130	1350	1408	1382	920	1355	726	1154	1331	1335	1535	1425	1302	1448	1334	1248	1435	1246	861	1103	1122
LANGLEY CITY				978	851	600	790	642	750	672	712	621	617	579	599	627	606	692	716	626	716	721	627	682	611	518	558	556
LANGLEY TOWNSHIP (4)						1644	948	753	1573	943	2095	984	1412	1275	842	1192	1041	1129	1182	1291	1092	1355	970	1128	1207	838	833	802
MAPLE RIDGE (2)	834	735		1122	1096	841	849	630	858	905	900	862	932	677	675	776	783	990	908	893	1021	867	853	914	747	526	642	689
NEW WESTMINSTER	1325	1736		1936	1859	1266	1454	1013	1024	921	720	800	758	859	697	814	711	705	789	649	697	619	532	560	556	600	577	547
NORTH VAN. CITY				1275	908	1037	825	793	933	921	997	830	1010	861	874	833	810	896	601	793	671	576	561	740	527	534	692	643
NORTH VAN. DIST.	528			1458	1571	1019	963	827	981	1068	1007	1089	1038	952	820	866	996	1055	861	1012	1023	878	864	1093	897	850	850	909
PITT MEADOWS	2217	1689		2260	2114	1822	2340	1368	1639	1449	1563	1399	1488	931	1140	1281	1016	1842	1583	1952	2049	1270	999	1511	1320	961	1264	1029
PORT COQUITLAM	1170	986		1280	1109	825	814	655	923	922	801	757	757	680	647	726	738	1042	944	669	931	941	845	723	821	566	580	616
PORT MOODY				1837	1478	1175	1149	763	1165	1149	993	1068	1120	783	767	814	1006	985	923	759	921	818	719	754	672	542	620	535
RICHMOND	1346	1273		1488	1306	1186	1038	988	1039	1092	919	915	863	902	868	987	910	959	916	836	899	850	798	904	744	621	741	655
SURREY	659	668		1305	906	727	807	692	879	923	911	618	862	833	739	748	750	934	798	778	865	763	677	784	620	529	558	573
UEL (1)	5969			7914	7852	5425	4807	4521	4401	4651	3842	3274	3630	3783	2999	3667	2545	2769	2786	2212	1721	1611	1511	1828	1565	1396	1342	1291
VANCOUVER	1451	1342		1420	1302	1081	982	862	916	959	992	843	886	806	798	766	856	893	835	818	814	691	707	769	732	606	651	738
WEST VANCOUVER (2)	1560	1290		1697	1279	1136	1086	990	1139	1171	1046	1169	1110	935	975	993	1133	1200	1089	973	796	652	657	859	587	466	555	518
TOTAL SYSTEM (3)	1257	1304	1181	1473	1316	1102	1012	864	989	1010	1008	870	974	854	775	849	887	962	914	869	897	849	776	904	790	661	700	655

(1) - per capita flows are high because the calculation is (UBC + UEL Flow) / (UEL + a portion of UBC population).

(2) - although municipality has its own secondary supply source(s), total municipal population has been used to calculate per capita consumption (see Notes section).

(3) - see " Notes - Per Capita Consumption " for population figures used to compute system per capita consumption.

(4) - As Township of Langley has its own secondary supply sources, the GVWD service population was used to compute per capita consumption (see Notes section).

Peak Day data are not available for Anmore and Belcarra.

GREATER VANCOUVER WATER DISTRICT ANNUAL PEAK HOUR FLOWS

[Lpcd]

MUNICIPALITY	1970	1975	1980	1985	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
BURNABY	2300	2147		2358	1972	1853	1395	1247	1831	1903	1736	1401	1686	1001	1091	1444	1485	1720	1516	1343	1274	1164	1138	1276	1195	967	955	1102
COQUITLAM	1021	1438		1861	1788	1636	1485	1188	1552	N/A	1265	1804	1667	1332	1242	1336	1125	1565	1366	1539	1521	1465	1562	1461	1269	859	1021	938
DELTA	1548	1855		2475	2784	2599	1788	1579	2231	2219	2439	1224	2217	1241	1842	1855	2037	2407	2464	2218	2310	2027	2047	2371	1979	1091	1393	1373
LANGLEY CITY			1384	1537	1165	803	1207	972	1123	1205	1157	949	1147	942	885	820	917	914	869	840	906	879	794	871	815	763	809	687
LANGLEY TOWNSHIP (4)						2415	1891	1337	2503	1482	3246	1945	2382	1854	1268	1758	1861	1306	1587	2041	1974	1860	1643	1951	1894	1134	1192	1073
MAPLE RIDGE (2)	1435	1230	1363	1676	1776	1513	1485	995	1557	1714	1607	1981	1886	1180	1163	1481	1497	1964	1837	1683	1969	1418	1549	1787	1339	865	1044	1127
NEW WESTMINSTER	2041	2199		2932	2741	1905	1968	1412	1398	1999	1326	1207	1524	2969	1211	1580	1469	1381	1890	1212	1395	977	1037	1122	1135	1324	874	1112
NORTH VAN. CITY				2706	1522	1665	1143	1208	1786	2039	1907	1505	1929	1410	1336	1283	1279	2011	1788	1222	1160	999	864	1389	828	718	911	896
NORTH VAN. DIST.	756			2224	2062	1553	1513	1249	1633	1957	1738	1443	1670	1323	1352	1376	1509	1524	1307	1545	1656	1316	1348	1737	1244	1200	1123	1270
PITT MEADOWS	3751	3168		3211	3061	2773	3112	1940	2800	3137	3136	2364	2779	1784	2005	2111	2078	3001	2809	2675	2640	1880	1711	2663	2099	1311	1704	1373
PORT COQUITLAM	1755	1657		1944	1979	1558	1514	1000	1677	1885	1592	1648	1243	1133	1175	1149	1209	1784	1389	1160	1600	1404	1440	1049	1278	798	679	782
PORT MOODY	3174	2892		2450	2056	1703	1916	1742	1739	1763	1854	1481	1641	1243	1131	1120	1246	1556	1161	1017	1277	983	847	1239	1037	816	902	742
RICHMOND	1832	1719		2045	1887	1783	1492	1441	1532	1960	1337	1424	1226	1325	1325	1496	1311	1385	1334	1236	1361	1144	1173	1275	1095	794	910	817
SURREY	1093	910		2271	1615	1257	1526	1244	1504	1777	1767	858	1573	1441	1247	1293	1289	1598	1441	1340	1409	1127	1100	1291	1044	774	804	801
UEL (1)	7163	10857		9422	9796	6175	5739	5820	5173	5662	4495	4096	4616	5005	3610	4960	3181	3245	3324	2536	2169	2224	1860	2161	2283	2034	1786	1668
VANCOUVER	2436	2260		2158	1888	1673	1314	1333	1289	1570	1642	1298	1384	1186	1119	1156	1216	1479	1254	1216	1206	976	1028	1198	1090	808	859	945
WEST VANCOUVER (2)	2315	1843		2175	1686	1683	1608	1619	1725	1698	1726	1693	1642	1752	1508	1544	1601	1906	1700	1405	1216	1096	1215	1477	1255	1040	1136	1044
TOTAL SYSTEM (3)	2099	1995		2237	1933	1654	1449	1277	1492	1728	1690	1368	1601	1318	1199	1323	1325	1152	1446	1379	1415	1171	1181	1411	1174	814	890	837

(1) - per capita flows are high because the calculation is (UBC + UEL Flow) / (UEL + a portion of UBC population).

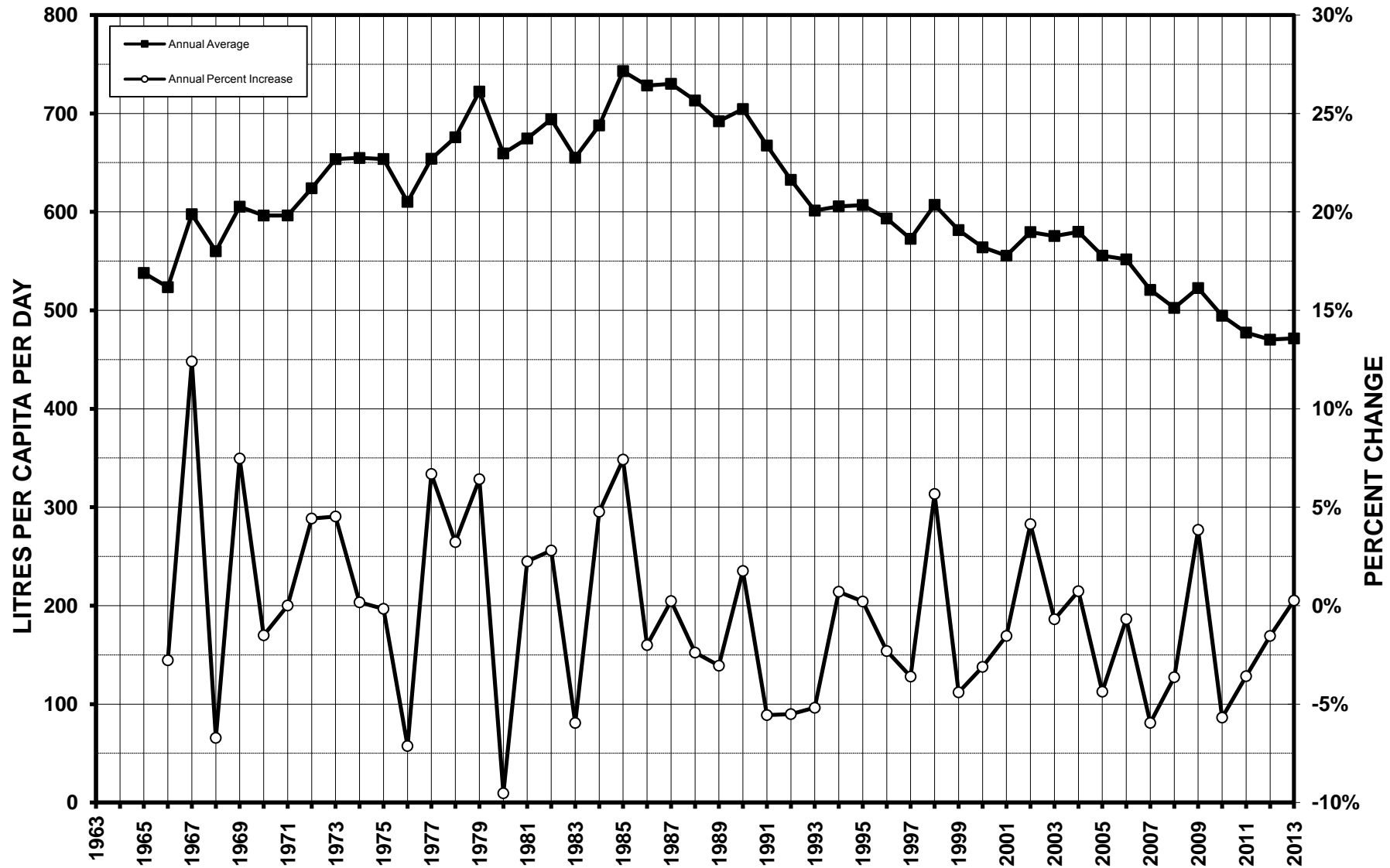
(2) - although municipality has its own secondary supply source(s), total municipal population has been used to calculate per capita consumption (see Notes section).

(3) - see " Notes - Per Capita Consumption " for population figures used to compute system per capita consumption.

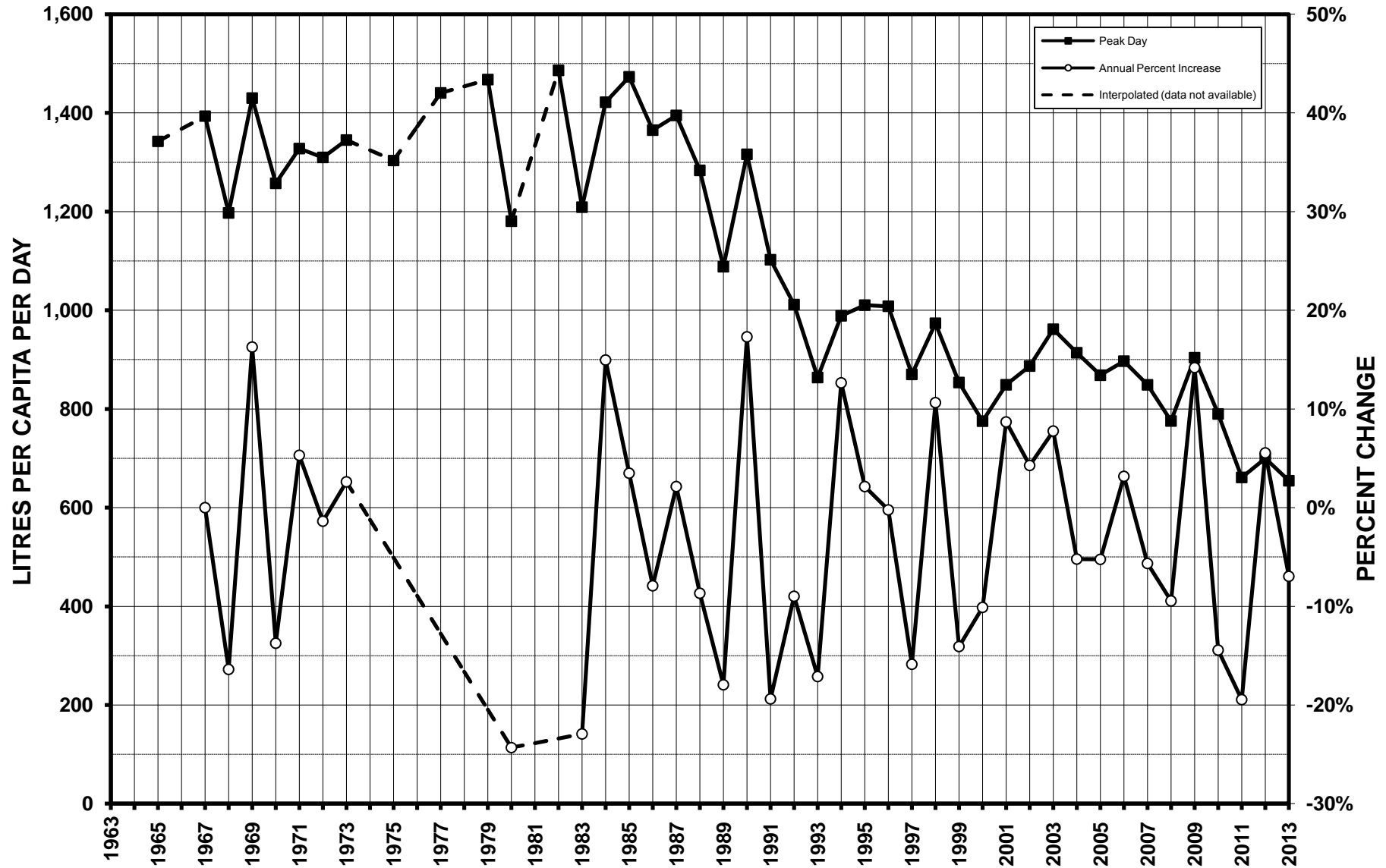
(4) - As Township of Langley has its own secondary supply sources, the GVWD service population was used to compute per capita consumption (see Notes section).

Peak Hour data are not avaible for Anmore and Belcarra

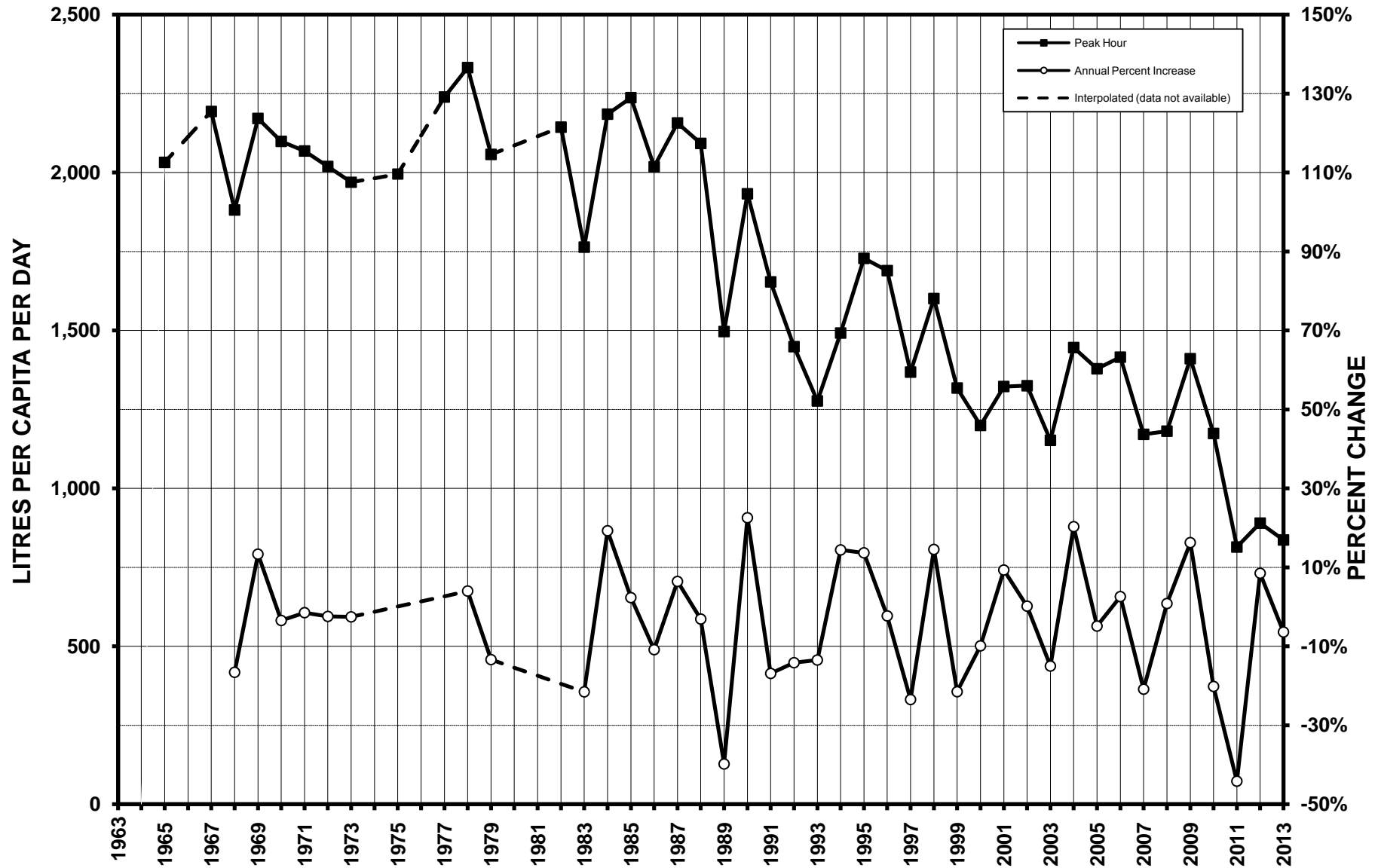
Greater Vancouver Water District System Annual Average Daily Consumption



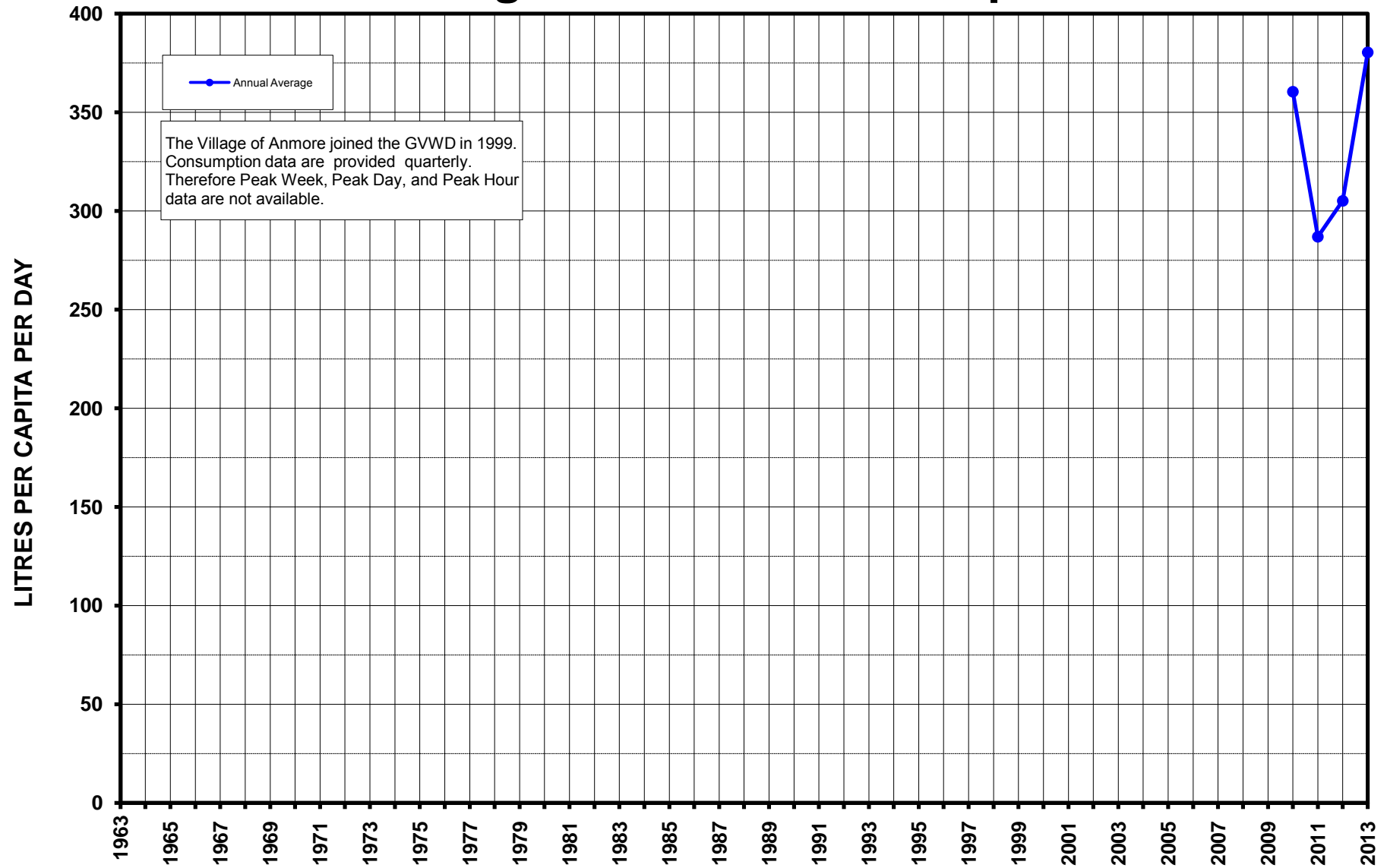
Greater Vancouver Water District System Annual Peak Day Consumption



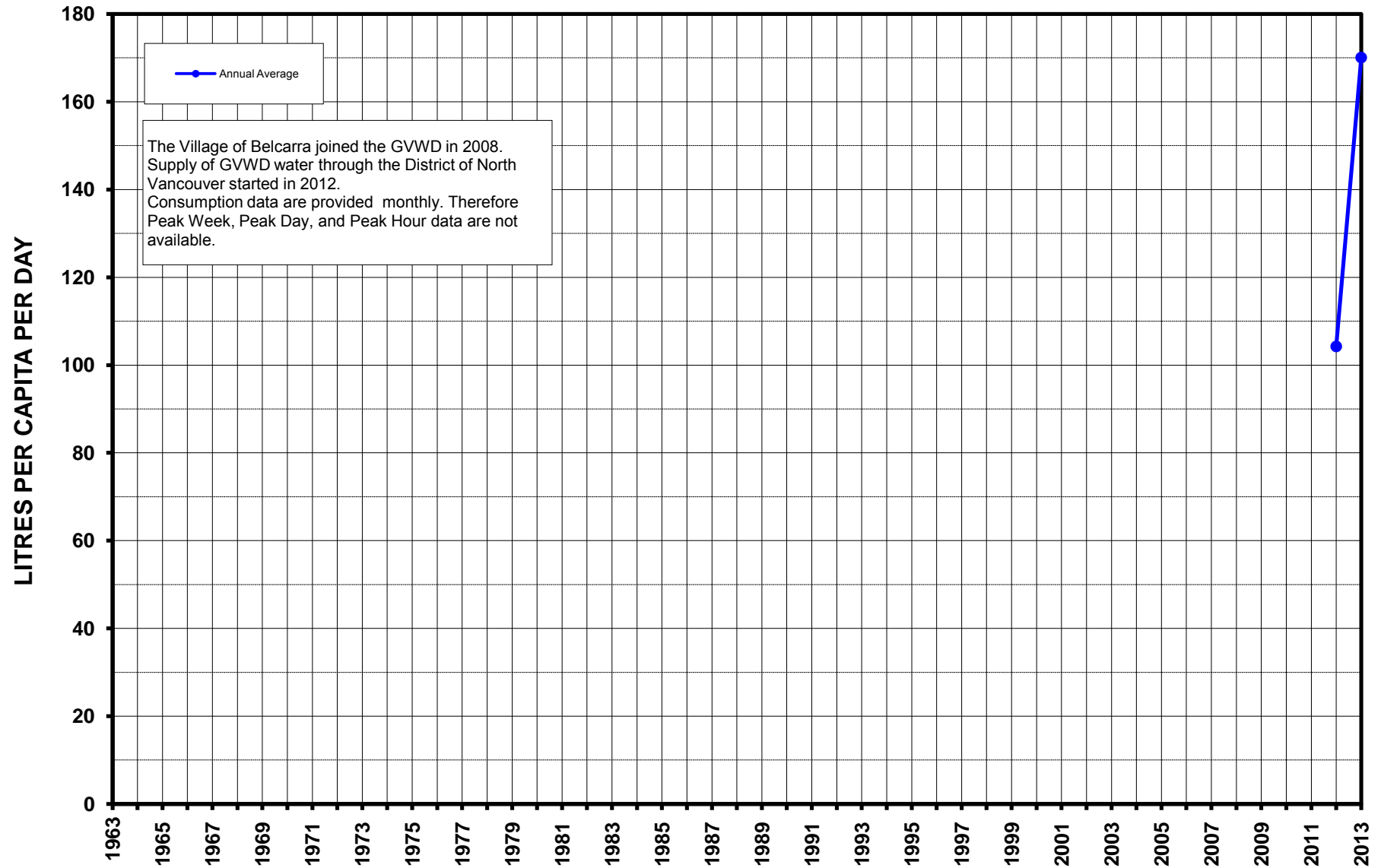
Greater Vancouver Water District System Annual Peak Hour Consumption



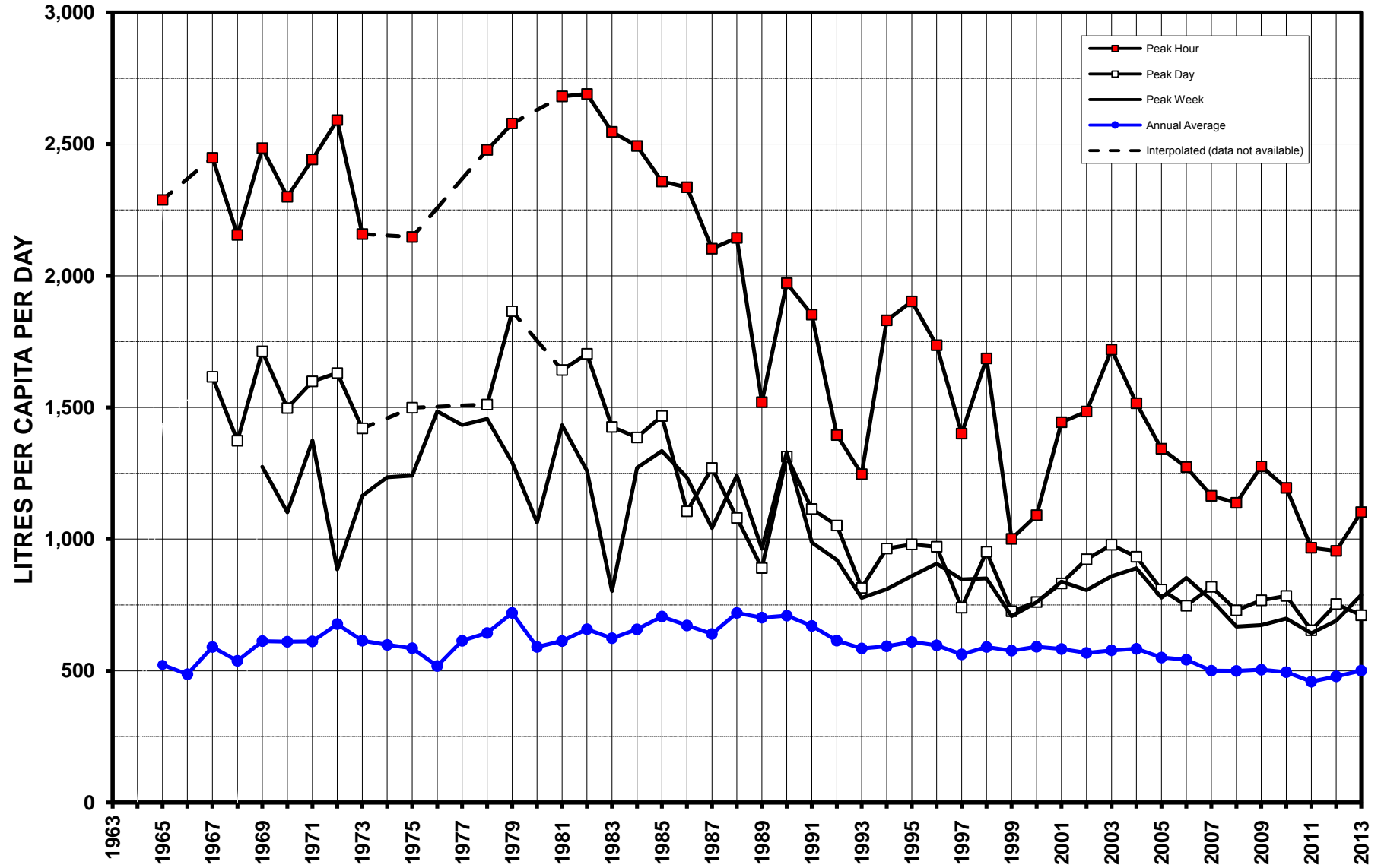
Greater Vancouver Water District Village of Anmore- Per Capita



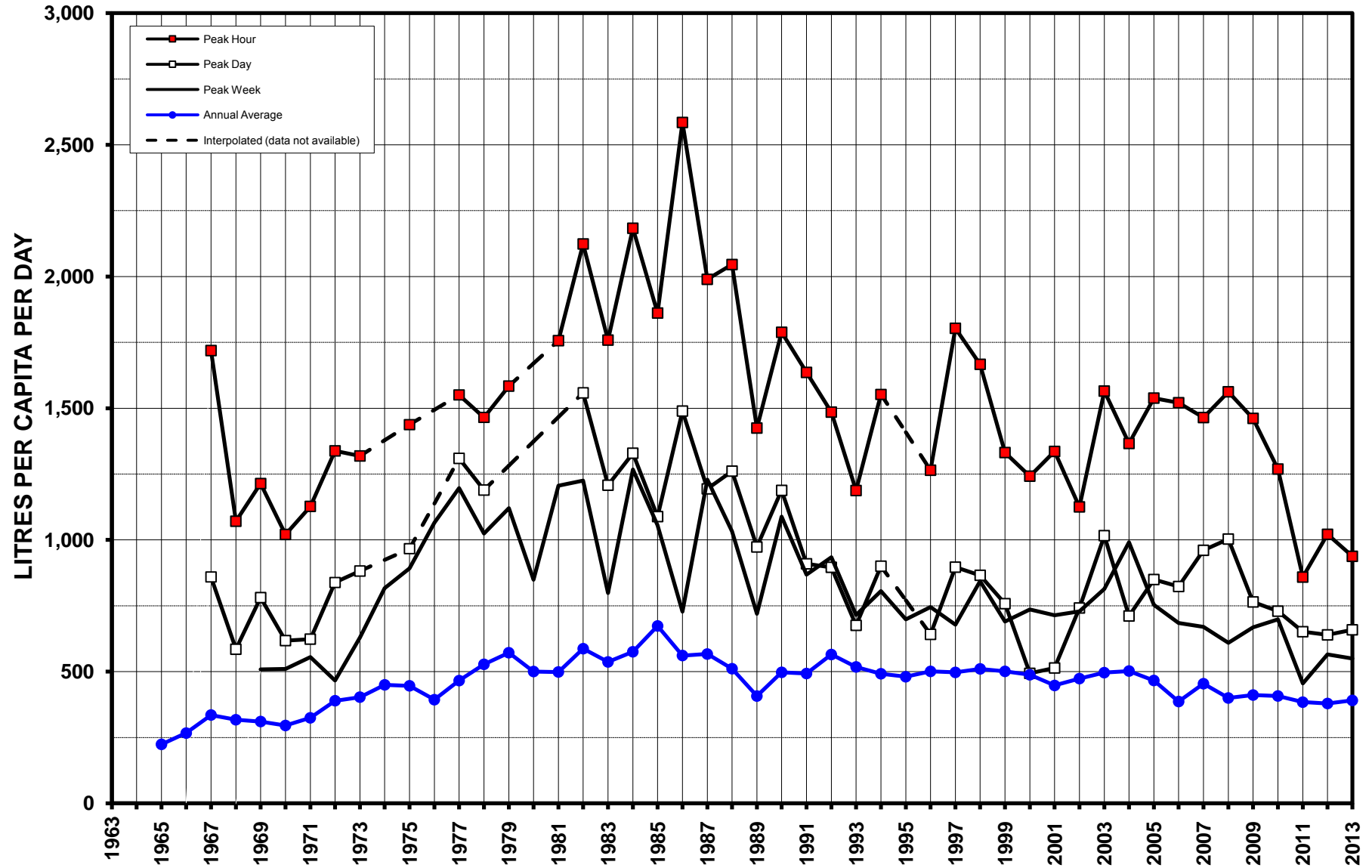
Greater Vancouver Water District Village of Belcarra- Per Capita



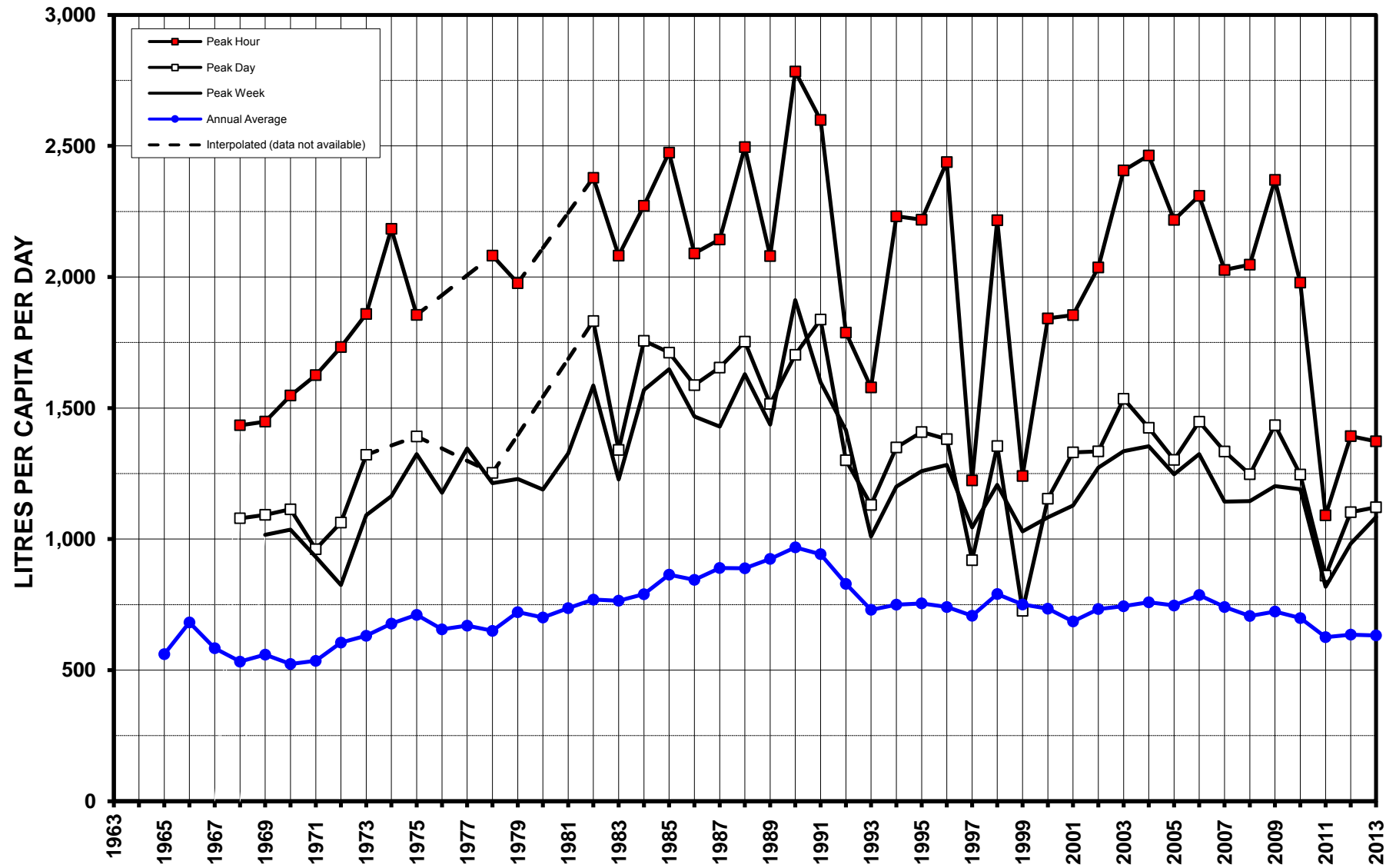
Greater Vancouver Water District City of Burnaby - Per Capita



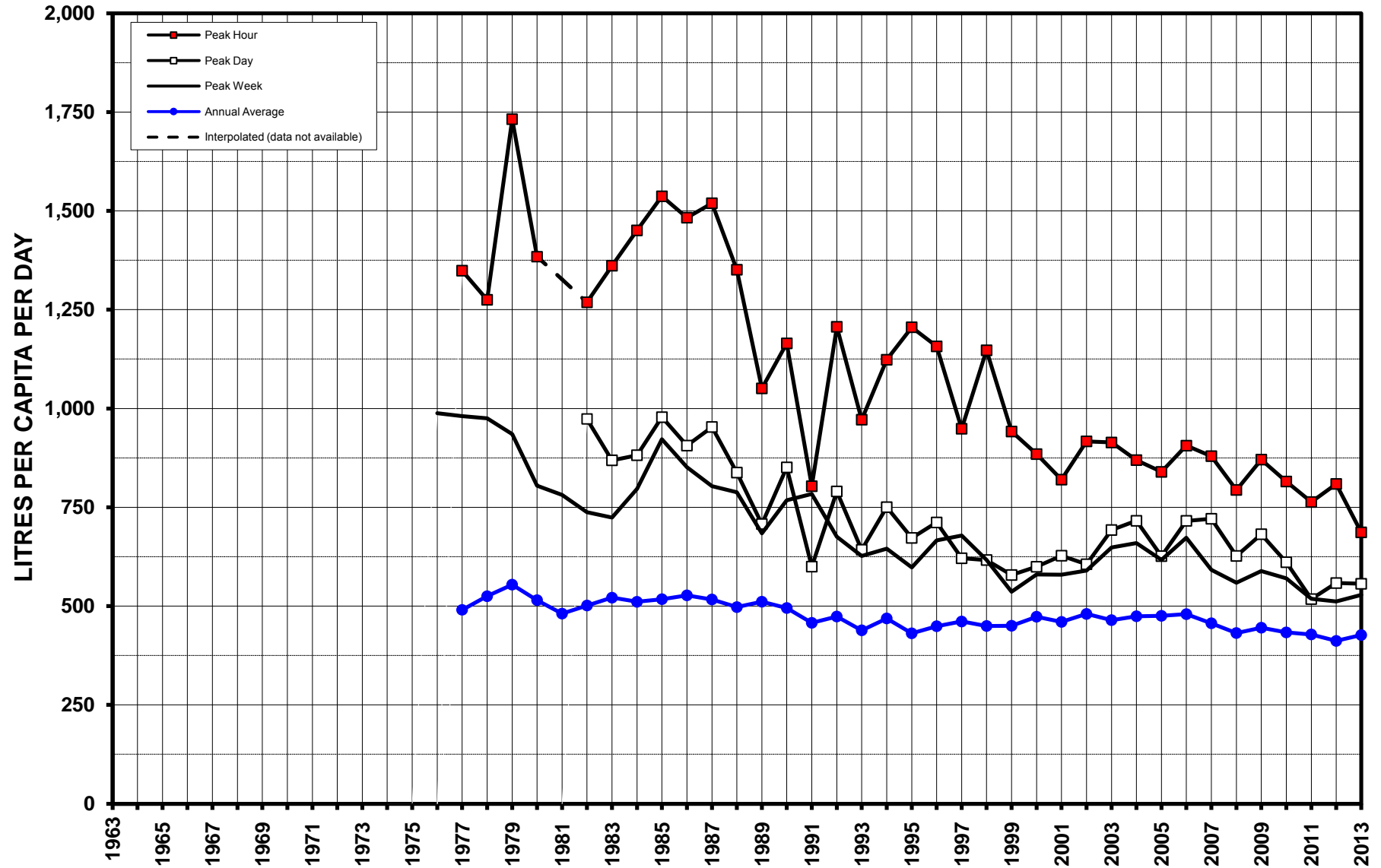
Greater Vancouver Water District City of Coquitlam - Per Capita



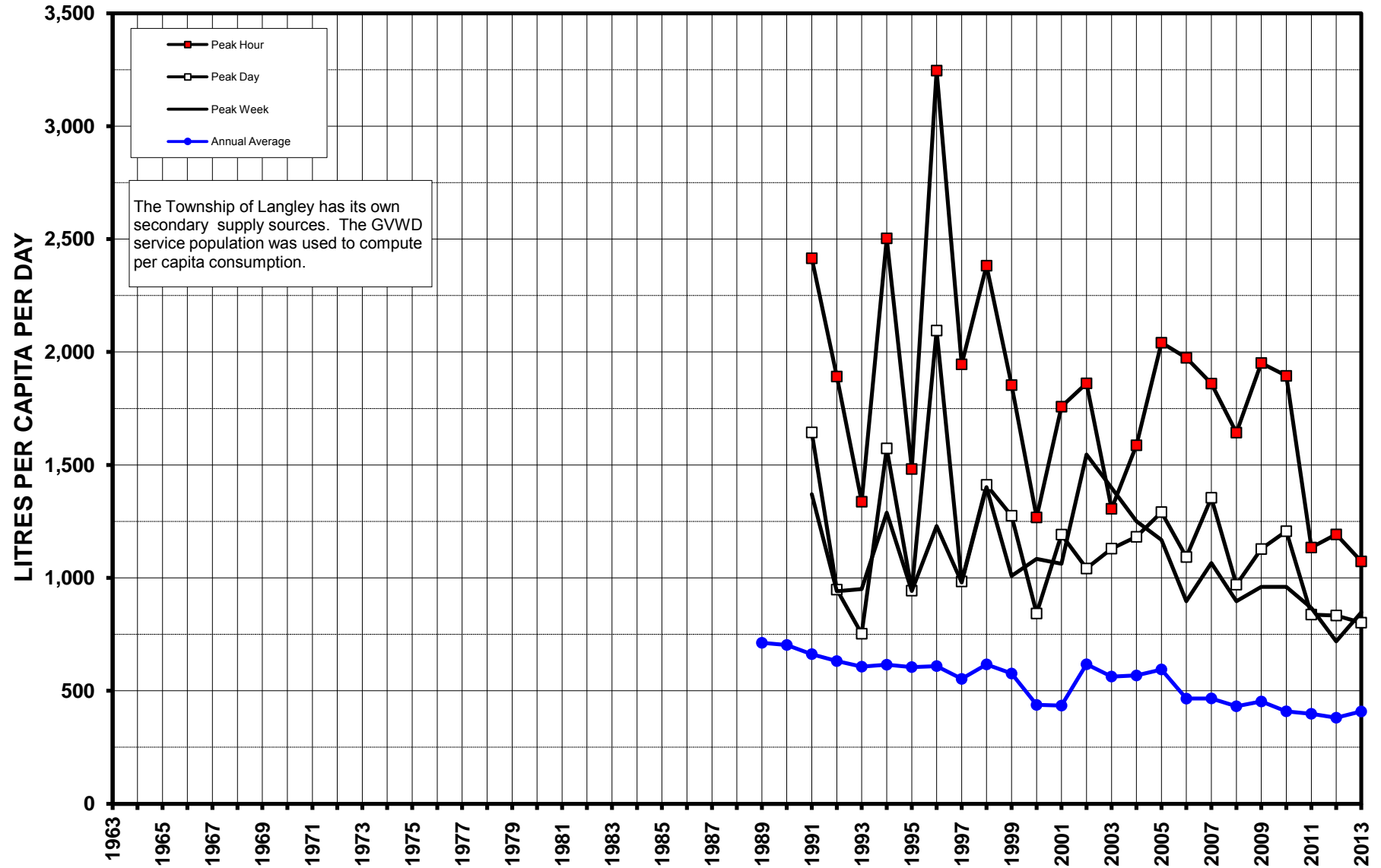
Greater Vancouver Water District Corporation of Delta - Per Capita



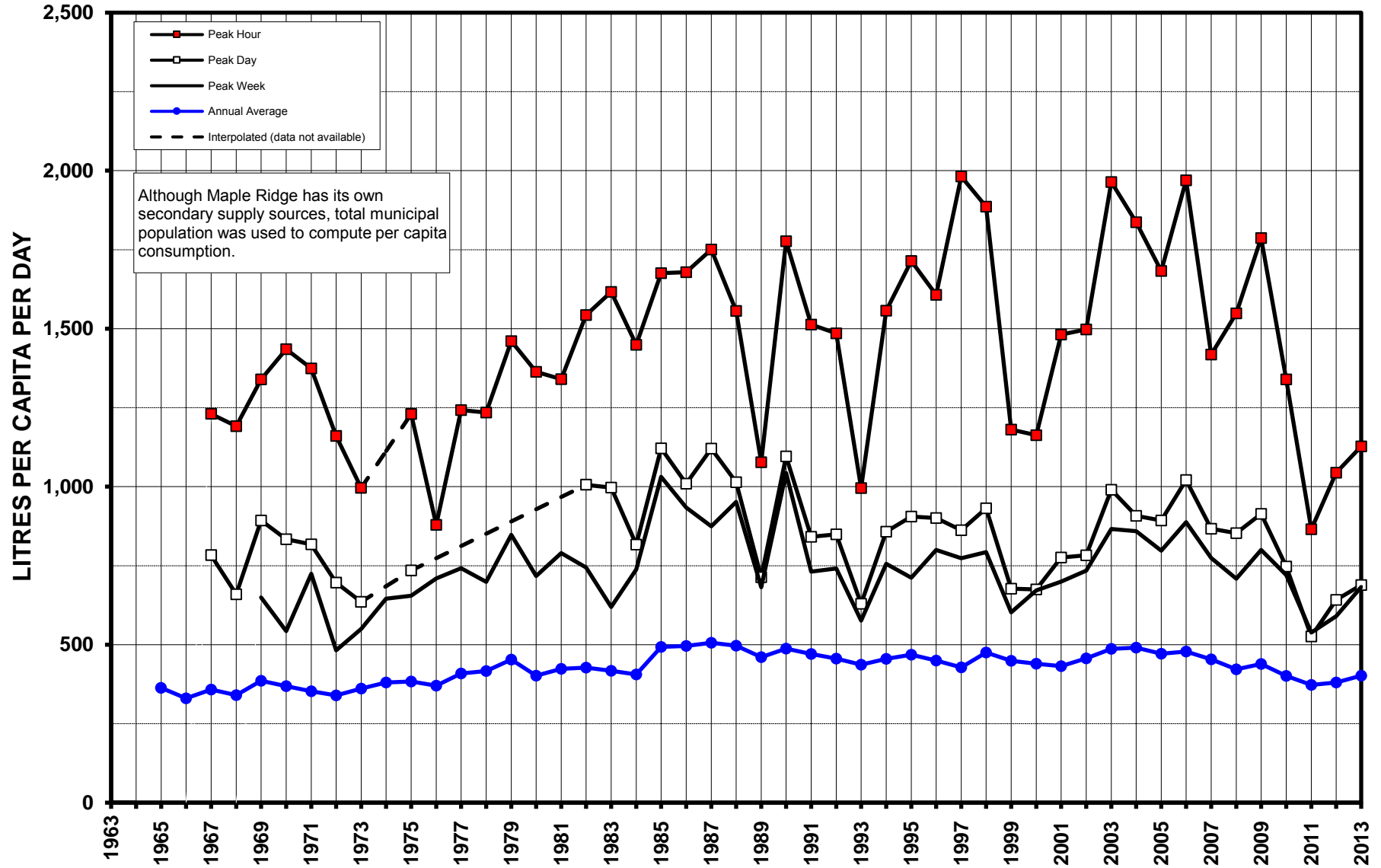
Greater Vancouver Water District City of Langley - Per Capita



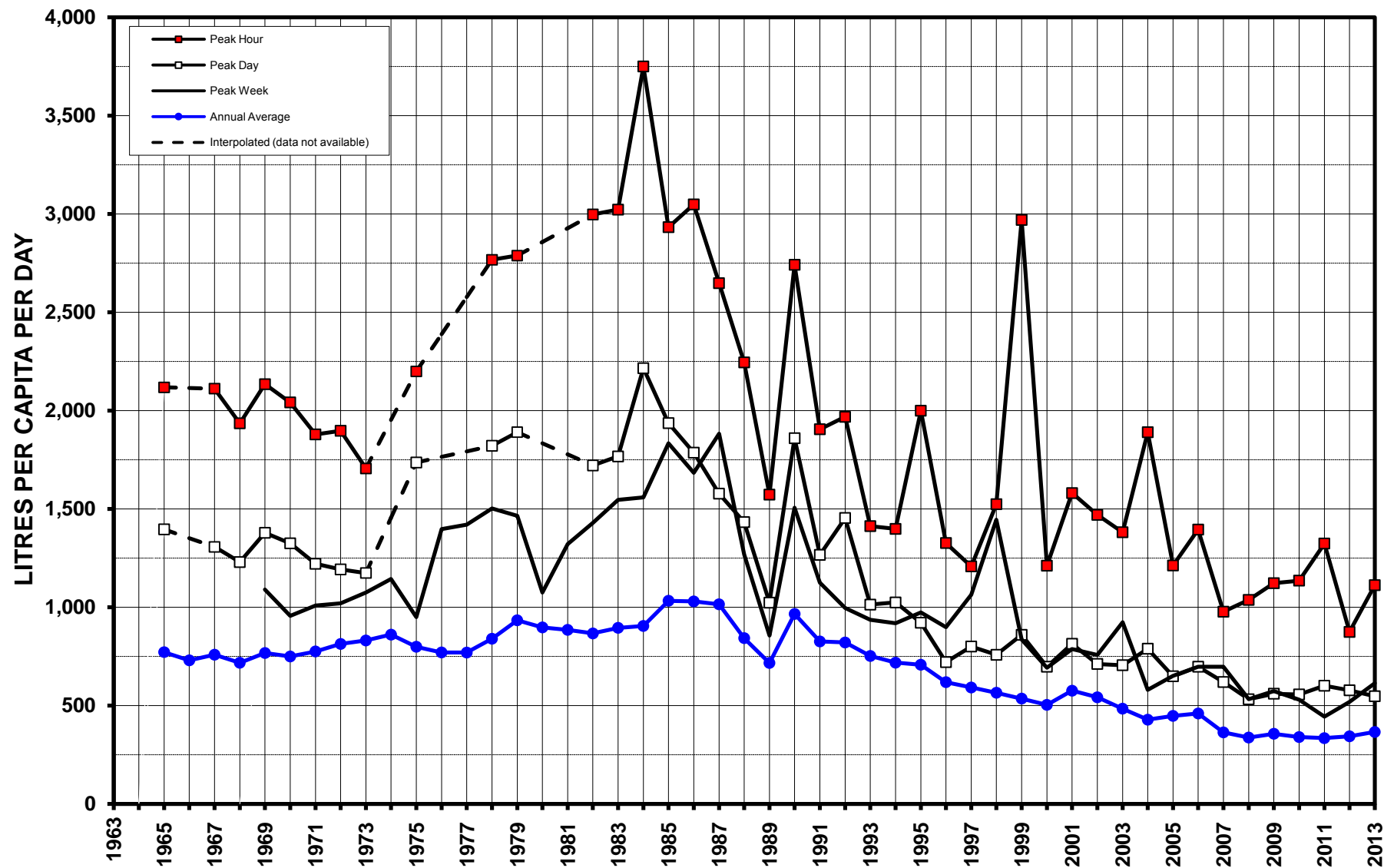
Greater Vancouver Water District Township of Langley - Per Capita



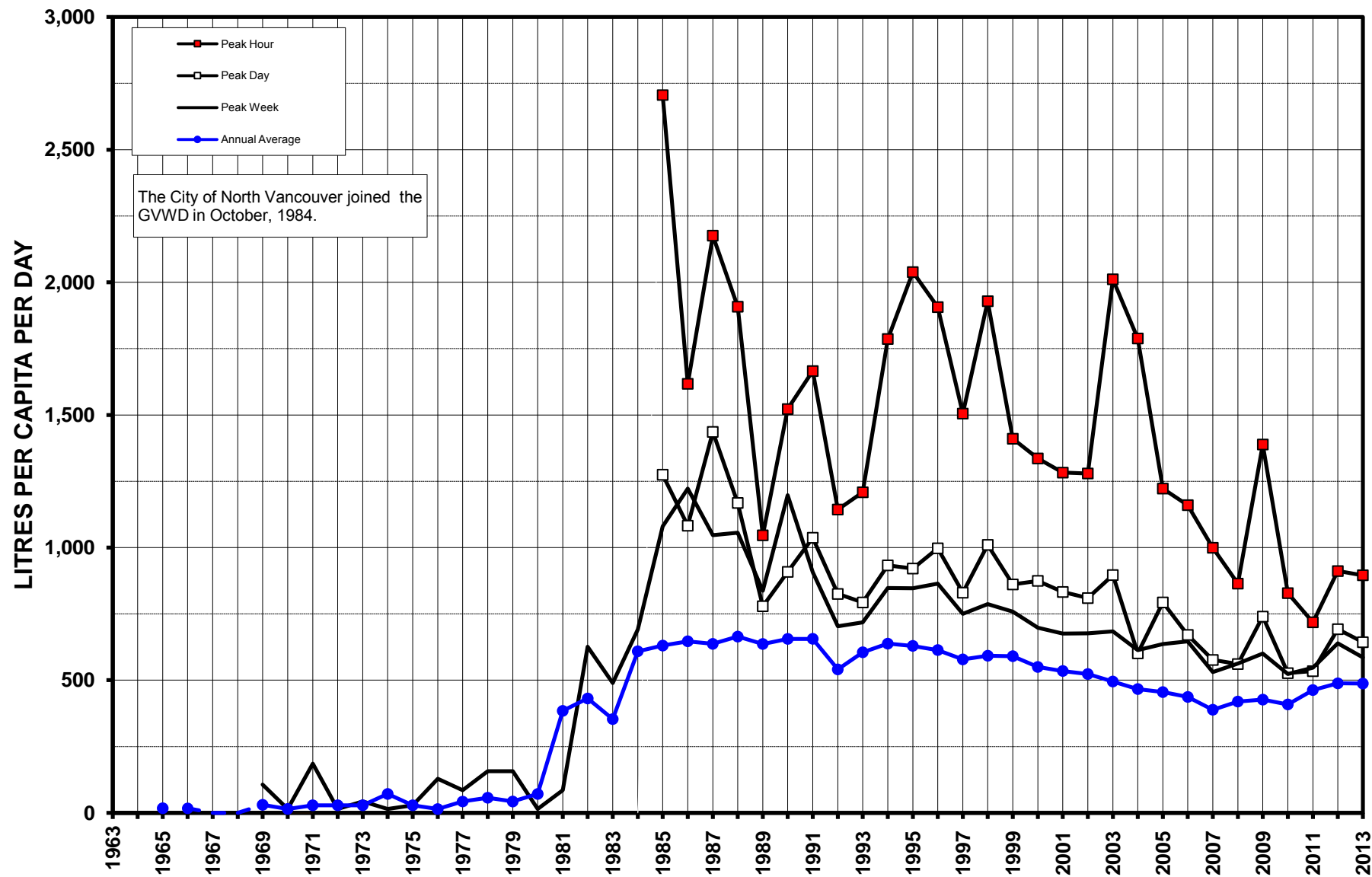
Greater Vancouver Water District City of Maple Ridge - Per Capita



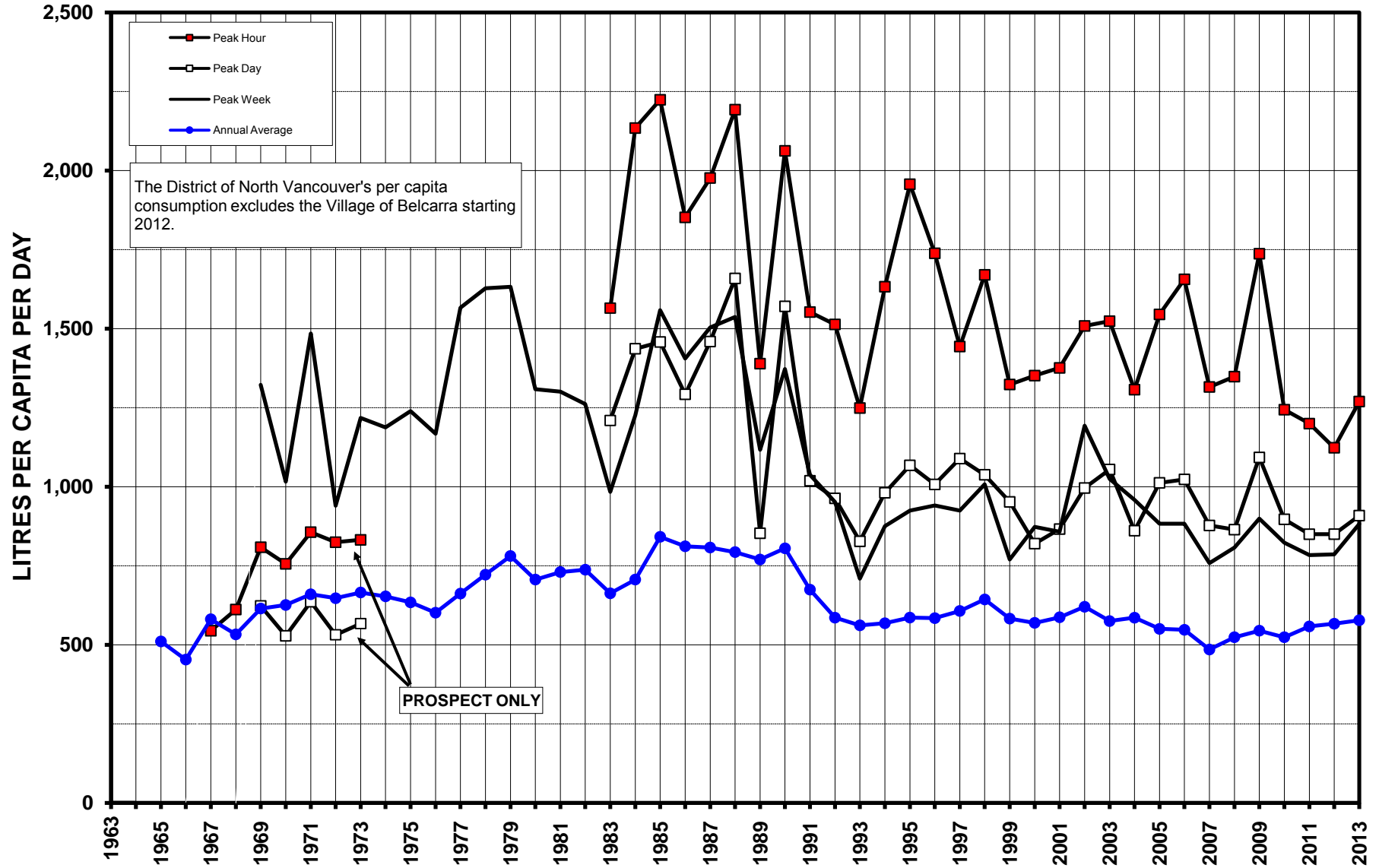
Greater Vancouver Water District City of New Westminster - Per Capita



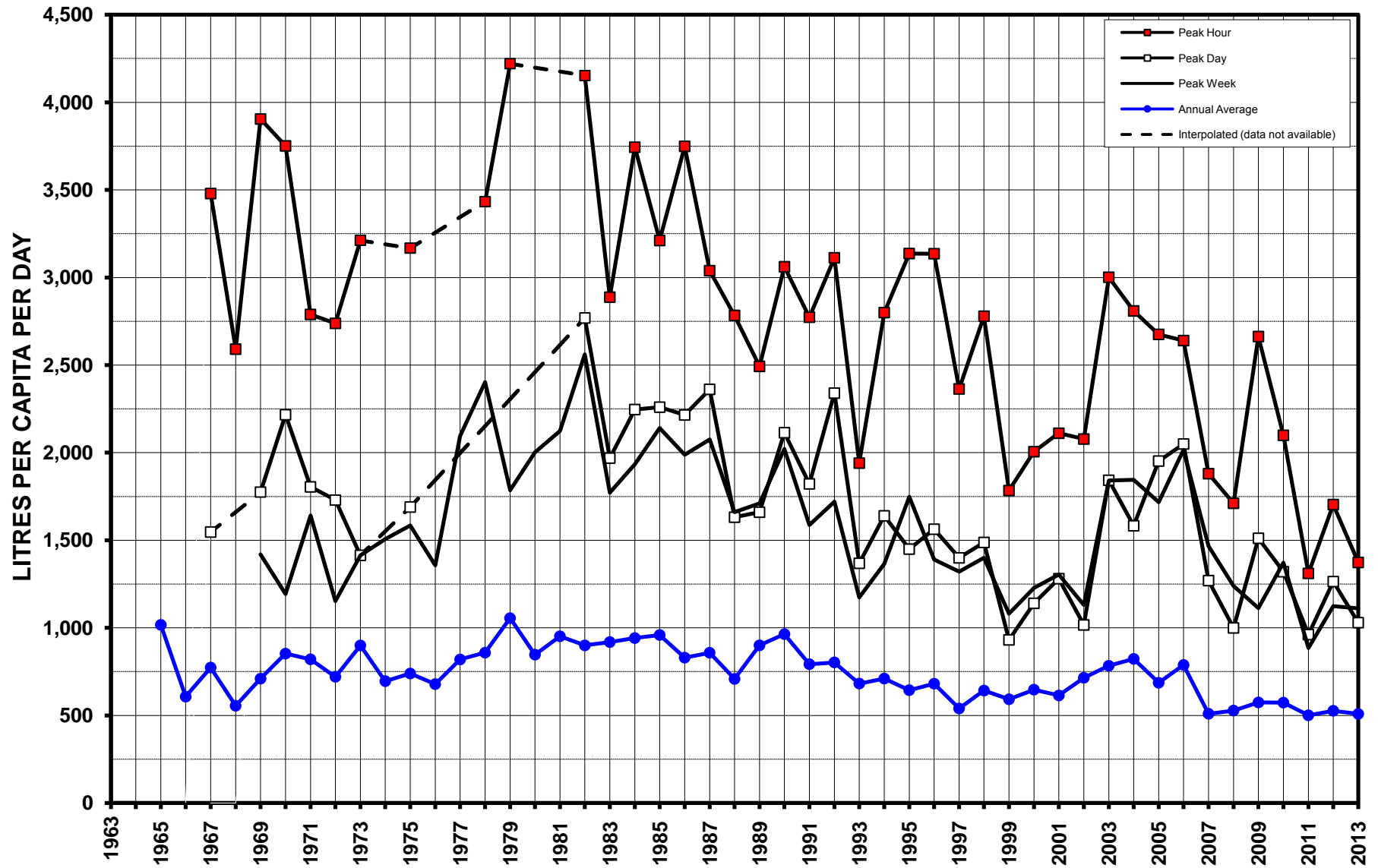
Greater Vancouver Water District City of North Vancouver - Per Capita



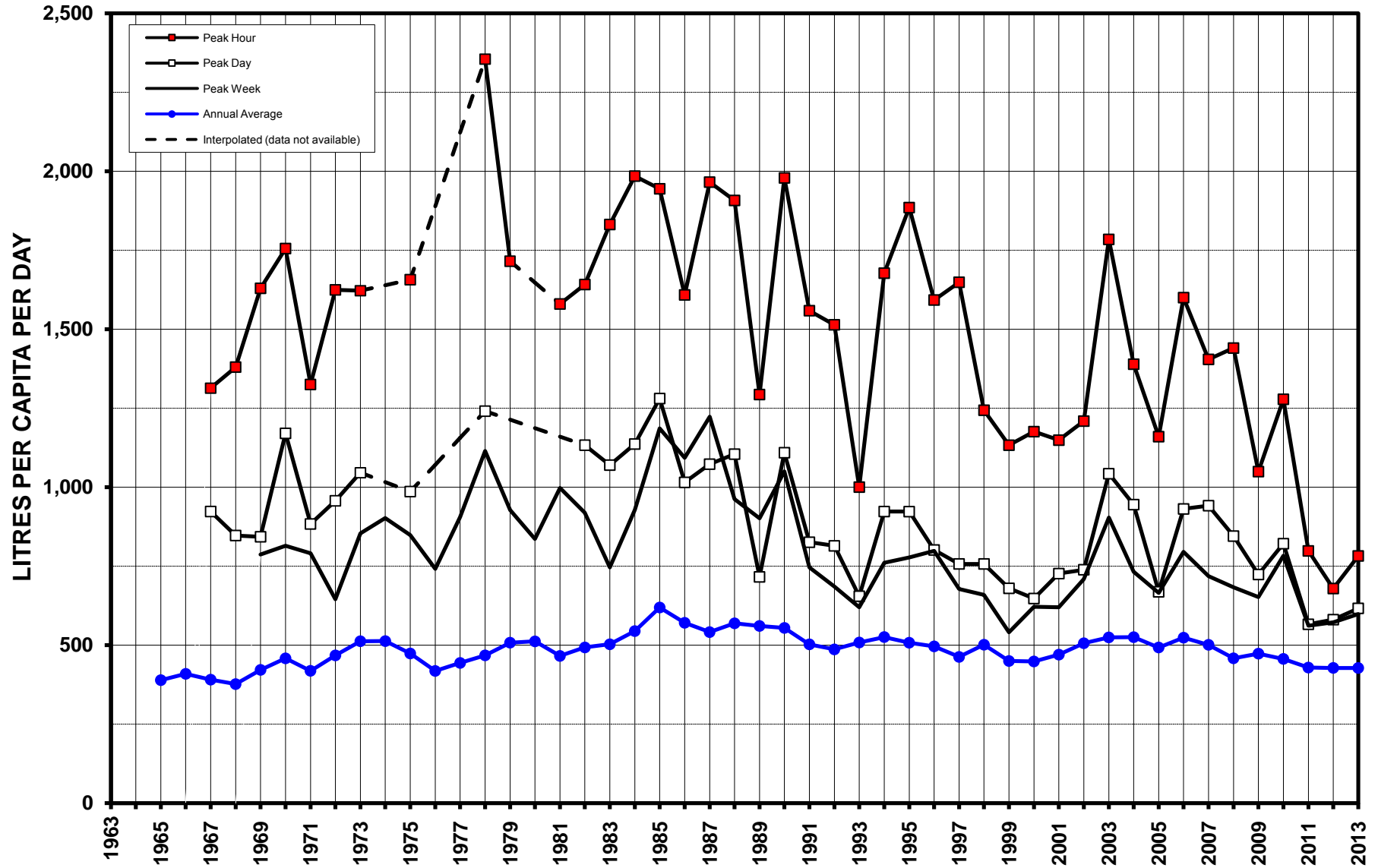
Greater Vancouver Water District District of North Vancouver - Per Capita



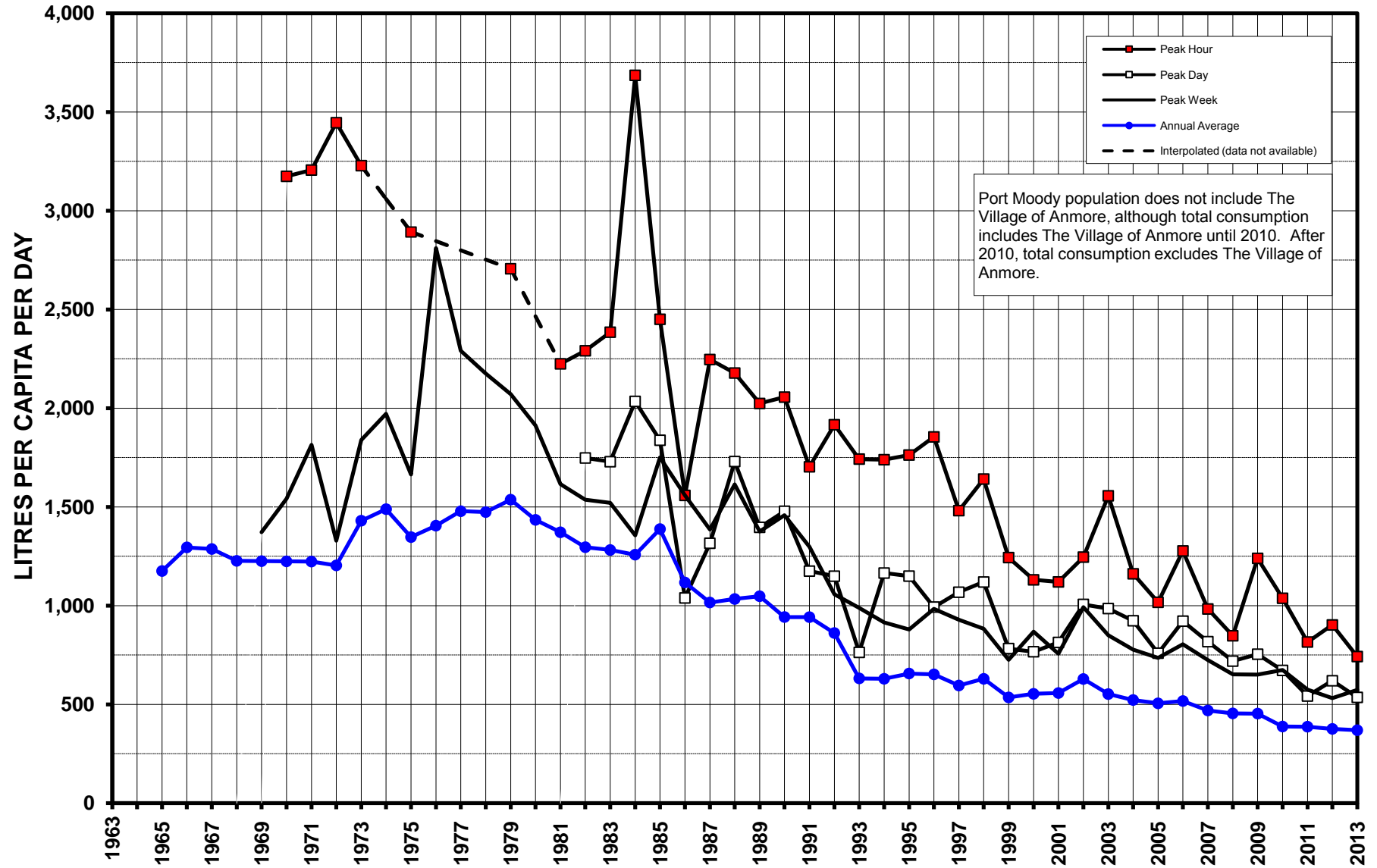
Greater Vancouver Water District District of Pitt Meadows - Per Capita



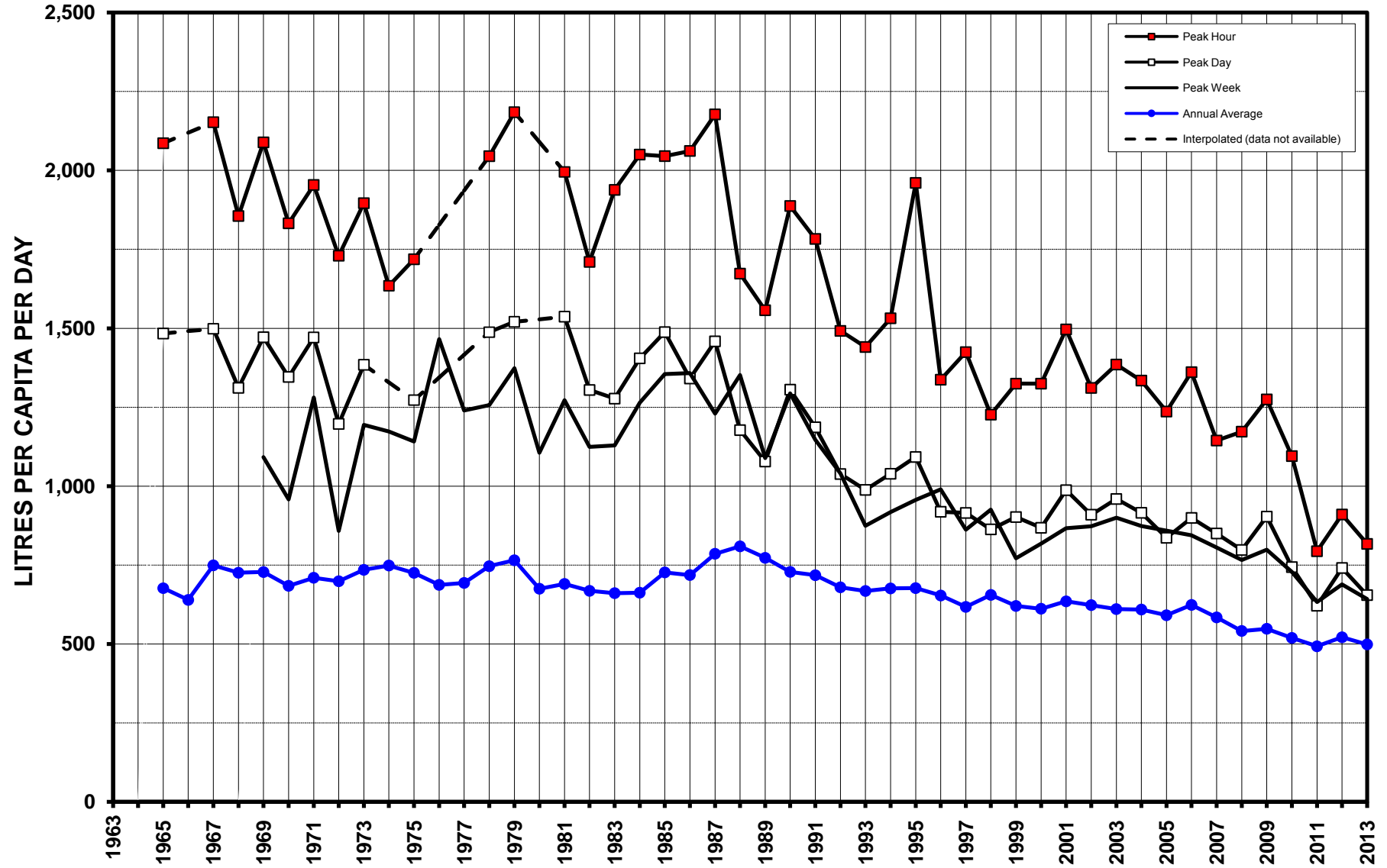
Greater Vancouver Water District City of Port Coquitlam - Per Capita



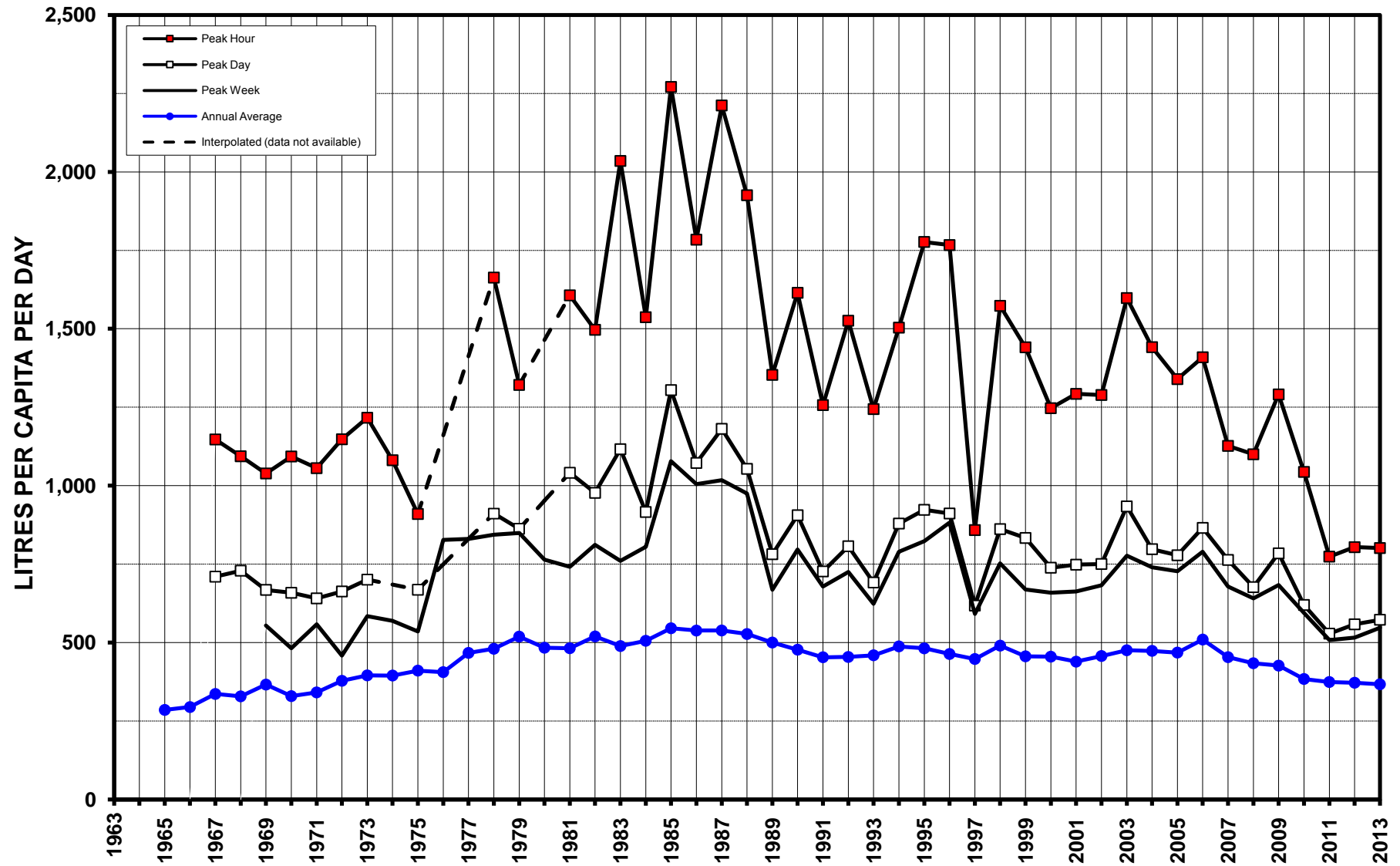
Greater Vancouver Water District City of Port Moody - Per Capita



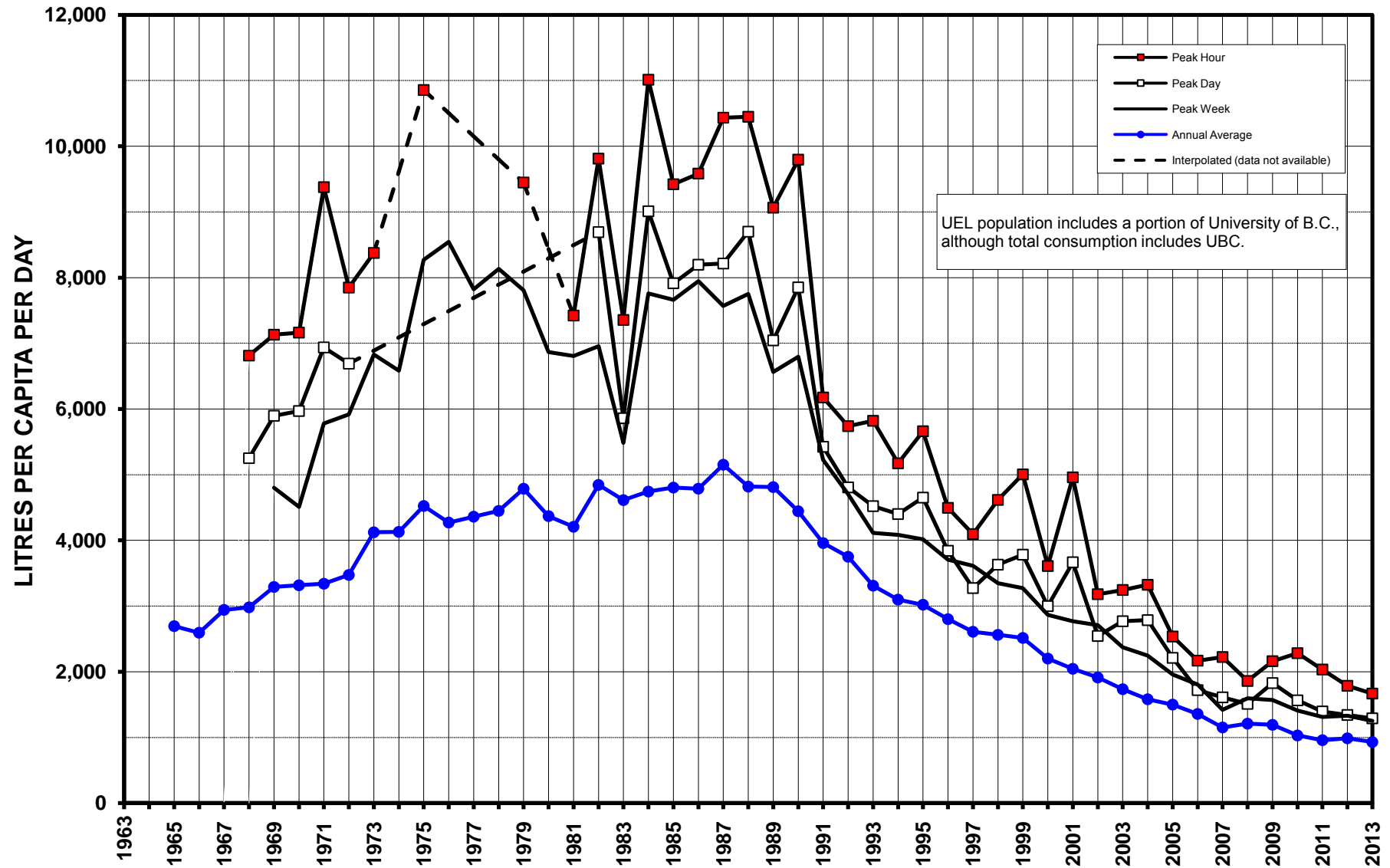
Greater Vancouver Water District City of Richmond - Per Capita



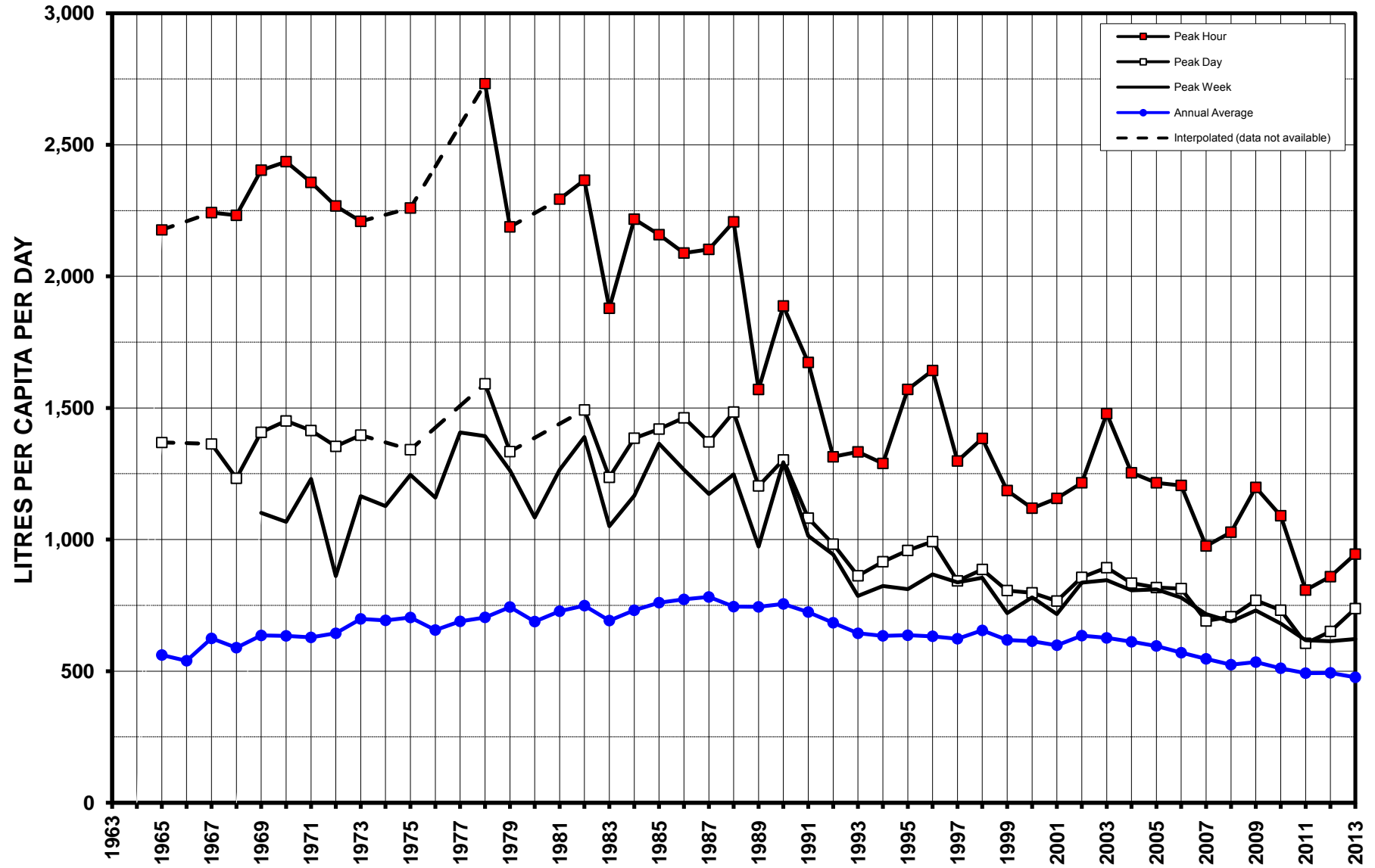
Greater Vancouver Water District City of Surrey - Per Capita



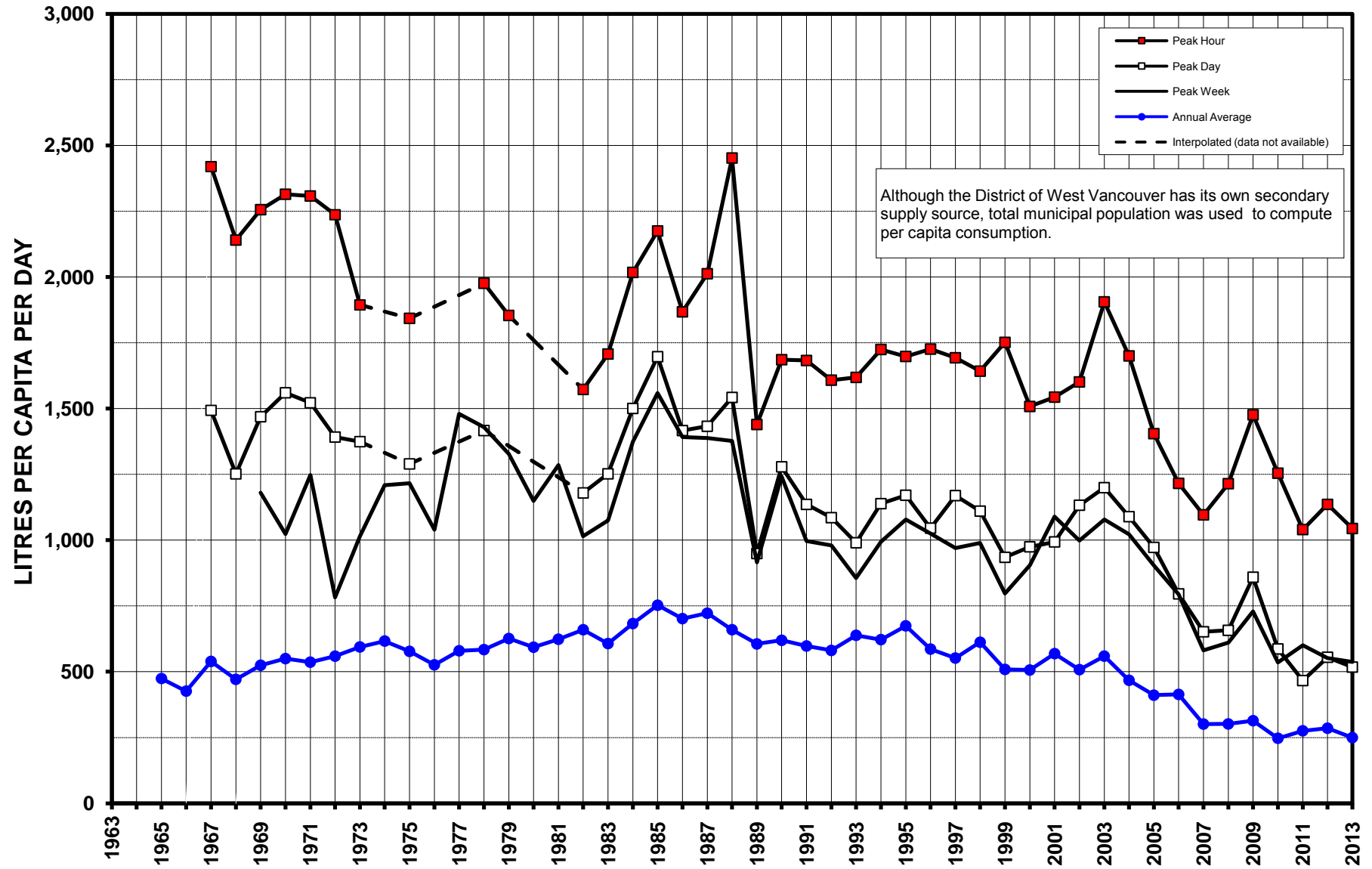
Greater Vancouver Water District University Endowment Lands - Per Capita



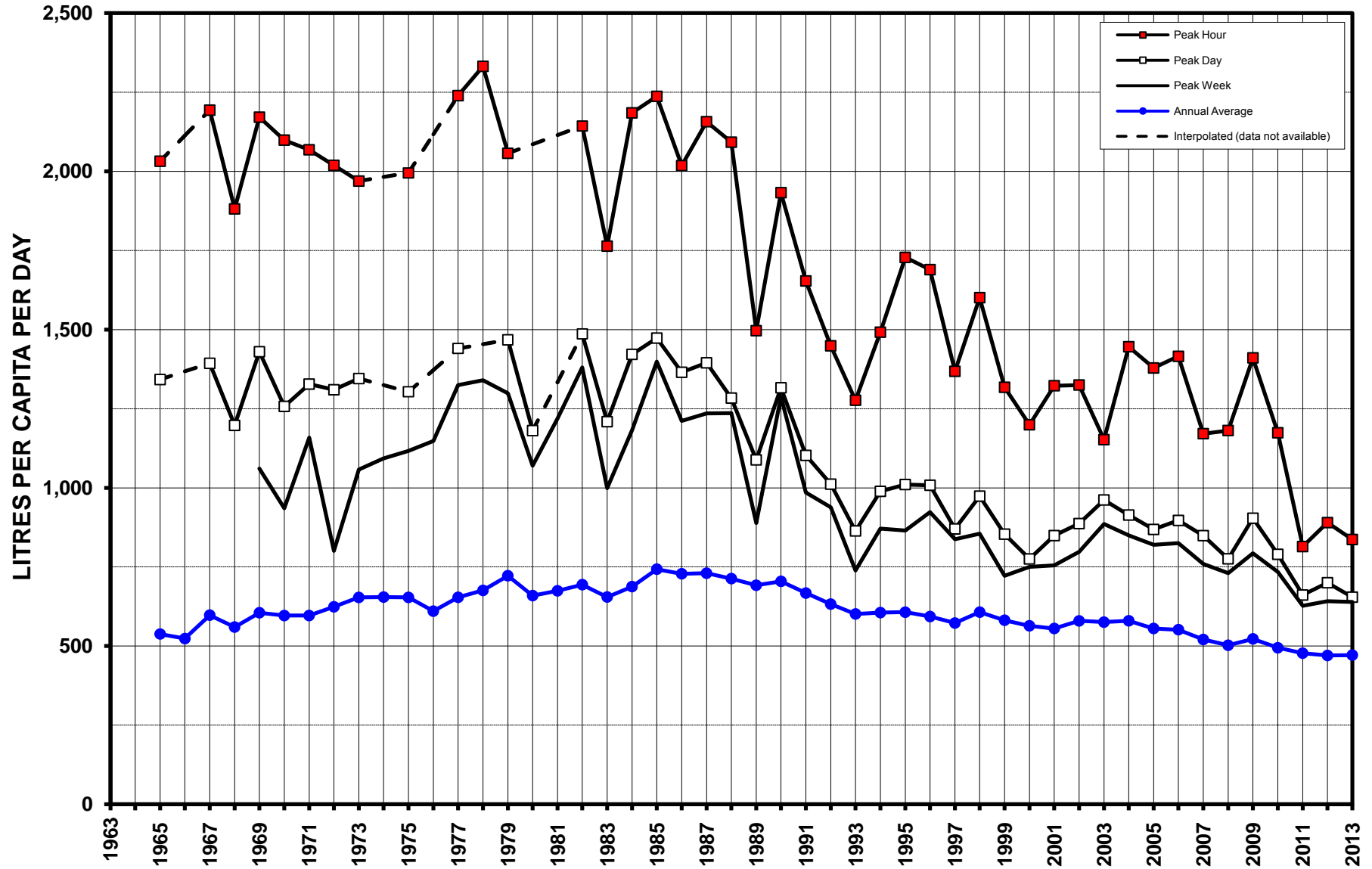
Greater Vancouver Water District City of Vancouver - Per Capita



Greater Vancouver Water District District of West Vancouver - Per Capita



Greater Vancouver Water District Whole System - Per Capita



Water

For more information call Metro Vancouver
Water Services Department
Water Quality Information Line: (604) 451-6010

For other Metro Vancouver information, or to order
publications, contact:
Metro Vancouver Info Centre
4330 Kingsway, Main Floor
Burnaby, B.C. V5H 4G8

Tel: (604) 432-6200 Fax: (604) 436-6901
E-mail: icentre@metrovancouver.org
Web site: www.metrovancouver.org

Water Services Department

ISSN 1496-5666

Front Cover Photograph: Seymour Falls Dam 2008

