

Waitaki at Waitaki Dam

M:\22163\Data Tables\8714\[Waitaki at Waitaki Dam.xls]Summary

All values are flows in cubic metres per second

Date: 13/12/04

Site No.8714

Version: 1

Catchment Area (km²) **9735**
 Data period **1927 - 2004**

Low Flow Statistics (Provided by Environment Canterbury, 2004)

Mean Annual Low Flow (MALF) (m³/s) Not Available
 5 Year Low Flow (m³/s) Not Available
 10 Year Low Flow (m³/s) Not Available

Monthly Statistics

Full Record Statistics

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Means
90% Highest (m ³ /s)	732	642	585	518	442	393	414	418	414	456	514	544	429
Mean Flow (m³/s)	453	452	422	381	321	287	288	286	299	339	377	408	359
Median Flow (m ³ /s)	415	429	393	358	309	297	280	288	299	323	356	384	363
10% Lowest (m ³ /s)	283	314	303	238	200	186	155	148	170	216	264	262	287

1980 - 2003 Statistics

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Means
90% Highest (m ³ /s)	621	513	635	452	420	416	425	455	453	450	513	558	435
Mean Flow (m³/s)	426	420	449	380	361	327	362	370	379	366	386	389	385
Median Flow (m ³ /s)	379	409	409	382	361	315	387	381	388	366	359	342	380
10% Lowest (m ³ /s)	286	342	362	302	299	239	286	292	302	303	296	284	339

Seasonal Statistics

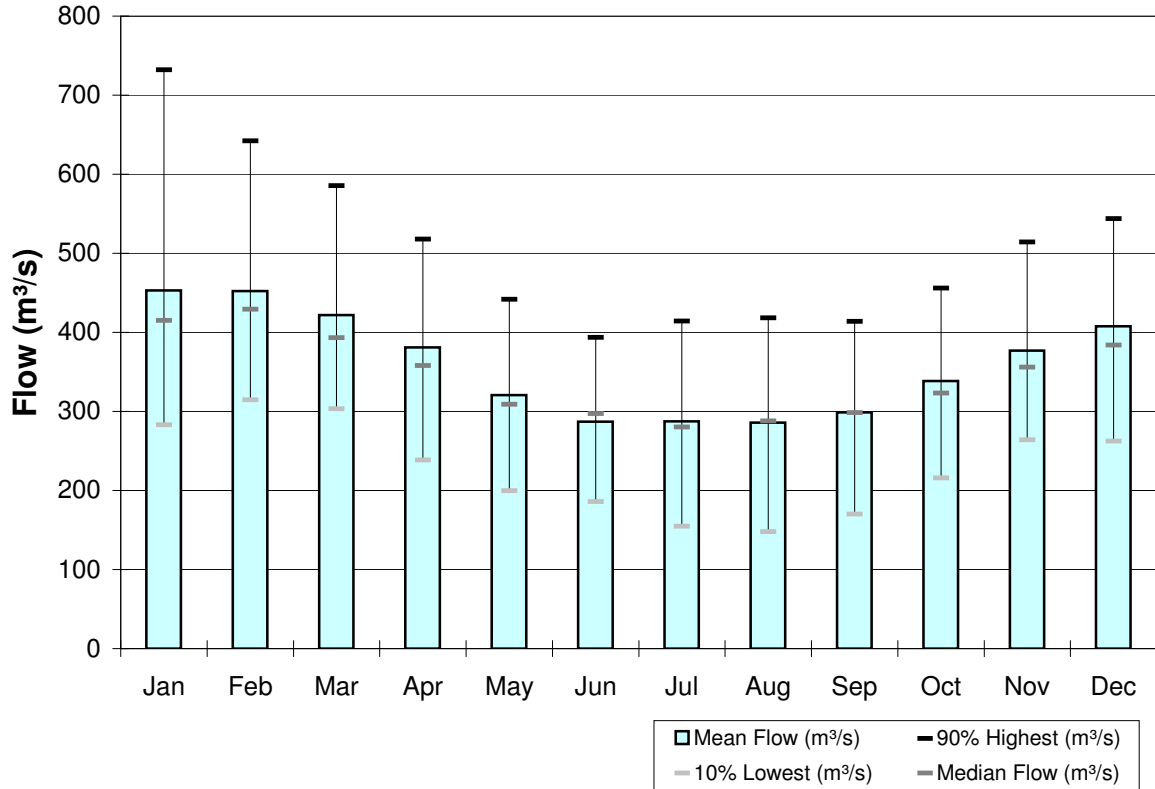
Full Record Statistics

	Summer	Autumn	Winter	Spring	
90% Highest (m ³ /s)	615	498	391	446	Summer = Dec, Jan, Feb Autumn = Mar, Apr, May Winter = Jun, Jul, Aug Spring = Sep, Oct, Nov
Mean Flow (m ³ /s)	436	374	286	338	
Median Flow (m ³ /s)	407	365	289	337	
10% Lowest (m ³ /s)	309	276	182	246	

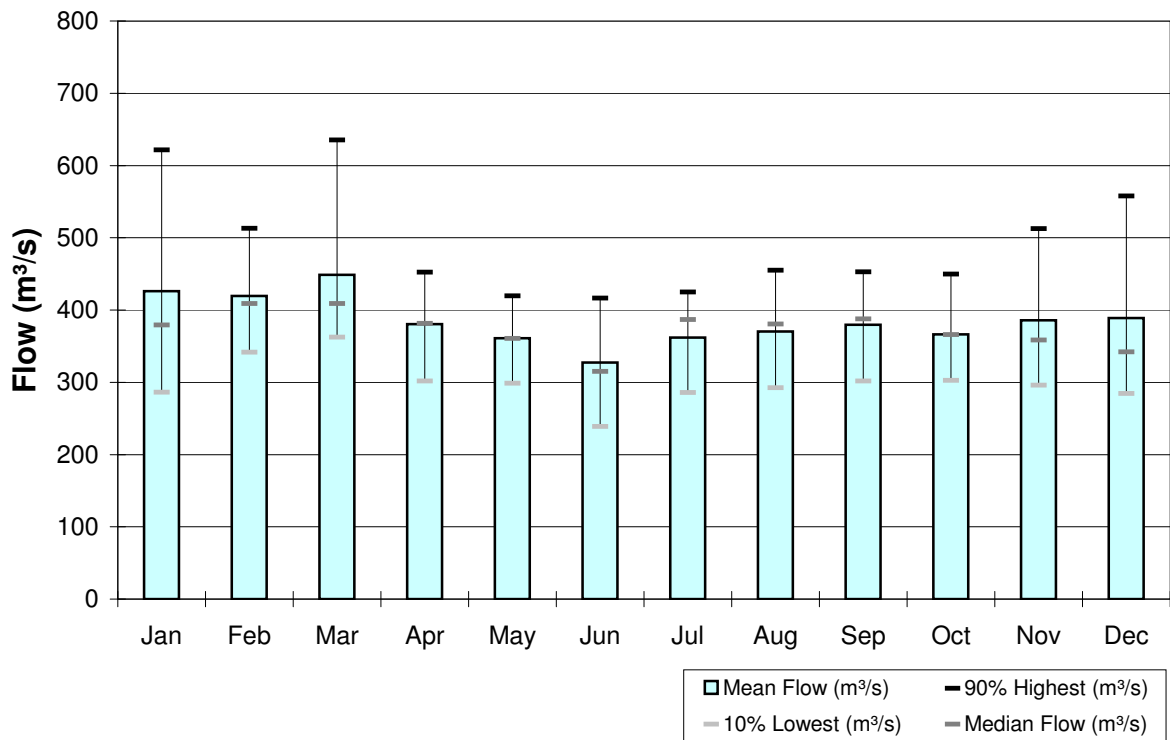
1980 - 2003 Statistics

	Summer	Autumn	Winter	Spring
90% Highest (m ³ /s)	603	466	412	447
Mean Flow (m ³ /s)	410	396	350	377
Median Flow (m ³ /s)	374	396	360	374
10% Lowest (m ³ /s)	300	329	268	316

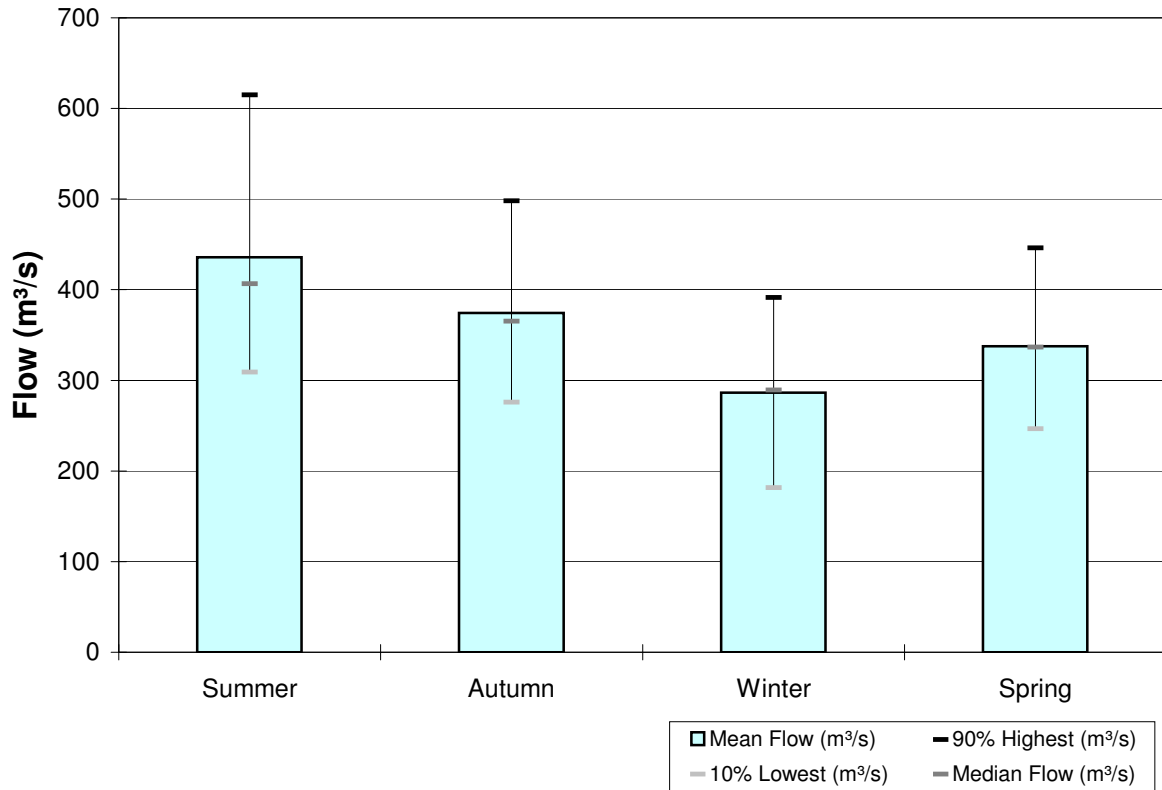
**SITE 8714 Waitaki at Waitaki Dam - MONTHLY FLOWS
FULL RECORD (Aug 1927 - Sep 2004)**



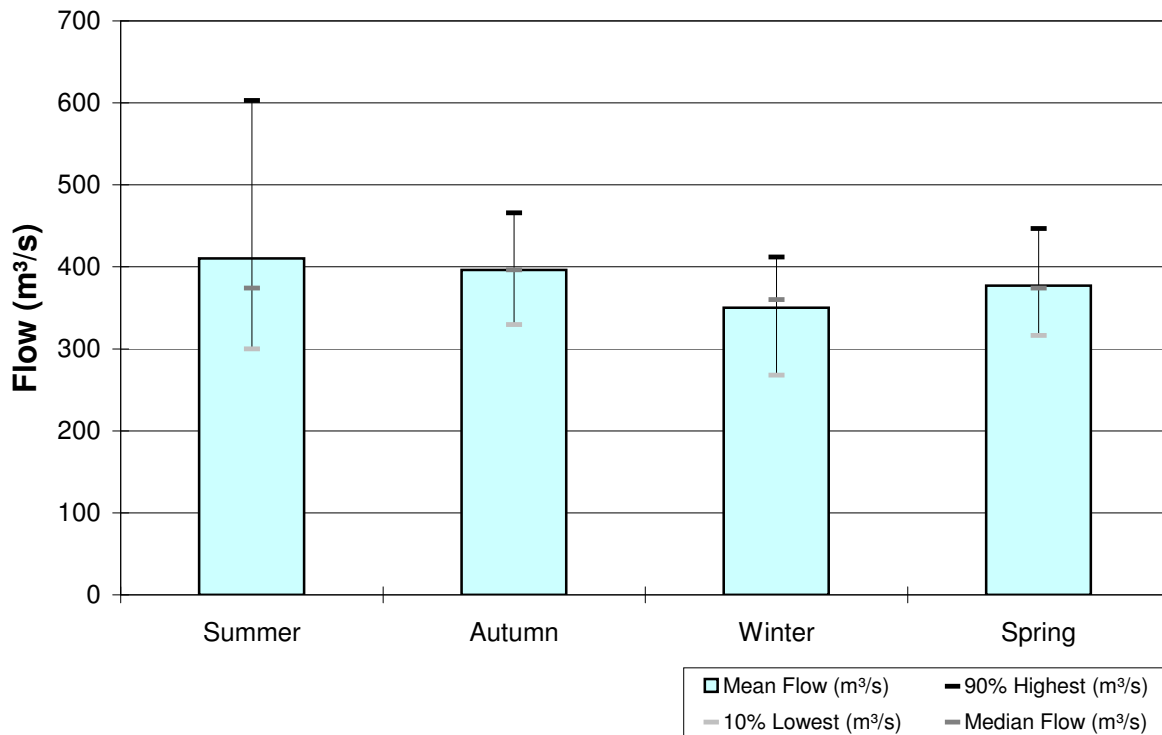
**SITE 8714 Waitaki at Waitaki Dam - MONTHLY FLOWS
JAN 1980 - DEC 2003**



**SITE 8714 Waitaki at Waitaki Dam - SEASONAL FLOWS
FULL RECORD (Aug 1927 - Sep 2004)**



**SITE 8714 Waitaki at Waitaki Dam - SEASONAL FLOWS
JAN 1980 - DEC 2003**



All values are flows in cubic metres per second

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Mean
1927	?	?	?	?	?	?	?	169	175	208	350	438	?
1928	404	339	230	901	469	267	192	176	220	678	438	421	394
1929	944	423	429	247	163	430	244	216	324	290	433	659	400
1930	769	592	377	241	199	141	100	102	283	414	416	502	344
1931	1079	992	451	423	171	239	168	145	181	502	402	535	437
1932	415	436	328	321	237	146	110	104	148	279	406	463	282
1933	424	780	547	627	382	220	277	295	185	257	302	466	394
1934	430	457	315	459	485	300	204	246	272	590	395	440	382
1935	636	541	456	380	259	266	156	166	113	195	282	449	324
1936	417	406	369	432	294	142	179	246	272	529	643	486	368
1937	517	431	369	522	303	238	143	142	146	169	217	332	293
1938	707	462	486	680	294	222	193	220	280	313	357	494	392
1939	308	305	308	211	200	262	185	128	215	262	333	478	266
1940	551	544	681	331	395	266	163	122	129	311	402	407	358
1941	443	571	393	309	176	270	203	139	145	160	304	449	295
1942	436	328	341	724	485	221	259	151	186	631	527	557	404
1943	421	493	398	242	229	151	152	121	233	404	443	503	315
1944	444	652	576	569	332	192	233	215	188	271	495	458	384
1945	940	758	598	465	256	169	136	234	413	380	677	628	469
1946	524	705	446	263	184	137	126	240	374	531	306	524	362
1947	390	398	290	201	149	136	153	157	174	405	402	475	277
1948	486	320	307	240	160	213	204	162	170	354	768	482	322
1949	459	641	569	397	279	301	270	331	201	385	412	384	384
1950	562	340	297	224	206	322	266	306	301	294	288	367	315
1951	423	363	326	367	365	187	212	290	216	314	366	415	320
1952	437	656	398	354	341	279	232	149	170	291	320	318	327
1953	306	345	357	316	351	319	275	283	306	255	304	331	312
1954	418	520	422	362	328	315	280	237	208	221	350	347	333
1955	338	468	469	410	348	415	345	270	288	345	324	359	364
1956	410	428	381	276	304	336	337	196	177	182	282	433	312
1957	407	441	334	334	470	210	343	238	162	270	597	1018	402
1958	933	1132	753	483	464	305	217	197	154	262	396	442	474
1959	460	364	247	234	236	228	207	184	236	181	360	531	289
1960	451	560	374	283	248	192	234	259	305	340	294	275	317
1961	321	421	457	485	273	265	294	248	244	305	452	311	339
1962	533	343	355	314	307	308	299	291	246	325	441	295	338
1963	327	491	393	359	337	297	354	391	343	229	205	227	328
1964	189	341	349	346	297	313	368	310	196	162	157	42	255
1965	242	344	441	275	219	268	273	274	277	313	316	359	300
1966	985	585	397	373	239	236	254	286	246	255	273	241	363
1967	332	544	843	607	426	311	380	374	372	300	352	691	461
1968	510	515	620	421	479	371	284	316	309	372	505	461	430
1969	411	318	375	372	291	309	258	264	407	362	336	325	336
1970	399	446	431	358	307	269	247	342	733	588	512	505	427
1971	285	289	320	255	258	325	358	230	279	307	262	237	284
1972	412	351	412	298	300	343	303	348	358	326	476	406	361
1973	377	368	298	272	273	294	363	307	255	309	447	273	319
1974	419	346	388	480	274	315	181	329	285	237	246	328	319
1975	331	365	455	719	424	324	416	419	339	291	260	392	395
1976	374	298	225	204	192	312	393	365	314	235	265	248	285
1977	191	271	205	224	247	213	195	259	324	196	168	133	218
1978	124	238	340	211	309	403	389	372	347	351	201	194	290
1979	272	233	245	448	514	393	437	423	392	347	293	532	379
1980	851	554	353	348	419	398	428	413	338	356	502	315	440
1981	332	463	667	394	338	430	425	493	416	323	336	282	408
1982	279	309	660	387	339	358	413	349	315	310	361	319	367
1983	368	352	363	406	485	462	496	351	366	456	651	710	456
1984	494	520	437	346	347	297	386	467	395	346	300	585	410
1985	854	382	376	236	305	290	397	382	384	394	294	290	383
1986	274	258	380	345	340	367	387	379	426	407	356	357	357
1987	357	384	577	508	380	424	424	378	400	384	298	353	406
1988	371	359	362	390	315	241	271	328	385	368	517	494	367
1989	300	446	539	446	412	368	412	425	251	337	295	300	377

1990	302	343	371	281	322	394	396	412	454	456	437	368	378
1991	280	487	412	429	395	354	391	330	390	386	373	340	380
1992	333	359	385	338	372	184	136	166	220	233	271	291	274
1993	316	369	418	328	271	292	422	483	450	355	320	272	358
1994	510	444	518	376	296	300	334	427	503	309	535	386	411
1995	394	456	379	445	427	299	307	388	419	379	344	1076	443
1996	669	644	502	442	385	297	390	395	323	364	355	316	423
1997	430	429	358	297	286	281	301	368	372	317	304	295	336
1998	303	449	697	515	386	366	347	332	373	442	474	344	419
1999	436	463	408	312	376	330	378	397	393	296	383	246	368
2000	412	389	433	407	380	385	358	420	497	428	411	392	409
2001	488	341	410	356	420	238	304	187	296	300	338	348	336
2002	485	496	373	343	324	271	301	336	396	453	420	357	379
2003	387	374	392	455	349	230	279	277	344	388	388	298	347
2004	323	468	557	341	299	348	421	418	369	?	?	?	?
