

General Information

River Name	Aln	Catchment Area (km ²)	205
Station Name	Hawkhill	SAAR (mm) 61-90	757
Station Number	22004	Mean Annual Rain (mm) 62-91	759
Grid Reference	NU211129	Mean Annual PE (mm) 62-91	521
EA Region	EA-NE	Observed flow record	1966 to 1980



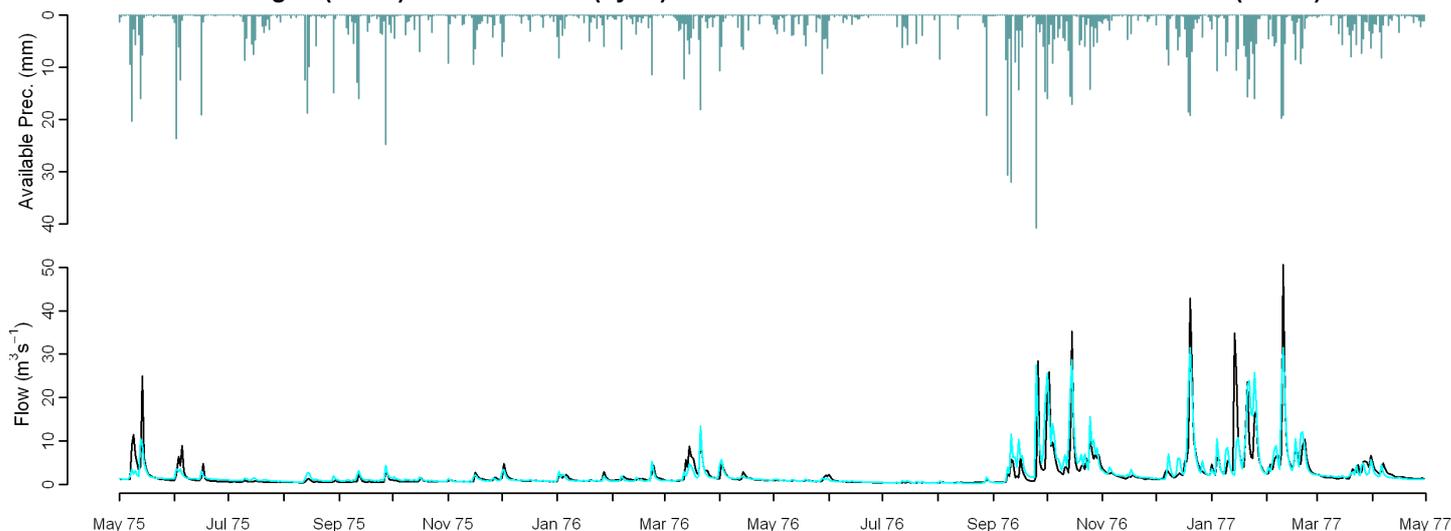
Observed Data

Comparison of gauged and simulated flow

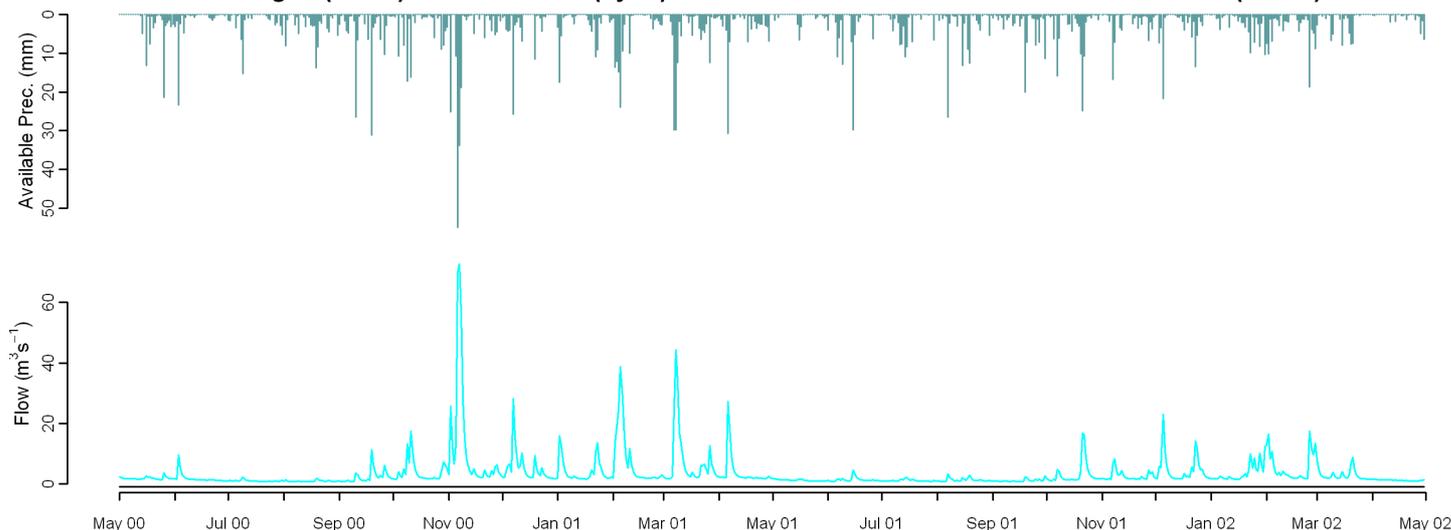
Model used: CERF

	Mean Annual	J	F	M	A	M	J	J	A	S	O	N	D	Nash Sutcliffe
MORECS (1971-2005)	0.6	1.9	-1.4	-12.1	-11.9	-24.4	-9.4	24.9	8.0	45.5	5.5	-5.3	-1.5	0.73
Performance Band	1	1	1	2	1	2	2	1	1	2	1	1	1	1
MORECS (1962-1991)	-2.6	5.1	-1.7	-12.2	-11.7	-25.7	-10.5	3.7	0.5	17.3	-5.1	-1.4	0.5	0.71
	Q90	Q75	Q50	Q25	Q5	RP2		RP5		RP10		RP20		
MORECS (1971-2005)	1.3	14.8	11.2	-5.8	5.6									
Performance Band	1	1	1	1	1									
MORECS (1962-1991)	6.2	11.3	5.2	-7.0	-1.8									

Gauged (black) and simulated (cyan) flows from observed climate - Aln at Hawkhill (22004)

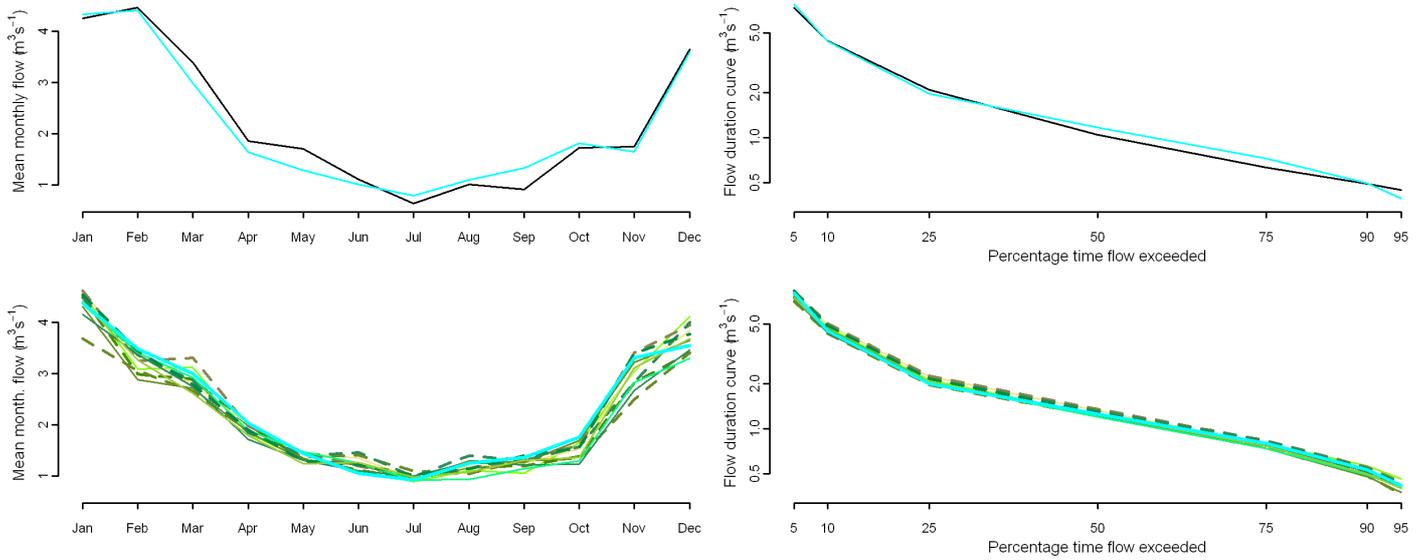


Gauged (black) and simulated (cyan) flows from observed climate - Aln at Hawkhill (22004)



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 - Aln at Hawkhill (22004)



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	2	4	-4	-6	-9	2	-6	1	-7
January	7	-6	5	6	-3	-9	-5	5	2	5	-2
April	-10	-12	3	3	-7	-8	-15	0	-5	-5	-7
July	-1	4	6	6	1	20	8	8	0	9	8
October	-3	-20	-12	-5	-7	-20	-20	-10	-23	-12	-20
Q90	8	-8	-2	5	-13	-9	-5	4	-8	-7	-4
Q75	2	-5	0	5	-10	-6	-4	6	-9	-4	-4
Q50	-1	-1	4	9	-3	-1	-3	7	-5	1	-1
Q25	6	1	11	14	1	1	0	11	1	8	2
Q5	-3	-9	0	4	-4	-9	-9	6	-7	4	-10
RP2	-2	-12	-11	-4	-7	-11	-9	-4	-6	1	1
RP10	-11	-19	-14	-6	-8	-13	-10	-4	-5	-12	4

Climate change graphs for 2050s

Change between future (2040-2069) and control (1961-1990) simulated flow (green) - Aln at Hawkhill (22004)

