Table 3.2 Waitaki Catchment - Flow Statistics at Flow Recording Sites

(All Flows in Cubic Meters Per Second)

DATA PERIOD Full Record

	Site Name	Data Available	Site No.	Min	Max	Mean	Std.Dev	Median	Lower Q.	Upper Q.	95%
1	Lake Tekapo Inflow	1925-2004	8790	2.000	2924	**81.53**	77.25	63.85	38.66	99.43	203.0
2	Tekapo Canal	1977-2004	8793	0.000	134.1	**64.84**	41.410	67.13	30.61	104.2	116.0
3	Lake Pukaki Natural Inflow	1925-2004	68770	2.000	2688	**128.2**	121.0	99.1	54.9	161.7	322.3
4	Pukaki Canal	1979-2004	8773	-0.001	676.3	**182.8**	120.9	124.3	36.1	231.2	367.6
5	Lake Ohau Inflow	1926-2004	8760	2.000	2380	**81.37**	73.53	63.44	40.13	97.73	196.9
6	Lake Ohau Canal	1979-2004	8763	0.000	220.5	**72.89**	56.78	52.68	30.98	108.8	185.3
7	Ahuriri at South Diadem	1963-2004	71116	6.611	570.0	**23.70**	20.32	18.23	12.97	27.36	54.92
8	Omarama at Above Tara Hills	1988-2004	71189	0.293	24.65	**1.534**	1.303	1.147	0.732	1.823	4.122
9	Omarama at Wardells Br	1988-1995	71136	0.416	35.04	**2.419**	1.970	1.927	1.304	2.844	5.392
10	Twizel at Lake Poaka	1986-1995	71117	0.005	98.99	**2.573**	3.583	1.646	0.863	3.134	7.421
11	Twizel at SHBr	1962-1973	71121	0.256	139.5	**4.638**	5.560	3.013	1.856	5.27	13.45
12	Mary Burn at Mt MacDonald	1969-2004	71122	0.098	17.10	**0.566**	0.471	0.414	0.306	0.648	1.346
13	Mary Burn at Mary Hill	1964-1985	71127	0.275	36.42	**0.689**	0.848	0.495	0.419	0.703	1.548
14	Irishman at Windy Ridge	1962-1971	71128	0.017	75.29	**1.348**	2.076	0.832	0.477	1.543	3.678
15	Forks at Balmoral	1962-2004	71129	0.741	61.52	**3.202**	2.378	2.524	1.784	3.863	7.174
16	Grays River at Bridge										
17	Otamatapaio at Top Bridge										
18	Stony at Slip Panel Corner										
19	Waitaki at Benmore Dam	1965-2004	8734	0.000	2581	**341.4**	178.3	335.3	227.8	441.1	613.7
20	Otematata at Pumphouse	1962-1969	71109	0.165	190.5	**7.753**	8.078	5.302	3.212	8.947	21.82
21	Waitaki at Aviemore Dam	1968-2004	8724	0.000	2674	**356.5**	185.0	367.7	232.9	473.3	624.0
22	Waitaki at Waitaki Dam	1927-2004	8714	2.460	2914	**358.5**	178.2	336.5	244.5	429.6	656.2
23	Waitaki at Kurow	1964-2004	71104	19.768	2669	**368.1**	151.5	356.0	275.9	435.4	593.6
24	Hakataramea at above MHbr	1964-2004	71103	0.446	1352	**5.792**	13.28	3.417	1.789	6.065	16.38
25	Otekaieke at Weir	1971-1995	71102/67/78	0.022	144.5	**1.154**	2.73	0.695	0.389	1.175	3.12
26	Maerewhenua at Kellys Gully	1970-2004	71106	0.201	319.2	**2.823**	6.47	1.629	0.987	2.844	7.507
27	Awamoko at Georgetown	1979-1995	71170	0.000	147.5	**0.245**	2.57	0.046	0.007	0.13	0.525
28	Waitaki at River Mouth										
29	Redcliffs at Intake	1990-2004	71187	-0.033	6.740	**2.281**	1.77	1.951	0.563	3.435	5.622
30	Morvern Glenavy I.S. at Ross Rd	1990-2004	71190	-0.323	16.52	**6.589**	4.68	7.509	1.679	10.84	13.01
31	Lower Waitaki I.S. at Bortons	1991-2004	71193	0.596	17.98	**10.22**	4.99	11.60	4.644	14.98	16.30

DATA PERIOD 1980 - 2003

	Site Name	Data Available	Site No.	Min	Max	Mean	Std.Dev	Median	Lower Q.	Upper Q.	95%
1	Lake Tekapo Inflow	1925-2004	8790	2.000	2345	**85.86**	79.33	67.14	43.53	101.9	207.8
2	Tekapo Canal	1977-2004	8793	0.000	129.8	**75.73**	38.27	93.09	52.64	107.2	118.7
3	Lake Pukaki Natural Inflow	1925-2004	68770	2.000	2688	**128.2**	124.5	99.77	58.08	157.7	316.0
4	Pukaki Canal	1979-2004	8773	-0.001	676.3	**185.2**	131.2	191.9	63.89	288.0	399.2
5	Lake Ohau Inflow	1926-2004	8760	2.000	2380	**82.99**	83.57	62.08	39.51	98.31	206.9
6	Lake Ohau Canal	1979-2004	8763	0.000	220.5	**72.90**	57.05	52.50	30.97	108.9	186.3
7	Ahuriri at South Diadem	1963-2004	71116	6.661	570.0	**24.52**	20.71	19.02	13.72	28.33	56.02
8	Omarama at Above Tara Hills	1988-2004	71189	0.293	24.65	**1.522**	1.313	1.118	0.720	1.802	4.133
9	Omarama at Wardells Br	1988-1995	71136								
10	Twizel at Lake Poaka	1986-1995	71117								
11	Twizel at SHBr	1962-1973	71121								
12	Mary Burn at Mt MacDonald	1969-2004	71122	0.193	7.290	**0.596**	0.457	0.443	0.329	0.685	1.405
13	Mary Burn at Mary Hill	1964-1985	71127								
14	Irishman at Windy Ridge	1962-1971	71128								
15	Forks at Balmoral	1962-2004	71129	0.815	61.52	**3.31**	2.40	2.61	1.87	3.99	7.31
16	Grays River at Bridge										
17	Otamatapaio at Top Bridge										
18	Stony at Slip Panel Corner										
19	Waitaki at Benmore Dam	1965-2004	8734	0.000	2581	**353.6**	168.6	343.5	250.7	447.2	600.2
20	Otematata at Pumphouse	1962-1969	71109								
21	Waitaki at Aviemore Dam	1968-2004	8724	0.000	2674	**369.2**	180.4	382.3	252.5	479.3	624.4
22	Waitaki at Waitaki Dam	1927-2004	8714	61.721	2914	**384.6**	144.5	369.4	307.3	439.6	568.2
23	Waitaki at Kurow	1964-2004	71104	45.16	2669	**374.6**	130.5	362.0	300.5	433.0	559.5
24	Hakataramea at above MHbr	1964-2004	71103	0.446	1352	**5.714**	15.24	3.237	1.745	5.822	15.59
25	Otekaieke at Weir	1971-1995	71102/67/78								
26	Maerewhenua at Kellys Gully	1970-2004	71106	0.235	319.2	**2.791**	6.987	1.573	0.972	2.708	7.288
27	Awamoko at Georgetown	1979-1995	71170								
28	Waitaki at River Mouth										
29	Redcliffs at Intake	1990-2004	71187								
30	Morvern Glenavy I.S. at Ross Rd	1990-2004	71190								
31	Lower Waitaki I.S. at Bortons	1991-2004	71193								