

## General Information

River Name	Cree	Catchment Area (km <sup>2</sup> )	368
Station Name	Newton Stewart	SAAR (mm) 61-90	1760
Station Number	81002	Mean Annual Rain (mm) 62-91	1799
Grid Reference	NX412653	Mean Annual PE (mm) 62-91	492
EA Region	SEPA-SW	Observed flow record	1963 to 2005



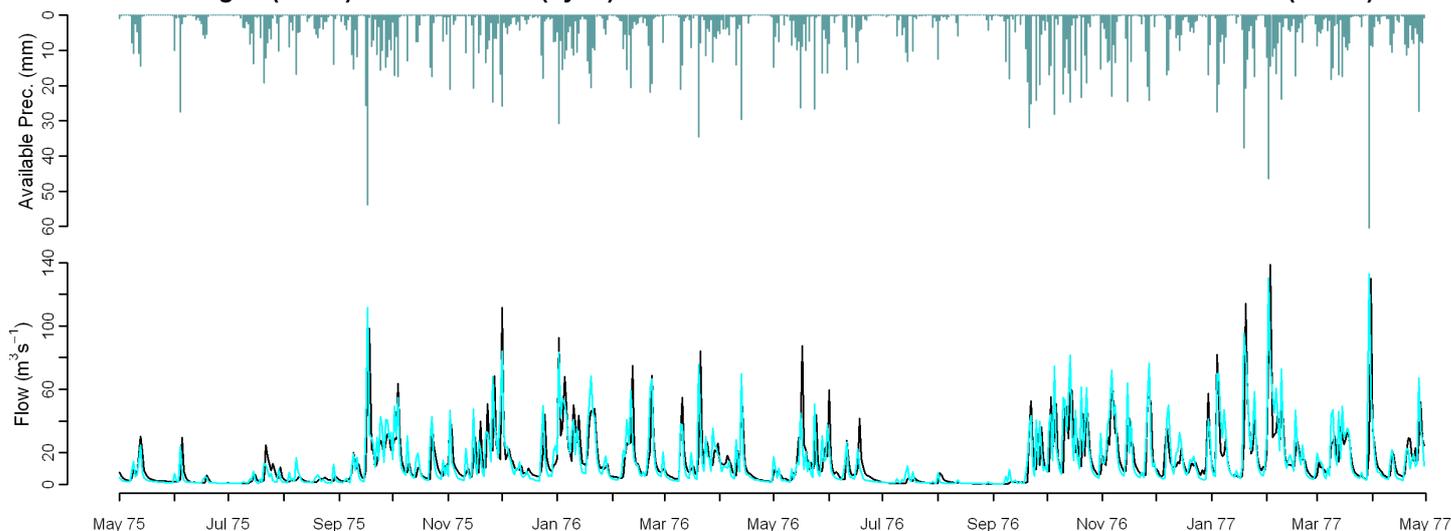
## Observed Data

## Comparison of gauged and simulated flow

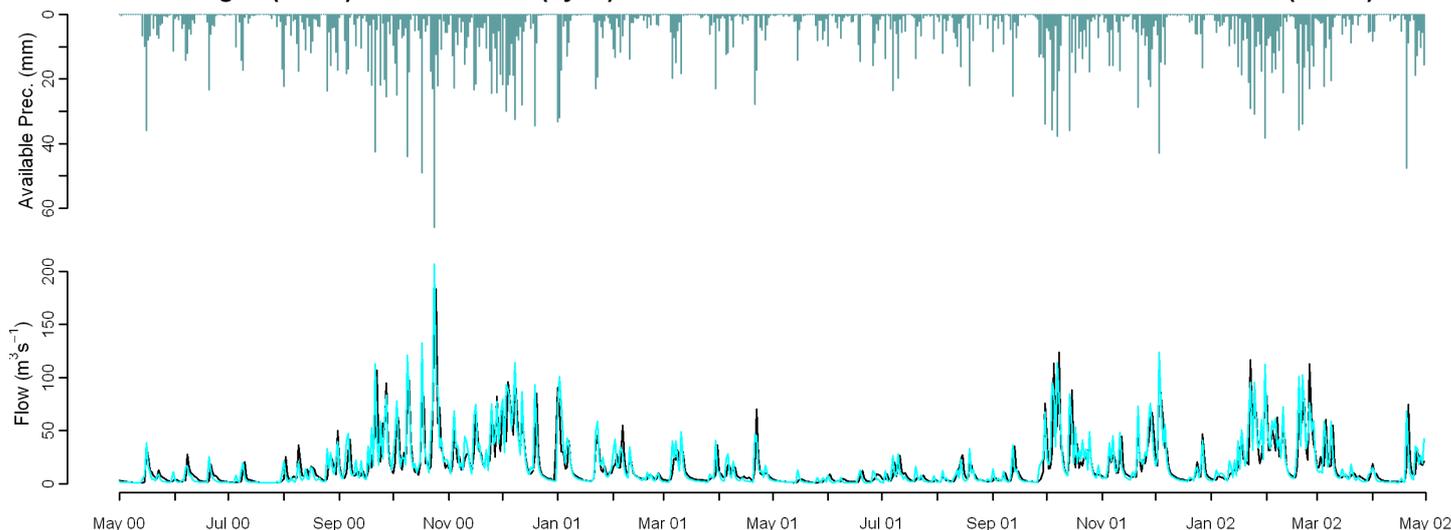
## Model used: PDM

	Mean Annual	J	F	M	A	M	J	J	A	S	O	N	D	Nash Sutcliffe
MORECS (1971-2005)	3.5	7.4	9.3	6.2	-1.8	-12.5	-11.4	-14.6	-4.9	-0.5	8.0	9.0	5.6	0.57
Performance Band	1	1	1	1	1	2	2	2	1	1	1	1	1	2
FAO (1962-1991)	4.7	7.2	10.0	9.2	-0.9	-5.6	-9.1	-17.1	-3.7	2.0	8.1	11.6	7.7	0.56
	Q90	Q75	Q50	Q25	Q5	RP2	RP5	RP10	RP20					
MORECS (1971-2005)	-20.5	-21.3	-11.2	8.5	7.2	-3.0	-3.2	-3.5	-4.0					
Performance Band	1	1	1	1	1									
FAO (1962-1991)	-21.9	-18.9	-8.2	8.7	6.1	-1.9	-1.3	0.1	1.8					

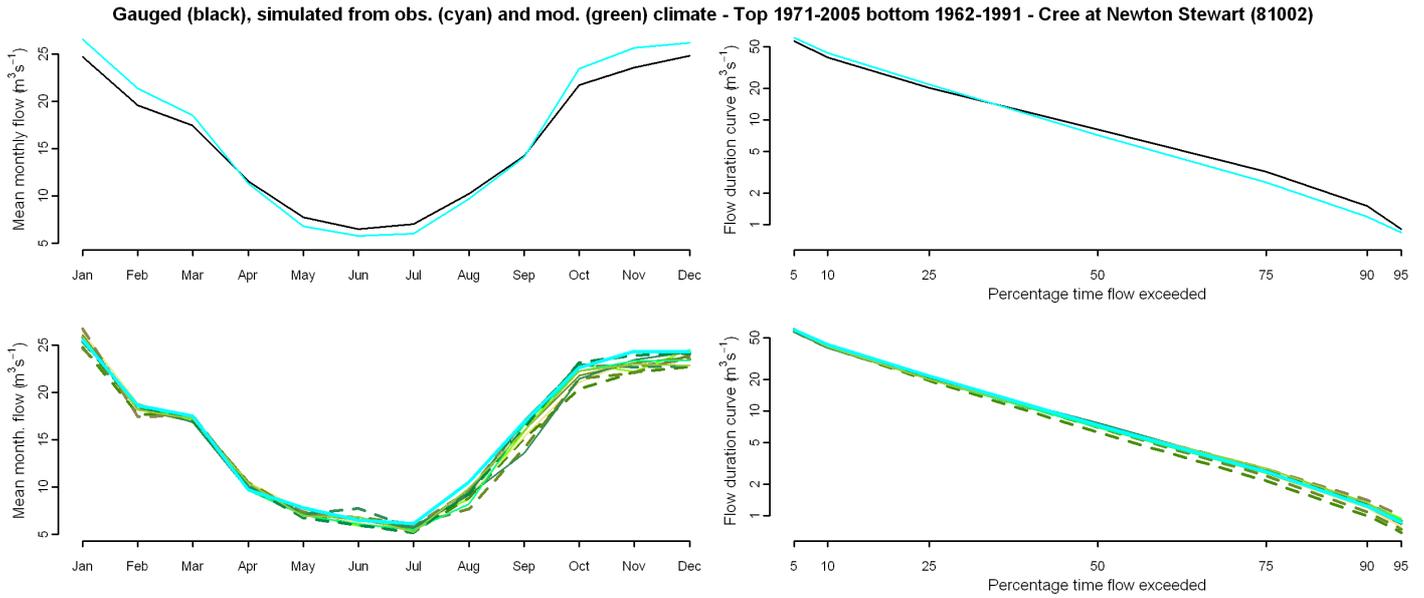
Gauged (black) and simulated (cyan) flows from observed climate - Cree at Newton Stewart (81002)



Gauged (black) and simulated (cyan) flows from observed climate - Cree at Newton Stewart (81002)



## 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
<b>Annual</b>	-3	-6	-4	0	-4	-5	-4	-2	-4	-3	-4
<b>January</b>	3	0	6	5	5	1	-1	1	-2	-2	2
<b>April</b>	1	2	6	4	4	6	0	2	-2	2	3
<b>July</b>	-4	-14	-15	-6	-10	-10	-9	-11	-13	-17	-17
<b>October</b>	1	-9	-9	3	-6	-6	-2	-3	-4	0	-4
<b>Q90</b>	7	-18	-6	15	-5	-14	-3	2	4	1	6
<b>Q75</b>	1	-18	-5	7	-5	-11	2	3	-2	0	6
<b>Q50</b>	0	-15	-4	1	-3	-6	4	-2	-4	-1	-1
<b>Q25</b>	-7	-9	-4	-2	-7	-7	-6	-6	-8	-6	-8
<b>Q5</b>	-1	0	-2	-1	1	-3	-3	1	0	-2	-2
<b>RP2</b>	-4	-2	-5	4	-5	-8	-2	-2	-6	-7	-4
<b>RP10</b>	-12	-13	-6	9	-7	-7	-1	-3	-5	-4	-2

## Climate change graphs for 2050s

