

General Information

River Name	Irvine	Catchment Area (km2)	381
Station Name	Shewalton	SAAR (mm) 61-90	1228
Station Number	83005	Mean Annual Rain (mm) 62-91	1243
Grid Reference	NS345369	Mean Annual PE (mm) 62-91	513
EA Region	SEPA-SW	Observed flow record	1972 to 2005



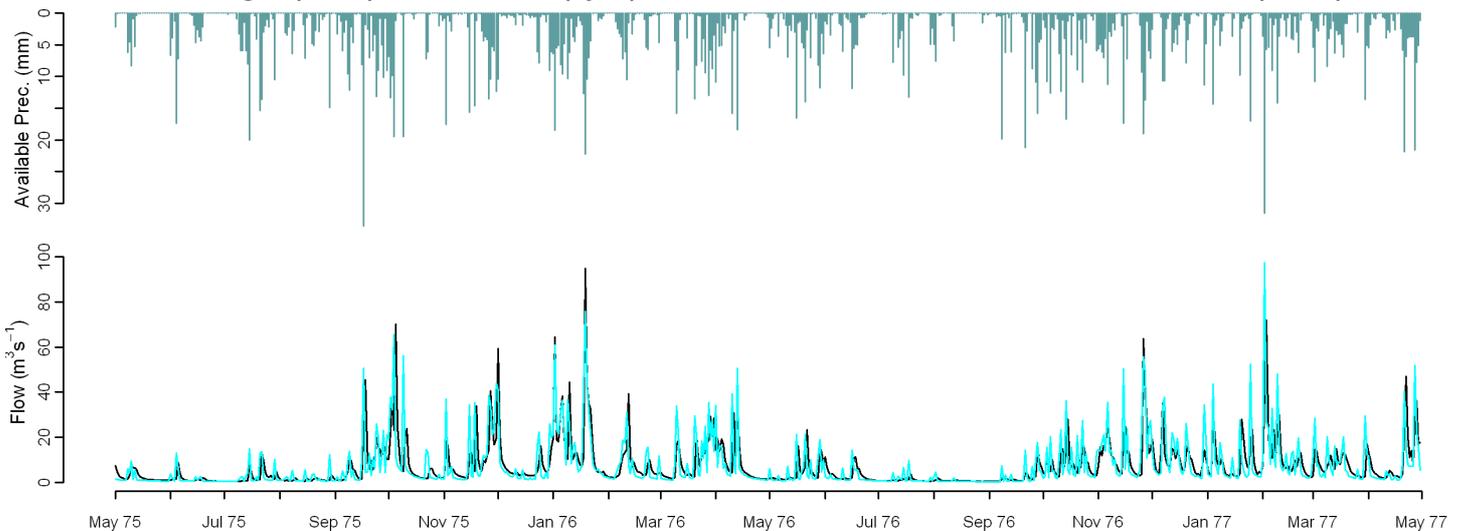
Observed Data

Comparison of gauged and simulated flow

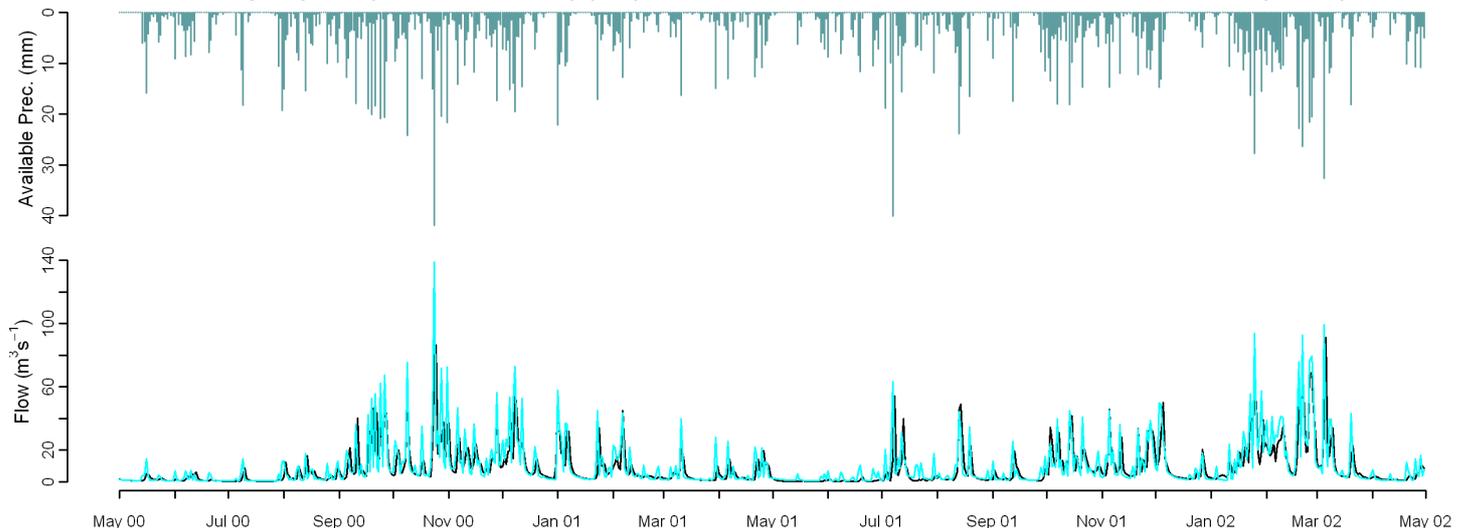
Model used: PDM

	Mean Annual	J	F	M	A	M	J	J	A	S	O	N	D	Nash Sutcliffe
MORECS (1971-2005)	5.5	5.8	4.8	2.3	-4.7	-10.7	1.8	-1.9	-1.1	1.5	6.1	8.7	12.3	0.54
Performance Band	1	1	1	1	1	1	1	1	1	1	1	1	2	2
FAO (1962-1991)	9.7	6.2	3.8	5.6	-6.6	-4.1	-1.8	-5.3	2.6	5.8	13.3	13.9	20.6	0.53
	Q90	Q75	Q50	Q25	Q5	RP2	RP5	RP10	RP20					
MORECS (1971-2005)	-15.6	-19.9	-17.1	3.5	13.6	2.7	3.7	4.5	5.4					
Performance Band	1	1	2	1	1									
FAO (1962-1991)	-22.4	-21.7	-17.3	8.7	19.2	-1.5	-1.3	-1.0	-0.6					

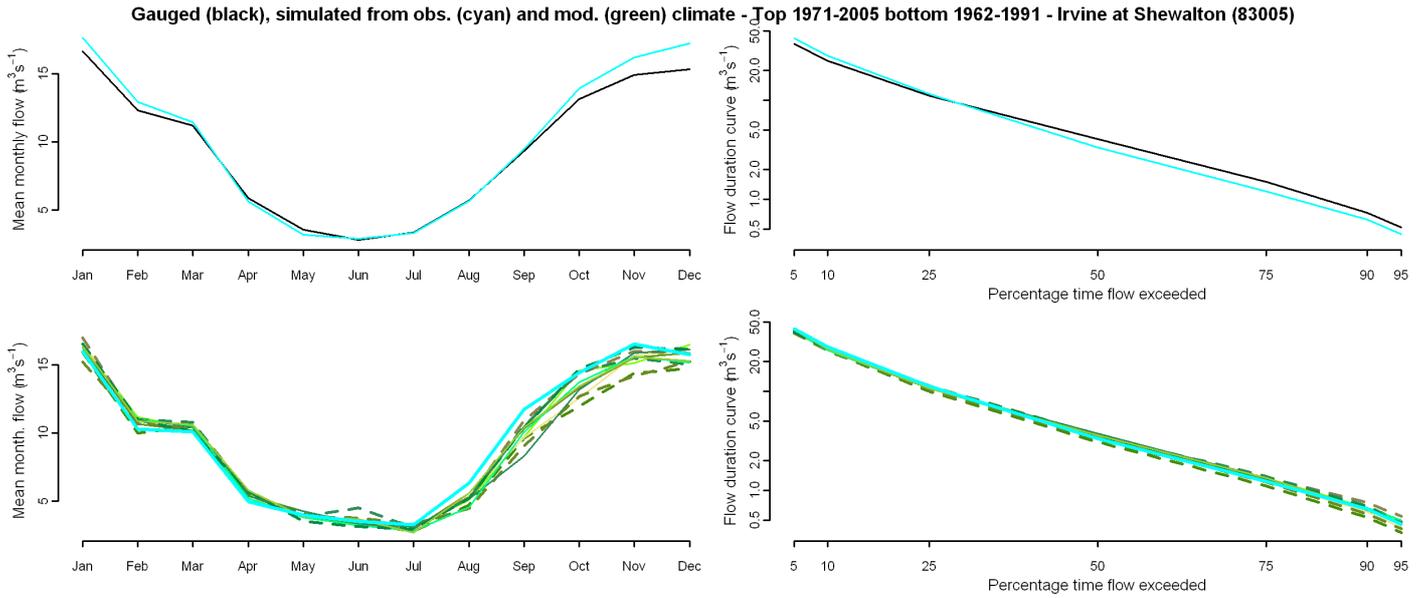
Gauged (black) and simulated (cyan) flows from observed climate - Irvine at Shewalton (83005)



Gauged (black) and simulated (cyan) flows from observed climate - Irvine at Shewalton (83005)



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



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

	afgcx	afixa	afixc	afixh	afixi	afixj	afixk	afixl	afixm	afixo	afixq
Annual	-3	-7	-3	1	-3	-7	-4	-1	-5	-2	-3
January	4	0	6	7	5	0	-2	4	-1	2	2
April	4	7	9	16	8	9	10	11	2	14	11
July	-6	-14	-13	-7	-10	-13	-7	-10	-16	-13	-19
October	-1	-15	-16	1	-8	-13	-5	-5	-9	-1	-3
Q90	4	-16	-7	16	-5	-13	-4	4	2	2	-1
Q75	8	-10	-1	11	2	-4	6	9	-1	5	7
Q50	7	-8	3	9	4	-2	11	6	-1	7	6
Q25	-2	-11	-3	3	-4	-7	-5	0	-5	-1	-6
Q5	-5	-7	-7	-3	-6	-9	-5	-5	-8	-7	-4
RP2	-1	0	2	8	3	1	-2	1	7	3	2
RP10	-4	-2	1	11	5	-5	-1	12	11	15	-3

Climate change graphs for 2050s

