

Supplementary Table 1. Temperature (T), precipitation (P), potential evapotranspiration (PET, estimated using the Hamon method) and discharge (Q) from catchment 5-water year cool periods (period with lowest average temperature) and 5-water year warm periods (period with highest average temperature).

ID	Catchment	Cool Period					Warm Period				
		Year	T (°C)	P (mm)	PET (mm)	Q (mm)	Year	T (°C)	P (mm)	PET (mm)	Q (mm)
1a	AND 2	1982	8.6	2757.5	581.5	1796.2	1988	9.4	1960.4	629.0	937.4
		1983	9.2	2602.5	602.4	1443.3	1989	8.8	2270.4	586.4	1362.9
		1984	8.9	2696.0	592.1	1586.0	1990	9.5	1964.0	621.6	994.6
		1985	8.6	2079.7	594.3	1143.1	1991	8.9	1928.1	593.2	971.0
		1986	9.0	2378.6	600.4	1275.0	1992	10.6	1710.7	668.9	770.7
1b	AND 8	1982	8.6	2757.5	581.5	1633.1	1988	9.4	1960.4	629.0	800.9
		1983	9.2	2602.5	602.4	1481.5	1989	8.8	2270.4	586.4	1111.7
		1984	8.9	2696.0	592.1	1485.7	1990	9.5	1964.0	621.6	886.5
		1985	8.6	2079.7	594.3	1111.2	1991	8.9	1928.1	593.2	876.6
		1986	9.0	2378.6	600.4	1147.4	1992	10.6	1710.7	668.9	626.9
2	CAR	1985	9.3	2278.8	598.7	1462.5	1991	10.2	3382.1	619.9	2505.0
		1986	9.8	2867.7	615.9	1921.8	1992	11.2	2682.6	665.2	2534.9
		1987	10.7	3029.5	638.3	2018.8	1993	11.3	2665.3	667.5	2026.2
		1988	9.3	2587.5	580.9	1601.8	1994	10.9	2776.4	638.2	2829.4
		1989	9.0	2484.4	591.5	1637.6	1995	11.6	3260.8	677.5	2639.7
3a	CWT 17	1977	11.9	1837.0	737.1	711.0	1989	13.2	2187.8	766.9	667.0
		1978	11.9	1581.2	727.0	683.6	1990	13.4	2015.5	787.4	954.0
		1979	12.4	2233.7	739.3	974.7	1991	14.1	1958.7	816.4	699.6

ID	Catchment	Cool Period					Warm Period				
		Year	T (°C)	P (mm)	PET (mm)	Q (mm)	Year	T (°C)	P (mm)	PET (mm)	Q (mm)
		1980	12.8	1934.7	769.9	974.8	1992	12.9	1891.6	752.5	613.7
		1981	12.1	1238.6	742.6	186.9	1993	13.1	1937.8	784.5	971.1
3b	CWT 18	1977	11.9	1837.0	737.1	1046.6	1989	13.2	2187.8	766.9	1068.4
		1978	11.9	1581.2	727.0	1039.2	1990	13.4	2015.5	787.4	1492.2
		1979	12.4	2233.7	739.3	1355.2	1991	14.1	1958.7	816.4	1186.3
		1980	12.8	1934.7	769.9	1473.9	1992	12.9	1891.6	752.5	1009.3
		1981	12.1	1238.6	742.6	466.4	1993	13.1	1937.8	784.5	1439.3
4a	DOR HP3	1992	3.6	997.6	421.8	559.6	1998	6.1	795.0	485.2	336.6
		1993	3.9	962.4	448.6	619.5	1999	5.7	817.7	507.9	339.0
		1994	3.3	943.1	452.8	532.8	2000	4.9	1026.4	484.0	581.6
		1995	5.3	1112.1	491.1	661.6	2001	4.9	936.8	482.1	398.0
		1996	3.6	1241.1	457.1	731.6	2002	6.4	1074.4	511.1	578.6
4b	DOR HP3A	1992	3.6	997.6	421.8	541.5	1998	6.1	795.0	485.2	342.7
		1993	3.9	962.4	448.6	583.9	1999	5.7	817.7	507.9	311.3
		1994	3.3	943.1	452.8	502.3	2000	4.9	1026.4	484.0	681.5
		1995	5.3	1112.1	491.1	642.7	2001	4.9	936.8	482.1	394.1
		1996	3.6	1241.1	457.1	755.6	2002	6.4	1074.4	511.1	655.2
4c	DOR HP4	1992	3.6	997.6	421.8	527.0	1998	6.1	795.0	485.2	293.8
		1993	3.9	962.4	448.6	600.1	1999	5.7	817.7	507.9	286.5
		1994	3.3	943.1	452.8	526.3	2000	4.9	1026.4	484.0	551.7

ID	Catchment	Cool Period					Warm Period				
		Year	T (°C)	P (mm)	PET (mm)	Q (mm)	Year	T (°C)	P (mm)	PET (mm)	Q (mm)
		4					0		4		
		1995	5.3	1112.1	491.1	635.7	2001	4.9	936.8	482.1	309.3
		1996	3.6	1241.1	457.1	721.1	2002	6.4	1074.4	511.1	704.3
4d	DOR HP5	1992	3.6	997.6	421.8	564.5	1998	6.1	795.0	485.2	336.5
		1993	3.9	962.4	448.6	664.7	1999	5.7	817.7	507.9	402.8
		1994	3.3	943.1	452.8	525.6	2000	4.9	1026.4	484.0	474.5
		1995	5.3	1112.1	491.1	694.9	2001	4.9	936.8	482.1	322.7
		1996	3.6	1241.1	457.1	824.1	2002	6.4	1074.4	511.1	631.2
4e	DOR PC	1992	4.1	1024.6	461.1	536.7	1998	6.7	793.9	549.0	360.5
		1993	4.4	994.9	489.6	551.6	1999	6.6	926.8	562.3	338.5
		1994	3.5	877.5	483.4	436.8	2000	5.4	1078.4	506.6	645.3
		1995	5.6	894.9	534.4	485.0	2001	5.4	889.1	529.1	296.7
		1996	4.1	1268.4	487.9	759.1	2002	6.8	952.2	555.3	624.7
5	ELA	1993	2.1	645.3	447.0	182.8	1998	5.3	657.5	526.2	140.1
		1994	1.7	681.6	473.7	137.1	1999	3.9	848.9	494.9	277.0
		1995	3.8	612.7	506.8	175.2	2000	3.8	843.2	482.8	336.7
		1996	1.3	916.7	451.8	297.6	2001	3.2	1005.0	510.2	406.3
		1997	1.8	725.3	482.8	297.1	2002	3.7	738.0	510.3	262.4
6	FER	1977	8.1	1371.8	561.4	572.8	1987	10.0	1262.1	628.8	500.9
		1978	8.1	1428.8	581.2	715.0	1988	9.9	1256.9	655.8	479.3

ID	Catchment	Cool Period					Warm Period				
		Year	T (°C)	P (mm)	PET (mm)	Q (mm)	Year	T (°C)	P (mm)	PET (mm)	Q (mm)
		1979	8.5	1554.2	578.3	738.4	1989	9.3	1645.7	607.3	812.7
		1980	9.3	1511.8	621.9	759.6	1990	9.5	1484.4	636.0	669.8
		1981	8.6	1515.1	616.6	694.3	1991	11.1	1314.3	688.9	600.3
7a	HBR 3	1992	4.9	1344.4	451.8	887.1	1998	6.8	1392.1	491.7	901.9
		1993	5.4	1248.8	485.1	782.9	1999	6.9	1422.7	529.5	866.0
		1994	4.6	1338.7	486.6	853.4	2000	6.0	1326.7	502.4	934.4
		1995	6.2	1077.7	495.6	597.0	2001	6.2	1104.1	526.4	626.9
		1996	5.3	1722.7	475.5	1384.9	2002	7.2	1204.7	514.7	705.0
7b	HBR 6	1992	3.7	1380.9	411.4	892.8	1998	5.5	1465.5	457.6	987.2
		1993	3.9	1324.4	435.0	833.6	1999	5.8	1555.3	477.6	989.7
		1994	3.3	1404.6	422.1	900.8	2000	4.7	1409.0	448.9	1003.7
		1995	4.2	1142.6	423.7	651.8	2001	5.0	1155.4	494.6	703.3
		1996	4.3	1862.2	457.1	1518.3	2002	6.2	1266.8	490.1	759.4
8	LVW	1995	0.8	1285.7	186.3	992.5	2000	2.8	858.6	268.1	625.9
		1996	1.3	1175.5	227.0	995.3	2001	1.6	851.4	238.6	759.8
		1997	0.9	1295.1	222.3	976.0	2002	2.0	595.6	243.7	517.9
		1998	0.9	905.3	219.5	432.0	2003	1.5	897.7	231.5	1064.0
		1999	1.0	996.7	180.4	908.2	2004	1.4	924.9	235.3	397.7
9a	MAR 2	1993	2.6	758.2	443.7	164.2	1998	6.0	690.5	518.5	88.0
		1999	2.5	841.3	476.1	185.3	1999	5.0	1073.7	508.0	303.1

ID	Catchment	Cool Period					Warm Period				
		Year	T (°C)	P (mm)	PET (mm)	Q (mm)	Year	T (°C)	P (mm)	PET (mm)	Q (mm)
		4					9		3		
		1995	4.2	819.5	499.1	135.8	2000	4.9	569.7	518.2	71.9
		1996	1.7	792.0	470.7	223.6	2001	3.7	848.9	512.5	270.9
		1997	2.8	908.7	479.1	208.2	2002	5.0	851.6	521.5	246.5
9b	MAR 5	1998	1.8	785.4	416.3	114.1	1998	6.0	682.4	517.6	47.7
		1999	1.4	814.7	439.3	120.4	1999	5.0	1140.3	506.0	233.3
		1995	3.3	823.0	470.2	80.0	2000	5.1	611.9	527.0	50.6
		1996	1.3	778.8	473.0	177.0	2001	3.9	847.4	517.6	191.2
		1997	2.8	910.6	482.3	146.5	2002	5.2	745.3	535.3	100.2
10	NWT	1992	-3.2	1210.1	198.7	823.6	2000	-1.8	1436.6	239.1	845.5
		1993	-3.7	1342.8	192.1	905.2	2001	-3.1	1141.7	226.0	910.0
		1994	-2.9	1402.6	242.0	810.0	2002	-2.8	982.0	227.9	694.8
		1995	-3.9	1639.0	162.0	1003.8	2003	-3.7	1165.0	198.6	1076.1
		1996	-3.6	1407.4	211.0	963.9	2004	-2.6	1067.0	190.8	849.8
11a	TLW 35	1992	3.6	1413.6	423.4	812.1	1998	6.6	962.6	518.5	359.9
		1993	3.9	1438.6	454.0	826.9	1999	6.2	1281.5	534.7	494.9
		1994	3.1	1249.1	461.6	640.4	2000	5.5	1267.0	510.2	523.3
		1995	5.7	1198.2	517.8	530.8	2001	5.1	977.6	520.9	428.5
		1996	3.2	1480.4	461.6	744.0	2002	5.8	1460.1	513.0	733.6
11b	TLW 38	1992	3.6	1413.6	423.4	779.6	1998	6.6	962.6	518.5	357.2

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		Year	T (°C)	P (mm)	PET (mm)	Q (mm)	Year	T (°C)	P (mm)	PET (mm)	Q (mm)
		1993	3.9	1438.6	454.0	796.4	1999	6.2	1281.5	534.7	606.1
		1994	3.1	1249.1	461.6	644.5	2000	5.5	1267.0	510.2	565.1
		1995	5.7	1198.2	517.8	450.4	2001	5.1	977.6	520.9	429.0
		1996	3.2	1480.4	461.6	693.9	2002	5.8	1460.1	513.0	765.9
12	UPC	1995	-1.2	676.3	224.8	344.3	2002	-1.3	569.0	225.2	475.6
		1996	-1.9	724.1	188.3	456.7	2003	0.0	489.7	242.4	244.2
		1997	-1.5	866.0	231.4	570.3	2004	-0.4	838.2	269.0	369.4
		1998	0.4	690.7	257.5	447.3	2005	-0.6	641.9	225.1	419.6
		1999	-1.2	803.3	208.5	459.5	2006	-0.6	770.8	259.7	428.0