

General Information

River Name	Rye	Catchment Area (km ²)	132
Station Name	Broadway Foot	SAAR (mm) 61-90	883
Station Number	27055	Mean Annual Rain (mm) 62-91	887
Grid Reference	SE560883	Mean Annual PE (mm) 62-91	574
EA Region	EA-NE	Observed flow record	1974 to 2004



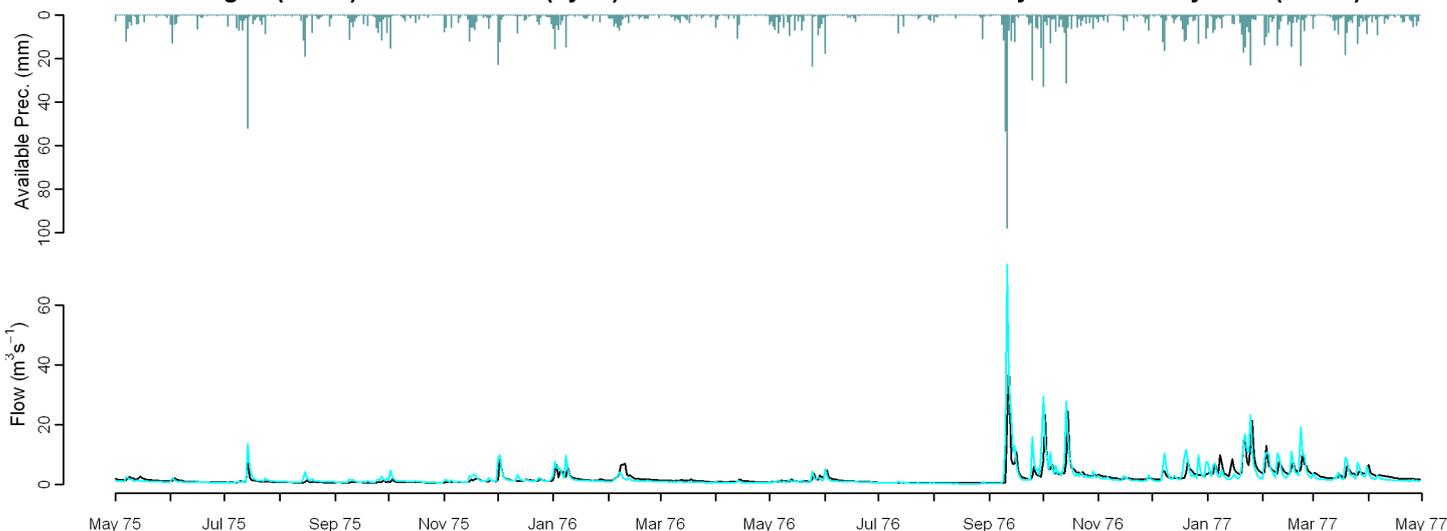
Observed Data

Comparison of gauged and simulated flow

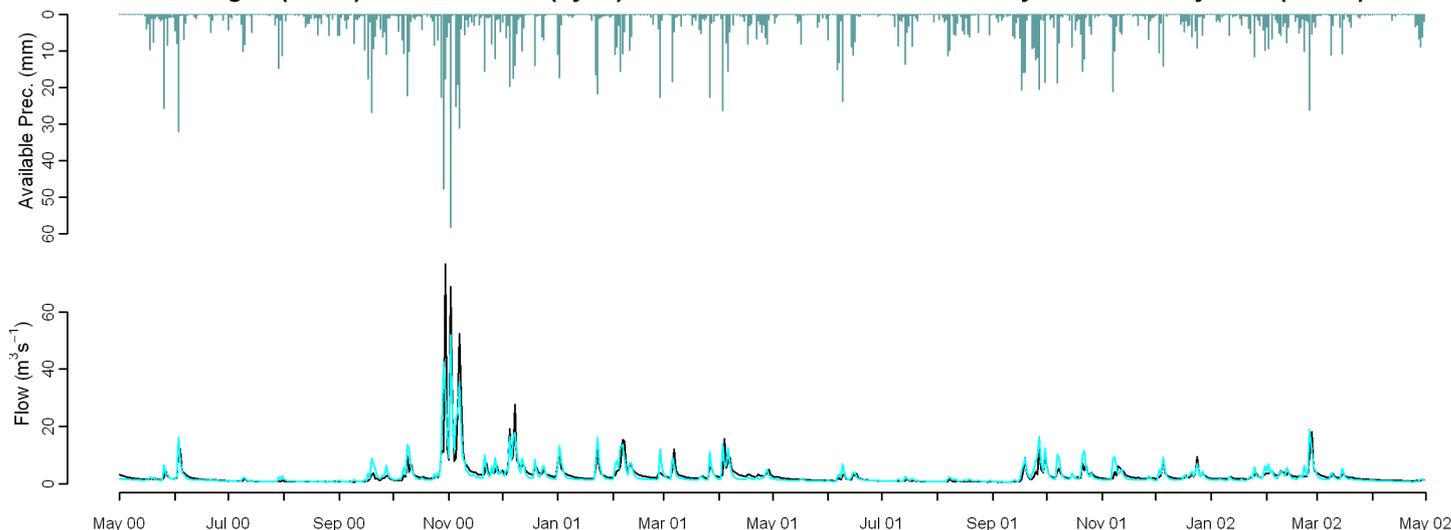
Model used: CERF

	Mean Annual	J	F	M	A	M	J	J	A	S	O	N	D	Nash Sutcliffe
MORECS (1971-2005)	3.1	0.1	-5.6	-17.3	-13.8	-14.1	0.8	17.0	27.1	45.2	18.2	9.7	8.4	0.62
Performance Band	1	1	1	2	2	2	1	2	1	3	2	1	2	2
MORECS (1962-1991)	4.0	-0.6	-6.0	-12.5	-15.1	-14.8	1.1	15.3	19.9	42.7	23.5	14.8	5.5	0.56
	Q90	Q75	Q50	Q25	Q5	RP2		RP5		RP10		RP20		
MORECS (1971-2005)	3.5	2.8	-8.0	-9.8	29.3									
Performance Band	1	1	1	2	2									
MORECS (1962-1991)	-0.9	3.1	-7.5	-11.1	27.3									

Gauged (black) and simulated (cyan) flows from observed climate - Rye at Broadway Foot (27055)

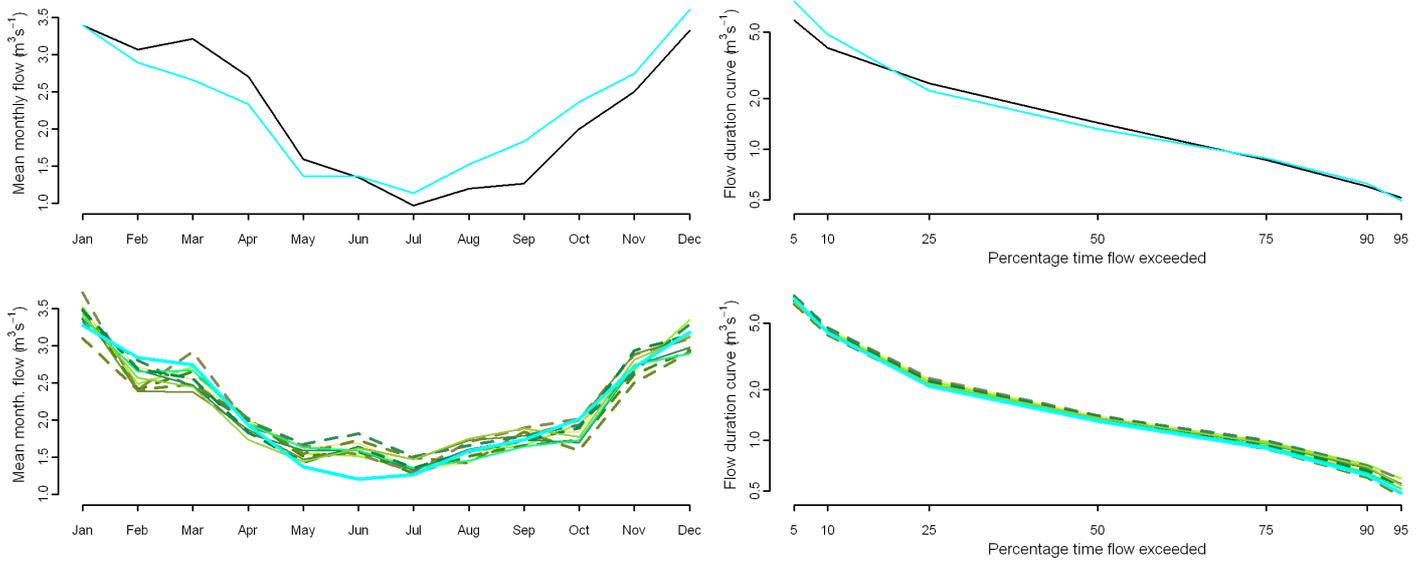


Gauged (black) and simulated (cyan) flows from observed climate - Rye at Broadway Foot (27055)



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 - Rye at Broadway Foot (27055)



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	0	4	8	1	0	-2	5	-1	1	1
January	10	0	8	13	5	-1	1	4	4	6	3
April	3	-7	7	3	-2	4	-7	7	-1	-3	-5
July	8	15	9	6	16	19	4	21	7	4	17
October	0	-9	-8	8	0	-17	-4	2	-11	-5	-10
Q90	17	0	6	17	7	-3	-2	13	2	3	12
Q75	11	5	7	12	5	0	0	12	2	4	7
Q50	7	5	7	9	3	2	3	9	2	5	4
Q25	9	4	10	12	3	2	2	10	1	5	3
Q5	-2	-4	-2	5	-4	-6	-7	6	-6	0	-6
RP2	1	0	1	12	13	18	7	10	11	13	16
RP10	-7	-7	1	-9	-3	3	2	0	9	-5	10

Climate change graphs for 2050s

Change between future (2040-2069) and control (1961-1990) simulated flow (green) - Rye at Broadway Foot (27055)

