

## General Information

River Name	Severn	Catchment Area (km2)	9895
Station Name	Haw Bridge	SAAR (mm) 61-90	793
Station Number	54057	Mean Annual Rain (mm) 62-91	800
Grid Reference	SO844279	Mean Annual PE (mm) 62-91	573
EA Region	EA-M	Observed flow record	1971 to 2005



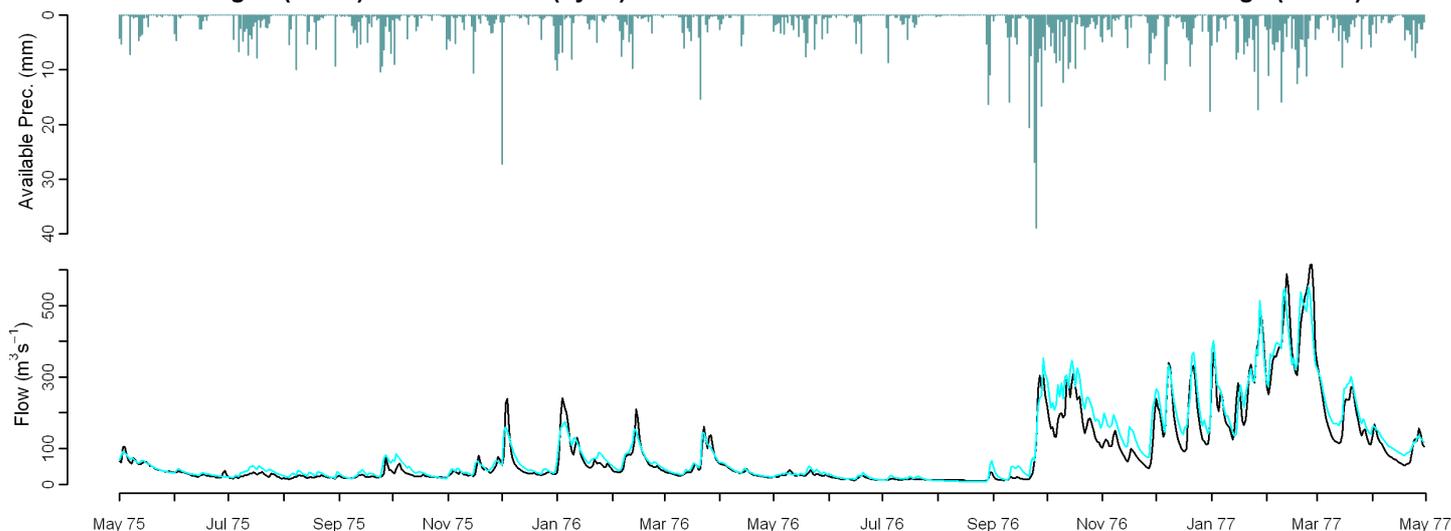
## Observed Data

## Comparison of gauged and simulated flow

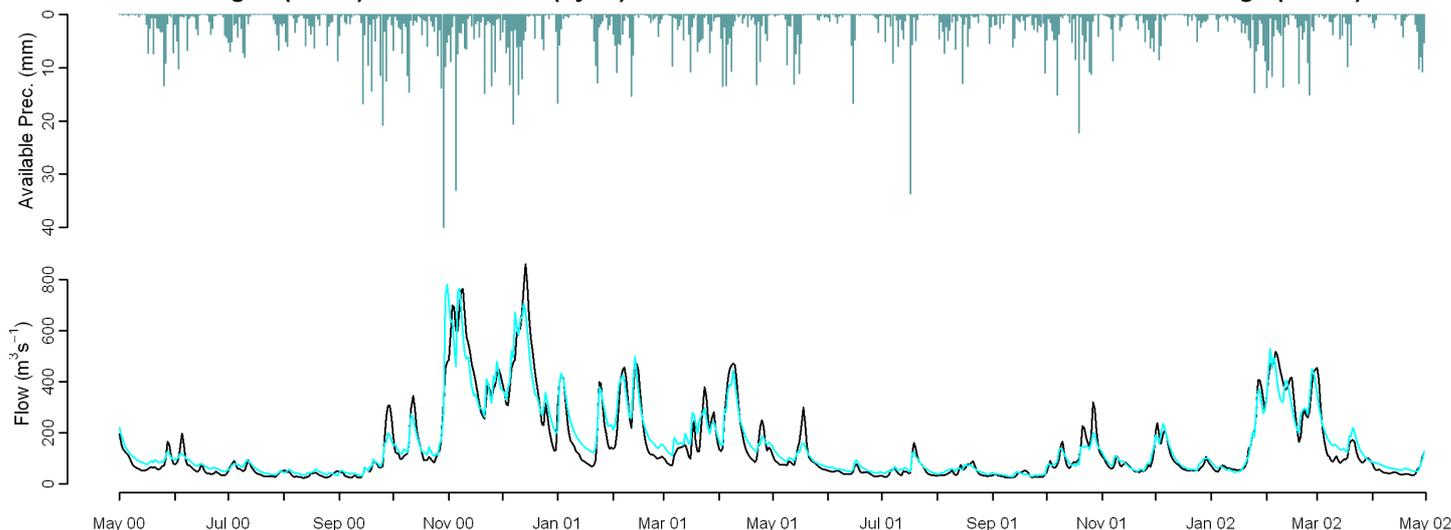
## Model used: CLASSIC

	Mean Annual	J	F	M	A	M	J	J	A	S	O	N	D	Nash Sutcliffe
MORECS (1971-2005)	7.4	5.1	8.9	8.9	7.5	7.8	10.1	24.5	15.5	7.5	4.6	4.7	5.2	0.93
Performance Band	1	1	1	1	1	1	2	2	2	1	1	1	1	1
FAO (1962-1991)	11.6	10.4	11.0	9.2	14.0	10.4	15.0	24.4	15.1	13.1	12.0	10.5	10.5	0.92
	Q90	Q75	Q50	Q25	Q5	RP2	RP5	RP10	RP20					
MORECS (1971-2005)	22.0	27.0	16.1	12.3	-6.0	6.5	9.1	7.4	3.3					
Performance Band	1	1	2	1	1									
FAO (1962-1991)	23.5	31.7	18.6	16.9	-0.5	6.2	8.7	9.4	9.4					

Gauged (black) and simulated (cyan) flows from observed climate - Severn at Haw Bridge (54057)

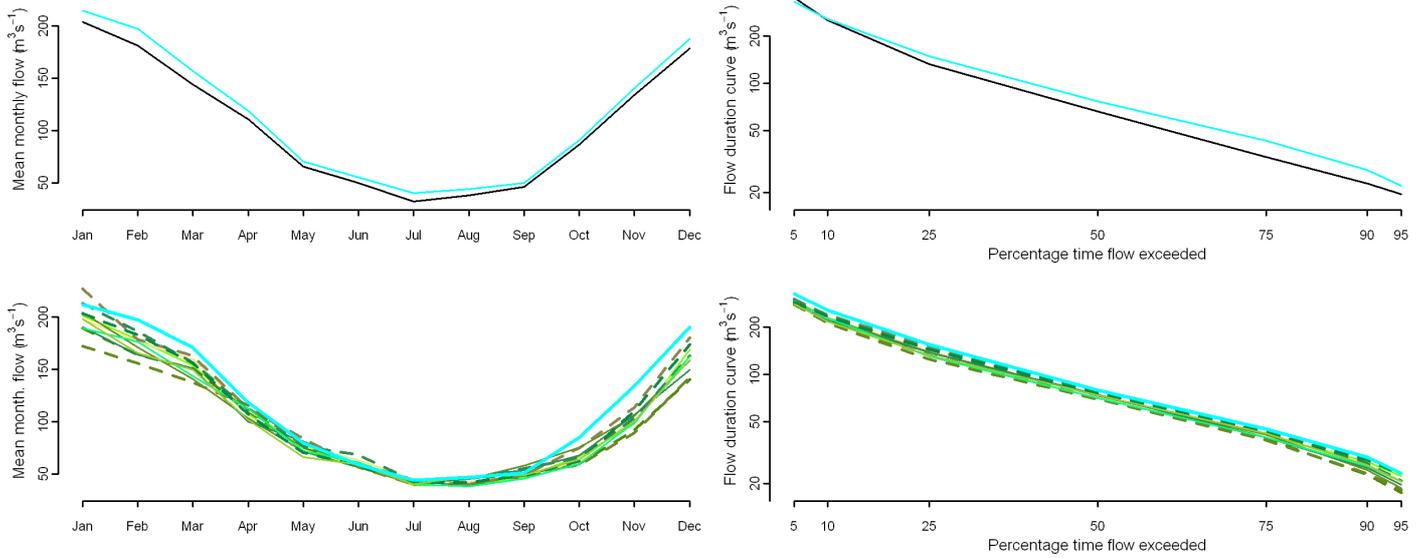


Gauged (black) and simulated (cyan) flows from observed climate - Severn at Haw Bridge (54057)



## 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 - Severn at Haw Bridge (54057)



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

	afgcx	afixa	afixc	afixh	afixi	afixj	afixk	afixl	afixm	afixo	afixq
Annual	-9	-15	-9	-3	-11	-16	-12	-4	-11	-9	-13
January	0	-11	-7	4	0	-19	-11	1	-10	-4	-5
April	-9	-11	-2	1	-12	-2	-14	-3	-4	-10	-13
July	-8	-3	7	-6	-10	2	-3	0	-8	-5	-10
October	-20	-27	-27	-11	-14	-28	-16	-18	-28	-25	-24
Q90	-6	-23	-13	-2	-19	-22	-15	-8	-12	-6	-11
Q75	-8	-13	-8	-2	-11	-16	-12	-3	-12	-6	-7
Q50	-8	-12	-8	1	-10	-12	-7	-1	-11	-5	-9
Q25	-10	-16	-8	-1	-13	-20	-12	-4	-16	-8	-16
Q5	-8	-15	-10	-7	-12	-14	-15	-7	-9	-13	-15
RP2	-4	-9	-6	-2	-5	-9	4	-3	-5	-5	-7
RP10	-1	-9	4	-1	6	-6	7	-7	7	-4	6

## Climate change graphs for 2050s

Change between future (2040-2069) and control (1961-1990) simulated flow (green) - Severn at Haw Bridge (54057)

