



2022 Water Consumption Statistics Report

Water Services Department

Issued: January 2024

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COVER PHOTOGRAPH: Barnston Maple Ridge Pump Station 2016

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1.0 2022 GVWD STATISTICS NOTES

1.1. Overview

The Greater Vancouver Water District (the GVWD) is one of the four legal entities that operates under the name Metro Vancouver and is responsible for supplying bulk drinking water to its customers. The term GVWD will be used throughout the report rather than Metro Vancouver. This report provides statistical water consumption data for customers as well as flow data from the source lakes.

The information provided includes tabulated water consumption data for peak hour¹, peak day², peak week³, and annual average daily flows⁴ where available, and their corresponding graphs. Tabulated data for source monthly average flows⁵ are also provided. In addition, per capita water consumption data and their graphs are presented in this report.

1.2. General Notes

1. This issue of the report includes the most up to date information and supersedes all previous issues.
2. Peak Day is the day of annual maximum withdrawal from the sources. The customer's peak day flows in this report are determined from flows on Peak Day. Actual customer's 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 report:
 - ML/d – millions of litres per day
 - Lpcd – litres per capita per day

¹ Peak hour demand is the hour during the peak day demand with maximum consumption

² Peak day demand is the day of annual maximum demand from the source lakes

³ Peak week is the week of annual maximum demand by each customer and by system as a whole

⁴ Annual average daily flows are calculated by dividing total annual consumption by number of days for each customer and the whole system separately

⁵ Source monthly average flows are calculated by taking the average of daily flows for each month

6. The Village of Anmore joined the GVWD in 1998. 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. Majority of TFN's consumption was provided by the City of Delta and was included with Delta's consumption until the first quarter of 2014.

1.3. Jurisdictions with Additional Water Supply Sources

1. In addition to water supplied by the GVWD, the following member jurisdictions use their own sources:

- Village of Anmore (wells)
- Village of Belcarra (wells)
- City of Delta (wells) - Mainly for agricultural uses
- Township of Langley (wells)
- City of Maple Ridge (wells)
- City of Surrey (wells) - Mainly for agricultural uses
- District of West Vancouver (Eagle Lake and Montizambert Creek)

The percentage of the 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 jurisdiction.

1.4. 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 – 2022: Regional Planning, Metro Vancouver.

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:

Table 1: Township of Langley Annual Percentage of Population GVWD Supplied

Year	Percentage	Year	Percentage	Year	Percentage
Prior to	0	2000	33	2012	34
1989	2	2001	36	2013	38
1990	4	2002	29	2014	36
1991	23	2003	30	2015	39
1992	28	2004	30	2016	43
1993	23	2005	30	2017	47
1994	25	2006	33	2018	48
1995	32	2007	34	2019	49
1996	23	2008	33	2020	59
1997	20	2009	36	2021	60
1998	26	2010	36	2022	66
1999	34	2011	36		

Figures supplied by Township of Langley

3. Assumed annual percentage of District of West Vancouver's population supplied with GVWD water which is used to compute per capita consumption:

Table 2: District of West Vancouver Annual Percentage of Population GVWD Supplied

Year	Percentage	Year	Percentage	Year	Percentage
Prior to	N/A	2004	61	2014	57
1995	84	2005	58	2015	67
1996	79	2006	60	2016	59
1997	76	2007	53	2017	61
1998	79	2008	56	2018	60
1999	72	2009	56	2019	59
2000	69	2010	47	2020	51
2001	68	2011	53	2021	54
2002	64	2012	53	2022	63
2003	72	2013	48		

Figures supplied by District of West Vancouver

1.5. Per Capita Consumption

1. Per capita figures include all water supplied.
2. System as a Whole:
Only the percentages of the Township of Langley and District of West Vancouver populations assumed to be serviced by GVWD water (see “Population” tables & notes on Page 3) were included in the system population used to compute system per capita consumption. Total population was used for District of West Vancouver prior to 1995 as GVWD service population information was not available at the time.
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, and Surrey:
Although the above members have their own secondary supply sources (see "Jurisdictions with Additional Water Supply Sources" notes on Page 2), their total population was used for the calculation of per capita consumption.
5. Port Moody:
Statistical data regarding Anmore’s consumption became available only from 2010 and a new chart was included starting the 2013 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 2).
6. District of North Vancouver:
Statistical data regarding Belcarra’s consumption became available starting in 2012 and a new chart was included starting in the 2013 report to represent Belcarra’s consumption. Therefore, 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. (see “General” notes on Page 2).
7. Delta:
Statistical data regarding TFN’s consumption became available starting in 2014 and a new chart that represents TFN’s consumption is included in this report. Therefore, TFN’s consumption and population figures are no longer included in the City of Delta’s figures (see “General” notes on Page 2).

1.6. Metro Vancouver Policies that Affected Water Consumption in Recent Years

- 1992: Region-wide summer lawn watering ban for 10 weeks.
- 1993-2002: June 1 to September 30 region-wide restrictions limiting lawn watering to restricted hours in the morning and evening, two days per week.
- 2003: Region-wide restrictions limiting lawn watering to two days per week from June 1 were increased to one day per week on August 5. On August 22 a region wide lawn watering 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 watering to restricted hours in the morning and evening, two days per week.
- 2011: June 1 to September 30 region-wide restrictions. The majority of jurisdictions implemented new lawn watering hours in 2011, limiting lawn watering to restricted hours in the morning three days per week. A minority of jurisdictions implemented the same watering hours as were in place for the 2004 to 2010 period.
- 2012-2014: June 1 to September 30 region-wide restrictions limiting lawn watering to restricted hours in the morning three days per week.
- 2015: The summer of 2015 experienced unusually warm temperatures and dry weather. As a result, the Water Shortage Response Plan⁶ was implemented as follows:
- June 1: Stage 1 - Lawn watering limited to restricted hours in the morning three days per week.
 - July 3: Stage 2 - Lawn watering limited to restricted hours one morning per week.
 - July 20 to Sept 8: Stage 3 - Full ban on lawn watering
 - Sept 9 to Sept 21: Stage 2 - Lawn watering limited to restricted hours one morning per week.
 - Sept 22: Return to Stage 1 - Lawn watering limited to restricted hours in the morning three days per week.
 - Oct 15: Watering Restrictions lifted.
- 2016-2017: May 15 to October 15 region-wide restrictions limiting lawn watering to restricted hours in the morning three days per week.
- 2018-2021: May 1 to October 15 region-wide restrictions implemented, limiting lawn watering to 2 days per week. In addition, if using a sprinkler, watering of trees, shrubs and flowers were limited to the morning hours only on any day of the week.
- 2022: May 1 to October 15 region-wide restrictions implemented, limiting lawn watering to 1 day per week. In addition, if using a sprinkler, watering of trees, shrubs and flowers were limited to the morning hours only on any day of the week.

*In addition to regional restrictions, a total lawn watering ban was introduced during the summer of 1997 for approximately 10 weeks in the City 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.

⁶ Water Shortage Response Plan was later renamed to the Drinking Water Conservation plan starting 2018

2.0 ANNUAL PEAK DAY DATES AND STATISTICS

Table 3: Annual Peak Day Dates

Year	Date	Year	Date
1965	July 30, Sunday	1995	July 19, Wednesday
1967	June 19, Wednesday	1996	July 25, Thursday
1968	July 31, Wednesday	1997	August 17, Sunday
1969	June 18, Wednesday	1998	August 13, Thursday
1970	July 5, Sunday	1999	July 28, Wednesday
1971	July 27, Tuesday	2000	July 19, Wednesday
1972	August 7, Thursday	2001	July 11, Wednesday
1973	July 18, Wednesday	2002	August 14, Wednesday
1974	August 29, Thursday	2003	July 30, Wednesday
1975	July 7, Monday	2004	July 29, Thursday
1976	July 19, Monday	2005	August 14, Sunday
1977	August 17, Wednesday	2006	July 23 Sunday
1978	August 8, Tuesday	2007	July 12, Thursday
1979	July 31, Tuesday	2008	July 13, Sunday
1980	August 11, Monday	2009	July 30, Thursday
1981	August 10, Monday	2010	July 29, Thursday
1982	June 18, Friday	2011	August 18, Thursday
1983	May 29, Sunday	2012	August 16, Thursday
1984	July 24, Tuesday	2013	July 25, Thursday
1985	July 18, Thursday	2014	July 16, Wednesday
1986	August 7, Thursday	2015	July 1, Wednesday
1987	June 29, Monday	2016	August 18, Thursday
1988	July 25, Monday	2017	August 1, Tuesday
1989	August 8, Tuesday	2018	August 9, Thursday
1990	July 30, Monday	2019	August 14, Wednesday
1991	July 23, Tuesday	2020	July 30, Thursday
1992	June 22, Monday	2021	June 29, Tuesday
1993	August 4, Wednesday	2022	July 27, Wednesday
1994	July 21, Thursday		

1966 Peak Day not available

Table 4: Annual Peak Day Statistics

Month	Percent of Total Peak Days (%)
May	$1/57 = 1.8$
June	$6/57 = 10.5$
July	$31/57 = 54.4$
August	$19/57 = 33.3$

Day	Percent of Total Peak Days (%)
Monday	$8/57 = 14.0$
Tuesday	$8/57 = 14.0$
Wednesday	$16/57 = 28.1$
Thursday	$17/57 = 29.8$
Friday	$1/57 = 1.8$
Saturday	$0/57 = 0.0$
Sunday	$7/57 = 12.3$

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Appendix A

SYSTEM
AND
JURISDICTION
CONSUMPTION

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GREATER VANCOUVER WATER DISTRICT
CAPILANO SOURCE MONTHLY AVERAGE FLOWS

[ML/d]

	1970	1975	1980	1985	1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
JANUARY	227	268	295	332	357	319	353	384	0	54	0	404	467	2	0	294	0	0	0	0	0	0	194	294	223	81	54	186	328
FEBRUARY	232	277	309	323	365	323	368	336	0	222	0	244	422	0	254	275	0	0	0	0	0	52	205	193	199	181	216	271	358
MARCH	236	268	305	341	368	314	352	480	0	154	88	48	370	0	358	216	0	0	0	0	0	208	199	196	262	341	242	185	365
APRIL	241	282	309	350	384	381	362	402	0	101	277	53	368	30	337	348	29	13	75	0	0	311	146	198	220	236	200	184	368
MAY	250	300	341	364	435	461	365	394	0	418	406	350	375	253	363	334	226	254	226	329	42	430	434	213	229	289	203	186	209
JUNE	377	373	336	436	435	472	267	417	348	508	481	444	464	356	389	473	223	290	364	341	403	518	367	215	389	398	203	306	213
JULY	418	518	382	718	600	521	424	489	449	505	614	482	538	348	487	538	513	301	425	493	497	422	586	570	578	507	409	561	279
AUGUST	350	418	450	500	662	456	457	440	528	400	462	507	514	199	484	488	501	319	461	493	530	222	696	695	441	575	460	480	494
SEPTEMBER	259	323	332	391	436	462	419	132	463	336	574	357	432	431	410	407	284	339	491	0	367	259	420	428	330	348	372	237	360
OCTOBER	236	282	323	359	373	311	242	0	490	202	156	330	355	0	337	231	0	0	166	0	0	377	181	182	300	223	254	188	364
NOVEMBER	232	286	309	350	365	287	227	0	265	0	203	290	109	0	161	0	0	0	0	0	0	274	188	274	189	177	198	191	280
DECEMBER	232	268	295	346	397	255	252	0	145	0	402	518	0	0	342	0	0	0	32	0	0	191	208	364	185	112	186	190	359

GREATER VANCOUVER WATER DISTRICT
SEYMOUR SOURCE MONTHLY AVERAGE FLOWS

[ML/d]

	1970	1975	1980	1985	1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
JANUARY	195	259	314	368	392	386	399	419	421	524	674	84	548	628	397	453	493	749	658	502	573	658	512	369	427	556	622	430	389
FEBRUARY	200	255	209	359	406	375	360	387	479	429	666	300	484	603	427	429	597	754	711	483	568	612	490	515	452	470	460	322	368
MARCH	191	255	309	364	403	363	351	467	619	474	615	551	410	536	202	457	598	739	690	716	663	431	489	502	317	156	383	411	355
APRIL	195	268	314	368	421	397	351	405	622	602	526	593	434	472	438	441	598	744	608	727	686	342	541	529	452	519	476	465	350
MAY	223	282	346	391	446	452	372	425	646	435	508	519	481	429	487	440	573	481	519	489	677	249	283	555	578	464	551	503	525
JUNE	336	350	318	486	434	455	522	444	475	505	525	457	534	503	495	493	553	505	437	586	437	263	373	633	426	253	554	535	575
JULY	373	459	364	755	596	466	493	457	495	430	389	446	559	576	571	384	495	616	522	470	381	270	185	358	254	203	364	220	515
AUGUST	323	359	441	527	601	427	504	382	462	340	335	483	543	653	440	339	421	644	425	448	370	267	198	238	266	247	334	195	263
SEPTEMBER	218	264	327	332	375	458	433	551	404	205	469	435	305	456	461	427	429	525	495	668	440	522	261	319	316	378	369	491	302
OCTOBER	205	236	318	336	397	359	407	531	241	411	546	466	285	508	418	464	664	634	631	636	647	254	473	455	353	514	455	536	236
NOVEMBER	200	241	309	346	449	256	371	461	295	522	533	552	351	528	487	455	643	605	726	530	684	416	519	371	471	439	464	495	406
DECEMBER	200	236	309	359	311	326	407	459	413	643	164	499	464	320	452	458	677	489	682	524	666	521	507	254	495	574	468	476	302

GREATER VANCOUVER WATER DISTRICT
COQUITLAM SOURCE MONTHLY AVERAGE FLOWS

[ML/d]

	1970	1975	1980	1985	1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
JANUARY	64	64	91	91	157	236	275	200	602	448	388	550	0	395	463	262	463	243	292	449	379	289	237	294	284	318	292	295	264
FEBRUARY	59	68	86	105	163	243	295	292	550	381	371	476	106	404	314	293	378	242	245	464	374	284	240	240	285	309	278	328	212
MARCH	59	64	86	73	164	298	312	70	431	399	319	418	226	461	405	309	376	254	238	251	273	299	245	242	345	445	332	332	217
APRIL	64	68	86	82	165	233	340	233	444	355	316	422	217	531	224	223	364	251	274	288	288	316	342	242	290	238	350	369	246
MAY	68	73	100	127	141	310	328	317	477	273	356	319	266	460	220	339	283	288	358	300	351	477	483	289	406	416	352	420	274
JUNE	91	86	95	141	185	303	413	346	506	426	399	294	284	345	284	464	368	349	286	285	346	694	474	375	465	672	366	483	326
JULY	91	123	109	264	286	383	427	476	506	703	604	426	445	484	422	644	544	344	326	564	520	654	471	518	608	583	491	730	533
AUGUST	86	114	127	164	314	263	448	473	547	716	631	559	445	520	367	583	526	434	504	441	483	637	467	508	708	509	512	661	643
SEPTEMBER	73	91	95	150	276	263	349	504	387	603	117	459	567	323	296	369	428	381	308	469	382	250	459	496	494	427	465	396	593
OCTOBER	77	86	95	123	172	327	427	550	376	486	382	282	457	517	272	410	371	389	290	385	375	342	365	412	353	281	314	265	520
NOVEMBER	73	86	95	150	121	430	431	567	491	523	299	190	562	457	337	576	356	351	251	432	283	258	256	319	297	335	288	254	272
DECEMBER	73	86	91	155	257	336	354	566	478	383	446	0	561	637	208	538	316	451	234	431	282	230	250	304	263	264	264	273	312

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

	1970	1975	1980	1985	1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
JANUARY	486	591	700	786	907	941	1027	1004	1023	1026	1062	1038	1014	1025	962	1010	957	993	949	951	952	947	942	957	934	954	968	911	980
FEBRUARY	491	600	605	782	934	941	1023	1014	1027	1032	1036	1020	1012	1007	995	997	974	996	956	947	942	949	935	948	936	960	954	921	939
MARCH	486	586	700	773	935	975	1015	1017	1050	1027	1023	1017	1006	997	964	981	974	992	927	967	936	938	932	939	924	942	957	929	938
APRIL	500	618	709	800	970	1011	1053	1040	1064	1058	1119	1068	1019	1032	999	1011	992	1008	957	1016	974	969	1028	969	963	992	1025	1019	964
MAY	541	655	786	882	1023	1223	1065	1136	1123	1127	1271	1188	1122	1143	1070	1113	1082	1023	1103	1118	1070	1156	1200	1057	1213	1169	1105	1108	1008
JUNE	805	809	746	1068	1054	1230	1202	1206	1327	1439	1405	1194	1282	1204	1168	1429	1144	1144	1086	1212	1186	1474	1214	1223	1280	1323	1123	1324	1113
JULY	882	1100	855	1741	1483	1370	1343	1422	1450	1638	1607	1353	1542	1408	1480	1566	1552	1261	1272	1526	1398	1346	1242	1446	1440	1294	1265	1511	1328
AUGUST	759	891	1023	1196	1576	1146	1410	1296	1537	1455	1428	1550	1502	1371	1290	1410	1448	1397	1390	1381	1384	1125	1361	1441	1416	1330	1306	1335	1400
SEPTEMBER	550	677	755	877	1087	1183	1201	1186	1255	1144	1161	1250	1304	1211	1167	1202	1141	1244	1294	1137	1188	1032	1139	1243	1139	1153	1206	1124	1254
OCTOBER	518	605	741	818	942	997	1075	1081	1109	1099	1084	1077	1097	1024	1027	1105	1034	1023	1087	1021	1022	972	1019	1048	1006	1018	1022	989	1120
NOVEMBER	505	614	714	850	934	973	1029	1028	1050	1045	1034	1032	1022	985	985	1031	999	956	978	962	967	948	963	964	957	952	950	939	958
DECEMBER	505	591	696	859	964	917	1013	1025	1037	1026	1013	1017	1026	957	1002	996	993	940	948	954	948	942	965	923	944	950	918	939	973

GREATER VANCOUVER WATER DISTRICT ANNUAL AVERAGE DAILY FLOWS

[ML/d]

JURISDICTION	1970	1975	1980	1985	1990	1995	2000	2001	2002*	2003	2004	2005	2006	2007	2008	2009**	2010†	2011	2012‡	2013	2014***	2015	2016	2017	2018	2019	2020	2021	2022
ANMORE																	0.75	0.61	0.66	0.85	0.76	0.74	0.77	0.90	0.89	0.85	0.83	0.89	0.82
BELCARRA																			0.07	0.11	0.12	0.13	0.15	0.22	0.18	0.20	0.29	0.21	0.22
BURNABY	75	76	80	101	114	111	118	119	116	119	120	115	114	107	109	113	112	104	110	116	109	112	109	109	109	106	104	108	106
COQUITLAM	15	25	30	46	42	49	57	54	57	60	60	56	46	55	49	51	52	50	50	53	50	48	48	55	54	54	54	59	56
DELTA	21	43	51	68	87	74	74	70	74	75	76	74	78	74	70	72	71	64	65	65	64	66	66	65	65	66	65	71	64
LANGLEY CITY			7	8	10	10	12	12	12	12	12	12	12	11	11	11	11	11	11	11	11	11	11	10	10	9	10	10	11
LANGLEY TOWNSHIP					2	15	13	14	17	16	16	17	15	16	15	17	15	15	15	17	17	19	20	23	24	26	30	34	35
MAPLE RIDGE	9	11	13	17	24	27	28	29	31	33	34	33	34	33	31	33	31	29	30	32	31	32	31	32	32	31	32	33	33
NEW WESTMINSTER	31	31	35	41	42	35	29	33	31	29	25	27	28	22	22	23	23	22	23	25	24	24	24	24	24	23	23	23	23
NORTH VAN. CITY	0	1	2	22	25	27	25	25	24	23	21	21	21	19	20	21	20	23	24	25	23	23	24	26	25	24	23	25	26
NORTH VAN. DIST.	35	40	46	57	62	48	49	51	54	50	50	47	48	42	46	48	46	49	50	52	50	53	52	54	55	53	51	51	50
PITT MEADOWS	2	3	5	7	10	9	10	10	11	12	13	11	13	9	9	10	10	9	10	9	9	9	9	10	10	10	8	11	12
PORT COQUITLAM	8	11	14	18	20	24	24	25	28	29	29	27	29	28	25	27	26	25	25	25	24	25	25	26	27	26	25	29	28
PORT MOODY	12	15	20	22	17	14	14	14	16	14	14	14	15	14	14	15	13	13	13	13	13	14	13	13	13	14	14	13	13
RICHMOND	41	55	63	77	92	101	105	111	110	109	109	107	114	108	101	104	100	96	103	101	98	95	95	97	97	96	91	94	91
SURREY	31	46	68	95	116	147	163	162	173	184	187	189	210	193	189	192	179	179	182	183	181	179	185	181	182	182	183	190	190
TFN																					0.2	0.3	0.7	0.5	0.8	0.9	1.0	1.2	1.3
UEL	11	16	16	17	19	20	17	16	17	16	16	16	16	14	15	15	13	13	14	14	14	13	14	13	13	13	12	13	12
VANCOUVER	268	291	285	325	361	334	347	342	365	364	359	353	343	331	319	327	314	304	307	300	309	313	306	308	309	301	296	294	296
WEST VANCOUVER	20	21	21	27	24	28	21	24	22	24	20	18	19	14	14	14	11	13	13	12	14	18	16	16	15	14	11	12	14
CAPILANO SYSTEM	275	321	331	402	433	380	382	375	228	235	306	337	368	135	327	300	148	127	188	140	154	273	320	320	296	290	250	264	332
SEYMOUR SYSTEM	239	287	330	417	435	393	364	365	466	460	495	449	450	517	438	437	562	623	591	565	566	399	402	424	400	397	458	423	382
COQUITLAM SYSTEM	73	84	97	135	203	302	363	372	474	476	387	366	346	462	326	417	398	332	301	396	362	395	358	354	401	400	359	401	369
TOTAL SYSTEM	586	692	759	954	1071	1075	1108	1112	1168	1171	1188	1152	1164	1115	1091	1154	1108	1082	1080	1101	1082	1067	1079	1098	1097	1087	1067	1089	1083

* 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.

*** Starting in 2014, TFN's consumption is not included in Delta's consumption.

GREATER VANCOUVER WATER DISTRICT PEAK WEEK AVERAGE DAILY FLOWS

[ML/d]

JURISDICTION	1970	1975	1980	1985	1990	1995	2000	2001	2002*	2003	2004	2005	2006	2007	2008	2009**	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
BURNABY	135	162	144	191	214	157	152	171	165	176	184	162	180	165	146	150	157	146	158	183	167	168	146	153	168	139	136	163	145
COQUITLAM	26	49	51	71	92	72	86	86	88	99	119	90	82	80	74	83	89	59	75	75	76	86	73	85	96	82	90	103	105
DELTA	42	80	86	130	172	123	110	114	129	134	135	124	132	114	114	120	120	83	101	112	111	117	100	105	109	102	104	119	100
LANGLEY CITY			11	15	15	14	14	15	15	16	16	15	17	15	14	15	15	13	13	14	14	15	13	13	14	12	13	16	15
LANGLEY TOWNSHIP					13	24	32	35	42	39	35	33	29	36	30	35	36	34	28	36	36	51	34	45	52	43	53	83	57
MAPLE RIDGE	13	19	23	36	50	40	43	47	49	59	59	56	63	56	52	60	55	42	46	54	52	56	50	51	53	45	51	58	52
NEW WESTMINSTER	40	37	41	73	66	48	40	45	44	55	35	39	42	43	34	37	35	30	35	42	36	39	33	34	34	29	29	32	32
NORTH VAN. CITY	0	1	0	38	46	36	32	32	32	31	28	29	31	25	27	29	26	27	32	30	31	32	30	35	32	30	30	36	33
NORTH VAN. DIST.	57	77	85	105	105	76	75	74	103	89	82	75	77	66	70	79	72	69	70	79	75	85	75	82	85	72	71	83	76
PITT MEADOWS	3	7	12	16	22	23	19	20	18	28	29	27	33	25	22	20	25	16	21	20	20	21	21	25	21	18	19	24	27
PORT COQUITLAM	15	20	22	34	38	36	33	33	39	50	40	36	43	40	38	37	45	32	33	35	36	46	35	36	46	35	31	49	39
PORT MOODY	15	19	27	27	26	18	21	19	25	22	20	20	23	22	21	21	23	19	18	20	20	24	19	21	23	19	21	21	19
RICHMOND	57	87	103	144	163	143	140	152	154	160	157	156	154	149	143	152	140	123	136	130	135	139	123	128	137	124	119	131	120
SURREY	46	60	108	188	193	251	236	245	259	301	293	294	326	288	279	307	276	243	252	273	269	277	255	251	261	240	248	290	270
TFN																					0.2	0.6	1.9	1.2	2.0	2.1	2.2	2.5	2.9
UEL	15	29	25	28	30	27	22	22	24	22	23	21	21	17	20	20	18	17	18	18	19	19	17	18	19	18	19	19	17
VANCOUVER	451	515	448	584	618	425	441	410	481	492	473	480	468	434	418	447	418	381	382	392	398	476	395	420	441	382	387	386	395
WEST VANCOUVER	36	45	41	56	49	45	38	46	42	46	43	39	36	27	28	34	25	28	26	25	33	35	33	31	34	27	20	28	28
CAPILANO SYSTEM	430	579	555	749	799	563	495	542	564	568	677	647	592	523	529	625	573	484	566	543	575	618	778	733	670	646	550	589	549
SEYMOUR SYSTEM	389	514	515	772	874	518	499	572	666	767	694	619	590	681	609	543	709	753	761	735	716	665	642	682	620	622	633	581	614
COQUITLAM SYSTEM	101	137	162	248	382	481	567	589	621	851	789	608	693	705	654	732	636	530	554	587	608	751	601	650	818	782	652	811	709
TOTAL SYSTEM	920	1182	1232	1795	1958	1532	1474	1512	1609	1802	1740	1700	1741	1625	1585	1752	1644	1421	1474	1492	1526	1613	1456	1515	1599	1408	1442	1636	1513

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

JURISDICTION	1970	1975	1980	1985	1990	1995	2000	2001	2002*	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
BURNABY	184	195		210	211	179	152	170	189	201	193	169	157	176	159	171	177	149	173	165	168	175	128	136	131	137	132	170	132
COQUITLAM	31	53		74	100	N/A	58	62	90	124	85	102	98	115	122	95	93	84	84	90	95	83	73	88	121	79	138	115	128
DELTA	45	85		135	153	138	117	135	135	155	142	130	144	133	124	144	126	88	113	116	117	122	107	106	113	102	115	126	109
LANGLEY CITY				16	17	16	15	16	15	17	18	16	18	16	17	16	13	14	15	15	15	14	13	14	12	13	17	15	
LANGLEY TOWNSHIP					14	24	25	39	28	31	33	37	35	45	33	42	46	32	33	34	44	47	34	54	56	47	56	63	57
MAPLE RIDGE	20	21		40	53	51	44	52	53	67	62	63	73	63	63	69	57	41	50	55	50	60	50	53	55	44	53	62	51
NEW WESTMINSTER	55	68		77	81	46	40	47	41	42	47	39	42	38	34	36	37	40	39	37	29	36	36	38	48	30	47	33	62
NORTH VAN. CITY				45	35	39	40	39	38	41	27	37	32	28	27	36	26	27	35	33	31	31	30	36	34	32	32	39	36
NORTH VAN. DIST.	30			99	120	88	71	75	86	91	74	87	89	76	75	96	79	75	76	81	74	85	76	81	88	74	76	79	78
PITT MEADOWS	6	7		17	23	19	17	20	16	28	24	31	34	21	18	27	24	18	23	19	20	31	23	19	20	19	19	26	28
PORT COQUITLAM	21	23		37	40	43	34	39	41	57	52	37	51	52	47	41	47	33	34	36	37	42	37	38	46	34	35	60	41
PORT MOODY				29	26	24	19	21	26	25	24	21	26	25	23	25	22	18	21	18	21	24	18	19	22	19	21	22	18
RICHMOND	80	97		158	165	163	149	173	161	171	164	151	164	157	149	172	143	121	146	133	142	135	127	133	143	126	123	130	117
SURREY	63	75		228	219	282	265	276	285	361	315	315	357	324	295	353	288	253	273	285	274	296	264	241	268	249	269	307	277
TFN																						0.4	N/A	1.1	2.0	2.0	2.2	2.5	2.2
UEL	20			29	34	31	24	29	22	26	28	24	20	19	19	23	20	19	19	19	21	19	17	19	20	18	17	21	19
VANCOUVER	614	555		607	623	503	451	438	493	519	489	484	489	419	430	470	449	374	405	386	415	497	403	427	452	396	381	402	371
WEST VANCOUVER	55	48		61	51	49	41	42	48	51	46	42	36	30	30	40	27	22	26	24	32	37	29	29	32	31	23	25	25
CAPILANO SYSTEM	636	718		900	889	742	439	578	685	613	663	548	613	626	529	623	583	406	522	537	583	595	699	740	622	601	492	447	451
SEYMOUR SYSTEM	455	486		682	706	554	552	567	529	451	389	588	595	631	602	622	637	650	449	398	374	325	177	238	221	318	304	607	304
COQUITLAM SYSTEM	123	143		286	405	495	533	555	632	894	828	651	679	625	604	749	583	475	690	635	680	788	652	632	867	613	808	773	864
TOTAL SYSTEM	1237	1380	1359	1891	2001	1790	1523	1700	1788	1956	1872	1800	1892	1817	1683	1996	1769	1499	1608	1528	1608	1653	1492	1550	1684	1480	1595	1750	1569
RESERVOIRS**	23	32		45	25	58	-15	2	-58	-2	-8	14	5	-65	-52	2	-34	-33	-53	-42	-29	-56	-36	-59	-26	-52	-9	-77	-50

*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.
2. Starting in 2015, Peak Day data for TFN are available. 2016 Peak Day data is not available.

GREATER VANCOUVER WATER DISTRICT ANNUAL PEAK HOUR FLOWS

[ML/d]

JURISDICTION	1970	1975	1980	1985	1990	1995	2000	2001†	2002*	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
BURNABY	283	280		338	318	348	218	295	304	353	313	280	268	250	248	285	269	220	219	256	214	234	184	174	165	209	167	228	151
COQUITLAM	52	79		126	151	N/A	146	161	137	190	164	185	182	176	191	182	162	111	135	127	109	109	102	117	157	116	183	148	163
DELTA	63	113		195	251	217	187	188	206	242	246	221	230	202	204	237	200	111	143	142	141	150	142	147	155	133	150	152	132
LANGLEY CITY			20	25	23	29	22	21	23	23	21	21	23	22	20	22	21	20	21	18	22	18	25	18	18	18	19	22	19
LANGLEY TOWNSHIP					14	37	38	58	50	36	44	58	63	62	56	72	71	44	47	45	56	60	44	67	88	63	72	84	79
MAPLE RIDGE	34	35	43	59	86	97	75	99	101	134	126	118	141	103	115	135	102	67	82	89	72	86	78	76	81	61	82	76	72
NEW WESTMINSTER	85	86		116	120	99	69	91	85	82	113	73	84	60	66	73	76	89	59	76	55	56	49	75	88	71	77	62	102
NORTH VAN. CITY				95	59	87	61	60	60	92	81	56	55	48	42	68	41	36	46	45	41	43	42	49	49	44	44	48	47
NORTH VAN. DIST.	42			150	158	161	116	119	130	132	112	132	144	115	118	152	109	105	100	113	102	134	124	130	137	130	122	111	106
PITT MEADOWS	10	14		25	33	42	31	33	32	46	43	42	44	32	30	48	38	24	31	25	26	38	27	25	24	24	25	30	34
PORT COQUITLAM	31	38		56	71	87	62	62	66	98	76	63	87	77	80	59	73	46	39	46	51	57	51	51	61	46	51	78	55
PORT MOODY	32	33		38	37	37	28	28	32	40	30	28	37	30	27	41	35	27	30	25	34	35	29	28	29	36	38	36	29
RICHMOND	110	131		217	238	293	227	263	232	247	239	224	249	212	219	243	211	154	180	166	174	163	148	158	174	155	148	161	151
SURREY	104	103		396	391	542	447	477	489	618	570	542	582	479	479	581	485	370	393	399	369	385	349	343	370	332	363	424	366
TFN																						0.5	N/A	1.9	2.8	2.7	2.8	3.5	2.9
UEL	25	38		34	43	38	28	40	28	31	34	28	25	27	23	27	30	27	25	24	33	33	23	28	29	32	26	26	24
VANCOUVER	1031	934		923	902	823	632	661	700	860	735	720	725	591	626	733	670	499	534	510	558	629	622	584	664	542	491	502	475
WEST VANCOUVER	82	68		79	67	71	64	65	68	81	72	60	55	50	56	68	58	48	53	49	64	62	59	67	62	71	47	43	40
CAPILANO SYSTEM	793	873	755	955	1262	1289	645	900	811	752	773	601	680	682	624	714	711	509	605	619	668	689	831	890	708	704	577	574	585
SEYMOUR SYSTEM	534	532	605	768	1074	990	900	850	636	679	464	620	658	657	660	689	639	652	452	401	379	476	179	287	248	319	306	615	328
COQUITLAM SYSTEM	157	175	195	309	610	782	860	920	766	949	881	790	723	672	815	831	689	553	771	744	813	847	758	896	902	818	920	922	928
TOTAL SYSTEM	2064	2112		2872	2938	3062	2356	2648	2671	2344	2962	2858	2985	2507	2563	3116	2629	1846	2044	1954	2035	2257	2088	2115	2166	1835	2057	2064	1853
RESERVOIRS	580	532		850	683	918	476	626	618	287	868	874	956	550	508	894	730	345	455	375	367	248	352	310	353	319	311	265	226

*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.

2. Starting in 2015, Peak Hour data for TFN are available. 2016 Peak Hour data is not available.

**GREATER VANCOUVER WATER DISTRICT
PEAK HOUR TO ANNUAL AVERAGE RATIOS**

JURISDICTION	1970	1975	1980	1985	1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
BURNABY	3.8	3.7		3.3	2.8	3.1	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	2.0	2.1	1.7	1.6	1.5	2.0	1.6	2.1	1.4
COQUITLAM	3.5	3.2		2.8	3.6	N/A	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	2.2	2.3	2.1	2.1	2.9	2.1	3.4	2.5	2.9
DELTA	3.0	2.6		2.9	2.9	2.9	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	2.2	2.3	2.2	2.3	2.4	2.0	2.3	2.1	2.1
LANGLEY CITY			2.7	3.0	2.4	2.8	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	2.0	1.7	2.4	1.7	1.8	1.9	2.0	2.1	1.8
LANGLEY TOWNSHIP					7.7	2.4	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	3.3	3.1	2.2	2.9	3.6	2.4	2.4	2.5	2.2
MAPLE RIDGE	3.9	3.2	3.4	3.4	3.6	3.7	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	2.3	2.7	2.5	2.3	2.5	2.0	2.6	2.3	2.2
NEW WESTMINSTER	2.7	2.8		2.8	2.8	2.8	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	2.3	2.3	2.1	3.2	3.7	3.1	3.4	2.7	4.3
NORTH VAN. CITY				4.3	2.3	3.2	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	1.8	1.9	1.7	1.9	2.0	1.8	1.9	1.9	1.8
NORTH VAN. DIST.	1.2			2.6	2.6	3.3	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	2.0	2.6	2.4	2.4	2.5	2.4	2.4	2.2	2.1
PITT MEADOWS	4.4	4.3		3.3	3.2	4.9	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	2.9	4.2	3.1	2.4	2.4	2.5	3.0	2.8	2.8
PORT COQUITLAM	3.8	3.5		3.1	3.6	3.7	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	2.1	2.3	2.1	2.0	2.3	1.8	2.0	2.7	2.0
PORT MOODY	2.6	2.1		1.8	2.2	2.7	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	2.5	2.6	2.3	2.1	2.2	2.6	2.7	2.7	2.2
RICHMOND	2.7	2.4		2.8	2.6	2.9	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	1.8	1.7	1.6	1.6	1.8	1.6	1.6	1.7	1.6
SURREY	3.3	2.2		4.2	3.4	3.7	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	2.0	2.2	1.9	1.9	2.0	1.8	2.0	2.2	1.9
TFN																						1.9	N/A	3.6	3.5	3.0	2.8	2.9	2.2
UEL	2.2	2.4		2.0	2.2	1.9	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	2.4	2.4	1.7	2.2	2.2	2.5	2.1	2.0	2.0
VANCOUVER	3.8	3.2		2.8	2.5	2.5	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	1.7	1.8	2.0	2.0	1.9	2.2	1.8	1.7	1.7	1.6
WEST VANCOUVER	4.2	3.2		2.9	2.7	2.5	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	4.5	3.5	3.7	4.1	4.1	5.2	4.3	3.5	2.9
CAPILANO SYSTEM	2.9	2.7	2.3	2.4	2.9	3.4	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	4.3	2.5	2.6	2.8	2.4	2.4	2.3	2.2	1.8
SEYMOUR SYSTEM	2.2	1.9	1.8	1.8	2.5	2.5	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	0.7	1.2	0.4	0.7	0.6	0.8	0.7	1.5	0.9
COQUITLAM SYSTEM	2.2	2.1	2.0	2.3	3.0	2.6	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	2.2	2.1	2.1	2.5	2.2	2.0	2.6	2.3	2.5
TOTAL SYSTEM	3.5	3.1		3.0	2.7	2.8	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	1.9	2.1	1.9	1.9	2.0	1.7	1.9	1.9	1.7

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

2. Starting in 2015, Peak Hour data for TFN are available. 2016 Peak Hour data is not available.

GREATER VANCOUVER WATER DISTRICT PEAK DAY TO ANNUAL AVERAGE RATIOS

JURISDICTION	1970	1975	1980	1985	1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
BURNABY	2.5	2.6		2.1	1.9	1.6	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	1.5	1.6	1.2	1.2	1.2	1.3	1.3	1.6	1.2
COQUITLAM	2.1	2.2		1.6	2.4	N/A	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	1.9	1.7	1.5	1.6	2.2	1.5	2.5	1.9	2.3
DELTA	2.1	2.0		2.0	1.8	1.9	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	1.8	1.9	1.6	1.6	1.8	1.6	1.8	1.8	1.7
LANGLEY CITY				1.9	1.7	1.6	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	1.3	1.4	1.4	1.3	1.4	1.3	1.3	1.6	1.4
LANGLEY TOWNSHIP					7.3	1.6	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	2.6	2.5	1.7	2.3	2.3	1.8	1.9	1.9	1.6
MAPLE RIDGE	2.3	1.9		2.3	2.2	1.9	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	1.6	1.8	1.6	1.6	1.7	1.4	1.7	1.9	1.6
NEW WESTMINSTER	1.8	2.2		1.9	1.9	1.3	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	1.2	1.5	1.5	1.6	2.0	1.3	2.1	1.5	2.6
NORTH VAN. CITY				2.0	1.4	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	1.3	1.3	1.2	1.4	1.4	1.3	1.4	1.6	1.4
NORTH VAN. DIST.	0.8			1.7	2.0	1.8	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	1.5	1.6	1.5	1.5	1.6	1.4	1.5	1.5	1.5
PITT MEADOWS	2.6	2.3		2.4	2.2	2.2	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	2.2	3.4	2.6	1.8	2.0	2.0	2.3	2.4	2.3
PORT COQUITLAM	2.6	2.1		2.1	2.0	1.8	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	1.5	1.7	1.5	1.5	1.7	1.3	1.4	2.1	1.5
PORT MOODY				1.3	1.6	1.8	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	1.6	1.7	1.4	1.4	1.6	1.4	1.5	1.6	1.4
RICHMOND	2.0	1.8		2.0	1.8	1.6	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	1.4	1.4	1.3	1.4	1.5	1.3	1.4	1.4	1.3
SURREY	2.0	1.6		2.4	1.9	1.9	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	1.5	1.7	1.4	1.3	1.5	1.4	1.5	1.6	1.5
TFN																						1.4	N/A	2.1	2.5	2.2	2.1	2.1	1.7
UEL	1.8			1.6	1.8	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	1.5	1.4	1.2	1.5	1.5	1.4	1.4	1.6	1.6
VANCOUVER	2.3	1.9		1.9	1.7	1.5	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	1.3	1.3	1.6	1.3	1.4	1.5	1.3	1.3	1.4	1.3
WEST VANCOUVER	2.8	2.2		2.3	2.1	1.7	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	2.3	2.1	1.8	1.8	2.1	2.2	2.1	2.0	1.8
CAPILANO SYSTEM	2.3	2.2		2.2	2.1	2.0	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	3.8	2.2	2.2	2.3	2.1	2.1	2.0	1.7	1.4
SEYMOUR SYSTEM	1.9	1.7		1.6	1.6	1.4	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	0.7	0.8	0.4	0.6	0.6	0.8	0.7	1.4	0.8
COQUITLAM SYSTEM	1.7	1.7		2.1	2.0	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	1.9	2.0	1.8	1.8	2.2	1.5	2.3	1.9	2.3
TOTAL SYSTEM	2.1	2.0	1.8	2.0	1.9	1.7	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	1.5	1.5	1.4	1.4	1.5	1.4	1.5	1.6	1.4

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

2. Starting in 2015, Peak Day data for TFN are available. 2016 Peak Day data is not available.

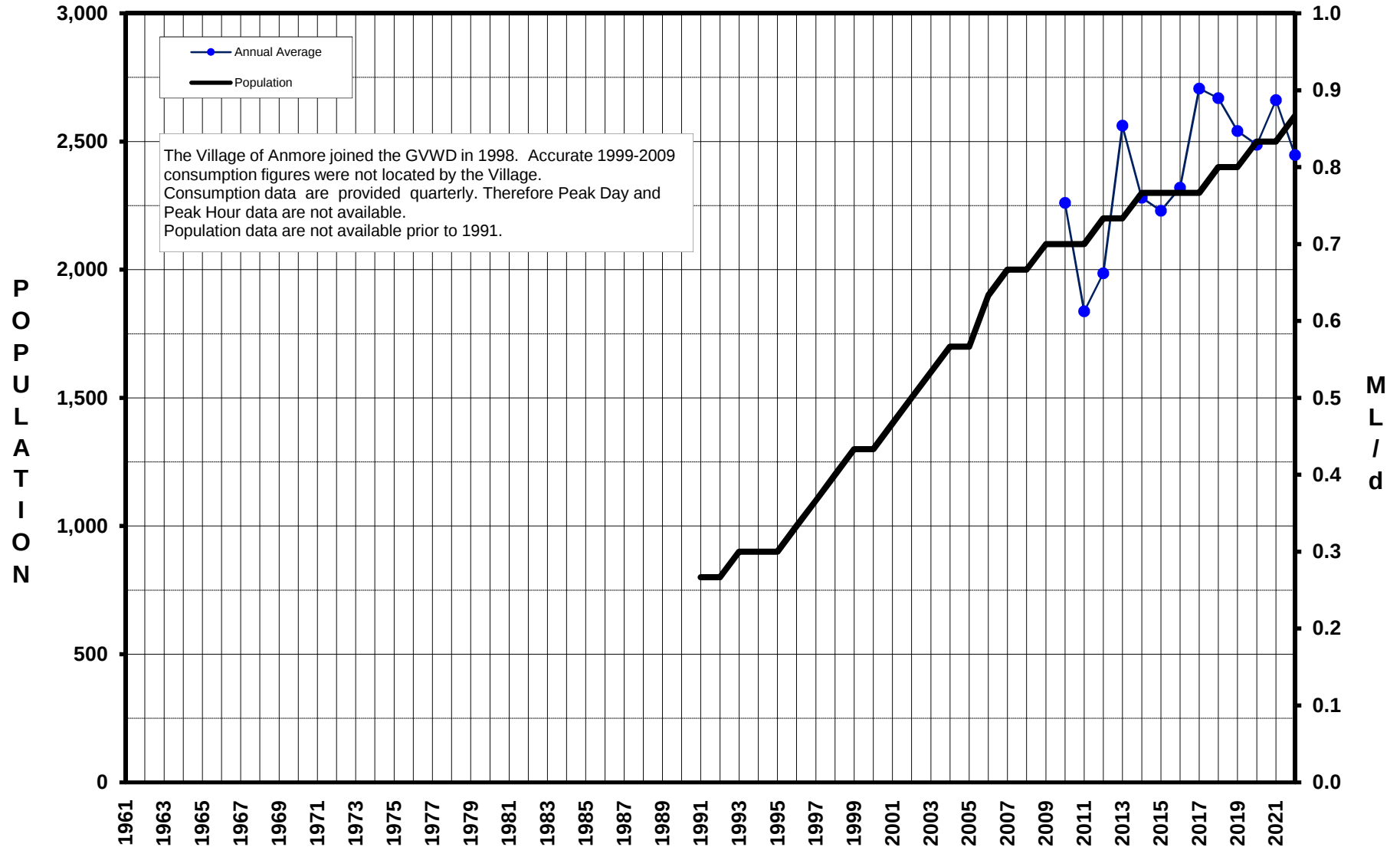
GREATER VANCOUVER WATER DISTRICT PEAK HOUR TO PEAK DAY RATIOS

JURISDICTION	1970	1975	1980	1985	1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
BURNABY	1.5	1.4		1.6	1.5	1.9	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	1.3	1.3	1.4	1.3	1.3	1.5	1.3	1.3	1.1
COQUITLAM	1.7	1.5		1.7	1.5	N/A	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	1.2	1.3	1.4	1.3	1.3	1.5	1.3	1.3	1.3
DELTA	1.4	1.3		1.4	1.6	1.6	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	1.2	1.2	1.3	1.4	1.4	1.3	1.3	1.2	1.2
LANGLEY CITY				1.6	1.4	1.8	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	1.5	1.2	1.8	1.3	1.3	1.4	1.5	1.3	1.3
LANGLEY TOWNSHIP					1.1	1.6	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	1.3	1.3	1.3	1.2	1.6	1.3	1.3	1.3	1.4
MAPLE RIDGE	1.7	1.7		1.5	1.6	1.9	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	1.4	1.4	1.6	1.4	1.5	1.4	1.5	1.2	1.4
NEW WESTMINSTER	1.5	1.3		1.5	1.5	2.2	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	1.9	1.5	1.3	2.0	1.8	2.3	1.7	1.9	1.6
NORTH VAN. CITY				2.1	1.7	2.2	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	1.3	1.4	1.4	1.3	1.4	1.4	1.4	1.2	1.3
NORTH VAN. DIST.	1.4			1.5	1.3	1.8	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	1.4	1.6	1.6	1.6	1.6	1.7	1.6	1.4	1.4
PITT MEADOWS	1.7	1.9		1.4	1.4	2.2	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	1.3	1.2	1.2	1.3	1.2	1.3	1.3	1.2	1.2
PORT COQUITLAM	1.5	1.7		1.5	1.8	2.0	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	1.4	1.3	1.4	1.4	1.3	1.4	1.4	1.3	1.3
PORT MOODY				1.3	1.4	1.5	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	1.6	1.5	1.6	1.5	1.3	1.9	1.8	1.6	1.6
RICHMOND	1.4	1.4		1.4	1.4	1.8	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	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.3
SURREY	1.7	1.4		1.7	1.8	1.9	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	1.3	1.3	1.3	1.4	1.4	1.3	1.3	1.4	1.3
TFN																						1.3	N/A	1.7	1.4	1.4	1.3	1.4	1.3
UEL	1.2			1.2	1.2	1.2	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	1.6	1.7	1.4	1.5	1.5	1.7	1.5	1.2	1.3
VANCOUVER	1.7	1.7		1.5	1.4	1.6	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	1.3	1.3	1.5	1.4	1.5	1.4	1.3	1.2	1.3
WEST VANCOUVER	1.5	1.4		1.3	1.3	1.5	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	2.0	1.7	2.0	2.3	1.9	2.3	2.1	1.7	1.6
CAPILANO SYSTEM	1.2	1.2		1.1	1.4	1.7	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	1.1	1.2	1.2	1.1	1.2	1.2	1.2	1.3	1.3
SEYMOUR SYSTEM	1.2	1.1		1.1	1.5	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	1.0	1.5	1.0	1.2	1.1	1.0	1.0	1.0	1.1
COQUITLAM SYSTEM	1.3	1.2		1.1	1.5	1.6	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	1.2	1.1	1.2	1.4	1.0	1.3	1.1	1.2	1.1
TOTAL SYSTEM	1.7	1.5		1.5	1.5	1.7	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	1.3	1.4	1.4	1.4	1.3	1.2	1.3	1.2	1.2

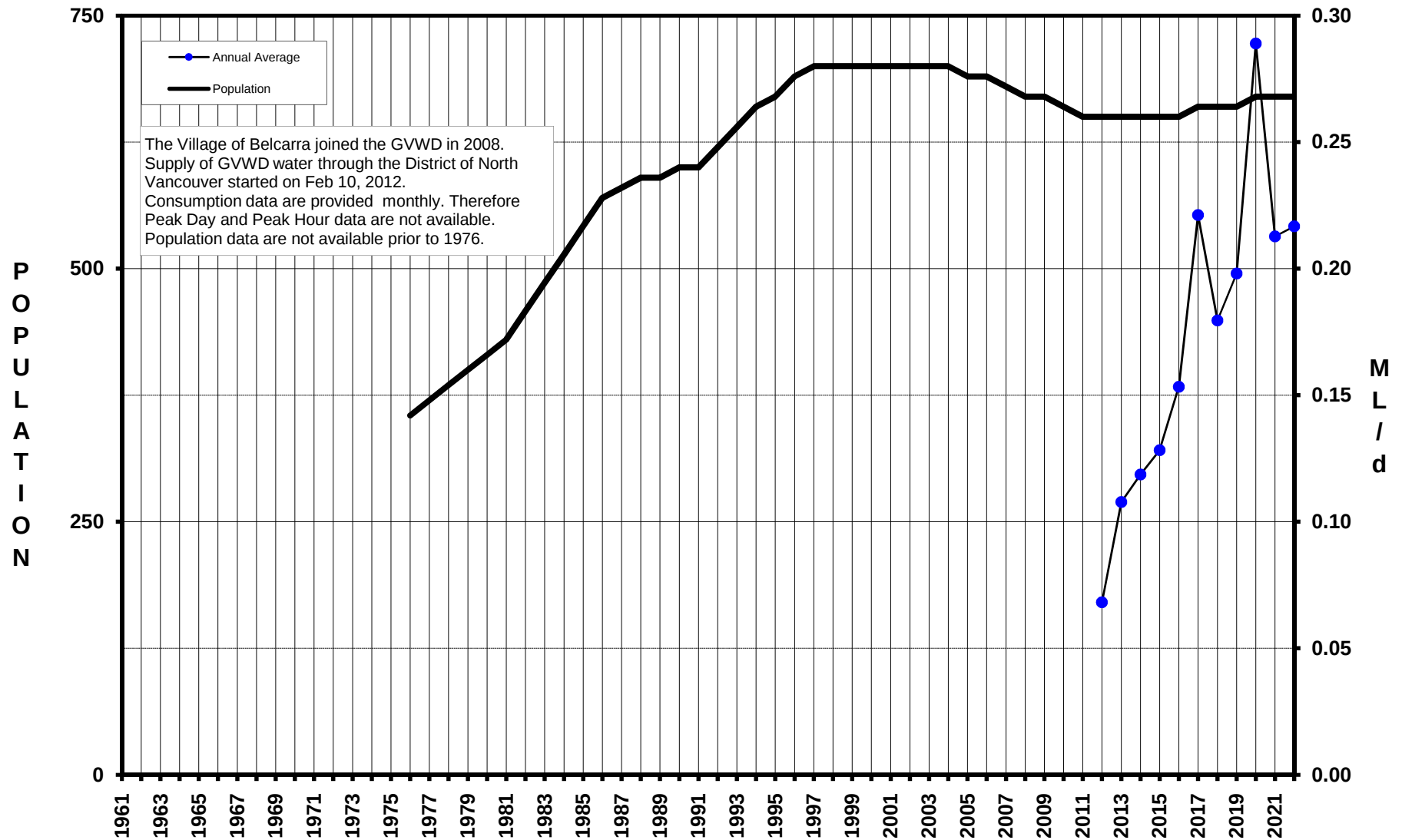
1. Peak Hour and Peak Day data are not available for Anmore and Belcarra.

2. Starting in 2015, Peak Hour and Peak Day data for TFN are available. 2016 Peak Hour and Peak Day data are not available.

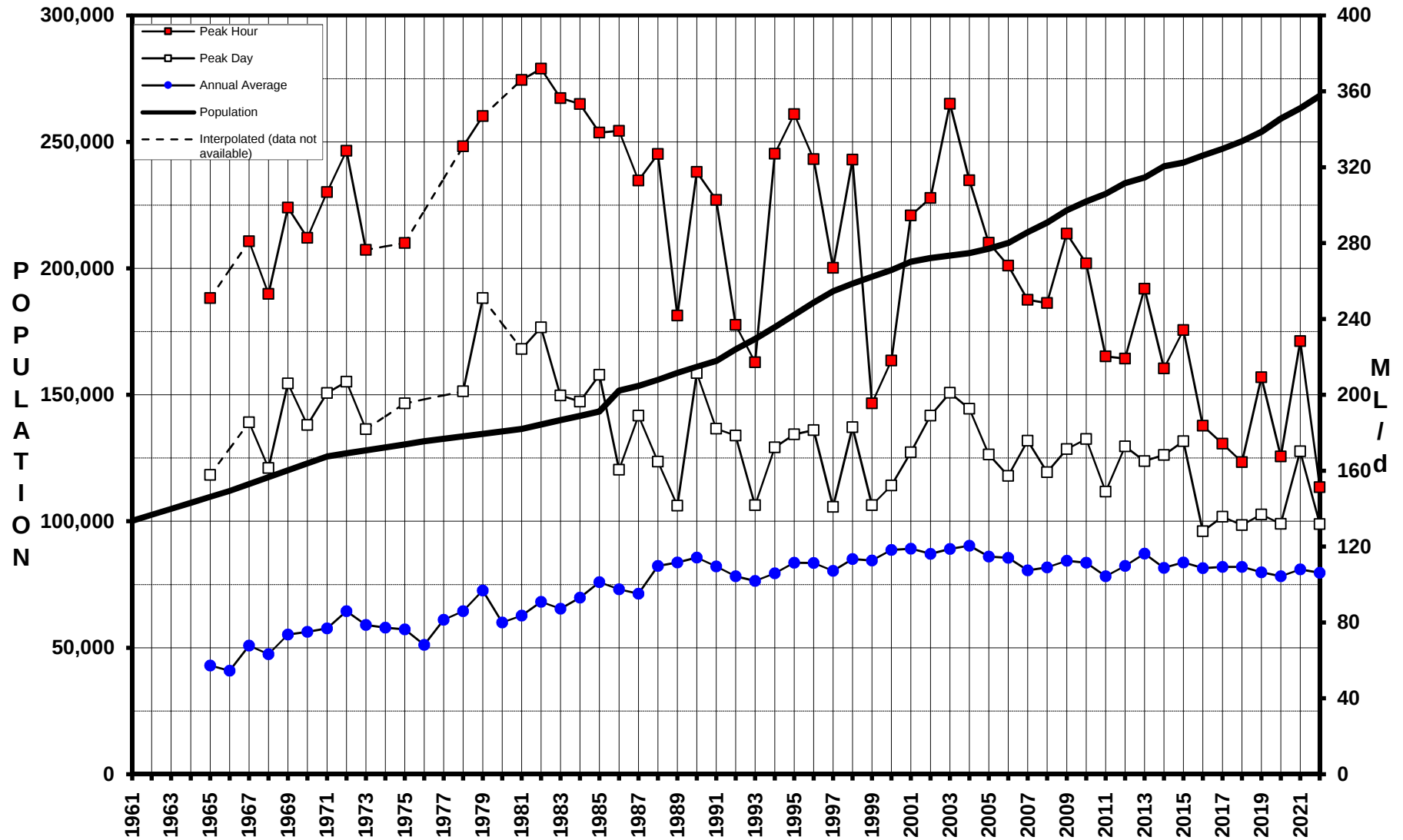
Greater Vancouver Water District Village of Anmore



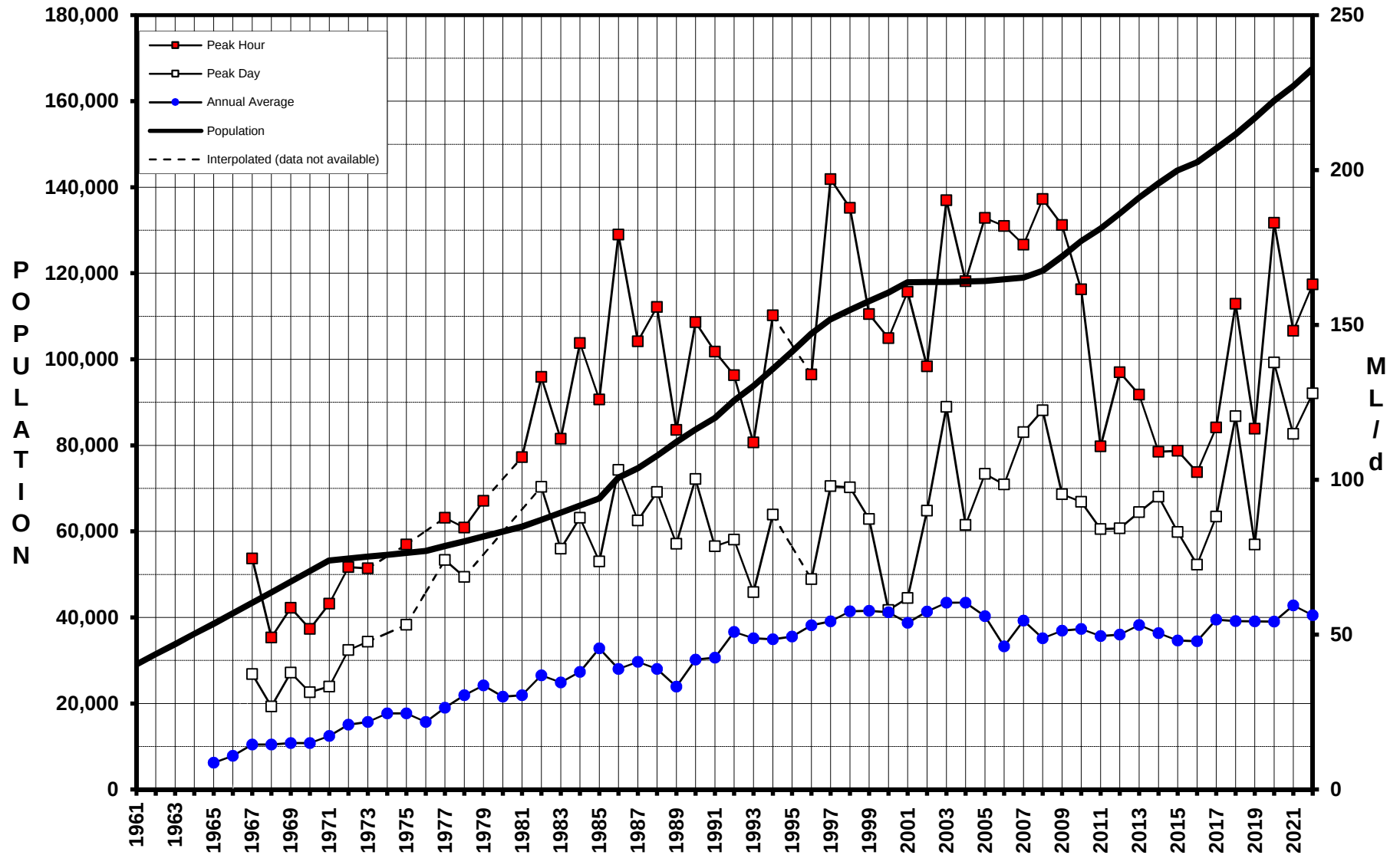
Greater Vancouver Water District Village of Belcarra



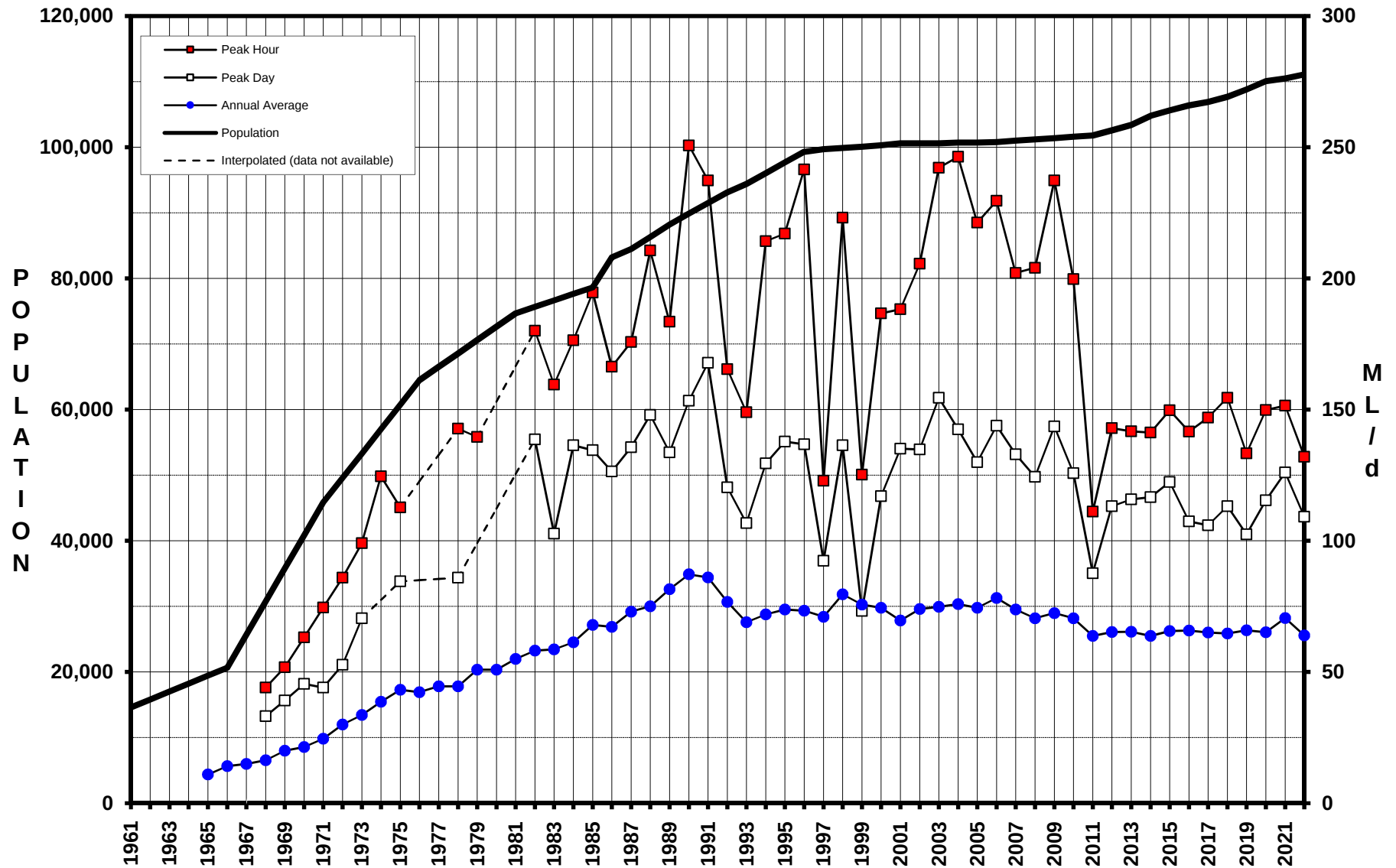
Greater Vancouver Water District City of Burnaby



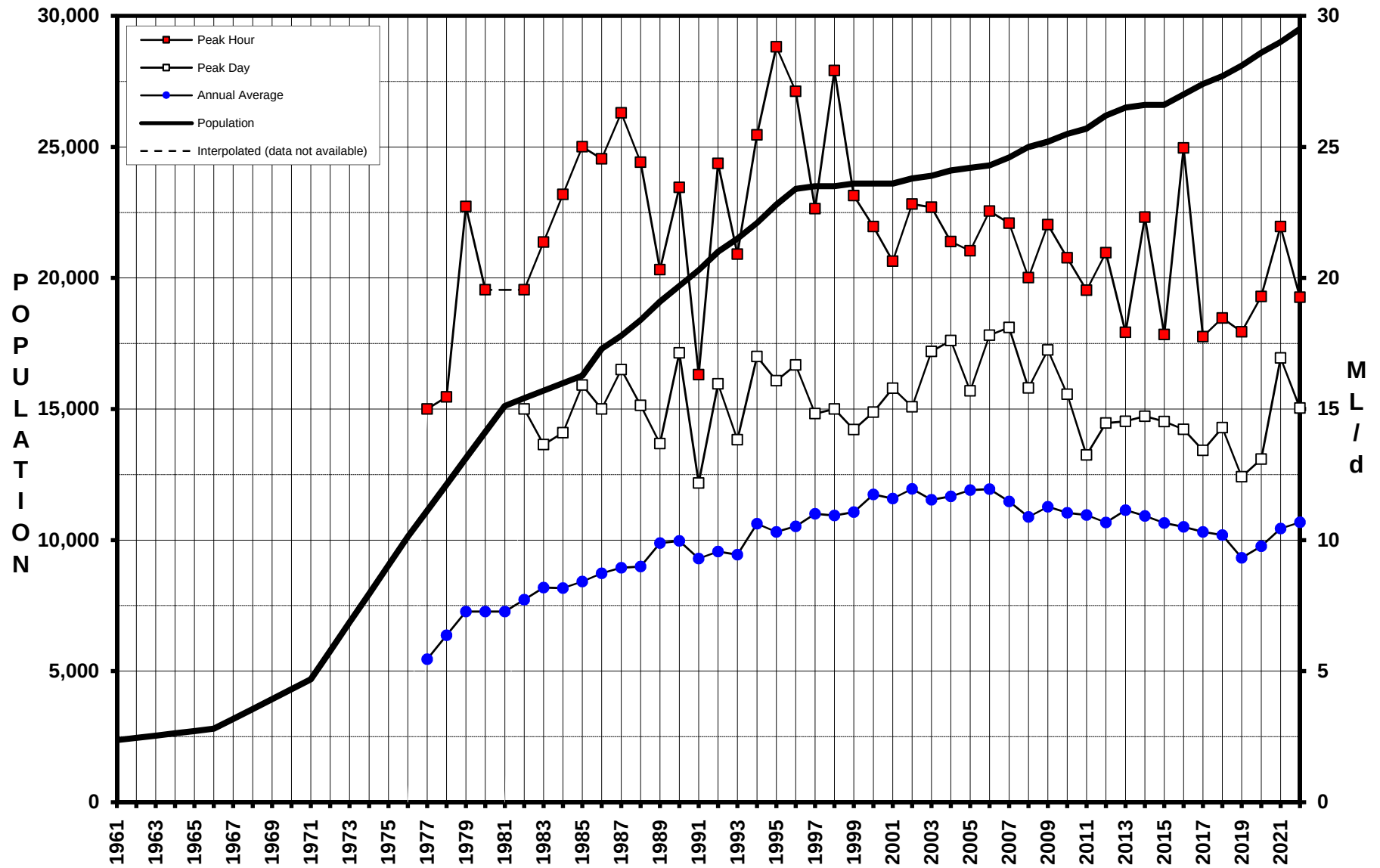
Greater Vancouver Water District City of Coquitlam



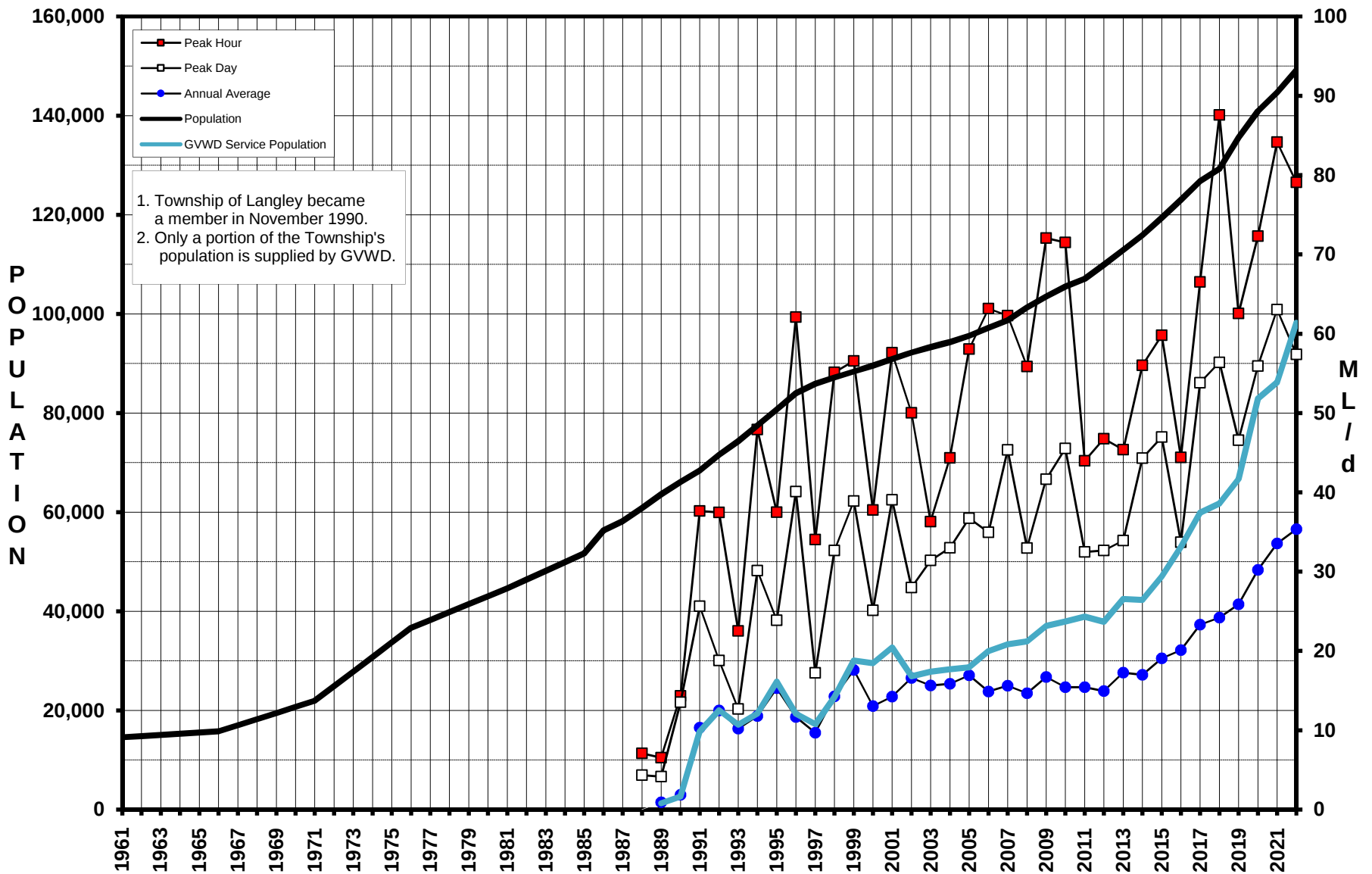
Greater Vancouver Water District City of Delta



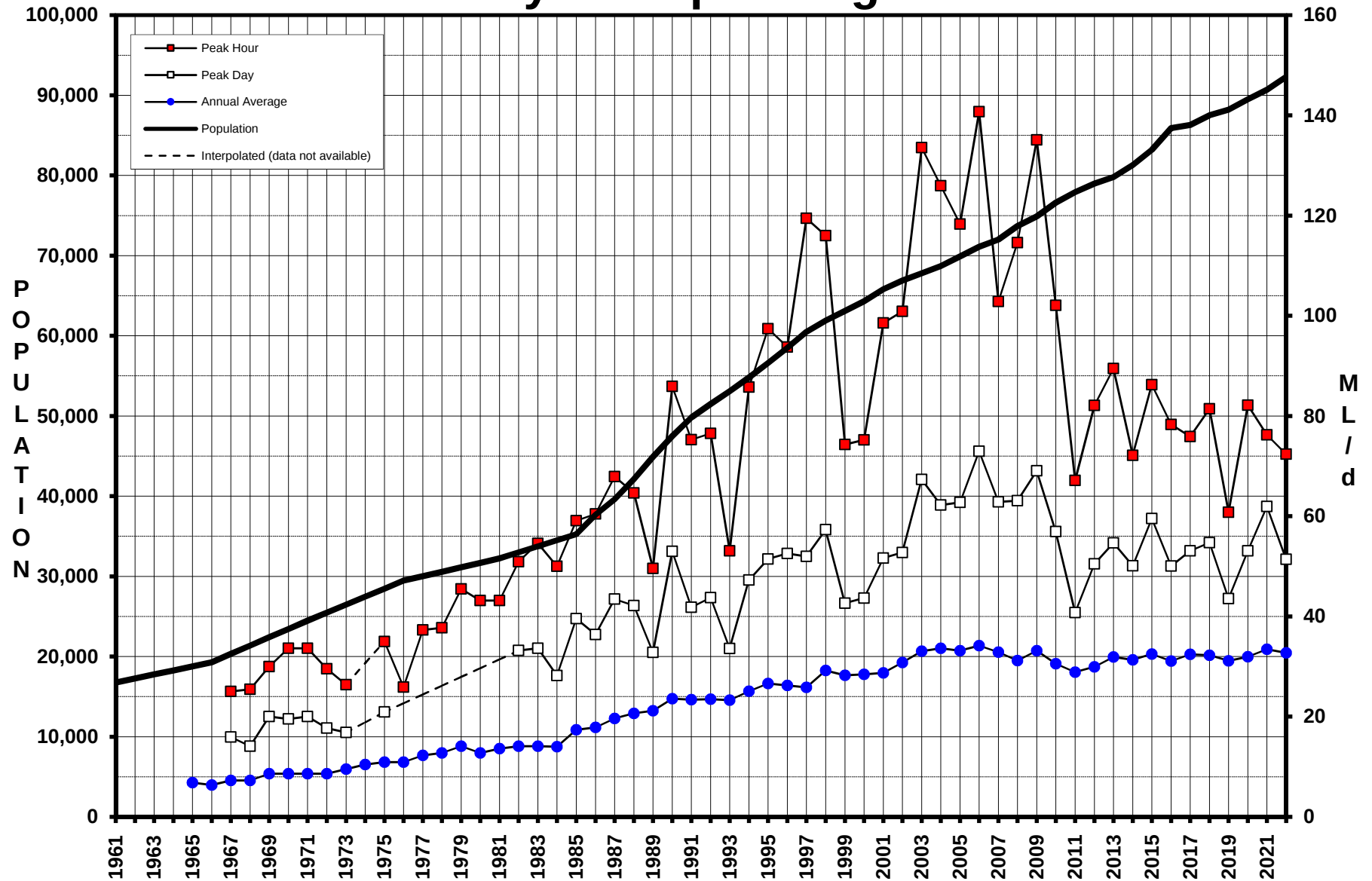
Greater Vancouver Water District City of Langley



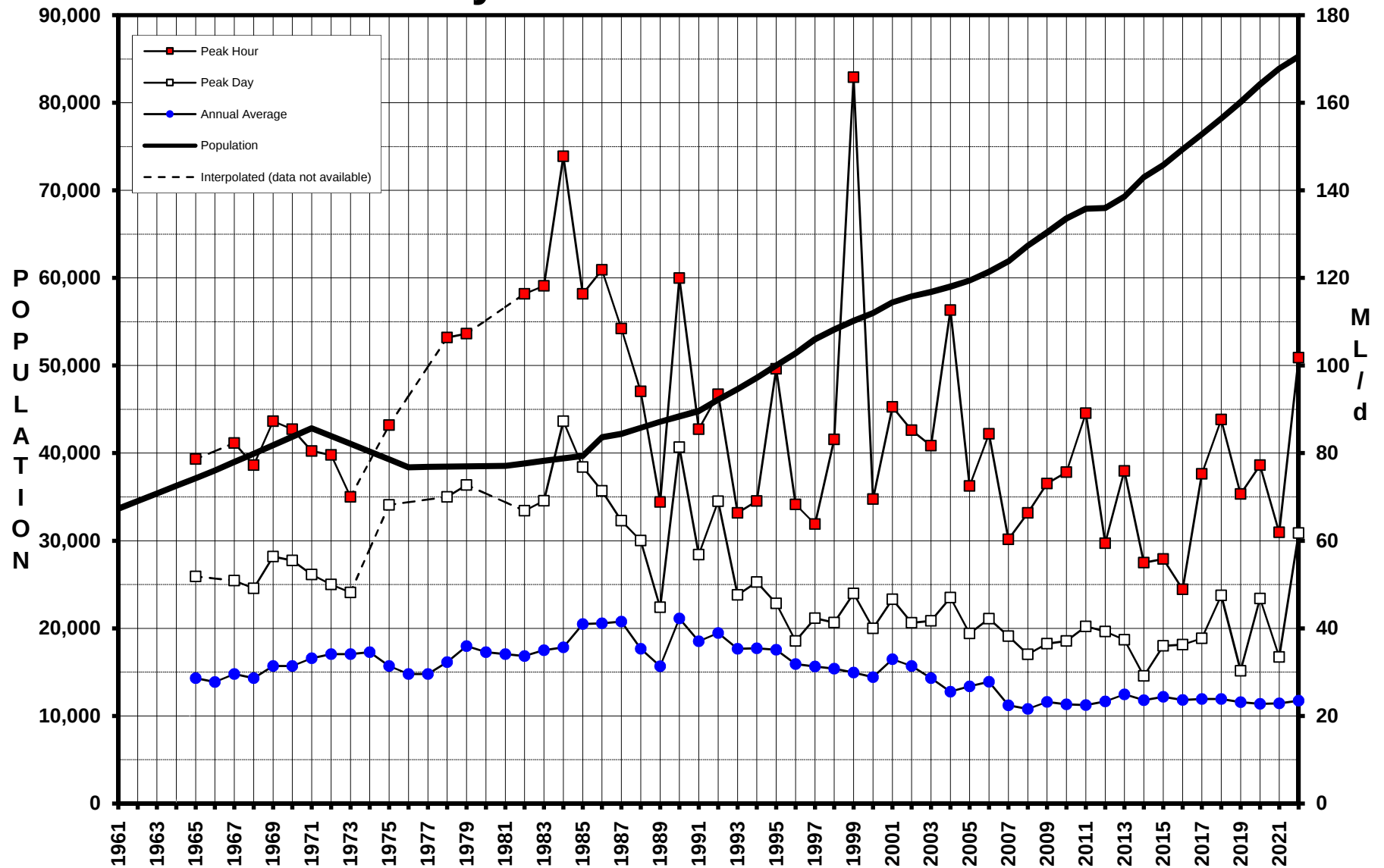
Greater Vancouver Water District Township of Langley



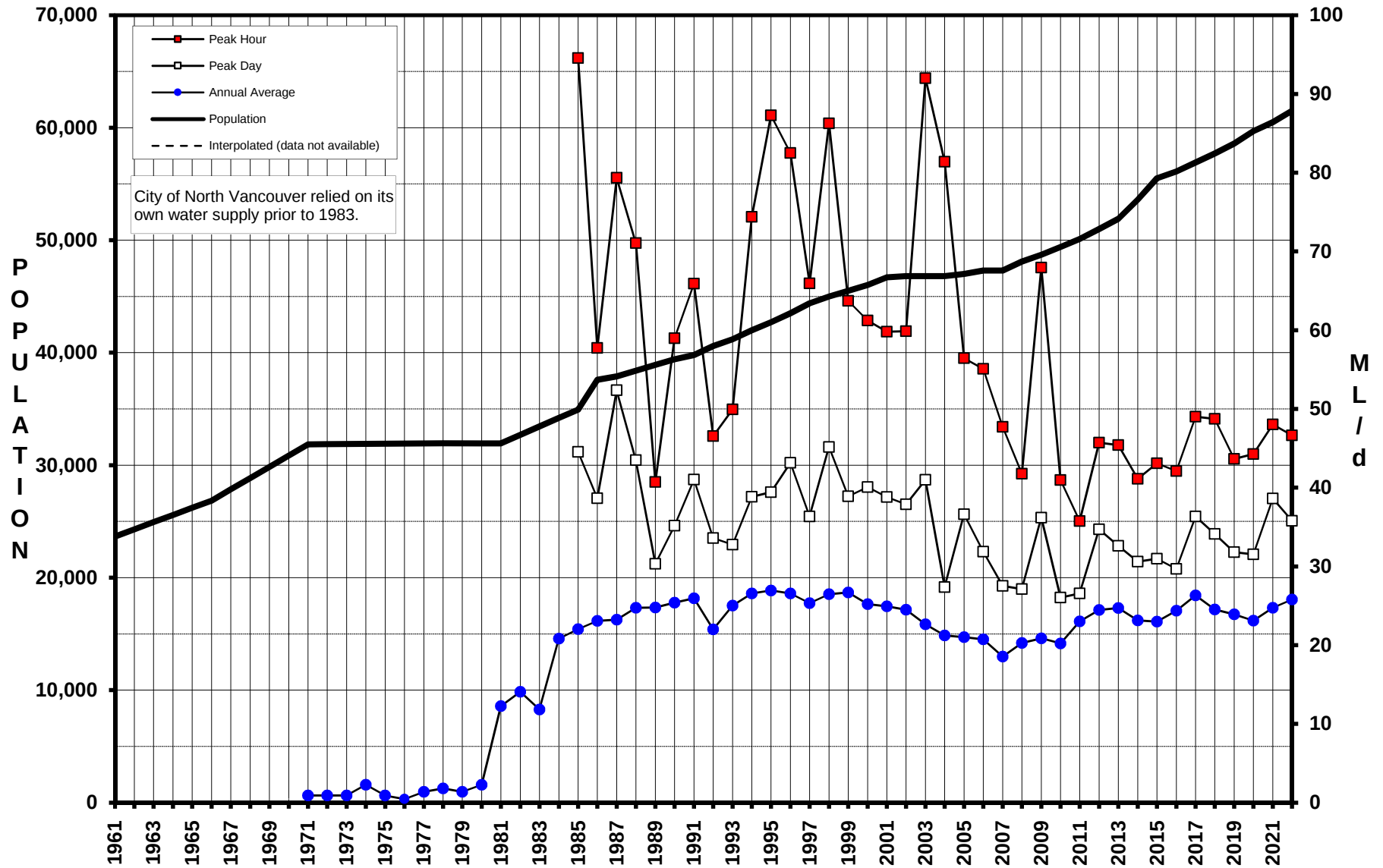
Greater Vancouver Water District City of Maple Ridge



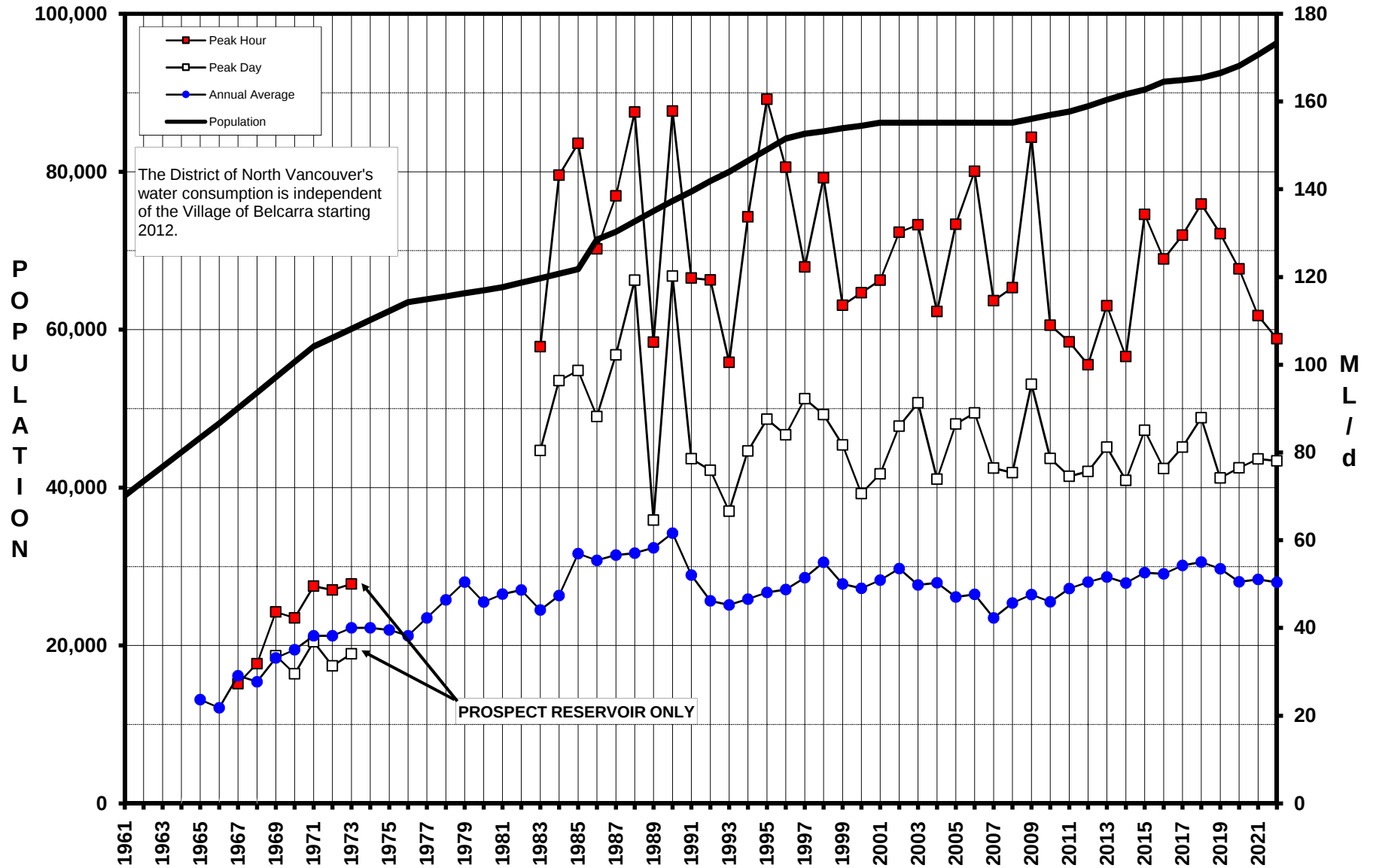
Greater Vancouver Water District City of New Westminster



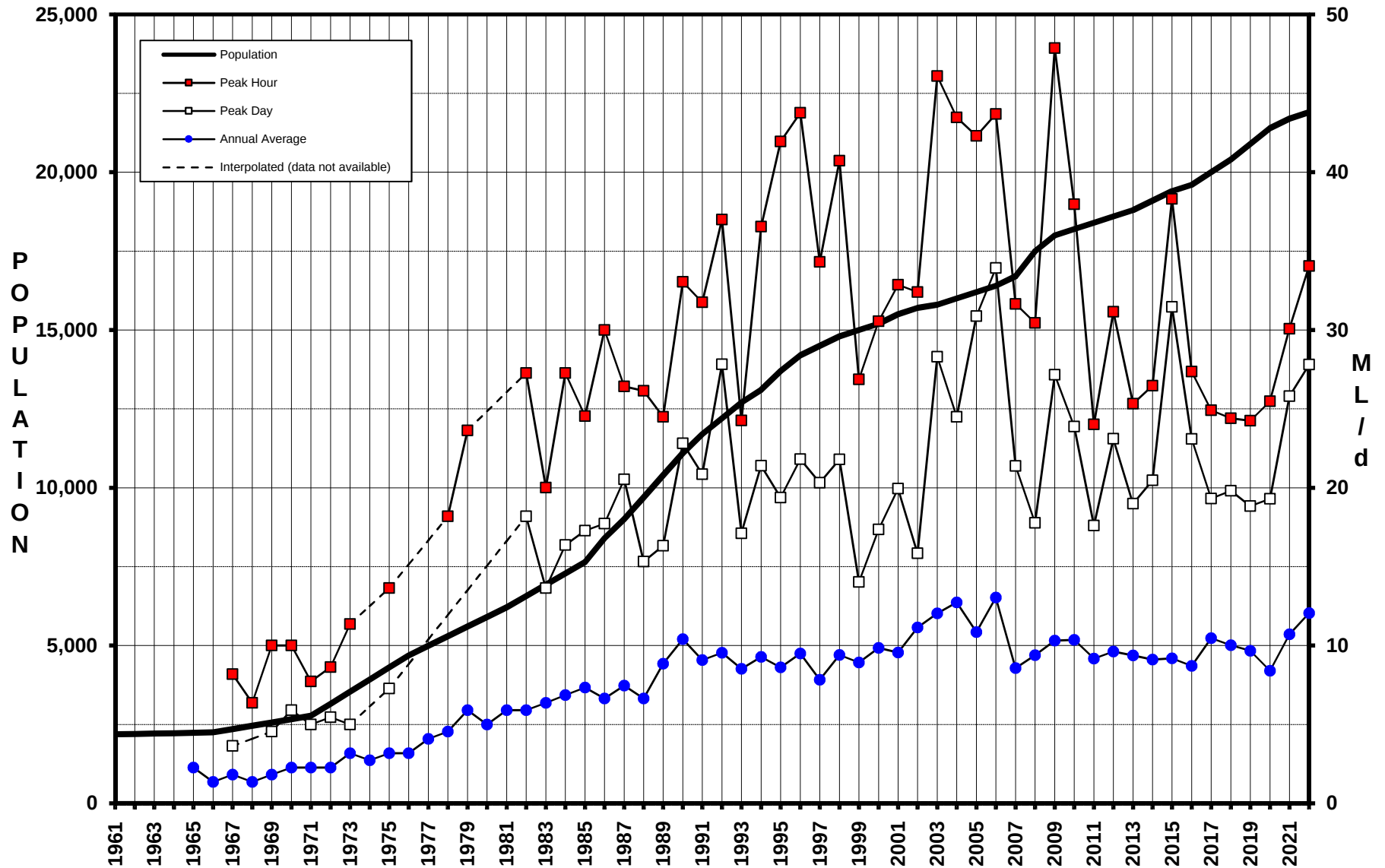
Greater Vancouver Water District City of North Vancouver



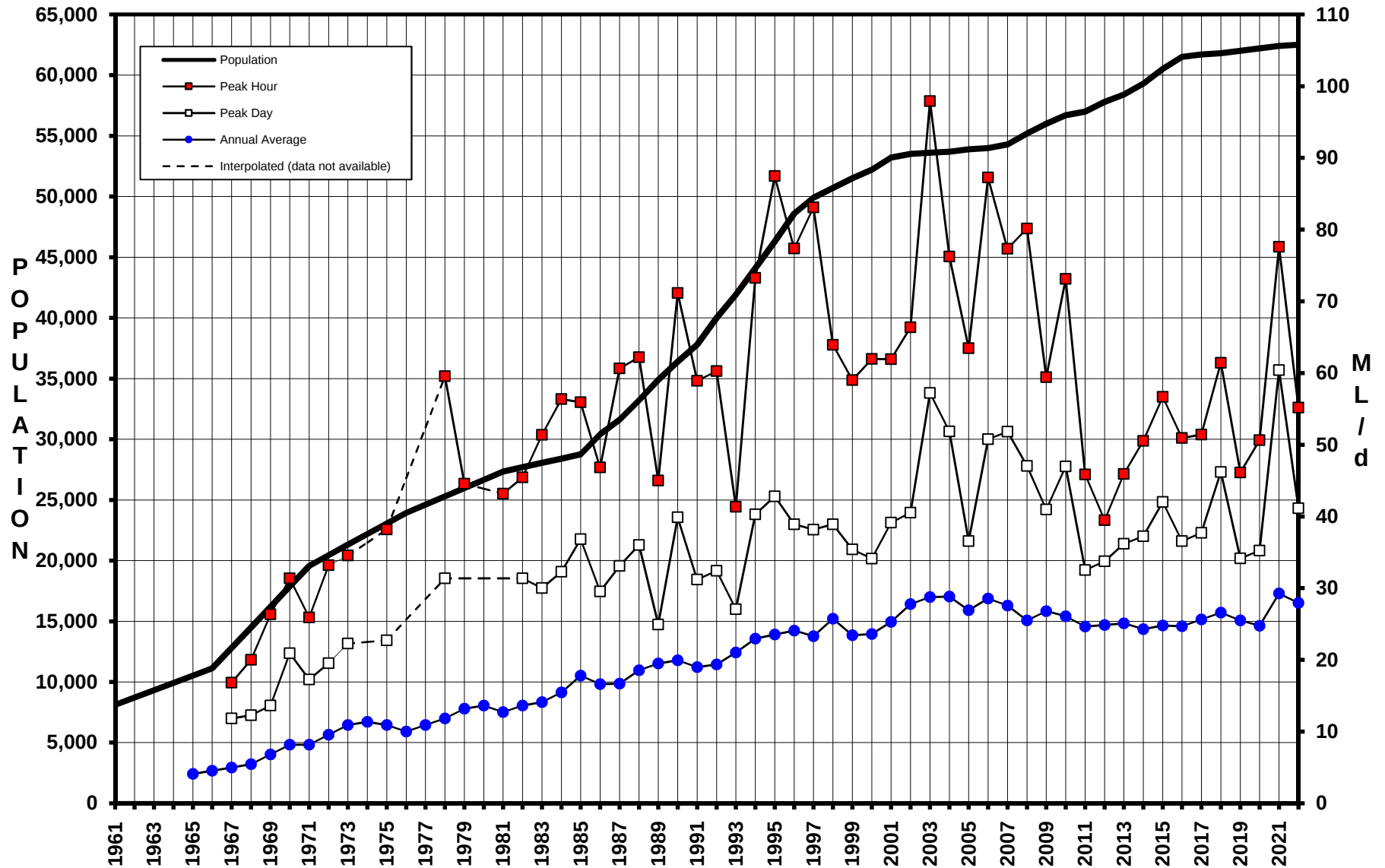
Greater Vancouver Water District District of North Vancouver



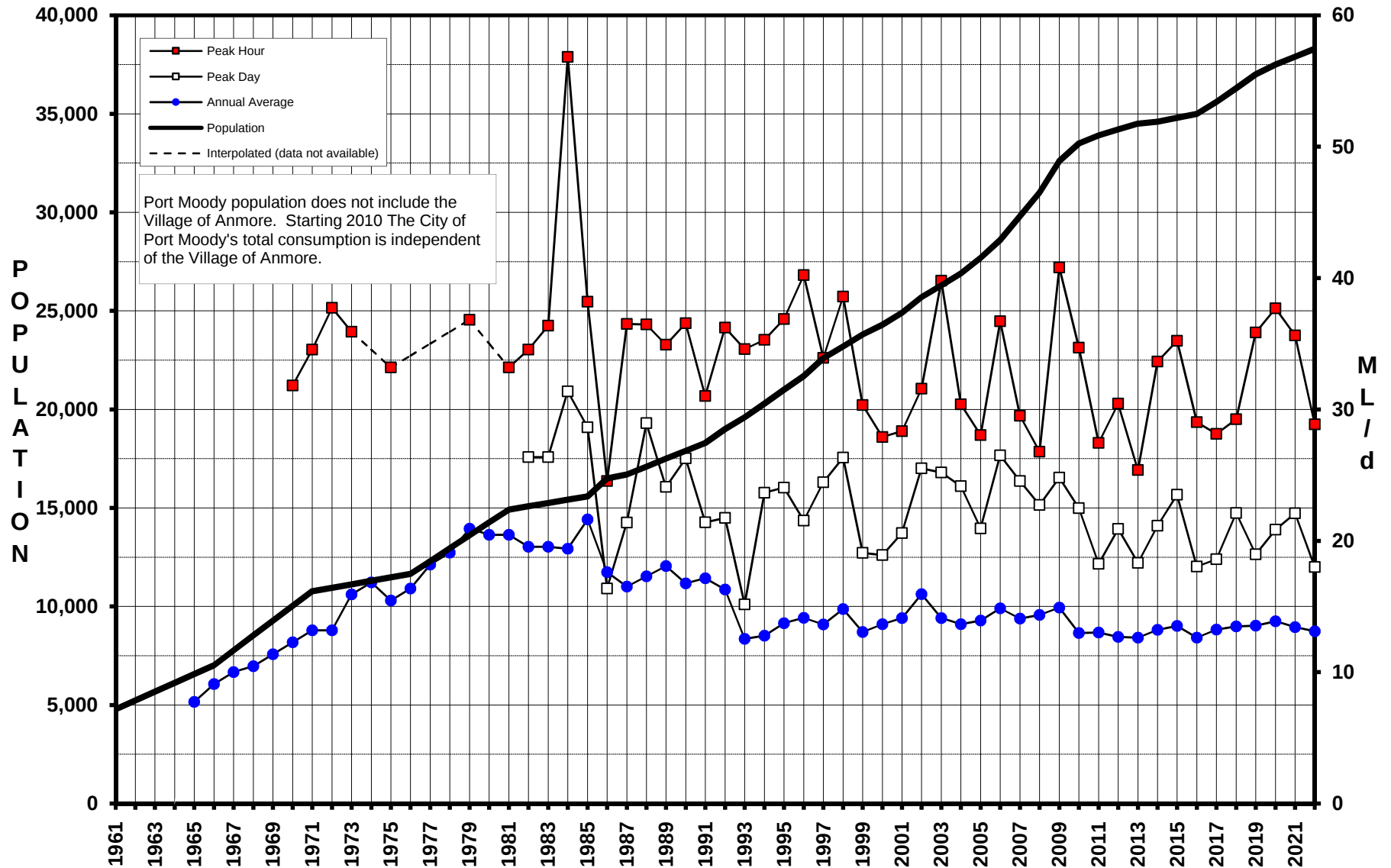
Greater Vancouver Water District City of Pitt Meadows



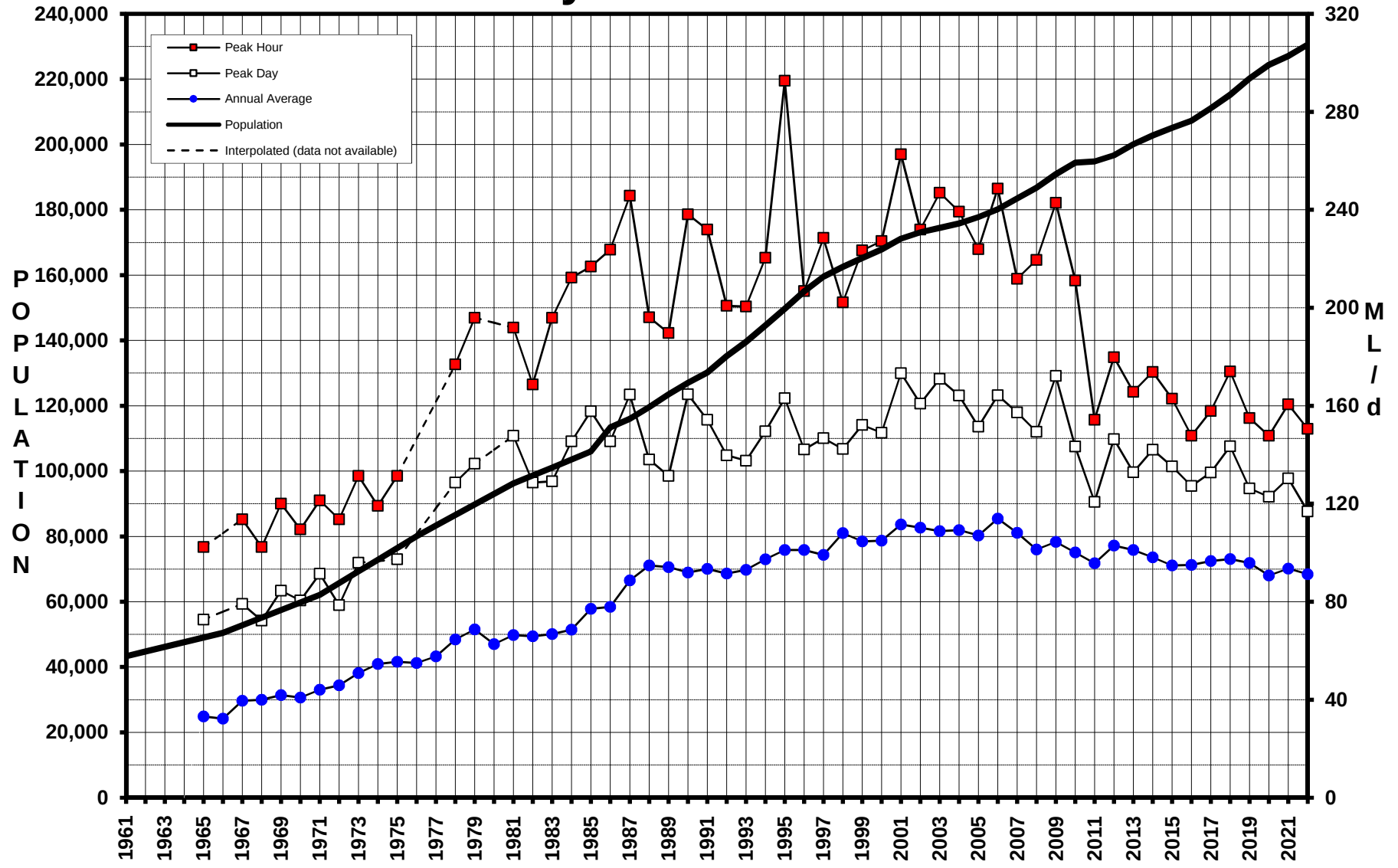
Greater Vancouver Water District City of Port Coquitlam



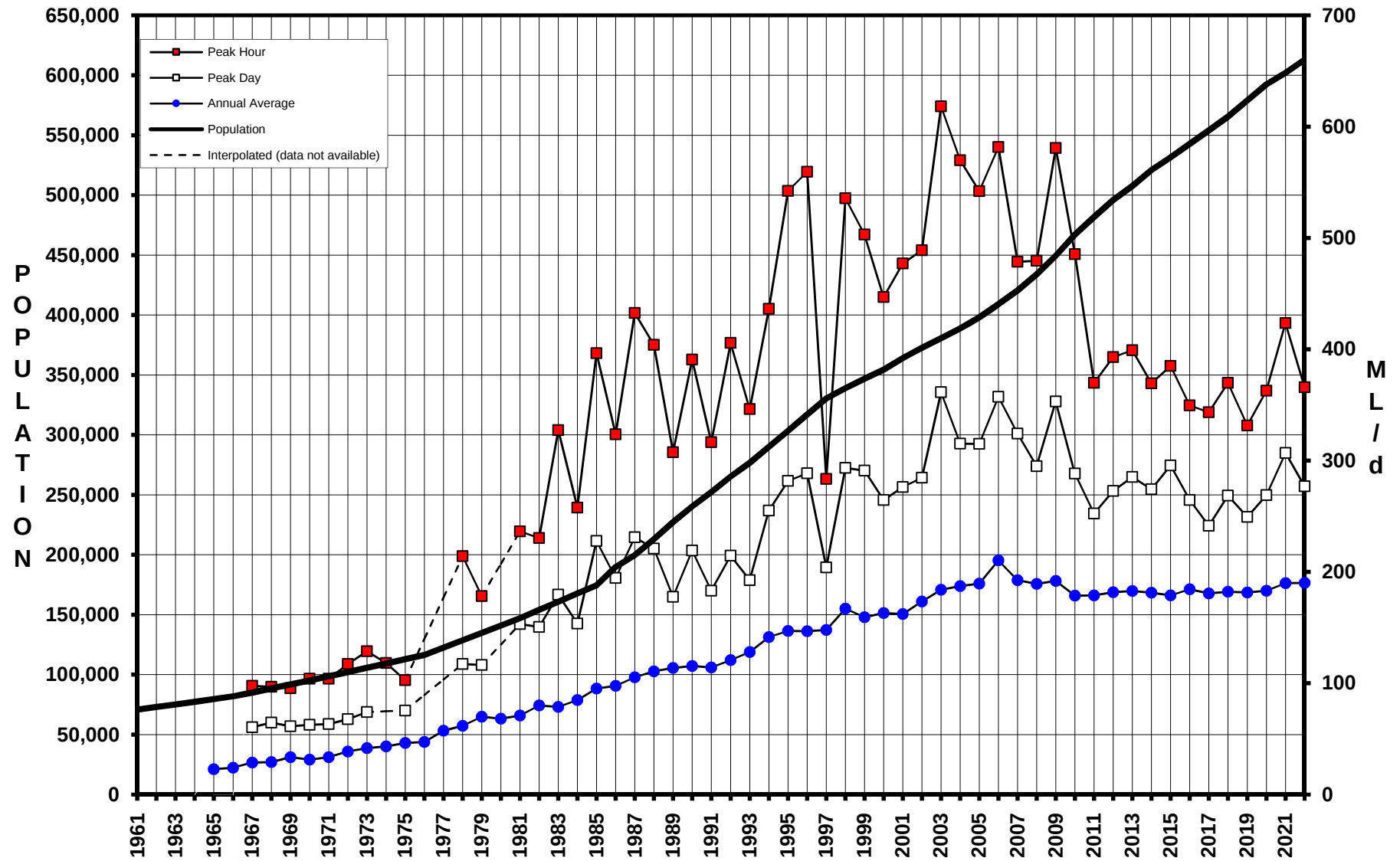
Greater Vancouver Water District City of Port Moody



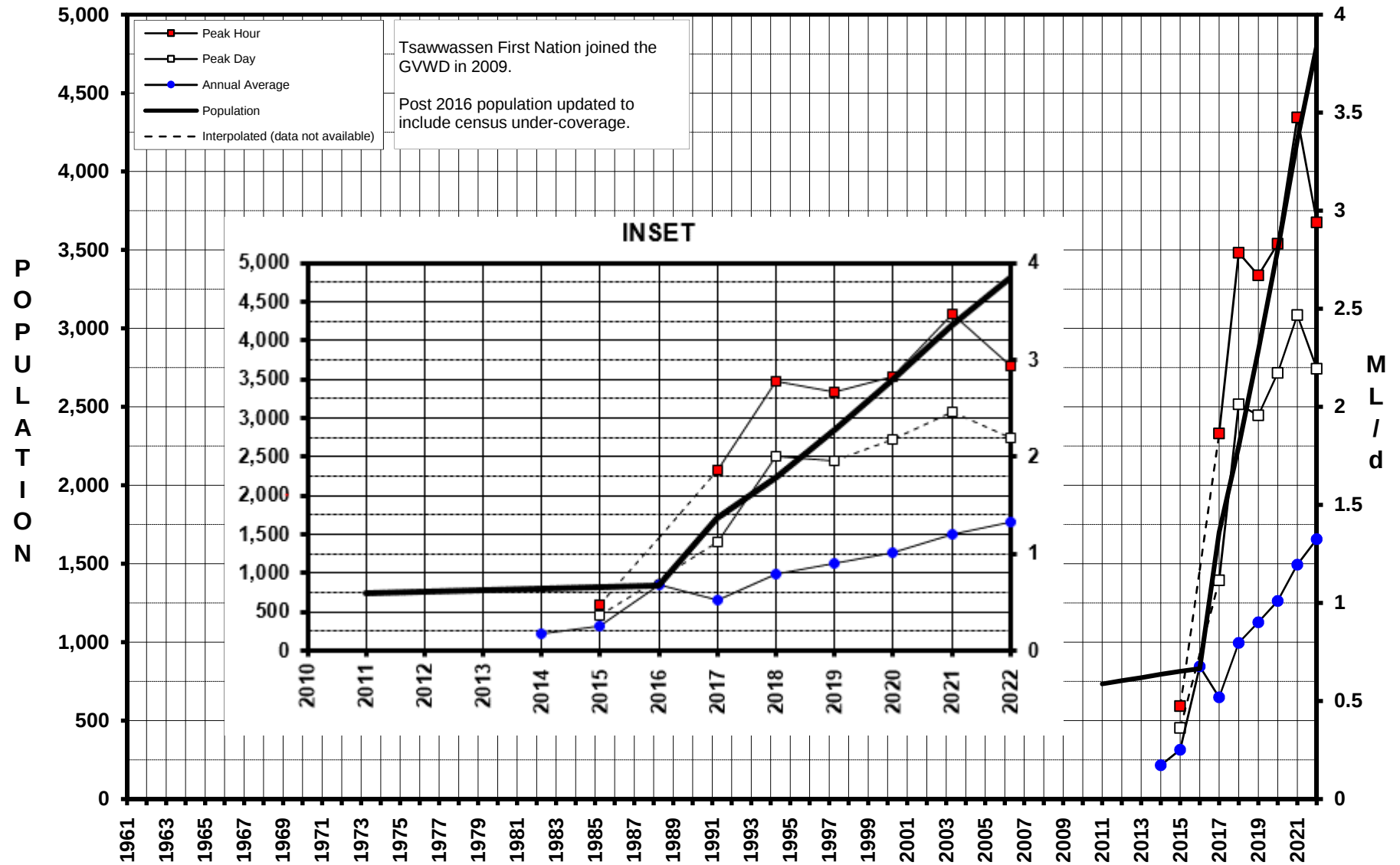
Greater Vancouver Water District City of Richmond



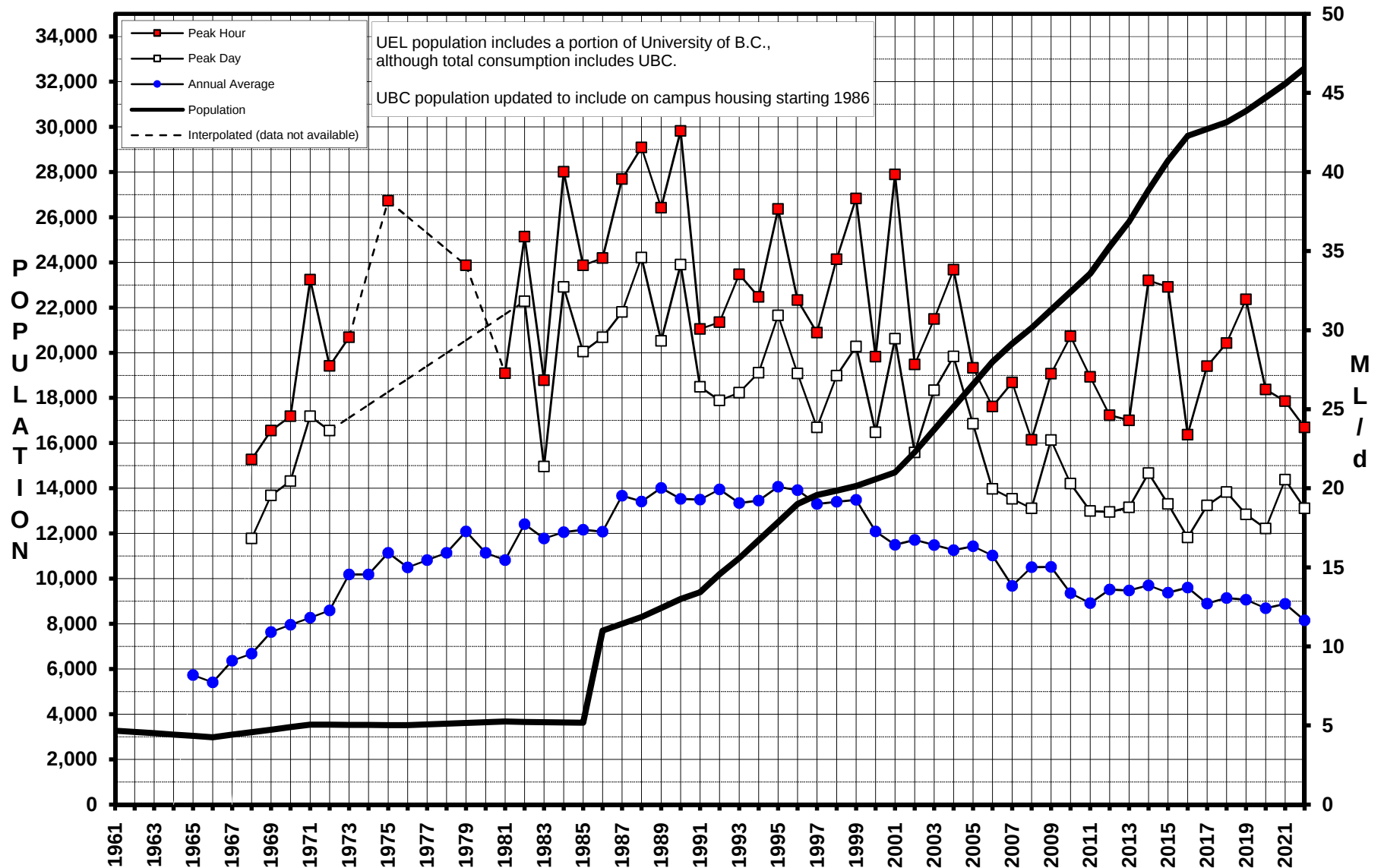
Greater Vancouver Water District City of Surrey



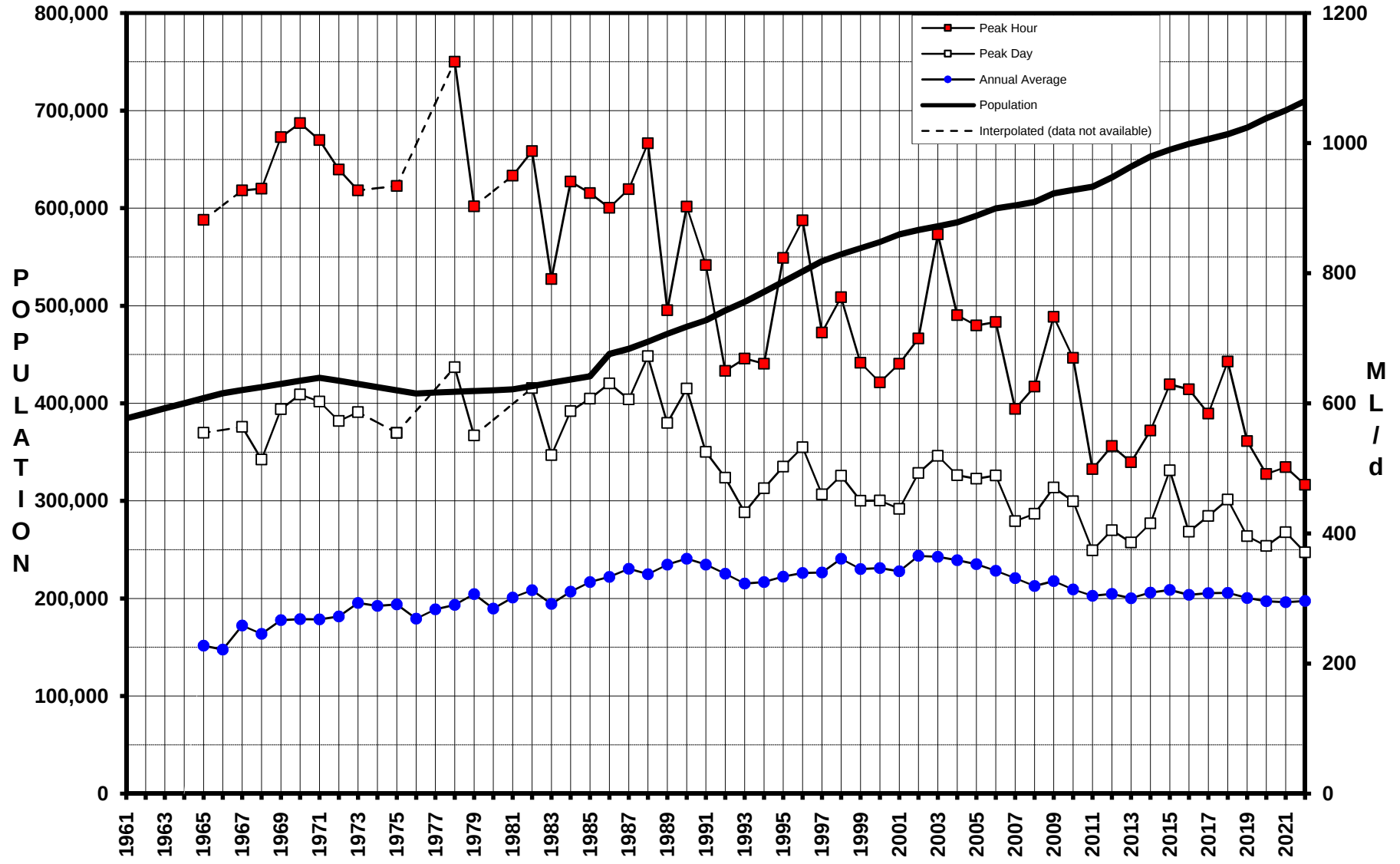
Greater Vancouver Water District Tsawwassen First Nation



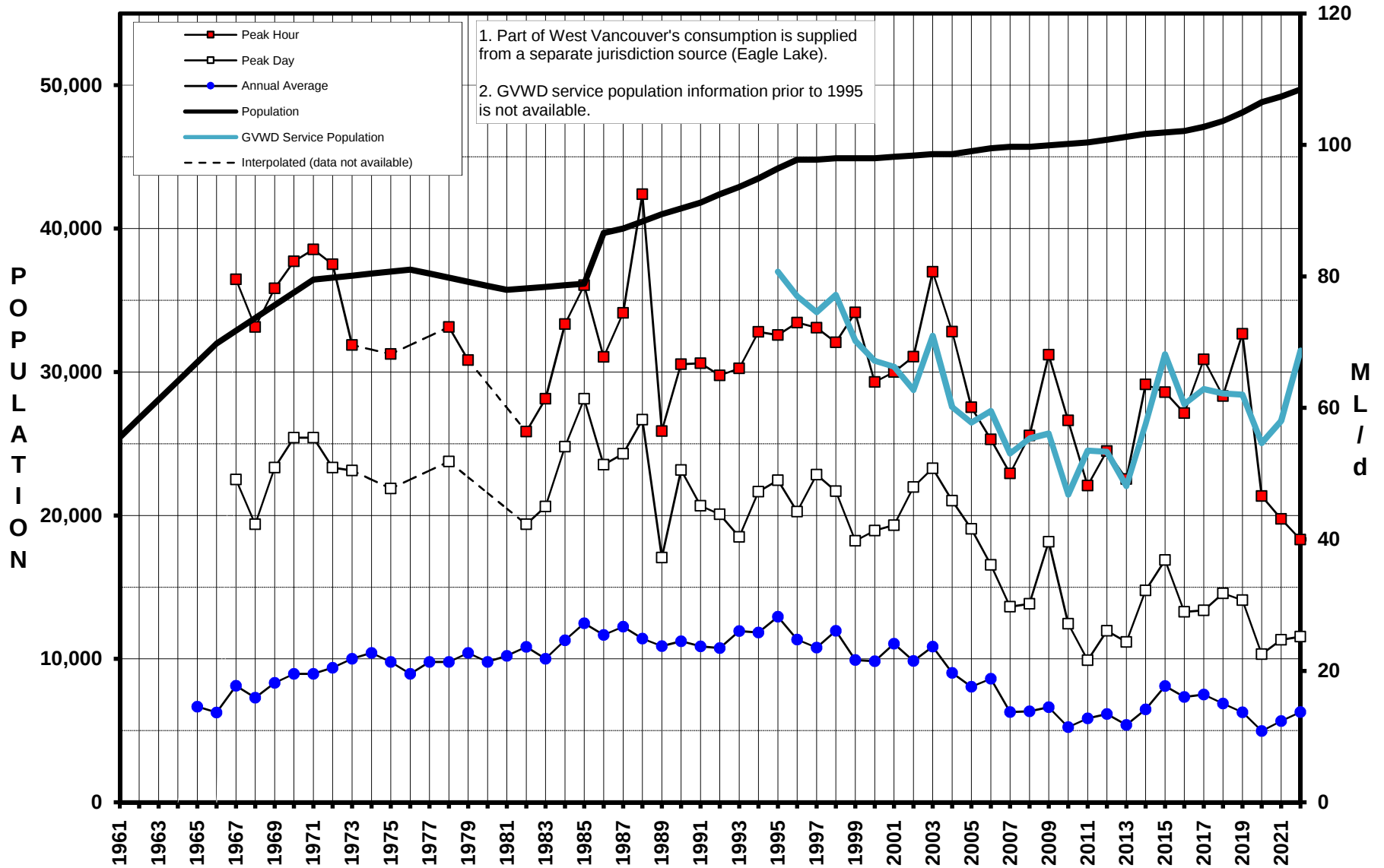
Greater Vancouver Water District University Endowment Lands



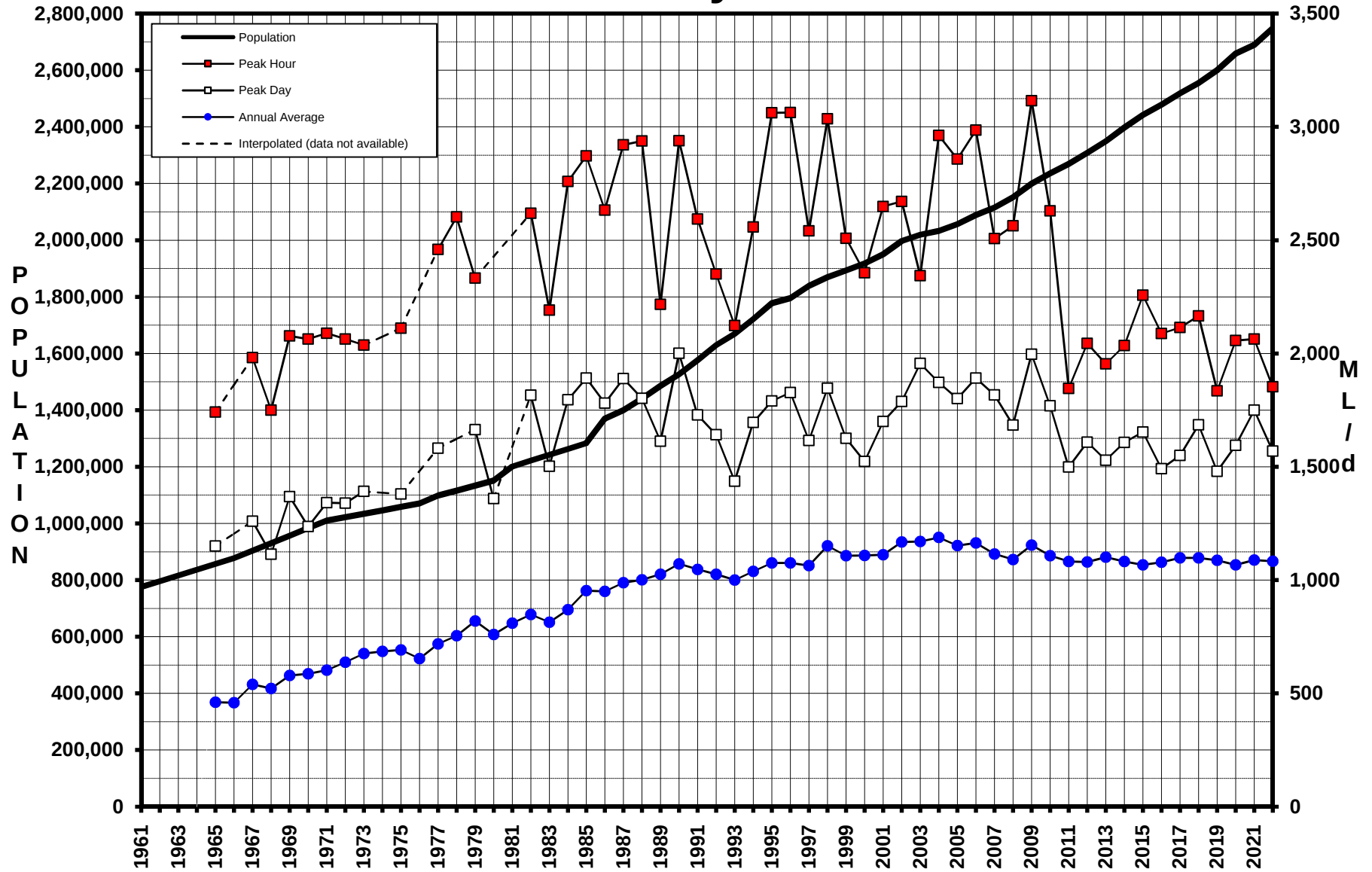
Greater Vancouver Water District City of Vancouver



Greater Vancouver Water District District of West Vancouver



Greater Vancouver Water District Whole System



Appendix B

PER CAPITA CONSUMPTION

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GREATER VANCOUVER WATER DISTRICT
POPULATION

JURISDICTION	1970	1975	1980	1985	1990	1995	2000	2001*	2002	2003	2004	2005	2006*	2007	2008	2009	2010	2011*	2012	2013	2014	2015	2016*	2017	2018	2019	2020	2021*	2022
ANMORE					700	900	1,300	1,400	1,500	1,600	1,700	1,700	1,900	2,000	2,000	2,100	2,100	2,100	2,200	2,200	2,300	2,300	2,300	2,300	2,400	2,400	2,500	2,500	2,600
BELCARRA			415	542	600	670	700	700	700	700	700	690	690	680	670	670	660	650	650	650	650	650	650	660	660	660	670	670	670
BURNABY	122,935	130,411	135,515	143,428	161,100	181,600	199,300	202,600	204,100	205,100	206,000	207,800	210,000	214,300	218,100	222,900	226,400	229,500	233,600	235,900	240,300	241,800	244,600	247,300	250,300	254,000	259,200	263,300	268,200
COQUITLAM	50,767	55,017	59,954	67,648	83,700	101,800	115,500	117,900	118,000	118,000	118,100	118,200	118,600	119,000	120,600	123,900	127,500	130,400	133,900	137,600	140,900	143,900	145,800	149,000	152,300	156,100	160,100	163,500	167,600
DELTA	40,821	60,766	72,652	78,626	89,900	97,700	100,300	100,600	100,600	100,600	100,700	100,700	100,800	101,000	101,200	101,400	101,600	101,800	102,600	103,400	104,800	105,600	106,400	106,900	107,700	108,800	110,100	110,500	111,100
LANGLEY CITY	4,307	9,035	14,124	16,270	19,700	22,800	23,600	23,600	23,800	23,900	24,100	24,200	24,300	24,600	25,000	25,200	25,500	25,700	26,200	26,500	26,600	26,600	27,000	27,400	27,700	28,100	28,600	29,000	29,500
LANGLEY TOWNSHIP	20,702	33,714	43,025	51,671	66,100	80,700	89,500	90,900	92,200	93,300	94,300	95,600	97,200	98,700	101,300	103,500	105,500	107,100	109,900	112,900	115,900	119,400	123,000	126,800	129,300	135,600	140,900	144,700	149,200
MAPLE RIDGE	23,438	28,465	31,678	35,265	47,500	56,600	64,300	65,800	66,900	67,800	68,700	69,900	71,100	72,000	73,700	74,900	76,600	77,900	79,000	79,800	81,300	83,200	85,900	86,300	87,500	88,200	89,500	90,700	92,300
NEW WESTMINSTER	41,871	39,281	38,519	39,688	44,200	50,000	56,000	57,200	57,900	58,400	59,000	59,700	60,700	61,900	63,700	65,200	66,800	67,900	68,000	69,300	71,500	72,900	74,700	76,400	78,200	80,100	82,100	83,900	85,300
NORTH VAN. CITY	30,848	31,917	31,934	34,945	39,400	42,700	46,000	46,700	46,800	46,800	46,800	47,000	47,300	47,300	48,100	48,700	49,400	50,100	51,000	51,900	53,600	55,500	56,100	56,900	57,700	58,600	59,700	60,500	61,500
NORTH VAN. DIST.	55,914	62,349	64,988	67,666	76,300	82,800	85,800	86,200	86,200	86,200	86,200	86,200	86,200	86,200	86,200	86,700	87,200	87,600	88,300	89,100	89,800	90,400	91,400	91,600	91,900	92,500	93,400	94,800	96,300
PITT MEADOWS	2,666	4,305	5,905	7,645	11,100	13,700	15,200	15,500	15,700	15,800	16,000	16,200	16,400	16,700	17,500	18,000	18,200	18,400	18,600	18,800	19,100	19,400	19,600	20,000	20,400	20,900	21,400	21,700	21,900
PORT COQUITLAM	17,872	23,053	26,661	28,761	36,400	46,300	52,200	53,200	53,500	53,600	53,700	53,900	54,000	54,300	55,200	56,000	56,700	57,000	57,800	58,400	59,300	60,500	61,500	61,700	61,800	62,000	62,200	62,400	62,500
PORT MOODY	10,027	11,475	14,263	15,587	17,900	21,000	24,300	24,900	25,700	26,300	26,900	27,700	28,600	29,800	31,000	32,600	33,500	33,900	34,200	34,500	34,600	34,800	35,000	35,600	36,300	37,000	37,500	37,900	38,300
RICHMOND	59,789	76,451	92,930	106,024	127,000	149,700	167,900	171,200	173,100	174,500	175,800	177,800	180,200	183,500	186,700	190,900	194,400	194,800	196,700	200,100	202,800	205,100	207,300	211,100	215,200	220,200	224,400	227,100	230,600
SURREY	95,246	112,918	141,010	174,585	240,400	303,400	354,500	364,100	372,700	380,700	388,800	398,300	409,100	420,500	434,100	449,500	467,200	481,800	496,000	507,700	521,000	531,500	542,700	554,000	565,500	579,000	592,400	602,000	613,000
TFN					409	518	576	587	600	615	630	645	660	675	690	705	720	734	754	774	795	814	832	1,700	2,250	2,860	3,500	4,200	4,800
UEL (1)	3,427	3,517	3,642	3,619	9,100	12,500	14,400	14,700	15,600	16,600	17,600	18,600	19,600	20,400	21,100	21,900	22,700	23,500	24,700	25,800	27,200	28,500	29,600	29,900	30,200	30,700	31,300	31,900	32,600
VANCOUVER	423,080	413,402	413,462	427,774	478,500	524,500	565,400	573,100	577,600	581,400	585,600	592,200	599,900	602,800	606,300	615,200	618,800	621,900	631,600	642,500	652,900	660,100	665,900	670,800	675,900	682,600	692,300	700,300	709,900
WEST VANCOUVER	35,549	37,003	36,011	36,158	41,400	44,200	44,900	45,000	45,100	45,200	45,200	45,400	45,600	45,700	45,700	45,800	45,900	46,000	46,200	46,400	46,600	46,700	46,800	47,100	47,500	48,100	48,800	49,200	49,700
WHITE ROCK	9,837	12,067	13,339	14,220	16,400	17,700	18,600	18,800	18,900	18,900	19,000	19,000	19,200	19,200	19,300	19,400	19,500	19,500	19,700	19,700	20,000	20,300	20,500	20,500	20,500	20,500	20,500	20,600	20,800
TOTAL GVRD	1,049,095	1,145,147	1,239,613	1,349,580	1,606,509	1,850,218	2,040,276	2,074,687	2,097,200	2,116,015	2,135,530	2,161,435	2,192,050	2,221,255	2,258,160	2,305,175	2,346,880	2,378,284	2,421,604	2,463,924	2,511,945	2,549,964	2,587,582	2,623,960	2,661,210	2,708,920	2,761,070	2,801,370	2,848,370
TOTAL GVWD (2)	983,402	1,058,414	1,151,314	1,283,690	1,526,647	1,777,557	1,918,055	1,950,363	1,996,628	2,018,936	2,032,874	2,056,591	2,089,292	2,115,319	2,151,140	2,199,241	2,235,393	2,269,132	2,308,133	2,349,475	2,398,103	2,441,808	2,478,022	2,518,277	2,554,154	2,599,845	2,658,845	2,689,736	2,748,510
(1) - includes UEL and a portion of UBC population																													
(2) - total population supplied by GVWD in a given year																													
* - census year (see " Notes - Population " for sources of census information)																													

2021 census results will be included in 2022 report

Historical population updated from 1986-2021 to account for census under-coverage. UEL updated to include UBC on-campus housing starting 1986. TFN updated post 2016 to include census under-coverage.

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GREATER VANCOUVER WATER DISTRICT ANNUAL AVERAGE DAILY FLOWS

[Lpcd]

JURISDICTION	1970	1975	1980	1985	1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010 [†]	2011	2012 ^{††}	2013	2014 ^{†††}	2015	2016	2017	2018	2019	2020	2021	2022
ANMORE																	359	292	301	388	330	323	336	392	371	353	332	355	314
BELCARRA																			105	166	183	197	236	335	272	300	431	318	323
BURNABY	610	586	590	706	709	614	593	586	569	579	585	552	543	501	500	505	493	455	470	493	452	461	444	442	436	419	402	410	396
COQUITLAM	296	446	500	673	501	485	496	456	487	511	511	473	390	458	405	414	407	380	373	386	358	334	328	368	357	348	339	363	336
DELTA	523	711	701	864	970	756	742	692	736	744	754	740	776	731	696	714	694	626	636	632	609	621	618	609	600	605	591	638	576
LANGLEY CITY			515	517	506	452	498	491	502	483	484	492	491	466	435	447	433	426	407	421	410	401	389	376	368	332	341	360	362
LANGLEY TOWNSHIP (4)					704	592	441	435	617	563	561	590	466	468	433	451	407	397	394	406	401	406	380	389	392	388	364	389	360
MAPLE RIDGE (2)	369	383	402	493	497	471	442	437	460	488	490	474	481	456	423	443	399	371	379	400	385	390	362	376	368	353	357	369	354
NEW WESTMINSTER	749	799	897	1032	956	702	516	576	542	490	432	448	458	362	339	356	339	331	343	360	330	334	317	312	305	289	277	272	275
NORTH VAN. CITY	15	28	71	631	645	631	548	534	523	484	454	447	439	393	422	429	409	460	480	476	432	415	434	463	425	408	387	409	419
NORTH VAN. DIST.	626	634	707	842	808	581	572	591	621	578	583	546	553	490	530	549	527	559	571	580	559	582	572	592	598	578	541	539	523
PITT MEADOWS	853	739	847	959	938	629	649	617	710	762	796	670	795	514	536	573	569	499	517	499	477	474	445	523	491	462	393	494	551
PORT COQUITLAM	458	473	512	619	547	508	452	476	519	537	537	500	529	508	462	478	460	432	430	430	410	410	401	415	430	411	398	469	447
PORT MOODY	1224	1347	1434	1388	936	654	562	567	620	537	508	503	520	473	463	458	387	384	371	366	382	389	361	372	371	366	370	354	342
RICHMOND	684	725	675	727	724	675	625	651	637	624	621	602	632	589	543	547	515	491	523	506	484	462	459	458	453	435	404	412	396
SURREY	329	411	484	546	481	485	460	445	465	483	481	476	514	458	436	427	382	371	367	360	348	337	340	326	322	314	309	315	310
TFN																					217	309	813	305	354	315	289	285	276
UEL (1)	3316	4524	4369	4804	2123	1607	1199	1118	1072	988	914	878	804	677	711	686	589	542	551	525	510	470	464	425	432	422	396	398	357
VANCOUVER	634	704	688	760	755	636	613	596	633	626	612	596	571	550	526	531	507	489	486	468	473	474	459	459	456	440	427	420	417
WEST VANCOUVER (5)	550	577	593	753	592	763	698	794	748	728	715	664	689	565	546	563	534	520	549	533	537	567	577	570	527	482	433	464	436
TOTAL SYSTEM (3)	596	654	659	743	702	605	578	570	585	580	584	560	557	527	507	525	495	477	468	468	451	437	436	436	430	418	401	405	394

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

(2) - Although jurisdiction has its own secondary supply source(s), total jurisdiction 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).

(5) - Starting with 2017, Consumption Statistics Report, GVWD service population will be used to calculate District of West Vancouver's per capita flows from 1995 and onwards. GVWD service population information prior to 1995 is not available.

† 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.

††† Starting in 2014, TFN's consumption is no more included in Delta's consumption.

GREATER VANCOUVER WATER DISTRICT PEAK WEEK AVERAGE DAILY FLOWS

[Lpcd]

JURISDICTION	1970	1975	1980	1985	1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
BURNABY	1102	1241	1063	1334	1329	866	763	844	808	860	892	781	855	771	668	675	695	638	677	776	695	695	595	617	677	547	523	620	542
COQUITLAM	510	892	849	1055	1097	705	747	729	750	838	1008	765	690	676	616	672	697	451	557	543	541	598	500	570	640	528	563	627	628
DELTA	1036	1324	1189	1648	1915	1261	1095	1138	1278	1336	1345	1236	1306	1128	1128	1187	1182	818	983	1082	1062	1111	942	981	1012	937	945	1075	897
LANGLEY CITY			805	922	785	627	610	618	617	673	673	639	690	604	564	591	569	516	506	521	540	551	492	491	504	431	455	542	495
LANGLEY TOWNSHIP (4)						922	1094	1064	1546	1398	1235	1158	898	1070	898	957	955	863	744	843	857	1079	650	746	850	638	634	966	576
MAPLE RIDGE (2)	543	655	718	1031	1062	715	676	708	739	868	858	802	892	780	711	807	717	536	588	679	640	668	577	587	608	505	565	644	561
NEW WESTMINSTER	955	949	1074	1833	1491	965	709	788	758	935	586	652	695	695	535	573	528	439	518	605	499	535	438	449	440	364	353	384	379
NORTH VAN. CITY	15	28	14	1080	1177	849	695	675	677	668	596	625	649	536	566	603	524	544	629	572	575	585	529	621	555	516	497	600	540
NORTH VAN. DIST.	1016	1240	1308	1559	1376	916	876	863	1195	1029	954	876	891	766	817	906	827	785	792	885	835	939	816	891	928	782	760	874	790
PITT MEADOWS	1194	1584	2002	2141	1966	1706	1230	1311	1123	1790	1785	1676	2035	1478	1260	1112	1363	882	1105	1090	1037	1101	1091	1274	1056	847	896	1092	1245
PORT COQUITLAM	814	848	836	1185	1037	779	627	628	727	925	748	675	803	728	688	660	790	566	575	601	615	753	562	585	731	562	501	789	632
PORT MOODY	1542	1664	1912	1750	1448	876	881	768	978	826	756	732	809	729	665	658	674	571	525	568	583	686	536	583	644	521	549	544	493
RICHMOND	958	1142	1106	1355	1285	954	836	889	892	920	891	875	856	813	768	797	722	632	692	651	664	676	594	606	638	565	530	575	521
SURREY	482	535	764	1078	802	829	666	672	695	790	753	739	797	686	643	684	592	504	509	537	517	521	469	452	468	415	419	481	441
TFN																					305	709	2272	680	1596	748	628	599	598
UEL (1)	4510	8272	6866	7663	3247	2137	1561	1513	1518	1351	1298	1146	1068	835	939	904	805	743	742	706	693	684	578	615	1013	591	605	605	513
VANCOUVER	1067	1246	1084	1365	1292	811	779	715	833	846	808	810	781	720	690	726	676	613	604	610	609	721	593	626	647	560	559	551	557
WEST VANCOUVER (5)	1023	1216	1149	1559	1186	1220	1246	1521	1471	1404	1563	1460	1321	1091	1105	1308	1155	1135	1062	1146	1242	1124	1179	1071	1207	946	808	1064	884
TOTAL SYSTEM (3)	935	1117	1070	1399	1283	862	768	775	806	892	856	827	833	768	737	797	736	626	639	635	636	661	587	601	631	542	542	608	550

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

(2) - Although jurisdiction has its own secondary supply source(s), total jurisdiction 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).

(5) - Starting with 2017 Consumption Statistics Report, GVWD service population will be used to calculate District of West Vancouver's per capita flows from 1995 and onwards. GVWD service population information prior to 1995 is not available.

Peak Week data are not available for Anmore and Belcarra.

GREATER VANCOUVER WATER DISTRICT ANNUAL PEAK DAY FLOWS

[Lpcd]

JURISDICTION	1970	1975	1980	1985	1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
BURNABY	1498	1499		1468	1313	987	763	837	926	980	935	811	749	820	730	769	781	649	740	700	700	726	523	549	525	539	509	647	491
COQUITLAM	618	967		1089	1198	N/A	501	524	763	1047	723	862	830	969	1015	770	728	645	630	651	671	578	498	591	791	506	861	702	763
DELTA	1114	1392		1711	1706	1411	1166	1343	1340	1536	1415	1290	1428	1317	1229	1416	1238	861	1103	1120	1113	1159	1009	991	1051	942	1048	1140	983
LANGLEY CITY				978	870	705	631	669	634	720	731	649	733	736	632	685	610	515	552	548	553	546	527	490	516	442	458	584	510
LANGLEY TOWNSHIP (4)						924	850	1193	1041	1129	1167	1281	1094	1360	972	1123	1200	834	862	798	1048	999	636	898	913	698	674	731	585
MAPLE RIDGE (2)	834	735		1122	1116	909	679	785	788	993	906	898	1026	873	856	922	743	524	639	685	617	715	583	615	625	494	593	683	557
NEW WESTMINSTER	1325	1736		1936	1841	914	714	815	712	714	797	650	695	617	534	559	555	595	577	539	407	494	486	494	608	378	570	398	724
NORTH VAN. CITY				1275	893	923	871	831	810	876	585	779	674	582	564	743	527	530	681	628	571	558	529	639	591	543	528	639	582
NORTH VAN. DIST.	528			1458	1575	1058	823	871	997	1059	857	1004	1033	887	874	1102	902	851	857	911	820	941	835	887	957	802	819	828	811
PITT MEADOWS	2217	1689		2260	2056	1415	1142	1287	1010	1791	1531	1906	2069	1280	1016	1509	1312	957	1242	1010	1072	1622	1178	966	971	901	902	1190	1270
PORT COQUITLAM	1170	986		1280	1095	924	654	736	758	1067	965	679	940	954	852	732	828	570	584	620	628	695	595	611	748	551	567	968	658
PORT MOODY				1837	1468	1145	778	827	993	958	898	756	926	824	733	761	671	538	611	531	611	675	515	522	609	513	556	583	470
RICHMOND	1346	1273		1488	1297	1089	887	1012	929	980	934	852	912	857	800	902	737	620	744	664	701	659	614	629	667	573	547	574	507
SURREY	659	668		1305	912	929	747	758	764	949	811	791	873	771	679	785	617	524	550	562	526	556	487	436	475	431	454	510	452
TFN																						445	N/A	656	895	684	621	588	457
UEL (1)	5969			7914	3752	2475	1634	2004	1427	1578	1610	1294	1018	947	888	1052	894	790	749	728	770	667	571	633	654	597	558	644	574
VANCOUVER	1451	1342		1420	1301	958	797	764	853	893	836	817	815	694	709	765	726	601	641	601	636	753	605	636	669	580	550	574	523
WEST VANCOUVER (5)	1560	1290		1697	1221	1325	1342	1387	1668	1562	1665	1572	1324	1223	1190	1542	1266	881	1068	1105	1222	1179	1043	1013	1115	1082	900	929	800
TOTAL SYSTEM (3)	1257	1304	1181	1473	1311	1007	794	872	896	969	921	875	905	859	783	908	791	660	697	650	670	677	602	615	660	569	600	651	571

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

(2) - Although jurisdiction has its own secondary supply source(s), total jurisdiction 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).

(5) - Starting with 2017 Consumption Statistics Report, GVWD service population will be used to calculate District of West Vancouver's per capita flows from 1995 and onwards. GVWD service population information prior to 1995 is not available.

Peak Day data are not available for Anmore and Belcarra.

Starting in 2015, Peak Day data for TFN are available. 2016 Peak Day data is not available.

GREATER VANCOUVER WATER DISTRICT ANNUAL PEAK HOUR FLOWS

[Lpcd]

JURISDICTION	1970	1975	1980	1985	1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
BURNABY	2300	2147		2358	1971	1916	1094	1454	1488	1723	1520	1348	1277	1167	1139	1279	1189	960	938	1085	890	968	751	705	657	824	646	867	564
COQUITLAM	1021	1438		1861	1803	N/A	1262	1363	1157	1612	1389	1561	1534	1478	1581	1471	1267	850	1006	926	774	760	703	784	1030	746	1143	906	973
DELTA	1548	1855		2475	2788	2222	1861	1871	2044	2408	2446	2198	2277	2000	2016	2341	1966	1092	1393	1371	1348	1418	1331	1374	1435	1226	1361	1372	1188
LANGLEY CITY			1384	1537	1191	1264	930	875	959	950	888	869	928	898	800	874	814	760	800	677	839	671	925	648	667	639	675	757	653
LANGLEY TOWNSHIP (4)						1451	1279	1760	1861	1306	1567	2024	1977	1868	1647	1944	1883	1130	1234	1068	1324	1272	838	1110	1419	938	872	977	805
MAPLE RIDGE (2)	1435	1230	1363	1676	1809	1721	1170	1498	1508	1970	1834	1692	1979	1428	1555	1804	1333	862	1040	1121	887	1036	911	880	930	689	918	840	784
NEW WESTMINSTER	2041	2199		2932	2714	1985	1241	1583	1472	1399	1910	1215	1391	974	1042	1121	1133	1312	874	1096	769	765	655	985	1121	882	941	738	1194
NORTH VAN. CITY				2706	1497	2044	1331	1281	1279	1966	1739	1201	1165	1009	869	1395	829	713	896	875	767	776	751	862	844	745	742	794	758
NORTH VAN. DIST.	756			2224	2069	1939	1357	1384	1511	1530	1301	1532	1671	1329	1364	1751	1250	1201	1133	1273	1135	1485	1357	1414	1487	1404	1304	1173	1100
PITT MEADOWS	3751	3168		3211	2977	3062	2010	2121	2064	2918	2718	2612	2664	1895	1739	2659	2086	1305	1675	1348	1386	1974	1396	1246	1197	1160	1191	1386	1555
PORT COQUITLAM	1755	1657		1944	1955	1889	1187	1164	1241	1826	1420	1177	1616	1424	1452	1061	1289	805	683	786	852	937	828	834	994	744	814	1243	883
PORT MOODY	3174	2892		2450	2042	1756	1148	1138	1229	1513	1129	1013	1284	990	864	1251	1036	809	890	736	972	1012	830	790	806	969	1005	940	753
RICHMOND	1832	1719		2045	1875	1955	1354	1534	1340	1415	1361	1259	1380	1154	1176	1272	1086	792	914	828	857	794	713	748	808	704	658	707	653
SURREY	1093	910		2271	1626	1788	1260	1310	1312	1624	1465	1361	1422	1138	1104	1292	1039	767	792	786	709	725	644	620	654	573	613	704	597
TFN																						582	N/A	1097	1238	934	809	827	613
UEL (1)	7163	10857		9422	4681	3012	1967	2711	1783	1849	1921	1485	1284	1308	1093	1244	1304	1151	997	941	1219	1148	790	927	966	1041	839	800	732
VANCOUVER	2436	2260		2158	1886	1570	1118	1153	1212	1479	1256	1215	1208	981	1032	1191	1083	802	846	793	855	953	934	871	983	794	710	717	669
WEST VANCOUVER (5)	2315	1843		2175	1610	1921	2077	2155	2358	2481	2598	2270	2023	2058	2198	2649	2707	1964	2186	2229	2410	1997	2133	2339	2168	2508	1859	1622	1270
TOTAL SYSTEM (3)	2099	1995		2237	1925	1723	1229	1358	1338	1161	1457	1390	1429	1185	1192	1417	1176	813	886	831	848	924	842	840	848	706	774	767	674

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

(2) - Although jurisdiction has its own secondary supply source(s), total jurisdiction 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.

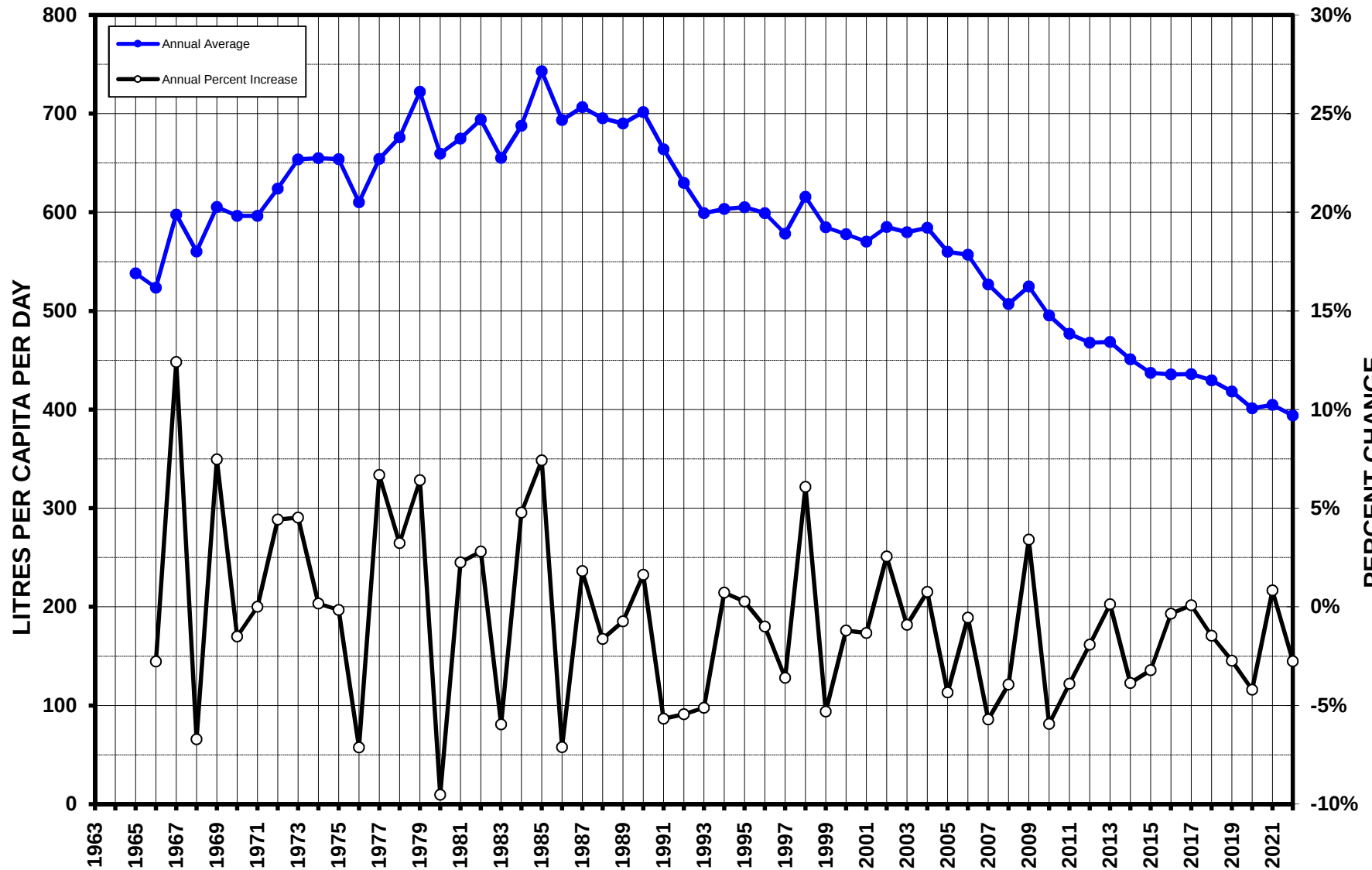
(4) - As Township of Langley has its own secondary supply sources, the GVWD service population was used to compute per capita consumption (see Notes section).

(5) - Starting with 2017 Consumption Statistics Report, GVWD service population will be used to calculate District of West Vancouver's per capita flows from 1995 and onwards. GVWD service population information prior to 1995 is not available.

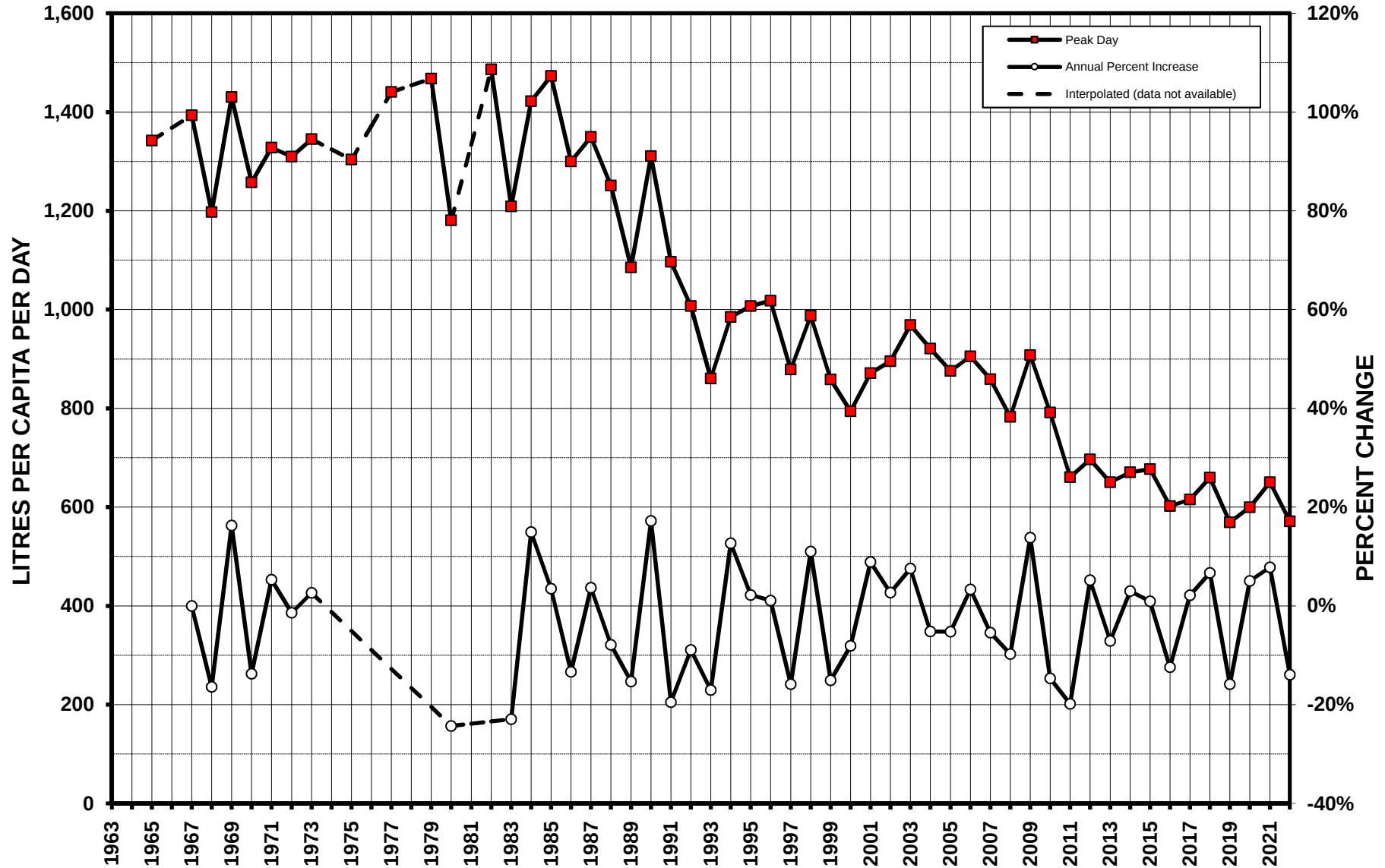
Peak Hour data are not available for Anmore and Belcarra.

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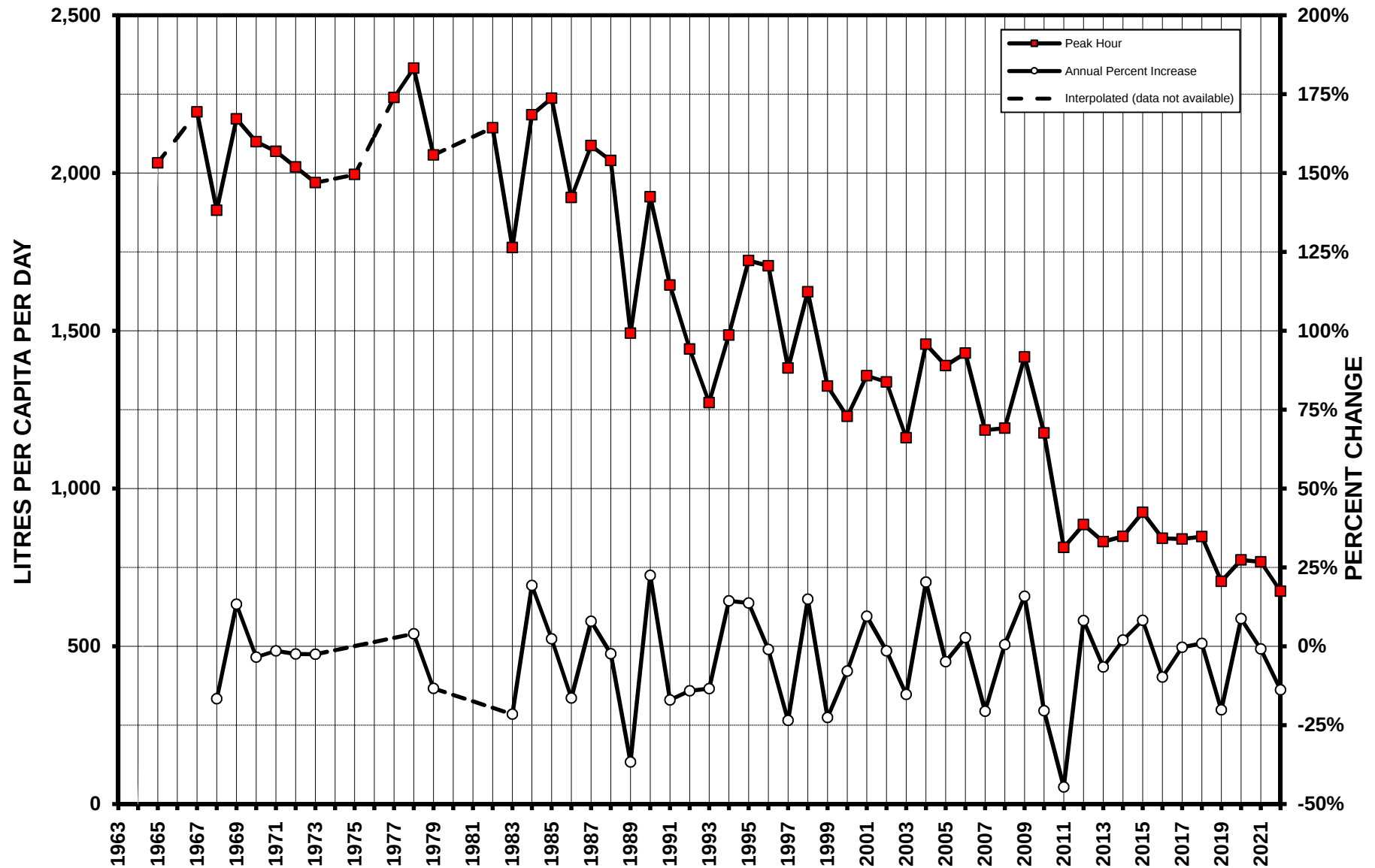
Greater Vancouver Water District System Annual Average Daily Consumption



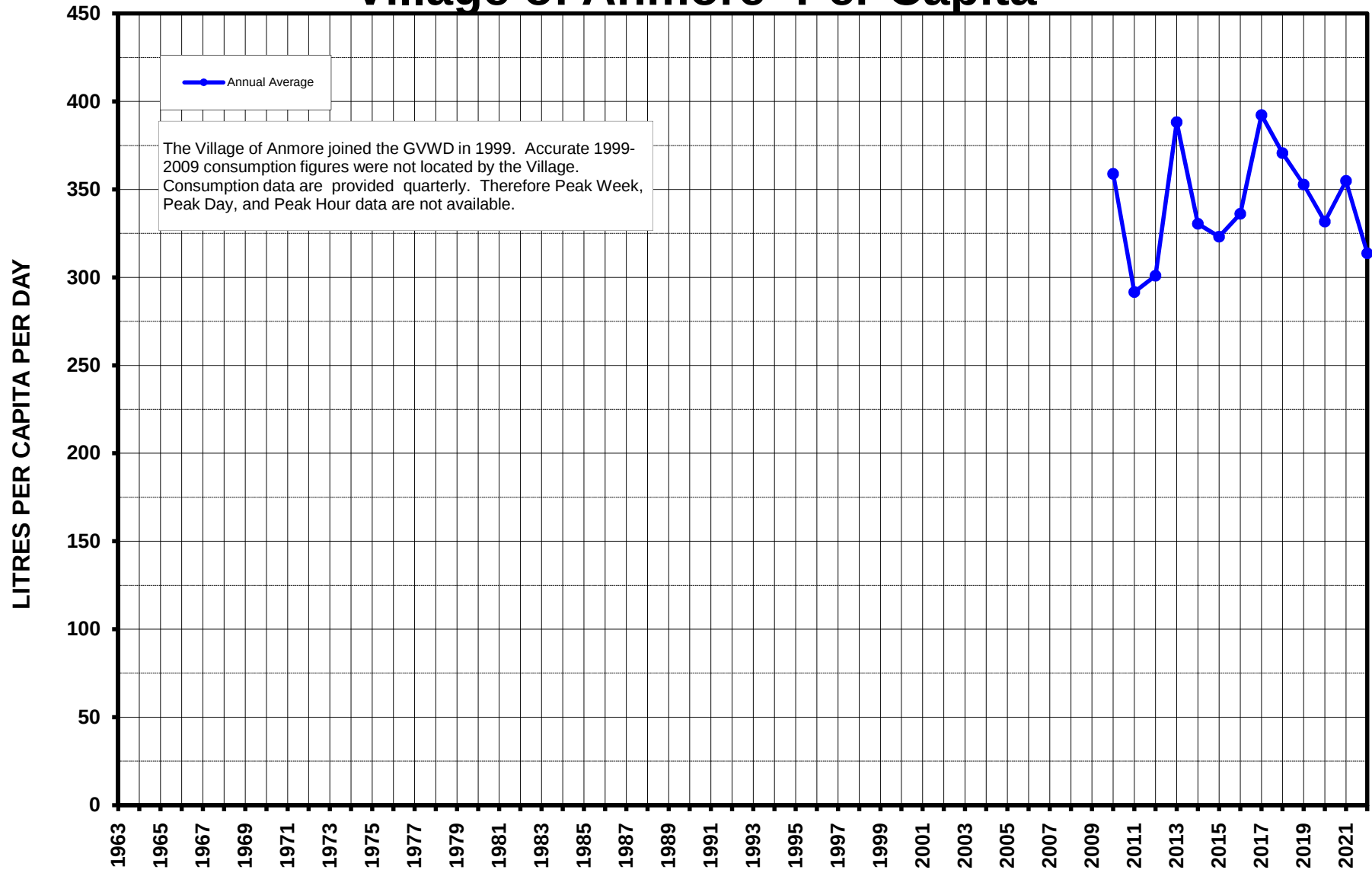
Greater Vancouver Water District System Annual Peak Day Consumption



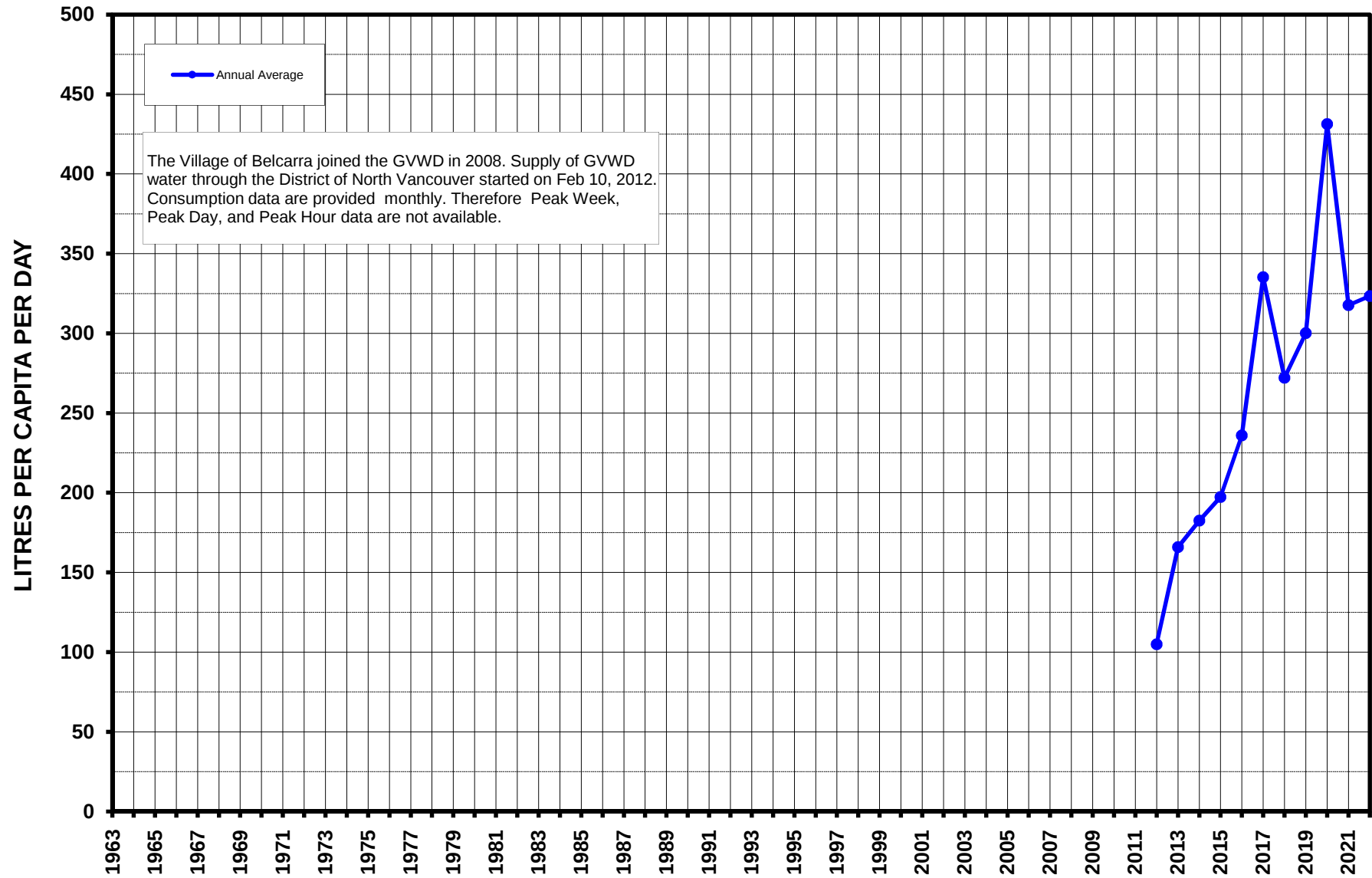
Greater Vancouver Water District System Annual Peak Hour Consumption



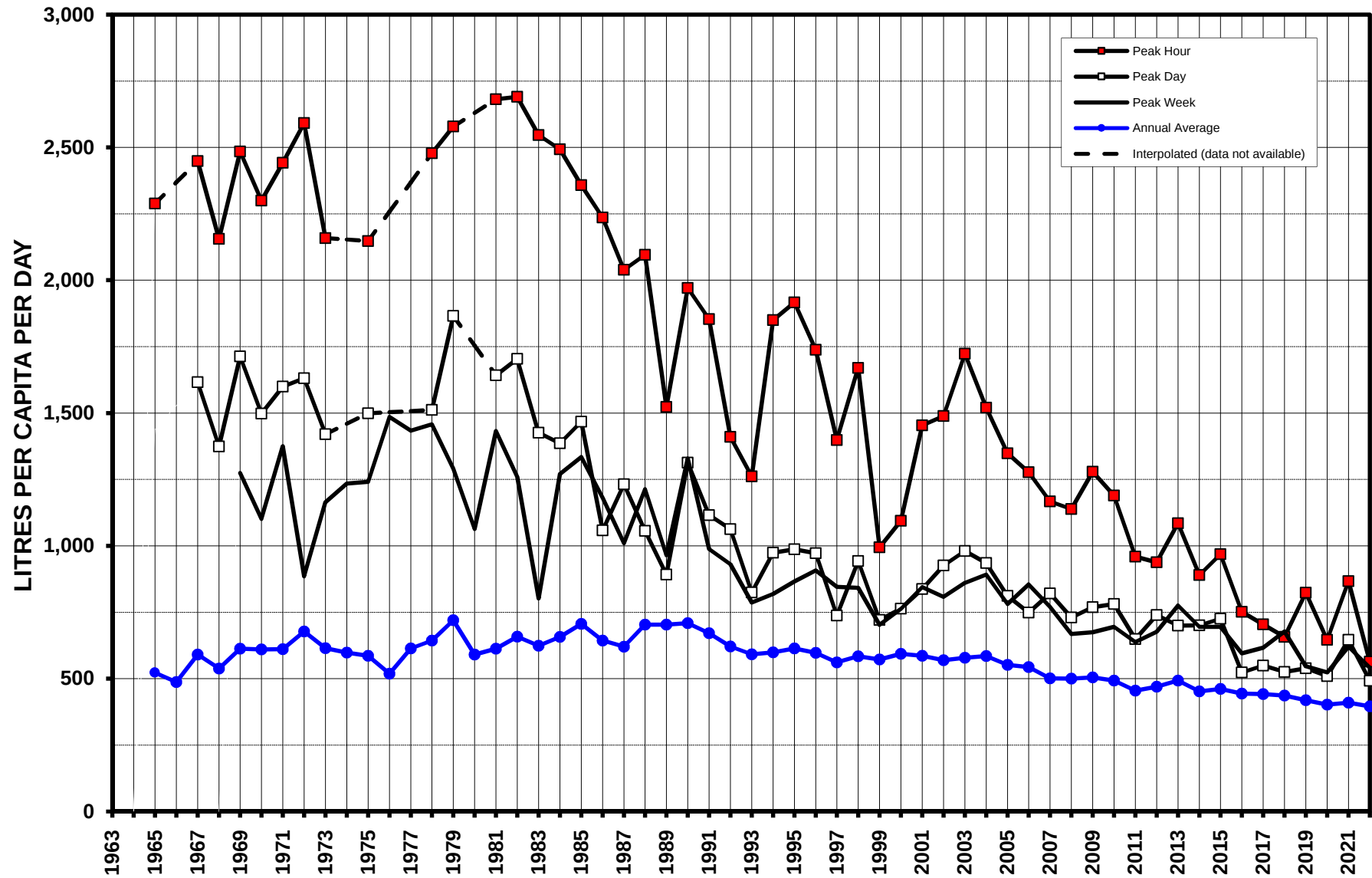
Greater Vancouver Water District Village of Anmore- Per Capita



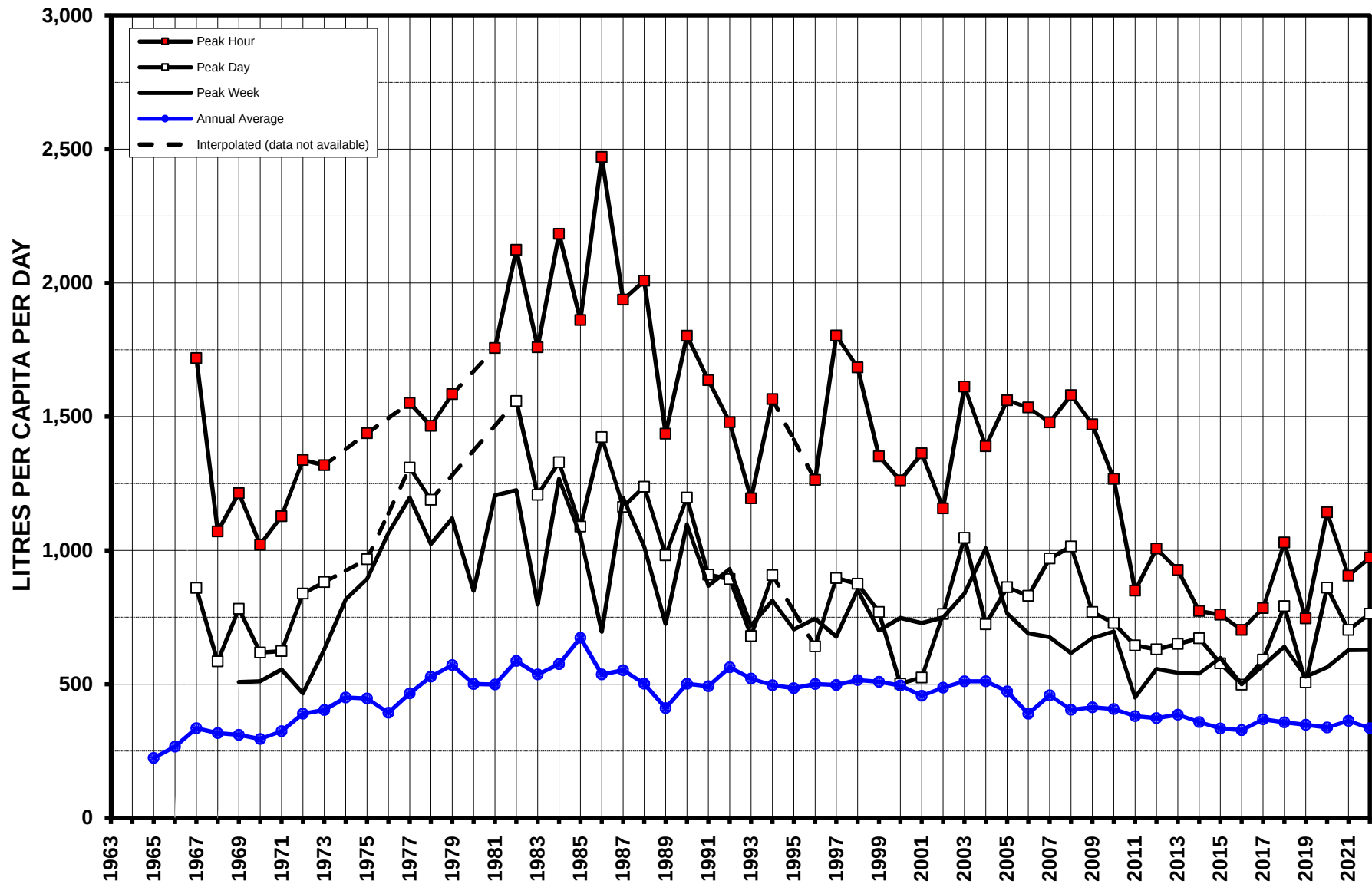
Greater Vancouver Water District Village of Belcarra- Per Capita



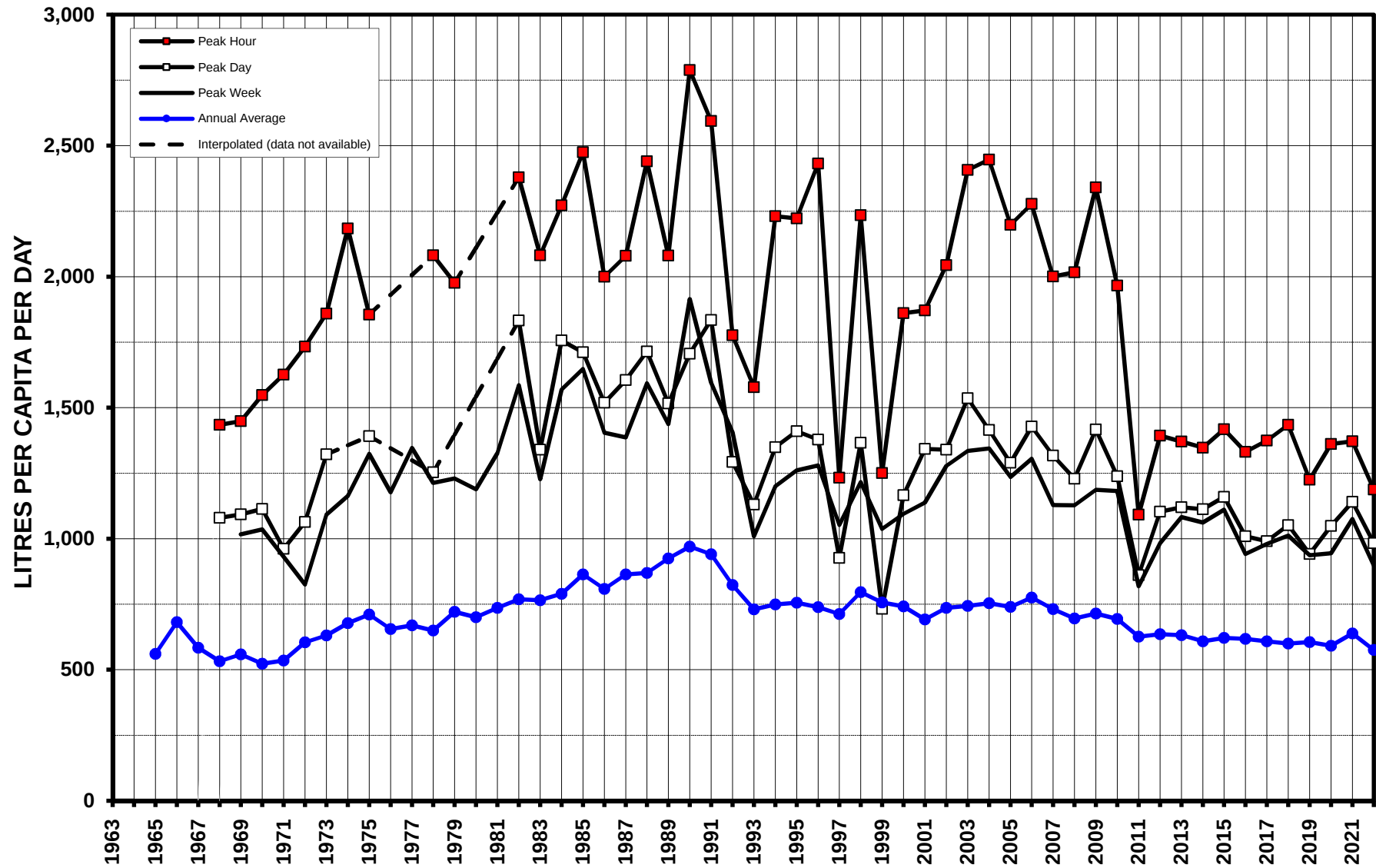
Greater Vancouver Water District City of Burnaby - Per Capita



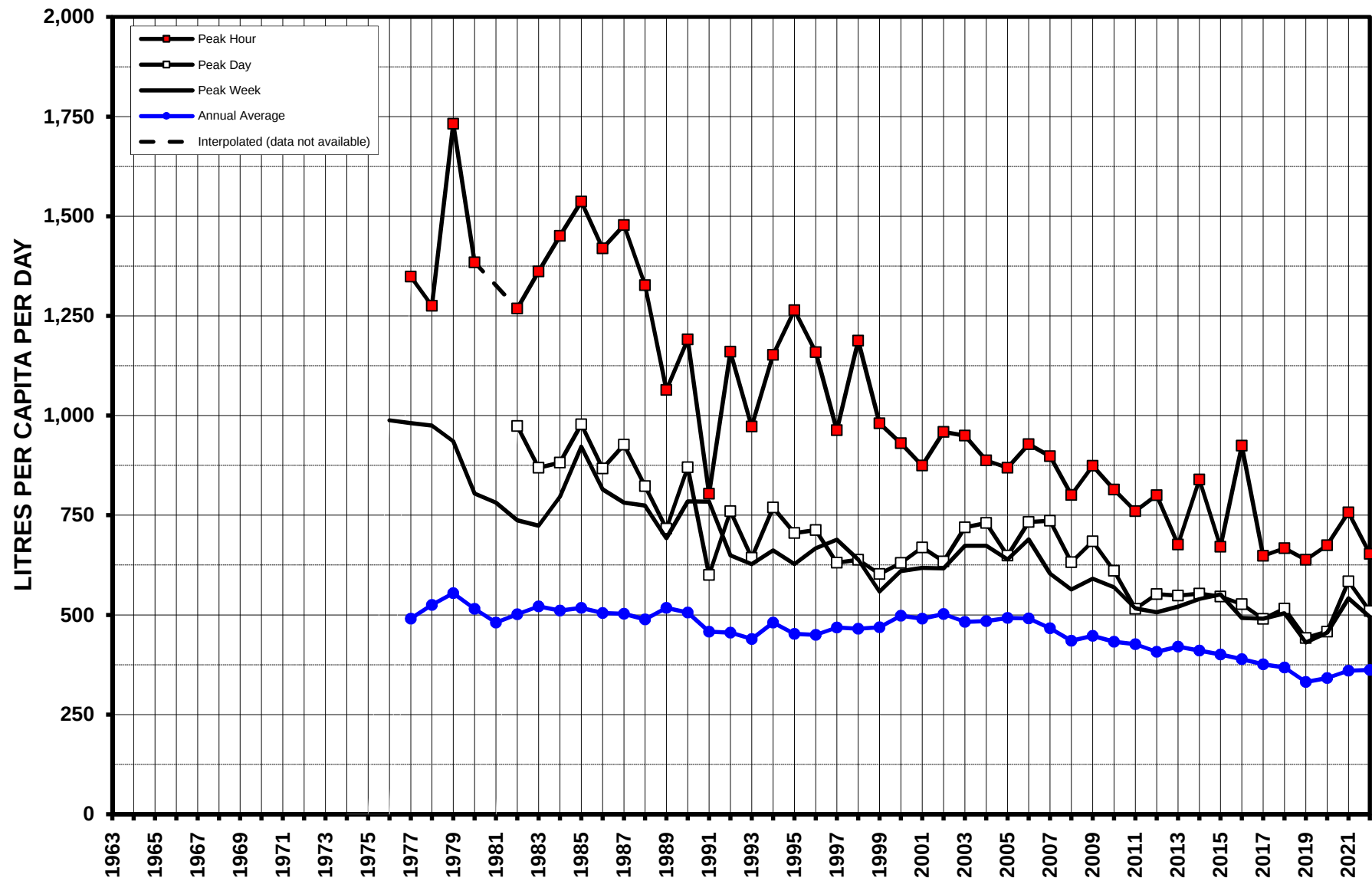
Greater Vancouver Water District City of Coquitlam - Per Capita



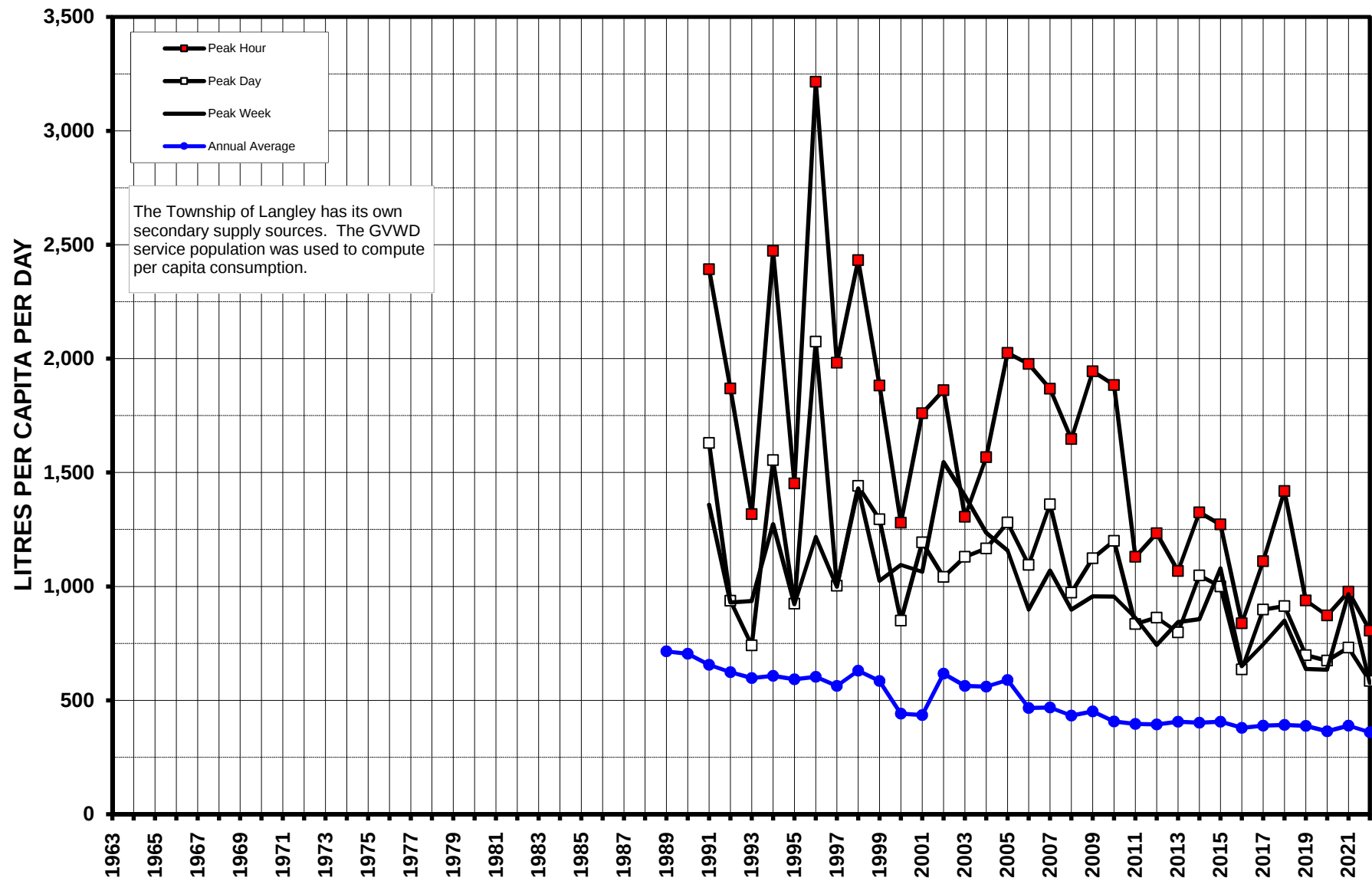
Greater Vancouver Water District City of Delta - Per Capita



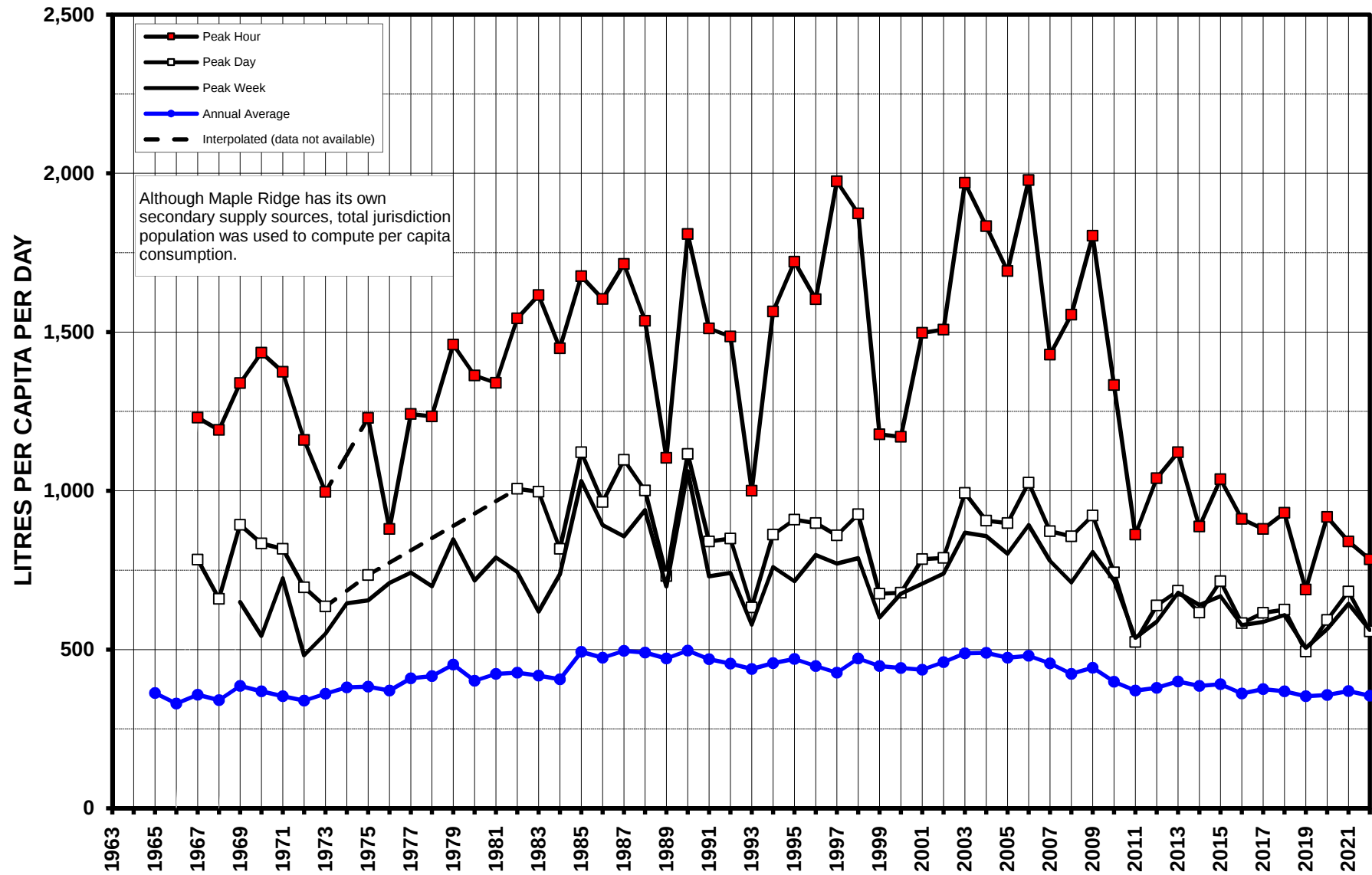
Greater Vancouver Water District City of Langley - Per Capita



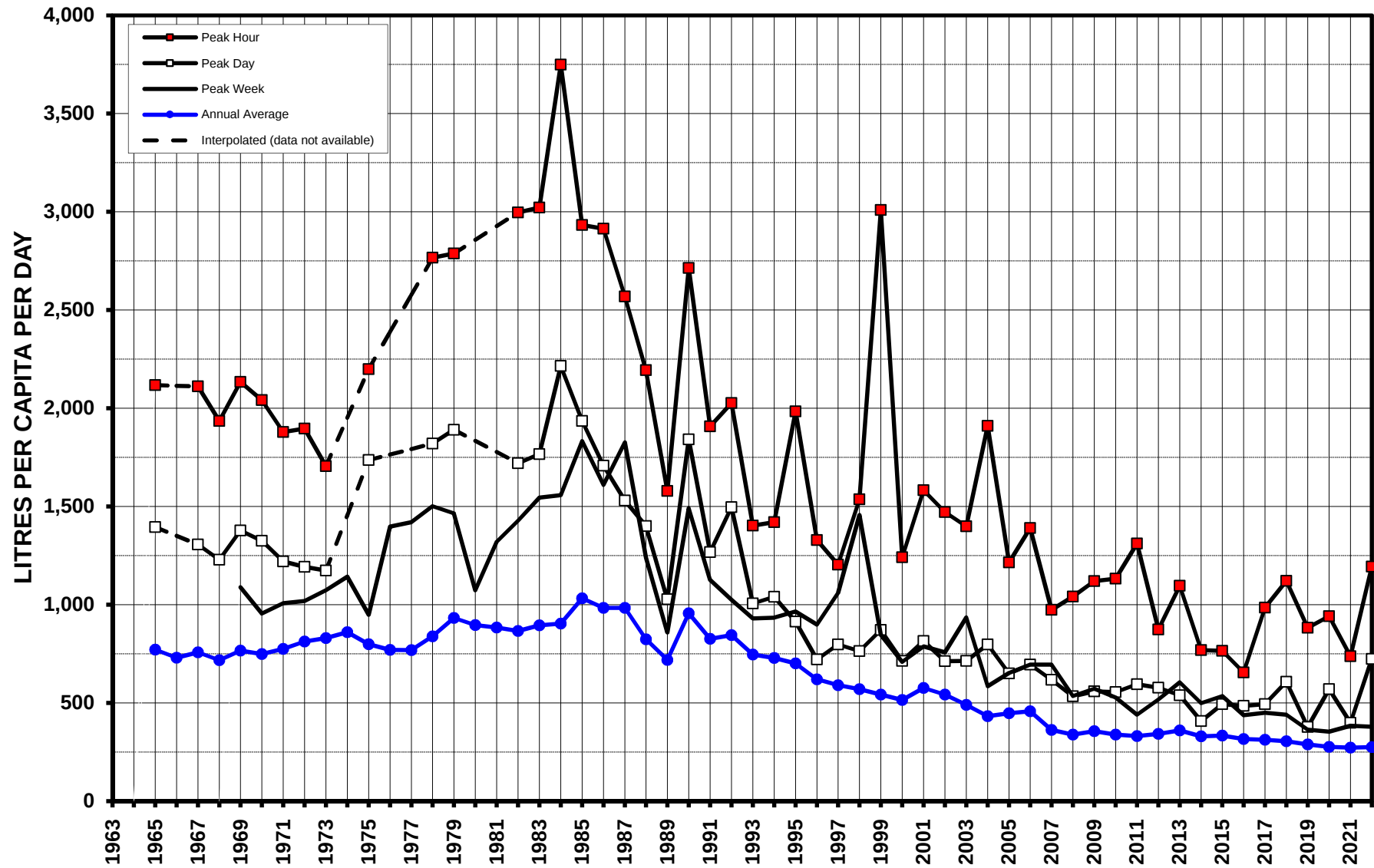
Greater Vancouver Water District Township of Langley - Per Capita



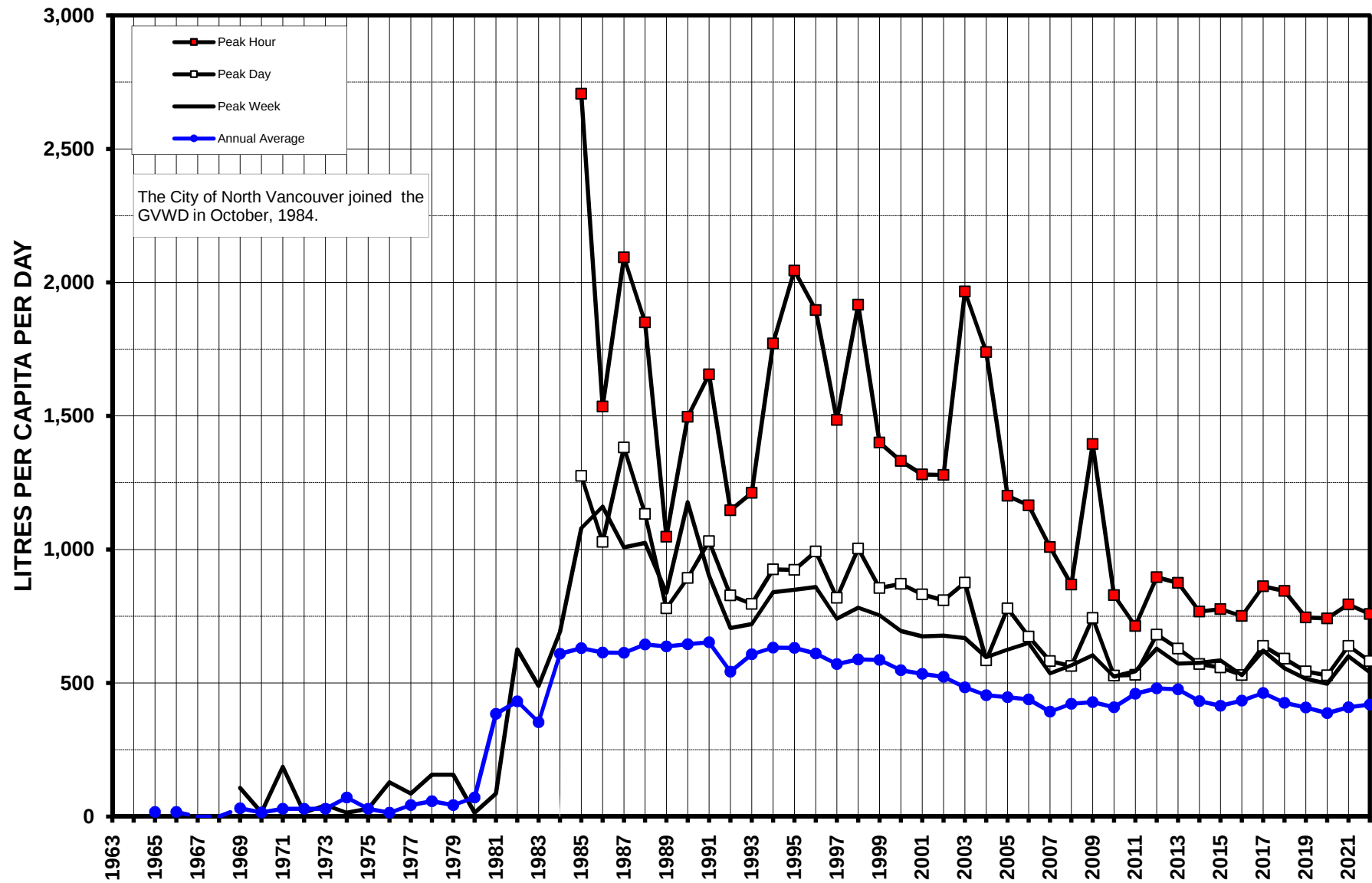
Greater Vancouver Water District City of Maple Ridge - Per Capita



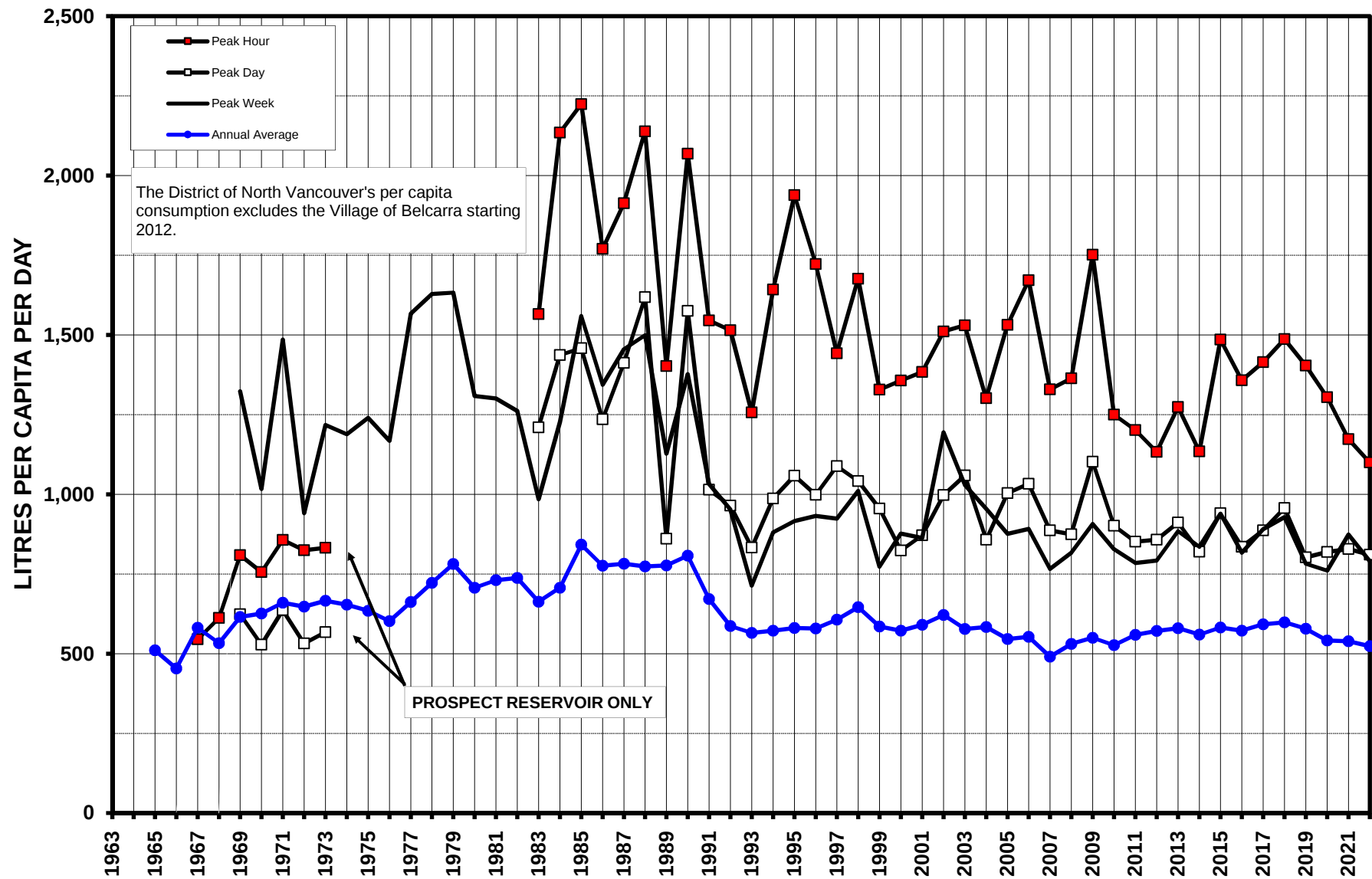
Greater Vancouver Water District City of New Westminster - Per Capita



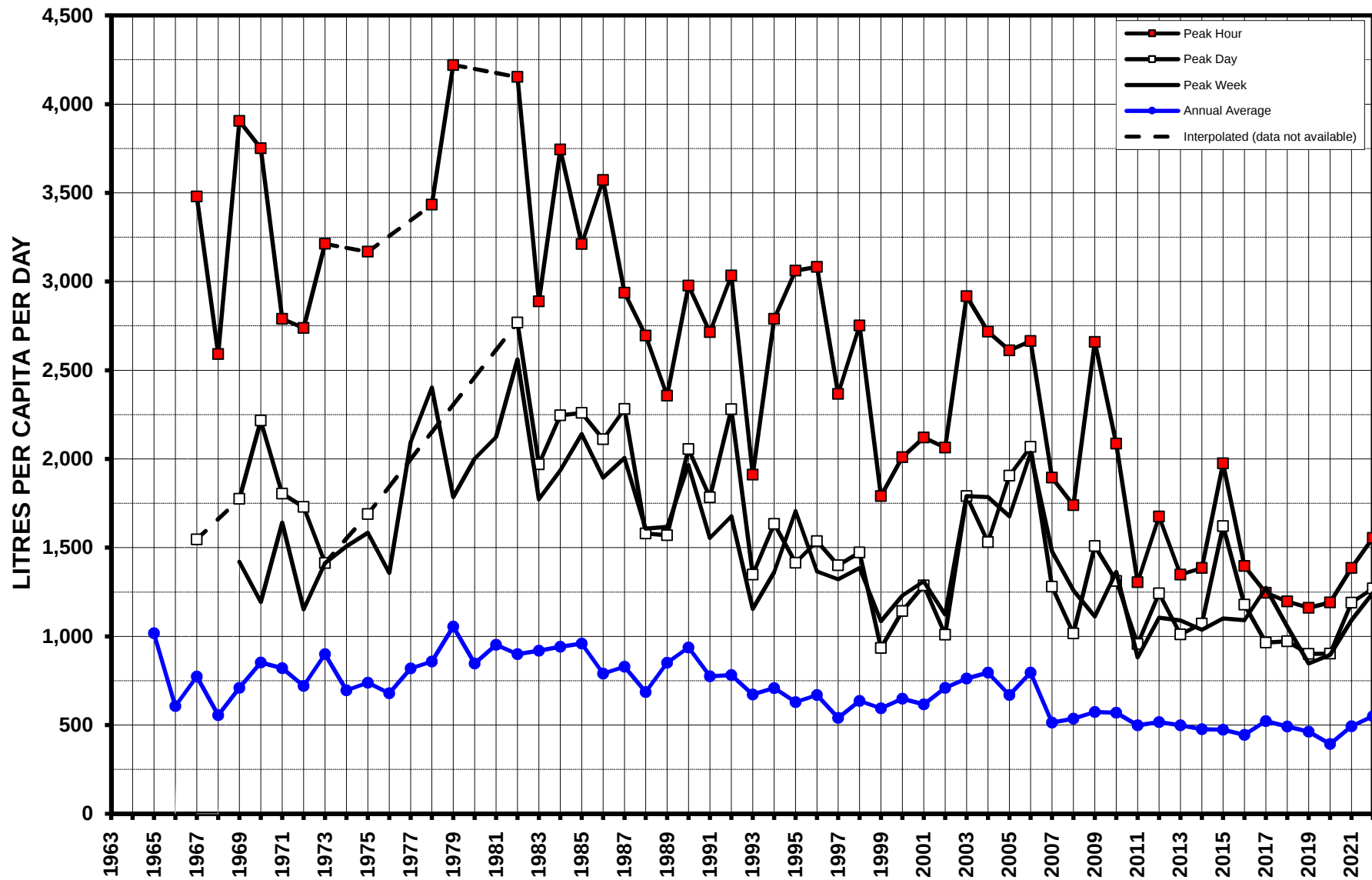
Greater Vancouver Water District City of North Vancouver - Per Capita



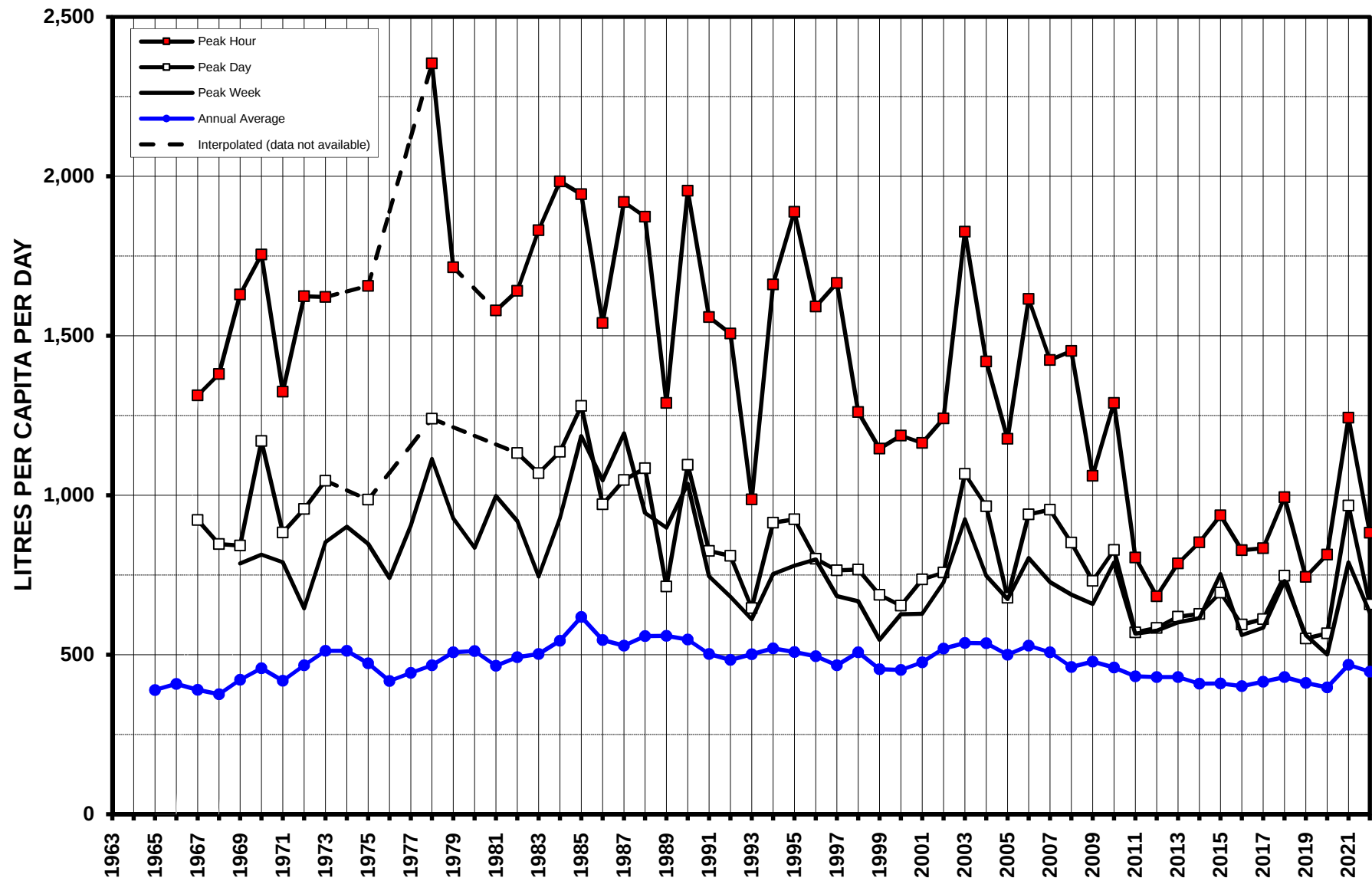
Greater Vancouver Water District District of North Vancouver - Per Capita



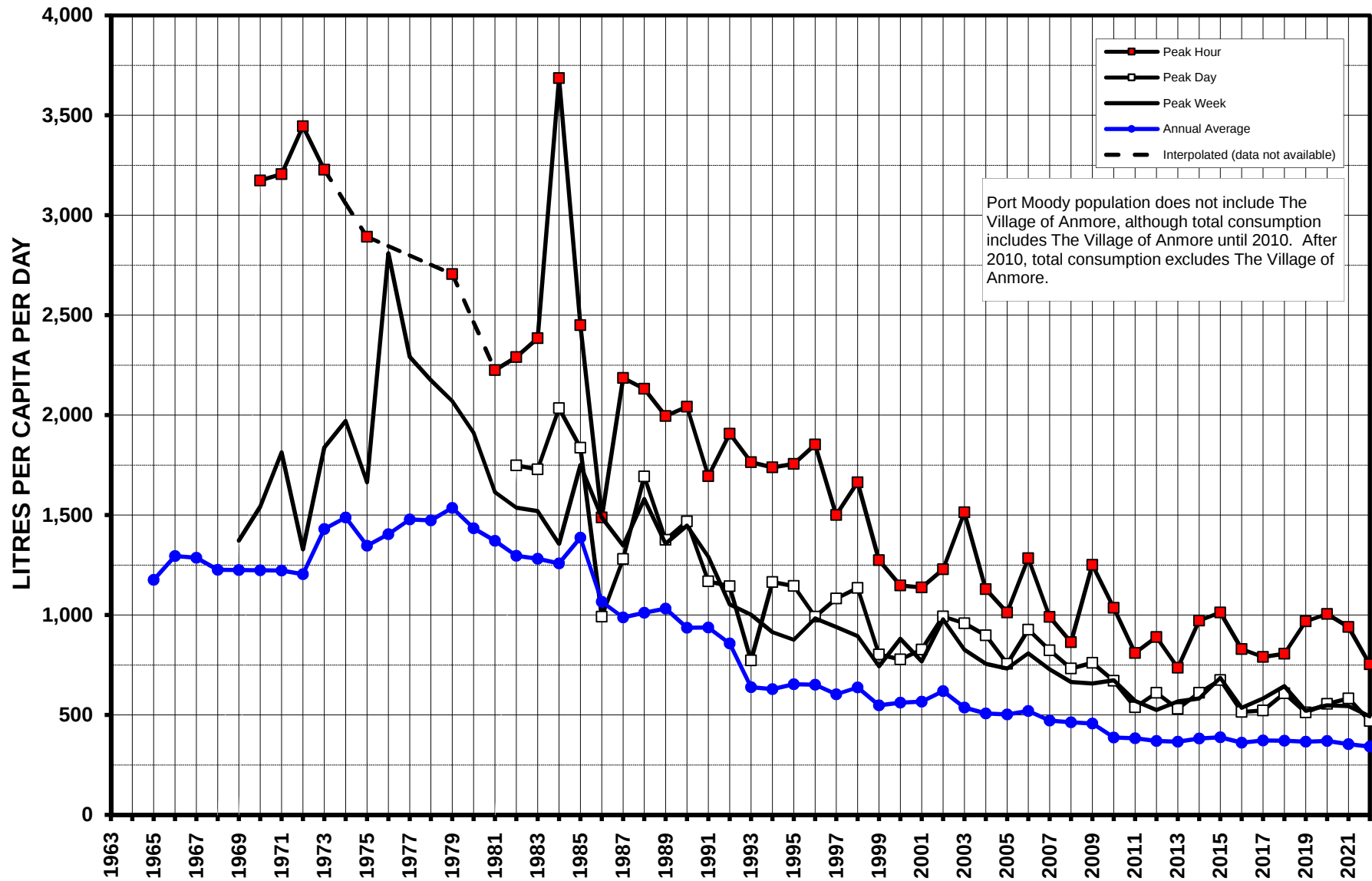
Greater Vancouver Water District City of Pitt Meadows - Per Capita



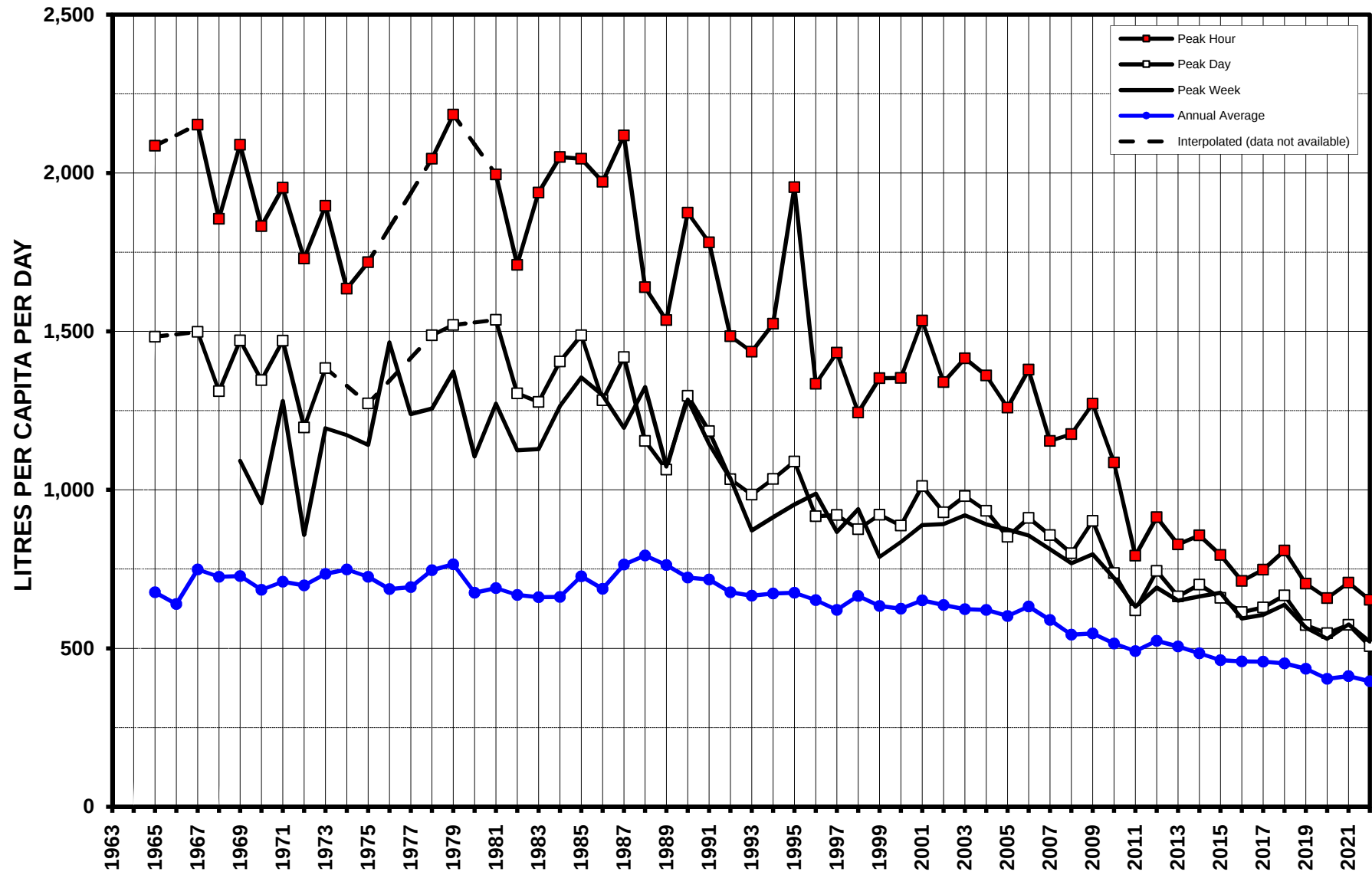
Greater Vancouver Water District City of Port Coquitlam - Per Capita



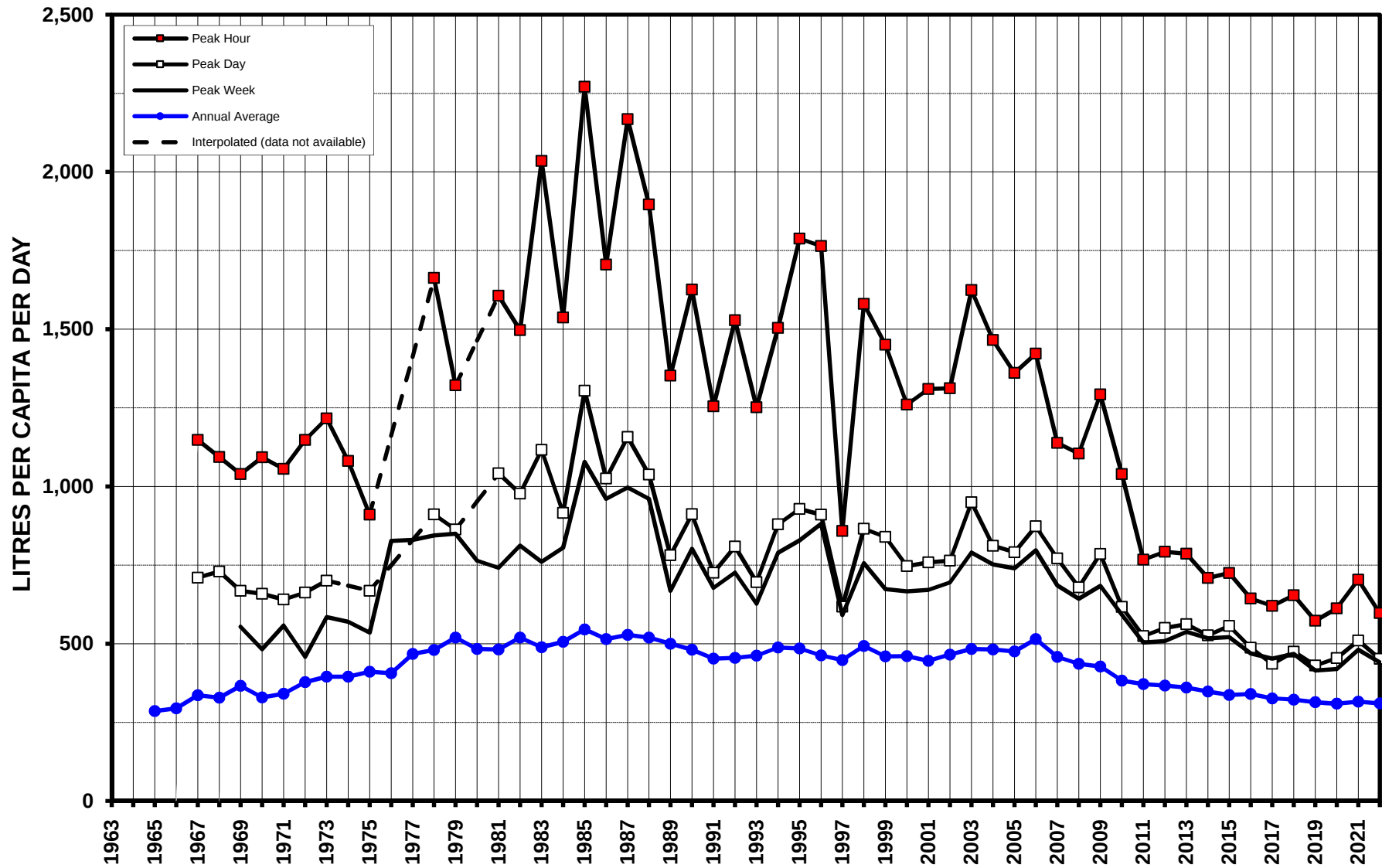
Greater Vancouver Water District City of Port Moody - Per Capita



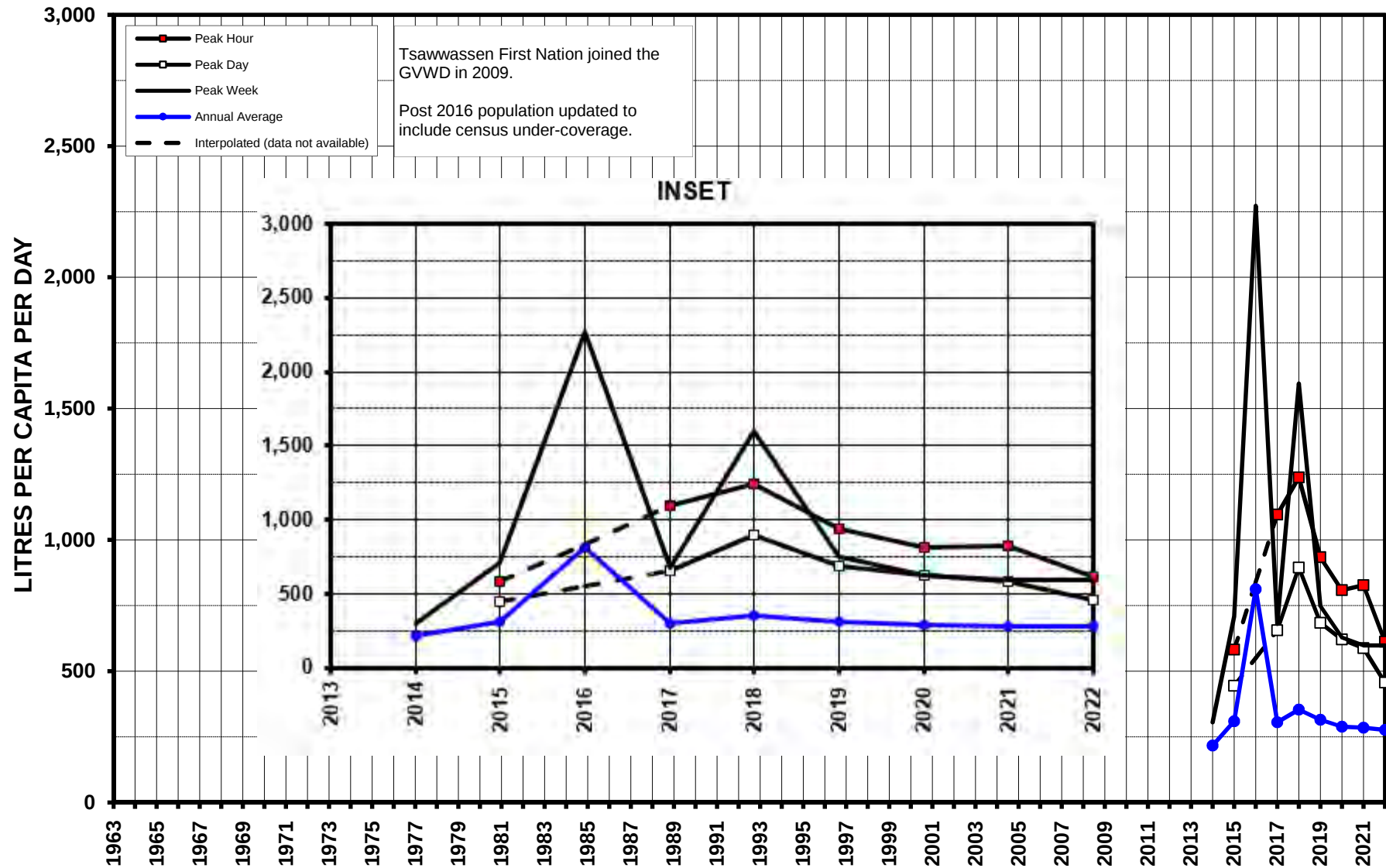
Greater Vancouver Water District City of Richmond - Per Capita



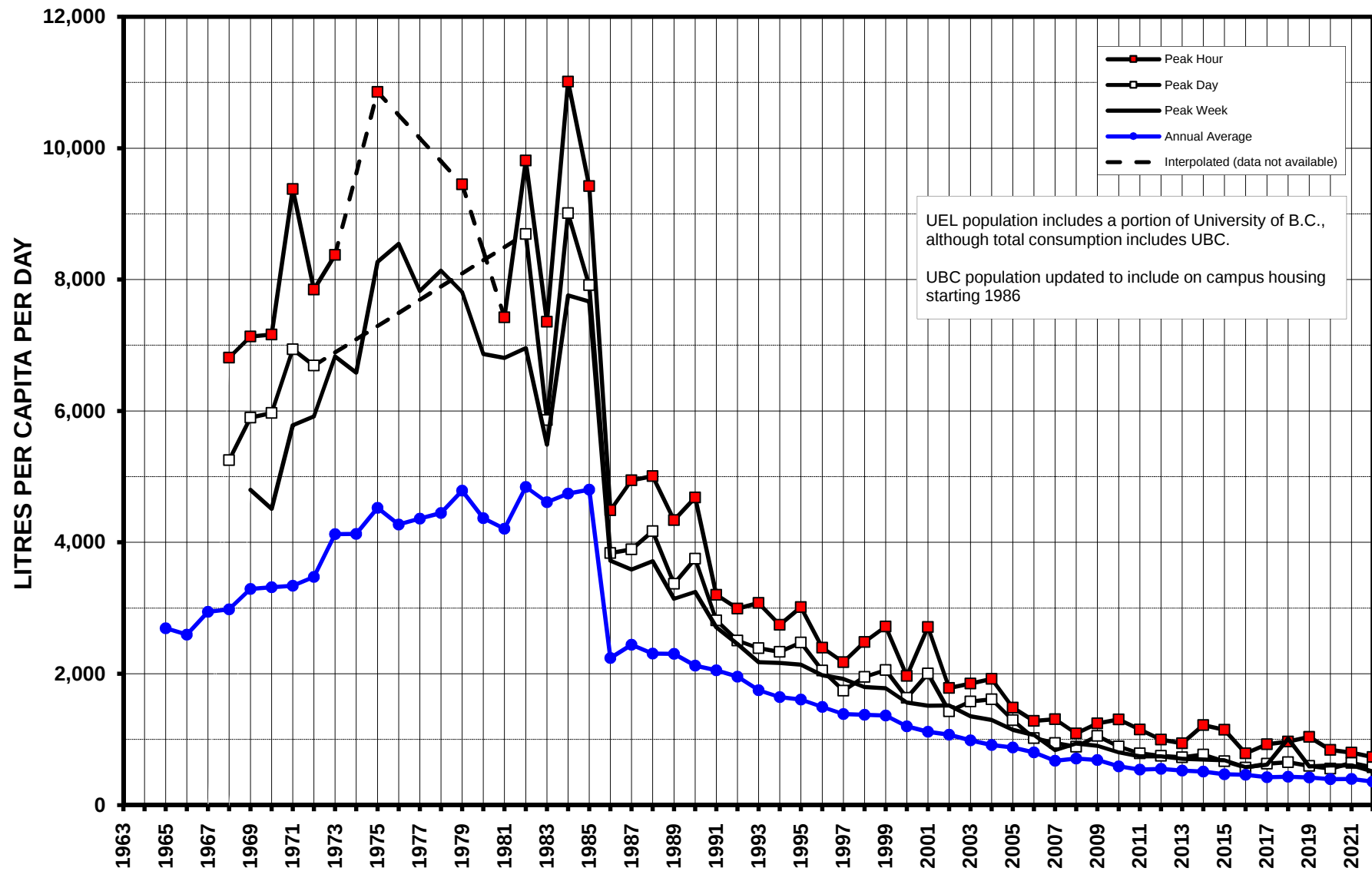
Greater Vancouver Water District City of Surrey - Per Capita



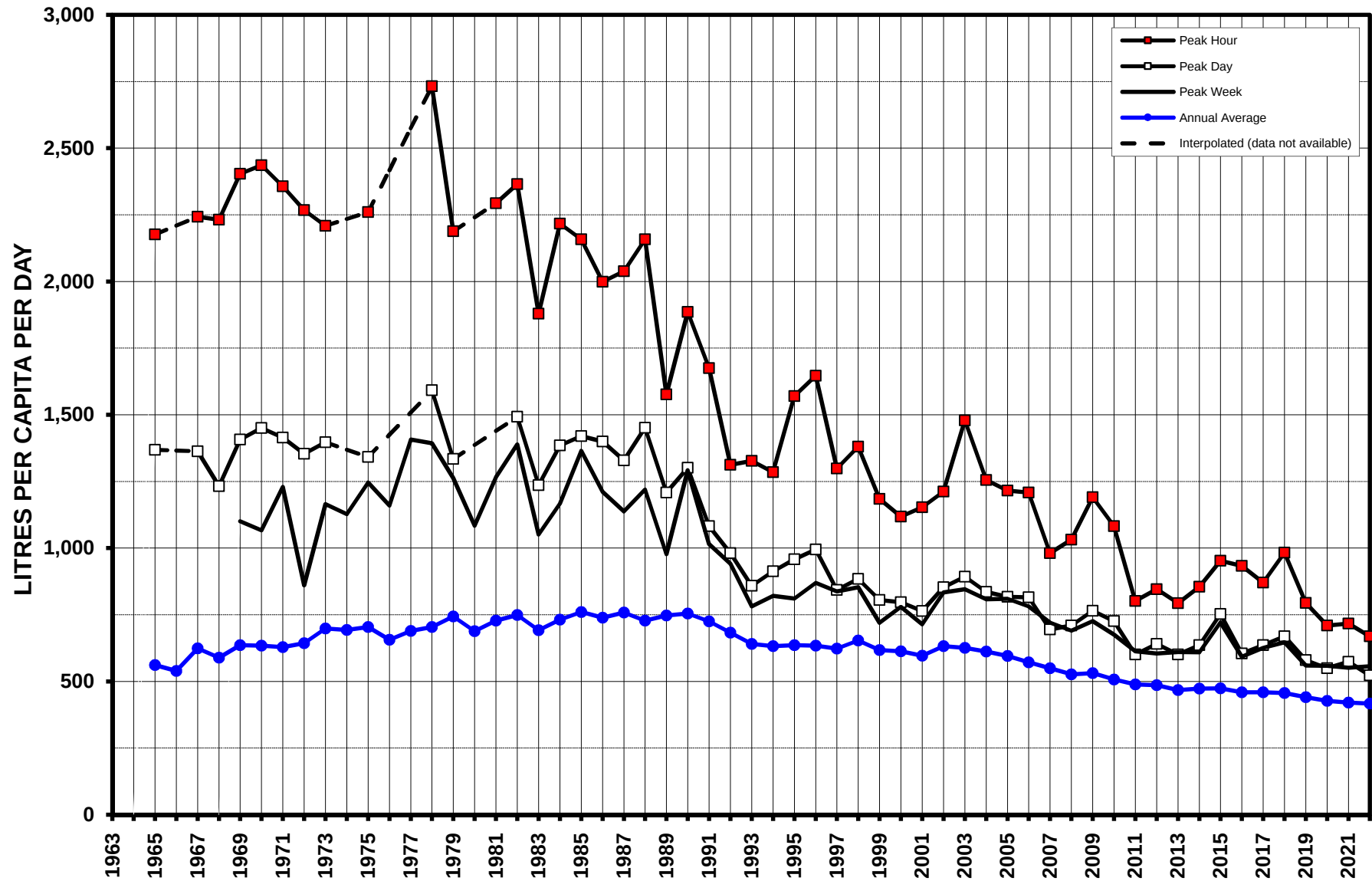
Greater Vancouver Water District Tsawwassen First Nation- Per Capita



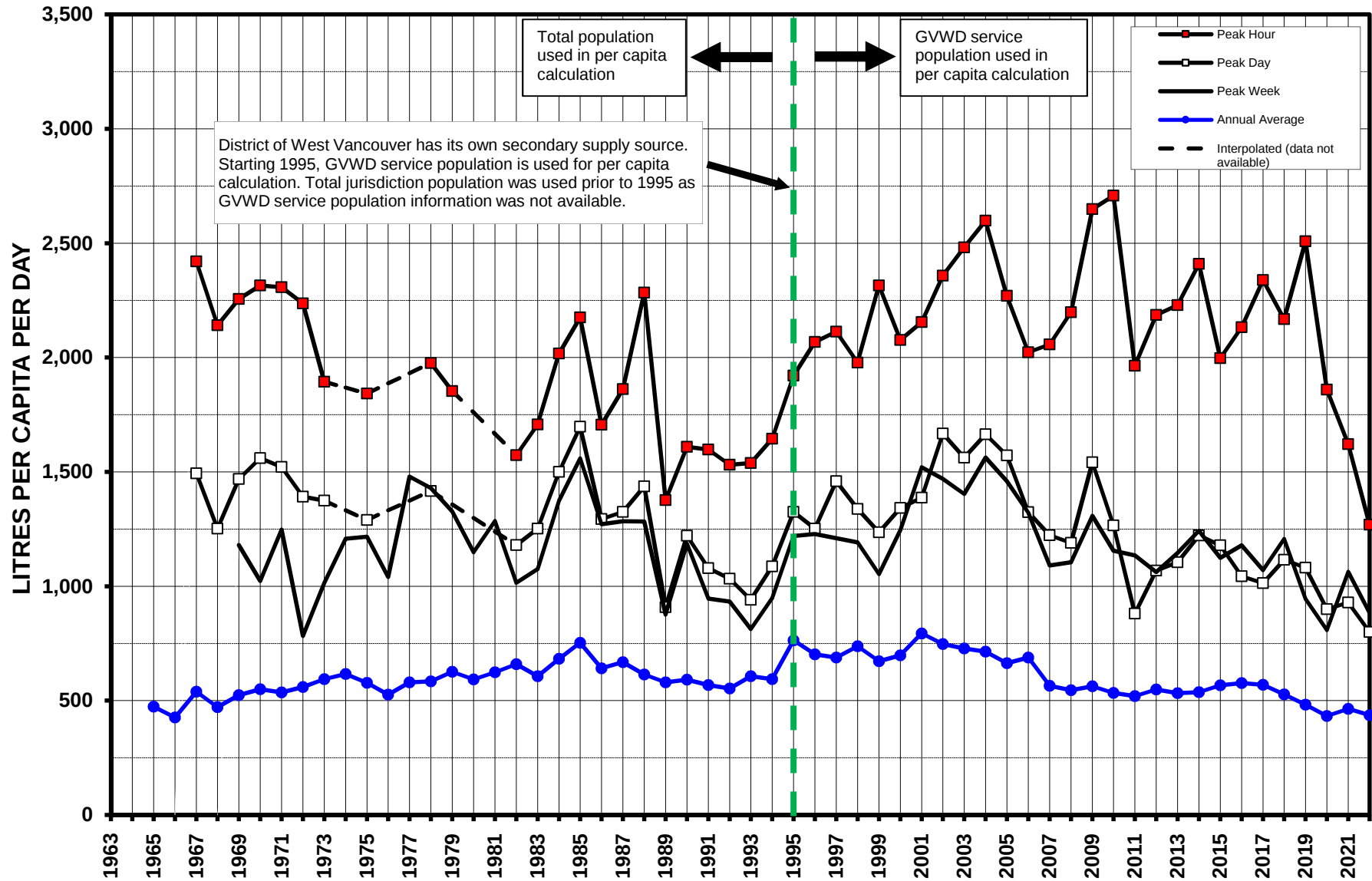
Greater Vancouver Water District University Endowment Lands - Per Capita



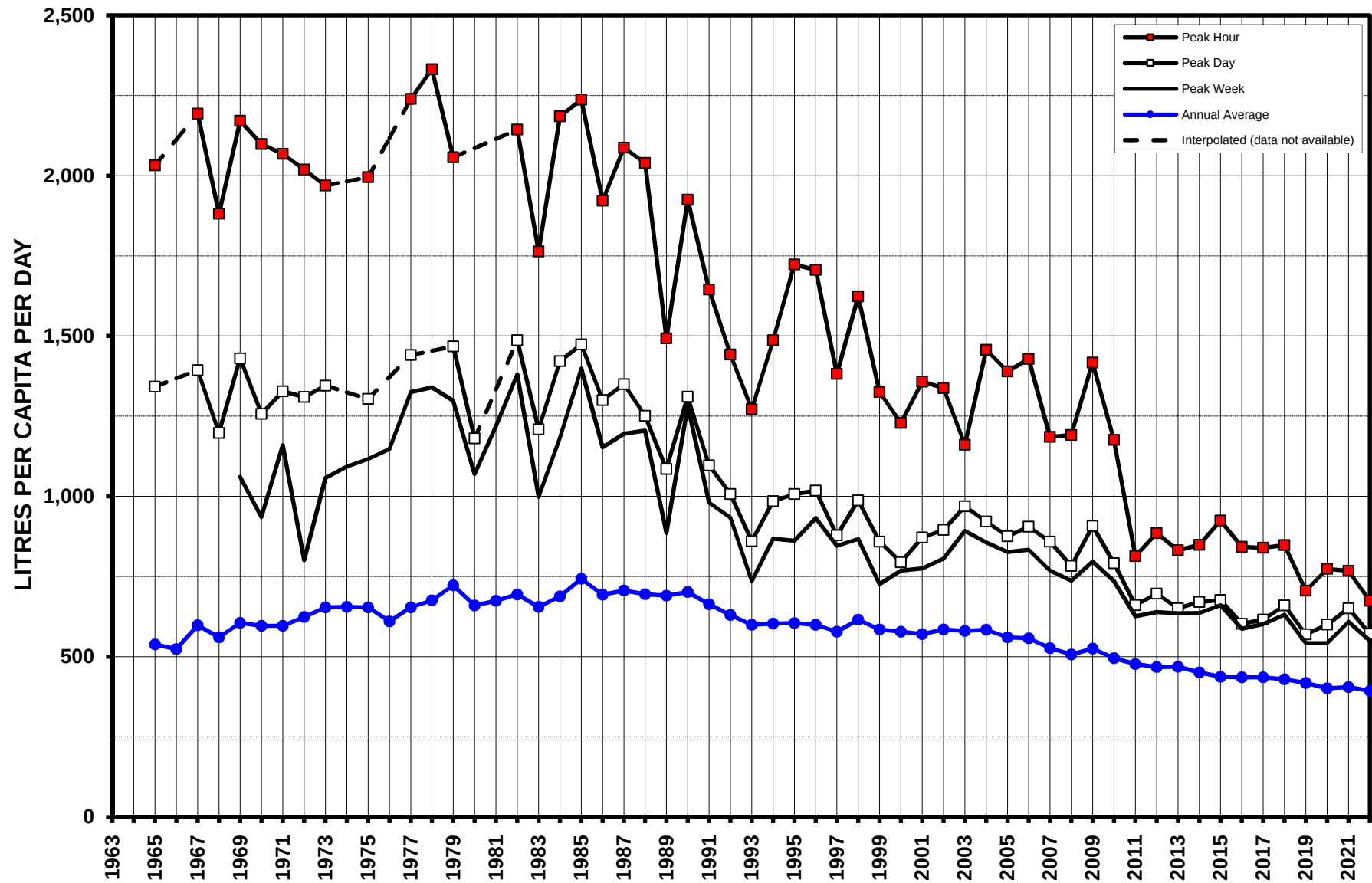
Greater Vancouver Water District City of Vancouver - Per Capita



Greater Vancouver Water District District of West Vancouver - Per Capita



Greater Vancouver Water District Whole System - Per Capita



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Water Services

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Water Services Department

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