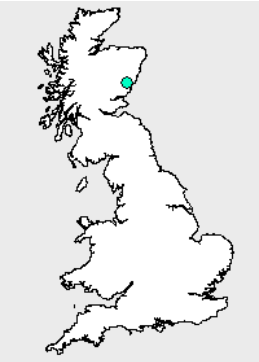
Catchment Fact Sheet 13009 Future Flows and Groundwater Levels

General Information

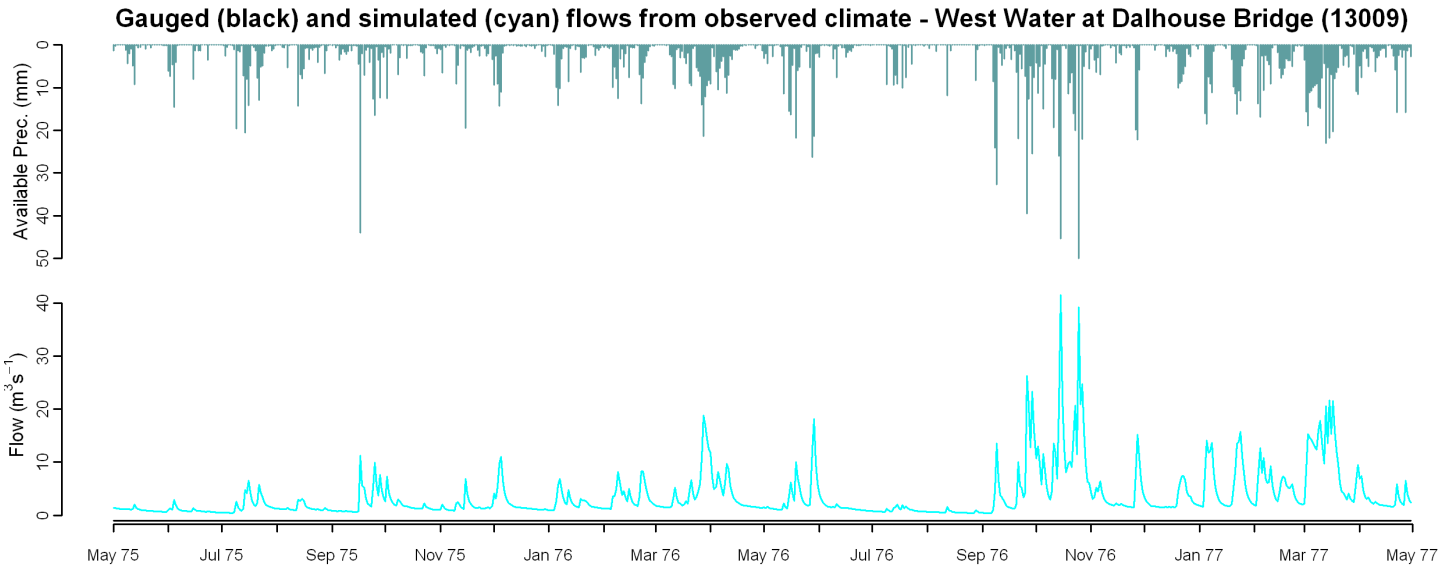
River Name	West Water	Catchment Area (km2)	127
Station Name	Dalhouse Bridge	SAAR (mm) 61-90	1179
Station Number	13009	Mean Annual Rain (mm) 62-91	1224
Grid Reference	NO592680	Mean Annual PE (mm) 62-91	495
EA Region	SEPA-NE	Observed flow record	1985 to 2005

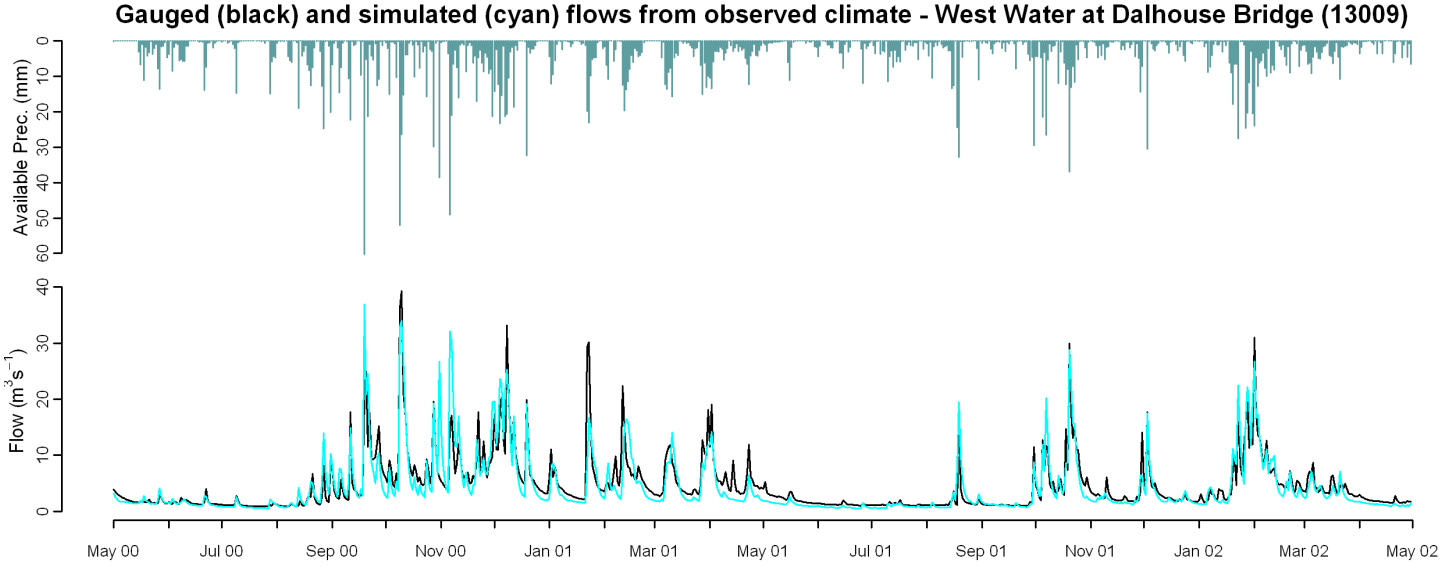


Observed Data Comparison of gauged and simulated flow Model used: CERF

	Mean Annual	J	F	M	A	M	J	J	A	S	O	N	D	Nash Sutcliffe
MORECS (1971-2005)	-8.6	-8.6	-9.4	-16.8	-18.3	-19.9	-18.6	-5.7	1.7	1.0	-2.4	-4.3	-8.4	0.73
Performance Band	2	1	1	2	2	2	2	1	1	1	2	2	2	1
MORECS (1962-1991)	-5.2	-8.0	1.5	-13.5	-27.6	-21.8	-15.6	-6.5	-1.8	-11.4	-1.3	7.7	1.4	0.62

	Q90	Q75	Q50	Q25	Q5	RP2	RP5	RP10	RP20
MORECS (1971-2005)	-21.1	-16.2	-23.5	-13.7	5.2				
Performance Band	1	1	1	1	1				
MORECS (1962-1991)	-13.5	-12.8	-21.1	-10.4	4.0				





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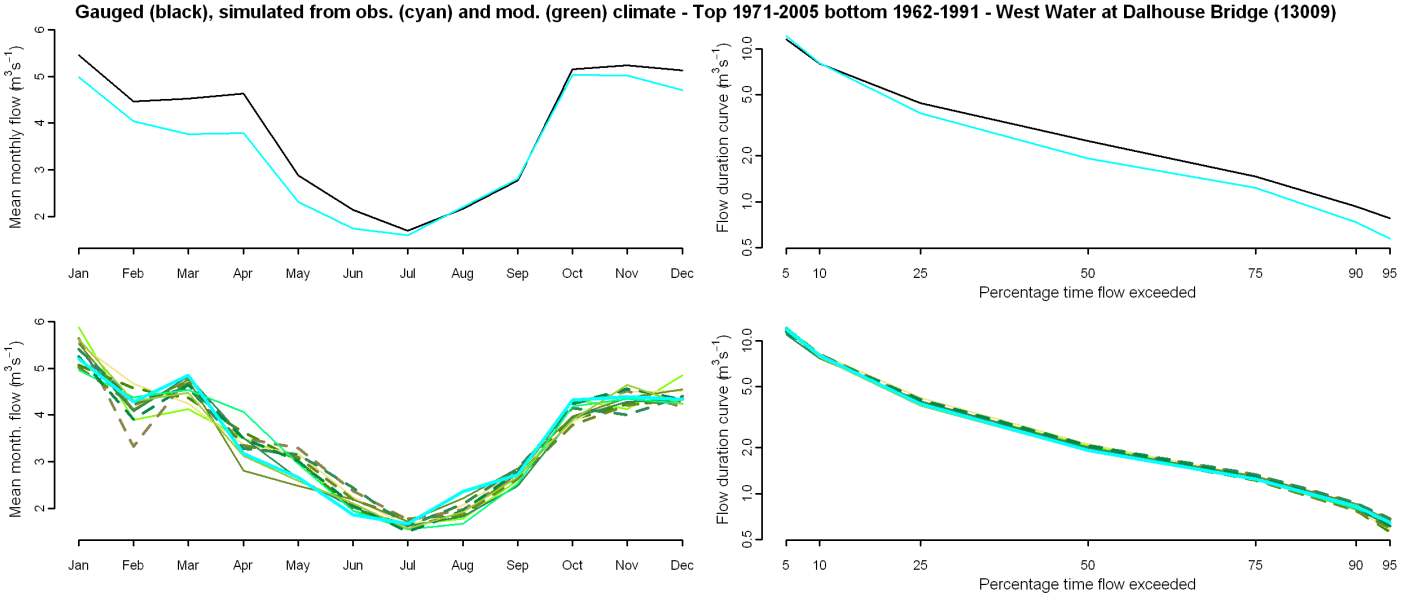
Comparison of gauged and simulated flow (observed and modelled climate)



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

	afgcx	afixa	afixc	afixh	afixi	afixj	afixk	afixl	afixm	afixo	afixq
Annual	2	0	4	5	-2	1	0	2	0	1	-1
January	16	-4	9	7	5	1	2	2	-8	3	12
April	9	12	7	13	-10	6	10	6	31	13	-5
July	0	2	3	9	2	-7	-1	-2	-7	-13	-8
October	1	-7	-11	3	-7	-6	-2	-9	3	0	-3
Q90	3	-6	-6	6	-1	-7	-5	3	-5	-4	0
Q75	5	0	5	9	1	-1	1	6	-2	2	0
Q50	7	2	10	7	0	2	5	8	-1	7	-2
Q25	3	3	9	6	-3	3	5	7	-2	6	-3
Q5	-1	-1	-3	2	-3	-2	-5	-4	3	-4	0
RP2	-2	-2	-9	-4	5	1	0	2	3	-5	8
RP10	-9	-9	-14	-13	0	-13	3	-8	-5	-7	-6

Climate change graphs for 2050s