

General Information

River Name	Kennet	Catchment Area (km ²)	548
Station Name	Newbury	SAAR (mm) 61-90	772
Station Number	39103	Mean Annual Rain (mm) 62-91	781
Grid Reference	SU472672	Mean Annual PE (mm) 62-91	597
EA Region	EA-SE	Observed flow record	1989 to 2005



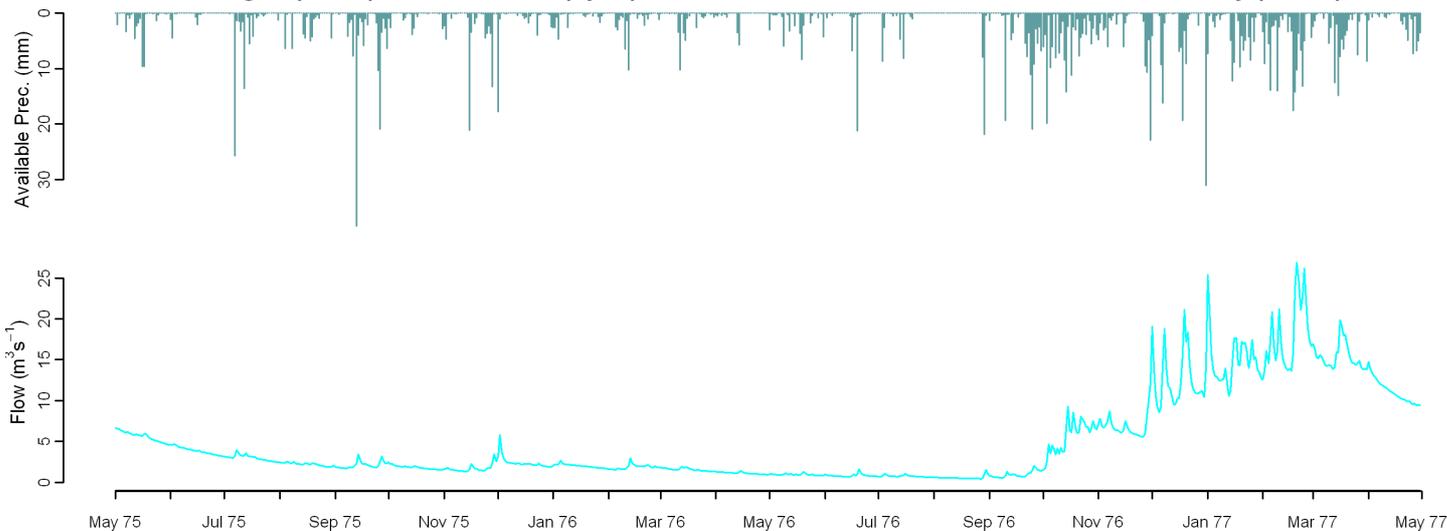
Observed Data

Comparison of gauged and simulated flow

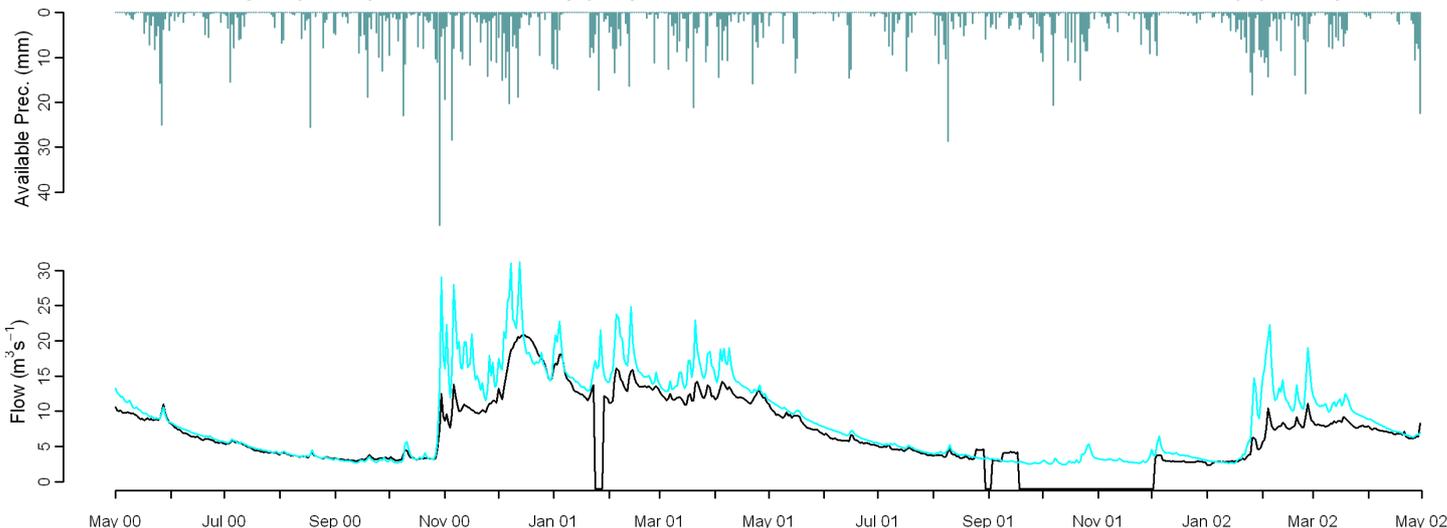
Model used: CERF

	Mean Annual	J	F	M	A	M	J	J	A	S	O	N	D	Nash Sutcliffe
MORECS (1971-2005)	26.5	51.2	31.0	24.8	20.9	8.3	2.1	-2.5	-9.8	-15.1	5.5	38.4	54.0	0.45
Performance Band	2	3	2	2	2	1	1	2	2	2	1	2	3	2
MORECS (1962-1991)														
	Q90	Q75	Q50	Q25	Q5	RP2	RP5	RP10	RP20					
MORECS (1971-2005)	-15.1	-5.2	16.8	33.4	23.3									
Performance Band	1	1	2	1	2									
MORECS (1962-1991)														

Gauged (black) and simulated (cyan) flows from observed climate - Kennet at Newbury (39103)

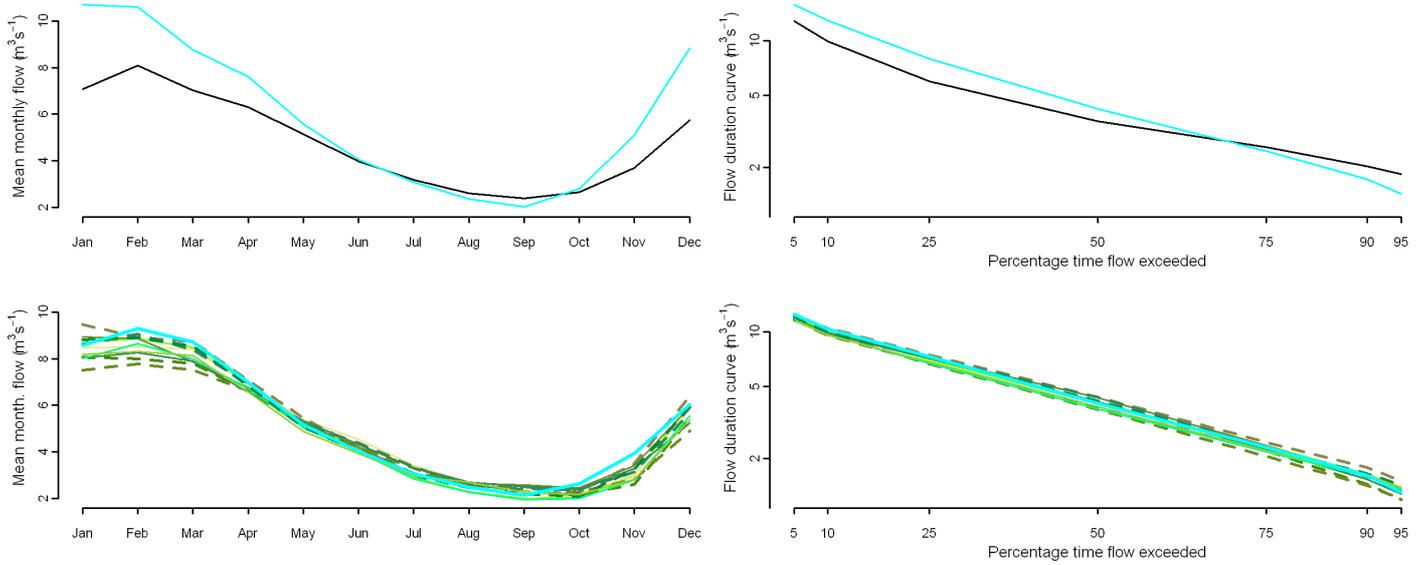


Gauged (black) and simulated (cyan) flows from observed climate - Kennet at Newbury (39103)



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 - Kennet at Newbury (39103)



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

	afgcx	afixa	afixc	afixh	afixi	afixj	afixk	afixl	afixm	afixo	afixq
Annual	-1	-8	0	4	-2	-9	-4	2	-7	-3	-6
January	1	-8	1	12	4	-13	-8	4	-4	2	-4
April	0	-8	3	5	-2	-6	-4	4	-1	-1	-5
July	1	2	17	3	-1	7	11	13	-2	-1	-2
October	-18	-17	-15	-9	-14	-13	-7	-7	-21	-19	-16
Q90	1	-11	1	11	-5	-13	-5	-1	-2	-1	0
Q75	2	-6	2	9	-2	-13	-3	2	-6	-2	-5
Q50	0	-7	2	10	2	-10	0	9	-6	2	-6
Q25	-4	-10	-1	3	-4	-12	-3	1	-7	-1	-8
Q5	-3	-8	0	-1	-7	-8	-8	-1	-5	-6	-7
RP2	-2	-5	-2	-6	-12	-8	-7	-3	-4	-2	-6
RP10	-6	6	9	5	-1	8	0	3	-2	16	0

Climate change graphs for 2050s

Change between future (2040-2069) and control (1961-1990) simulated flow (green) - Kennet at Newbury (39103)

