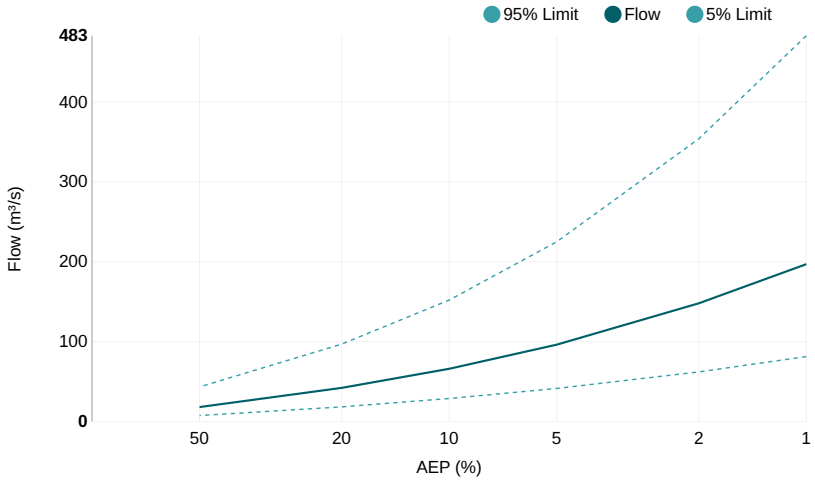
Results | Regional Flood Frequency Estimation Model



AEP (%)	Discharge (m^3/s)	Lower Confidence Limit (5%) (m^3/s)	Upper Confidence Limit (95%) (m^3/s)
50	18.1	7.49	43.3
20	42.1	18.3	96.9
10	66.0	28.8	152
5	96.2	41.4	225
2	148	62.1	354
1	197	81.3	483

Statistics

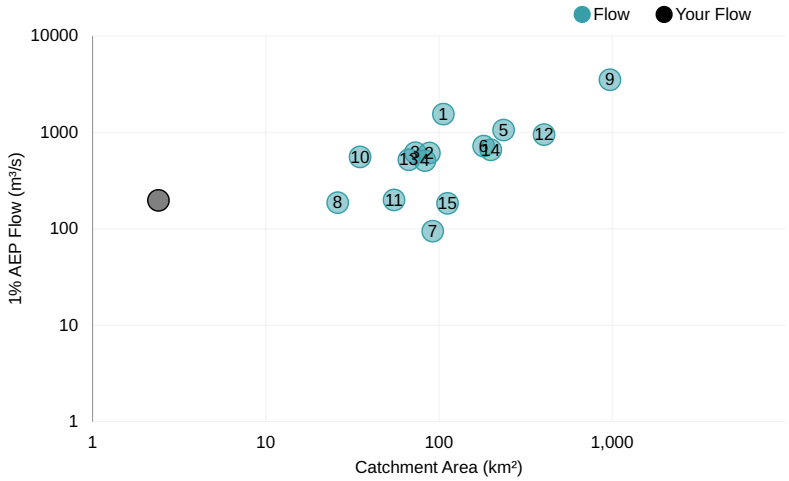
Variable	Value	Standard Dev
Mean	2.828	0.517
Standard Dev	0.988	0.147
Skew	0.084	0.027

Note: These statistics come from the nearest gauged catchment. Details.

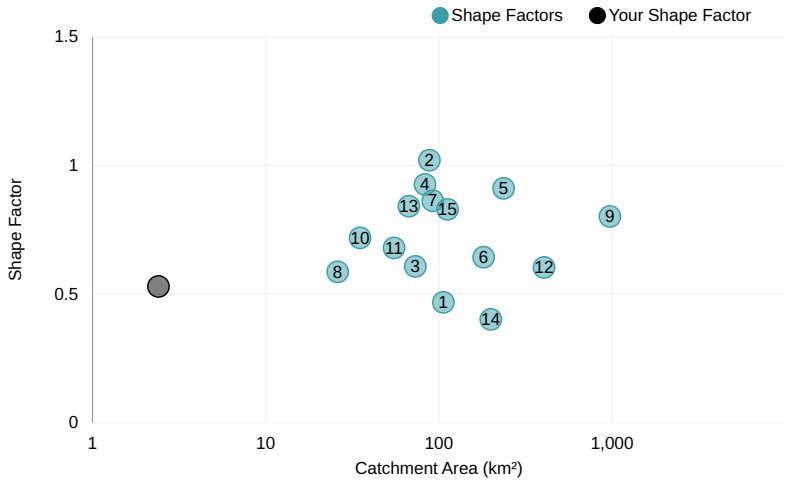
Correlation		
1.000		
-0.330	1.000	
0.170	-0.280	1.000

Note: These statistics are common to each region. Details.

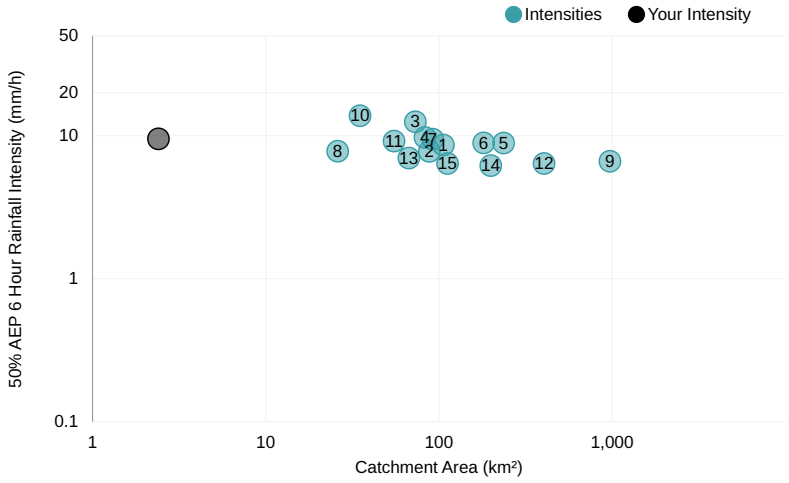
1% AEP Flow vs Catchment Area



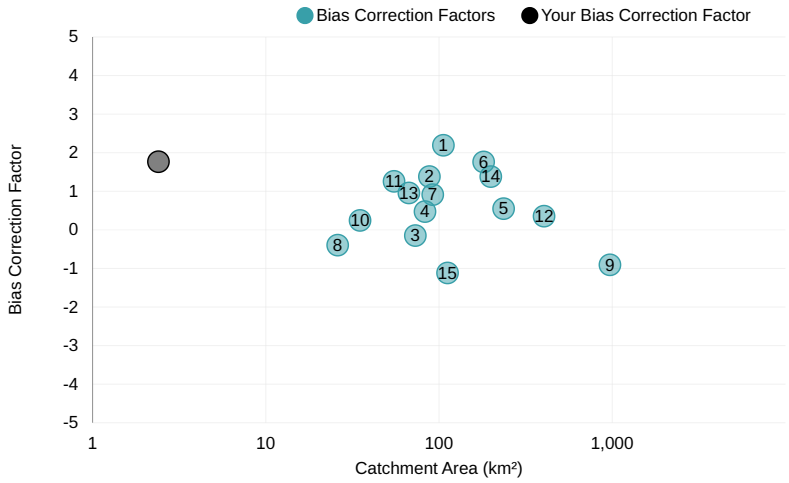
Shape Factor vs Catchment Area



Intensity vs Catchment Area



Bias Correction Factor vs Catchment Area



Download

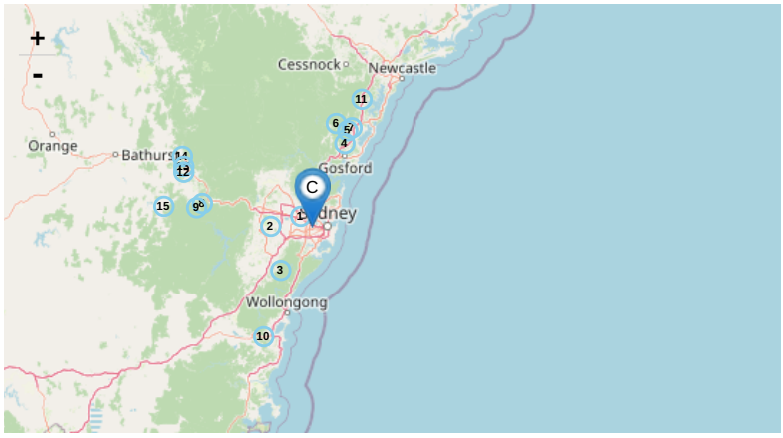
TXT Nearby JSON

Input Data

Date/Time	2025-03-19 13:11

Input Data

Catchment Name	Powells Creek
Latitude (Outlet)	-33.8702
Longitude (Outlet)	151.091
Latitude (Centroid)	-33.8774
Longitude (Centroid)	151.093
Catchment Area (km^2)	2.4
Distance to Nearest Gauged Catchment (km)	10.52
50% AEP 6 Hour Rainfall Intensity (mm/h)	9.520465
2% AEP 6 Hour Rainfall Intensity (mm/h)	19.072492
Rainfall Intensity Source (User/Auto)	Auto
Region	East Coast
Region Version	RFFE Model 2016 v1
Region Source (User/Auto)	Auto
Shape Factor	0.53
Interpolation Method	Natural Neighbour
Bias Correction Value	1.767



Method by Dr Ataur Rahman and Dr Khaled Haddad from Western Sydney University for the Australian Rainfall and Runoff Project. Full description of the project can be found at the project page (http://arr.ga.gov.au/revision-projects/project-list/projects/project-5) on the ARR website. Send any questions regarding the method or project here (mailto:admin@arr-software.org).

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