

## General Information

River Name	Mint	Catchment Area (km2)	66
Station Name	Mint Bridge	SAAR (mm) 61-90	1596
Station Number	73011	Mean Annual Rain (mm) 62-91	1579
Grid Reference	SD524944	Mean Annual PE (mm) 62-91	456
EA Region	EA-NW	Observed flow record	1970 to 2005



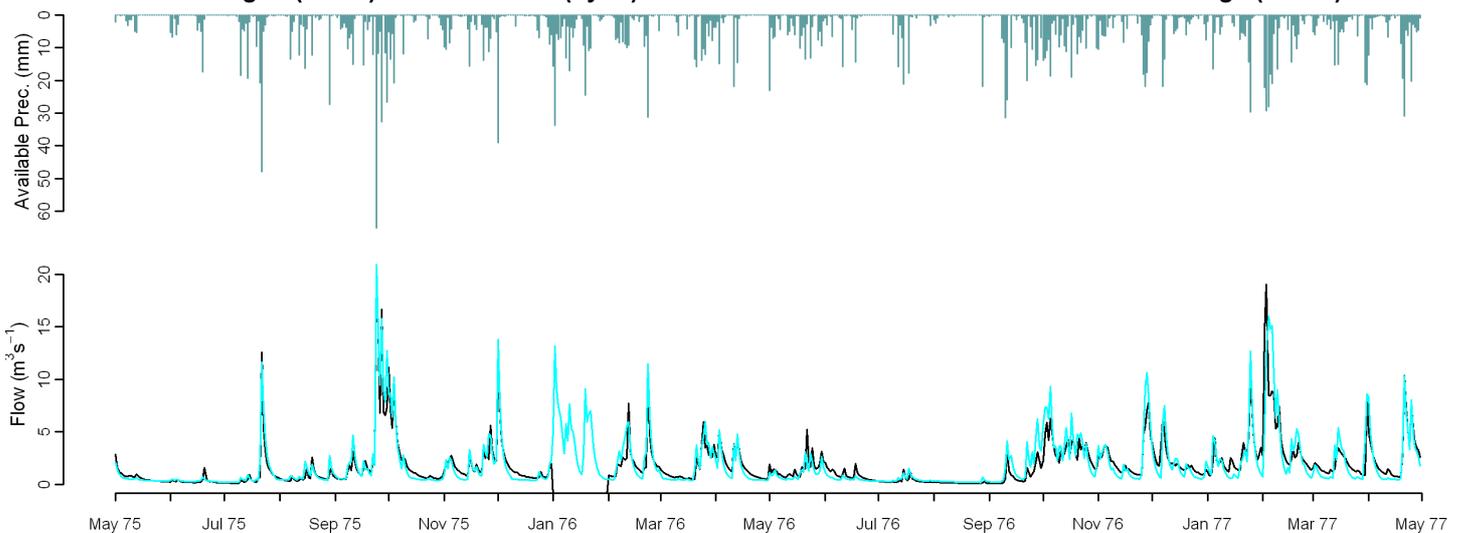
## Observed Data

## Comparison of gauged and simulated flow

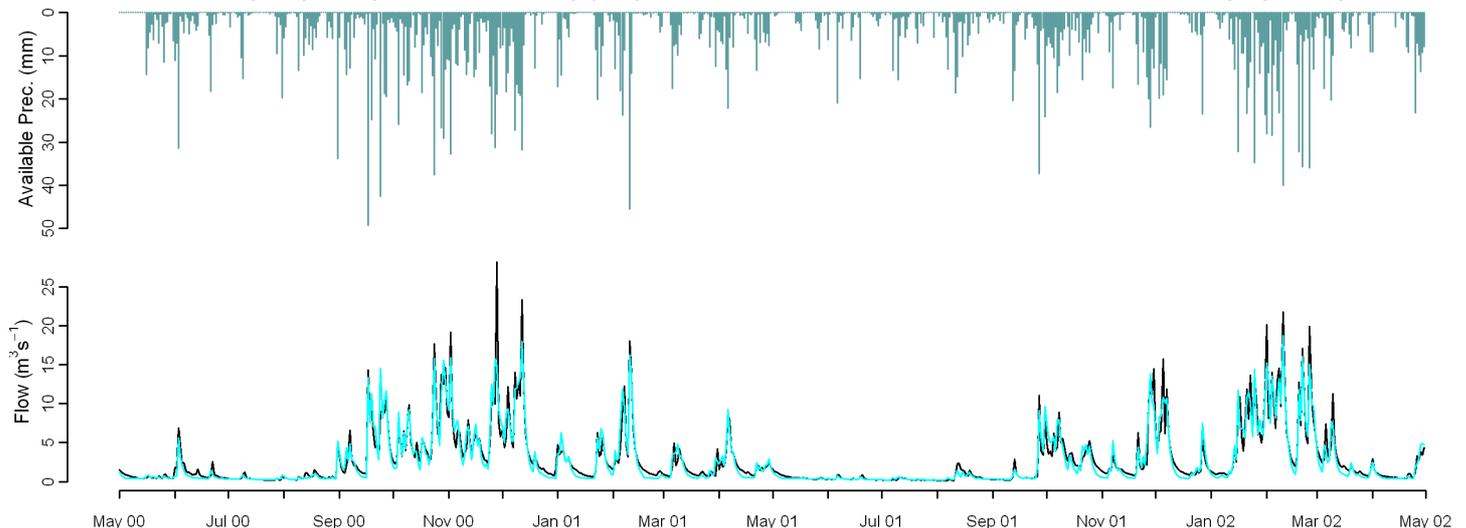
## Model used: CERF

	Mean Annual	J	F	M	A	M	J	J	A	S	O	N	D	Nash Sutcliffe
MORECS (1971-2005)	-1.9	-1.7	-2.1	-4.7	-12.1	-14.2	-9.7	-0.6	2.8	7.3	2.5	0.8	0.7	0.86
Performance Band	1	1	1	1	2	2	1	2	2	1	1	1	1	1
MORECS (1962-1991)	-0.1	1.0	-2.0	0.0	-13.0	-11.5	-5.2	1.3	6.5	10.4	2.2	2.8	0.6	0.86
	Q90	Q75	Q50	Q25	Q5	RP2		RP5		RP10		RP20		
MORECS (1971-2005)	15.7	-22.0	-31.5	2.5	11.3									
Performance Band	1	1	1	1	1									
MORECS (1962-1991)	18.8	-21.3	-30.0	4.8	15.2									

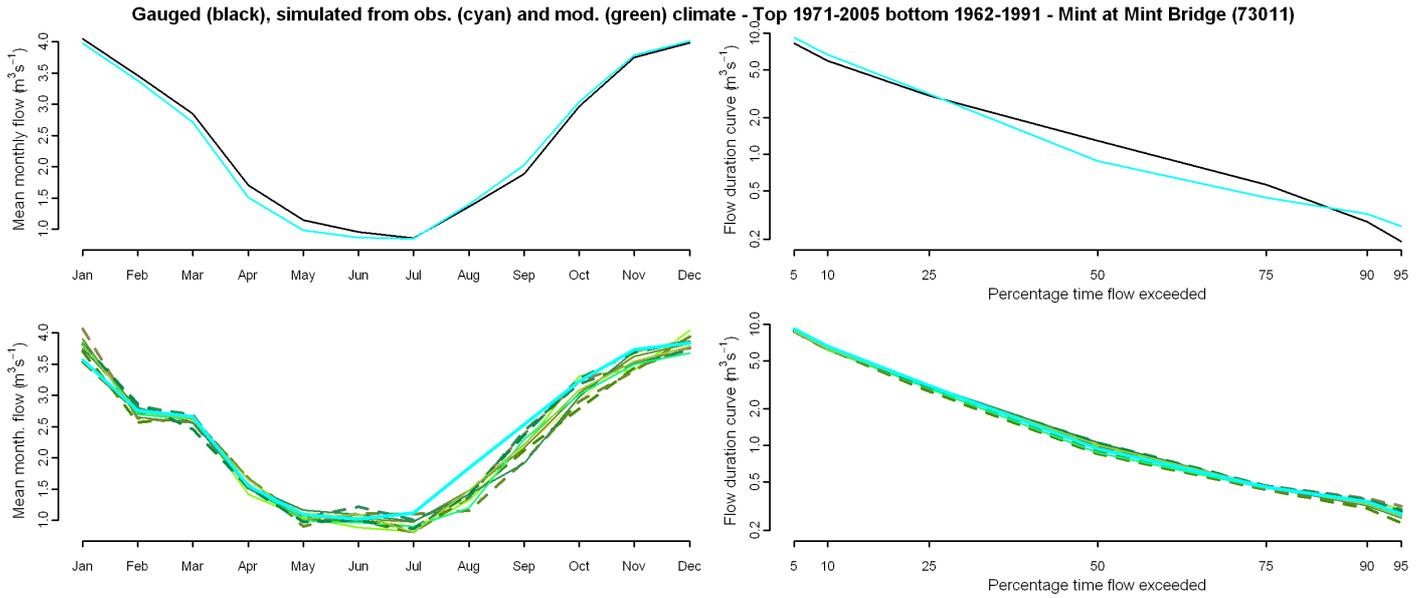
Gauged (black) and simulated (cyan) flows from observed climate - Mint at Mint Bridge (73011)



Gauged (black) and simulated (cyan) flows from observed climate - Mint at Mint Bridge (73011)



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	-3	-6	-2	1	-2	-4	-4	0	-4	-2	-3
January	8	4	9	11	10	5	2	10	8	3	13
April	-8	1	-2	4	0	7	2	1	-6	0	2
July	-26	-21	-14	-15	-13	-5	-14	-10	-23	-25	-28
October	4	-5	-12	4	-5	-8	3	-2	-4	3	-3
Q90	4	-11	-5	9	-8	-8	-9	4	-2	-1	-4
Q75	2	-4	-1	5	-2	-4	-1	3	-2	1	1
Q50	5	-9	-1	8	0	-6	11	10	-7	10	6
Q25	-2	-10	-1	0	-3	-5	-1	1	-5	-3	-2
Q5	-6	-2	-4	-2	-3	-5	-7	-2	-4	-5	-5
RP2	-1	-1	-2	-1	-2	-4	-4	-3	1	-1	-1
RP10	1	-4	0	2	-6	-10	-4	-7	1	0	-4

Climate change graphs for 2050s

