

General Information

River Name	Eden	Catchment Area (km2)	307
Station Name	Kemback	SAAR (mm) 61-90	800
Station Number	14001	Mean Annual Rain (mm) 62-91	802
Grid Reference	NO415158	Mean Annual PE (mm) 62-91	529
EA Region	SEPA-NE	Observed flow record	1967 to 2005



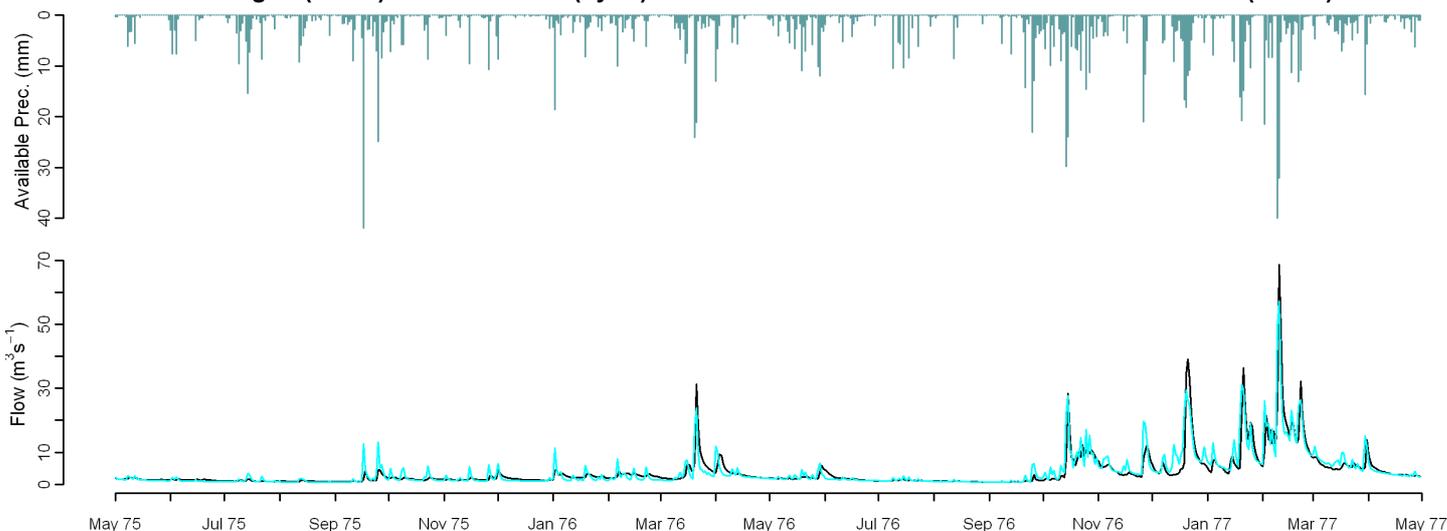
Observed Data

Comparison of gauged and simulated flow

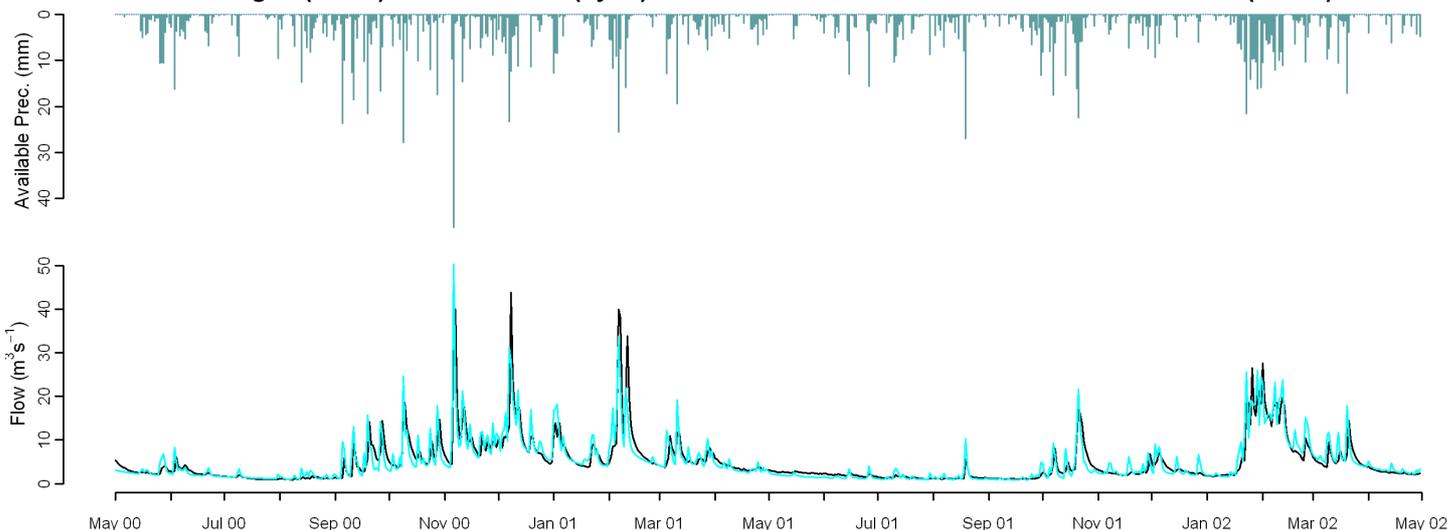
Model used: PDM

	Mean Annual	J	F	M	A	M	J	J	A	S	O	N	D	Nash Sutcliffe
MORECS (1971-2005)	1.3	1.0	3.0	2.1	-6.2	-4.0	-1.2	11.7	7.9	8.3	-2.1	2.5	1.0	0.68
Performance Band	1	1	1	1	1	1	1	1	1	1	1	1	1	1
FAO (1962-1991)	4.3	4.5	4.0	2.2	-3.7	-2.0	2.0	15.0	9.3	12.8	8.8	4.2	5.5	0.66
	Q90	Q75	Q50	Q25	Q5	RP2	RP5	RP10	RP20					
MORECS (1971-2005)	-11.5	-4.6	-0.8	2.3	6.4	-4.1	-7.6	-7.1	-4.9					
Performance Band	1	1	1	1	1									
FAO (1962-1991)	-10.0	-2.8	2.5	4.5	4.2	4.5	-1.4	-7.1	-13.2					

Gauged (black) and simulated (cyan) flows from observed climate - Eden at Kemback (14001)

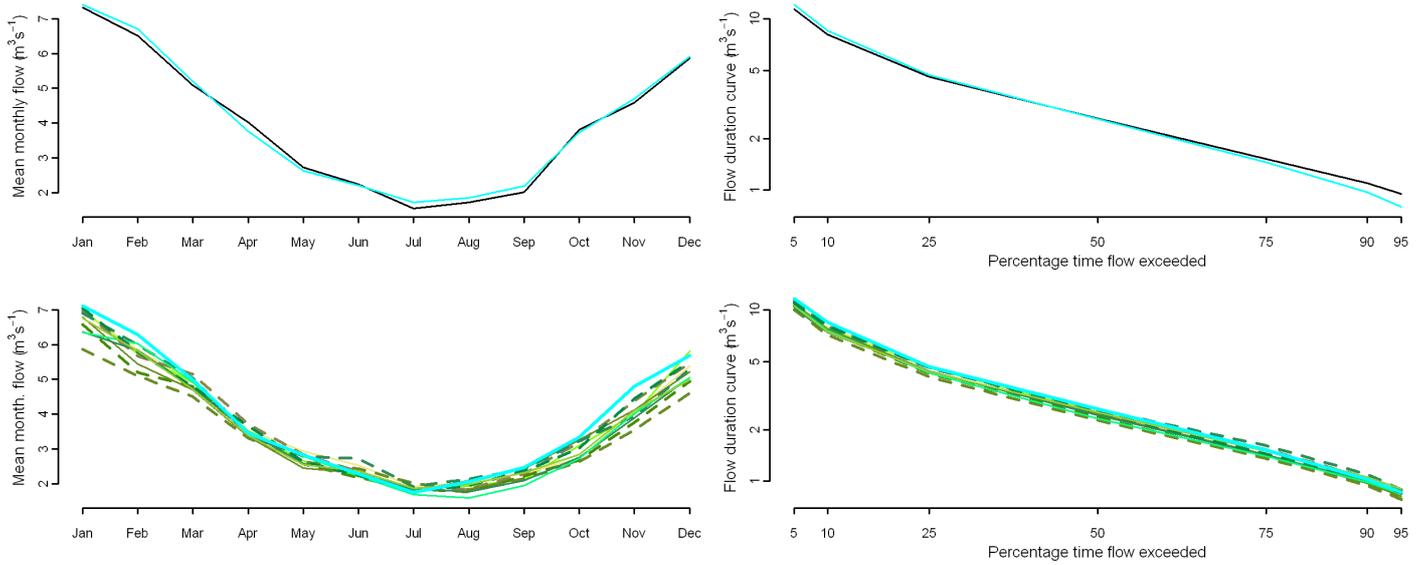


Gauged (black) and simulated (cyan) flows from observed climate - Eden at Kemback (14001)



Comparison of gauged and simulated flow (observed and modelled climate)

Gauged (black), simulated from obs. (cyan) and mod. (green) climate - Top 1971-2005 bottom 1962-1991 - Eden at Kemback (14001)



Percentage difference between flow simulated from observed climate and Future Flows Climate

	afgcx	afixa	afixc	afixh	afixi	afixj	afixk	afixl	afixm	afixo	afixq
Annual	-4	-10	-4	-1	-7	-13	-9	-3	-9	-4	-9
January	1	-9	0	1	-2	-11	-10	-1	-10	1	-5
April	1	-1	3	11	-5	-4	1	0	1	6	-5
July	9	9	10	5	0	3	4	6	-5	0	4
October	-8	-20	-19	-1	-5	-21	-15	-10	-20	-11	-9
Q90	0	-5	-2	5	-6	-8	-3	4	-4	0	2
Q75	0	-9	-2	3	-8	-10	-8	4	-9	-6	-2
Q50	-3	-10	-3	1	-8	-13	-7	-1	-12	-4	-5
Q25	-2	-8	-1	1	-7	-12	-5	-1	-8	0	-7
Q5	-5	-9	-6	-1	-6	-13	-11	-5	-7	-6	-13
RP2	-6	-8	-4	-9	0	-9	-8	-3	0	-5	-3
RP10	-9	-14	1	-8	7	-6	-10	0	4	-8	-3

Climate change graphs for 2050s

Change between future (2040-2069) and control (1961-1990) simulated flow (green) - Eden at Kemback (14001)

