

General Information

River Name	Browney	Catchment Area (km ²)	179
Station Name	Burn Hall	SAAR (mm) 61-90	743
Station Number	24005	Mean Annual Rain (mm) 62-91	739
Grid Reference	NZ259387	Mean Annual PE (mm) 62-91	528
EA Region	EA-NE	Observed flow record	1961 to 2005



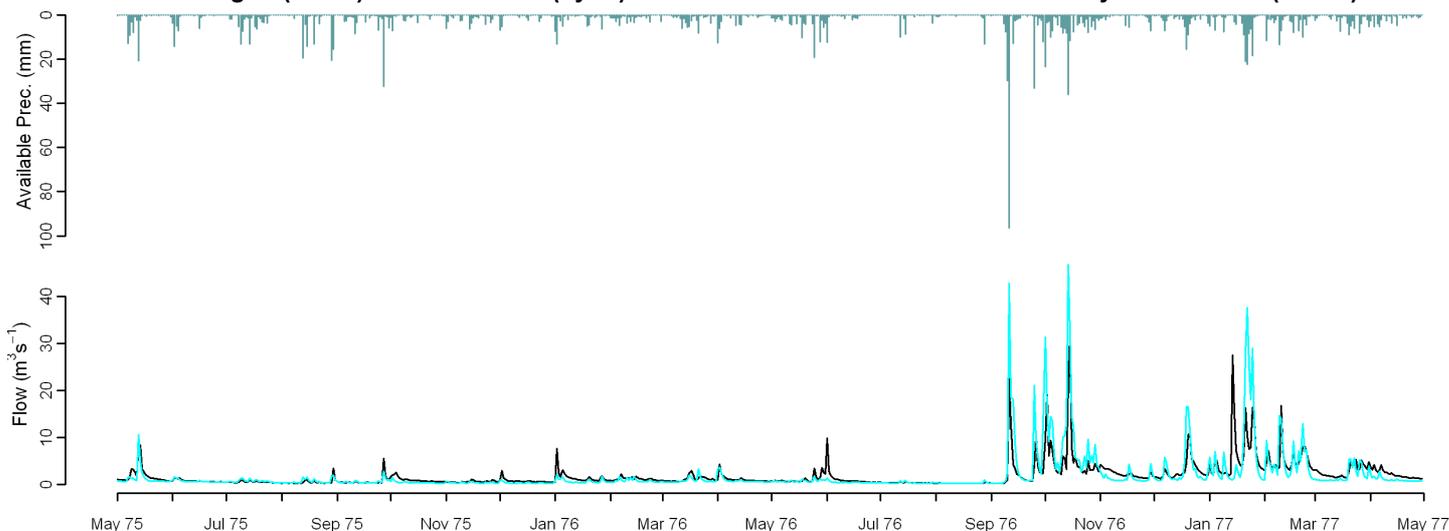
Observed Data

Comparison of gauged and simulated flow

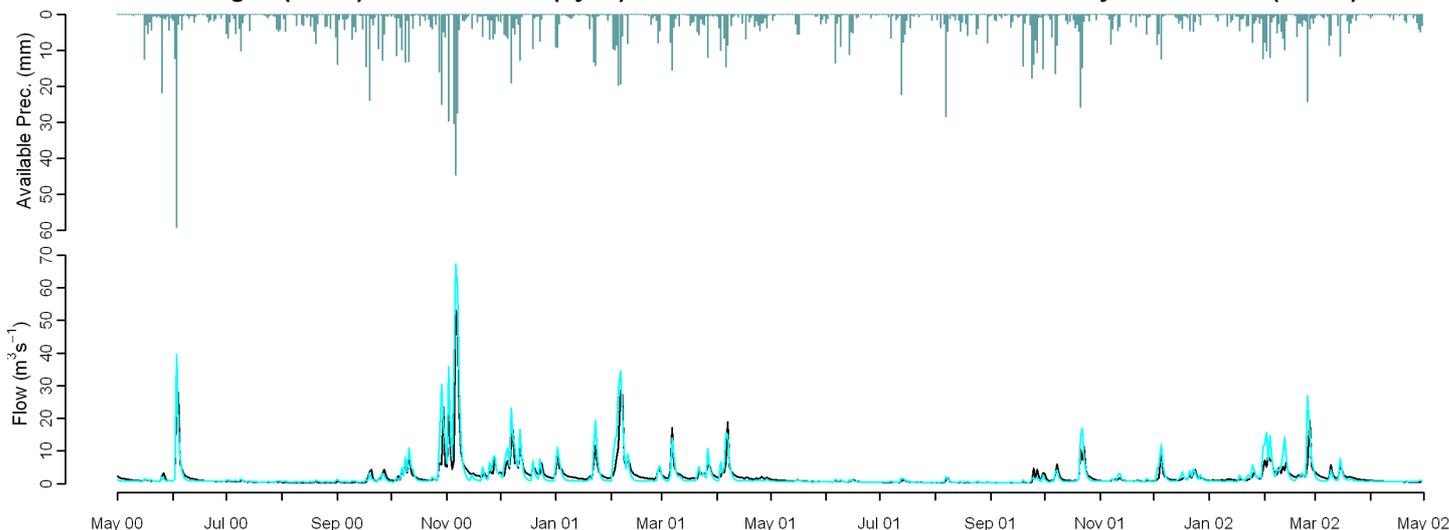
Model used: CERF

	Mean Annual	J	F	M	A	M	J	J	A	S	O	N	D	Nash Sutcliffe
MORECS (1971-2005)	1.6	18.4	5.9	-9.0	-17.0	-24.7	-12.5	-7.0	-2.7	6.9	7.2	6.5	14.3	0.48
Performance Band	1	2	1	1	2	2	2	1	2	1	1	1	2	2
MORECS (1962-1991)	-3.0	16.5	2.1	-6.1	-23.5	-27.9	-18.8	-17.7	-11.2	4.7	0.6	-4.4	6.8	0.37
	Q90	Q75	Q50	Q25	Q5	RP2		RP5		RP10		RP20		
MORECS (1971-2005)	-10.9	-11.5	-21.4	-35.6	29.6									
Performance Band	2	1	1	2	3									
MORECS (1962-1991)	-24.9	-21.4	-28.5	-37.9	25.0									

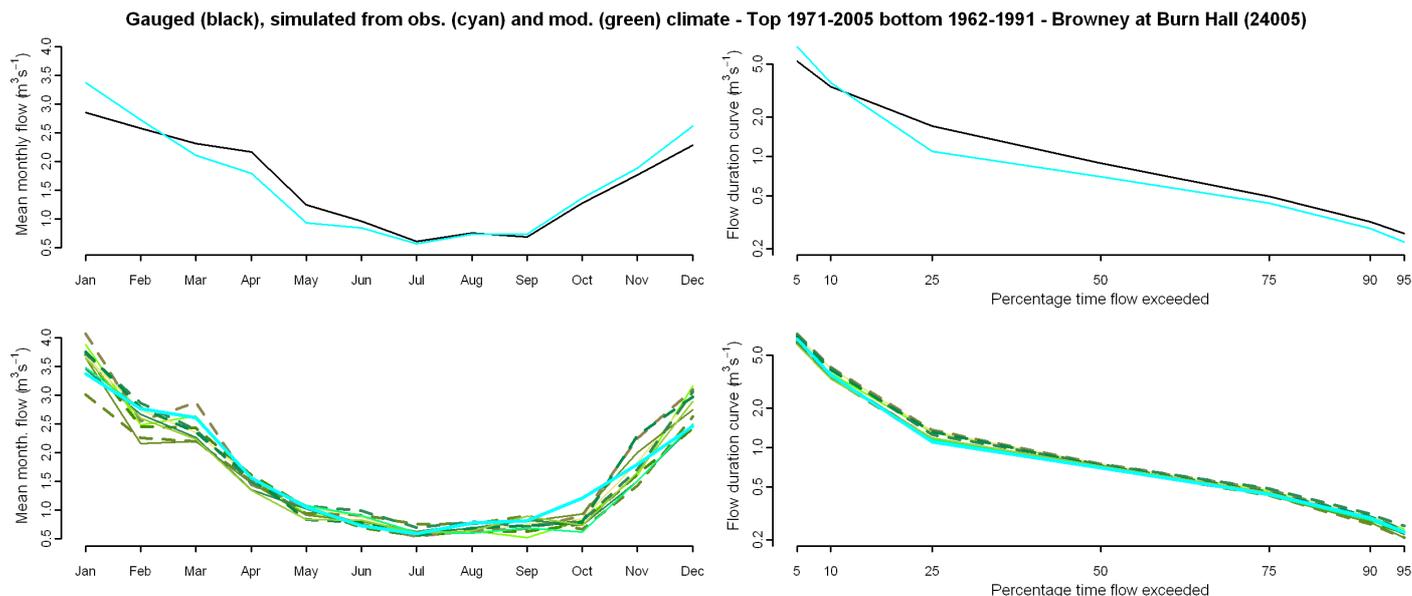
Gauged (black) and simulated (cyan) flows from observed climate - Browney at Burn Hall (24005)



Gauged (black) and simulated (cyan) flows from observed climate - Browney at Burn Hall (24005)



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	0	-6	3	8	-4	-4	-8	5	-5	2	-6
January	18	1	11	21	6	-3	1	12	5	12	6
April	0	-12	3	-4	-6	-3	-13	1	2	1	-11
July	-2	-1	8	-6	6	29	1	18	-2	-6	4
October	-30	-35	-29	-23	-25	-43	-27	-28	-44	-33	-37
Q90	3	-4	2	6	-10	-9	-5	8	-5	0	-1
Q75	6	1	3	10	-5	-1	-4	12	-2	2	3
Q50	5	2	6	8	2	1	1	7	1	3	2
Q25	19	5	20	26	5	5	6	19	5	19	8
Q5	-2	-6	4	10	-2	-3	-7	12	-3	5	-11
RP2	-9	-23	-19	-9	-11	-14	-13	-7	-10	-10	-4
RP10	-24	-21	-12	-21	-17	-13	-7	-12	-23	-17	0

Climate change graphs for 2050s

