

This map is for general planning purposes only

The extent of the event shown on this map has been estimated using an un-calibrated model that has only been validated against a flood peak of 240.12 m AHD at the DNRM Gauge 422220A.

The Maranoa Regional Council may be able to provide additional data to provide an improved indication of the extent of this flood event.

Refer to "uncertainty comments" in the accompanying report and the notes accompanying the Flood Frequency Analysis.

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# Surat Flood Frequency Analysis NRM BoM Gauge Station 043063 Gauge Station 422213A

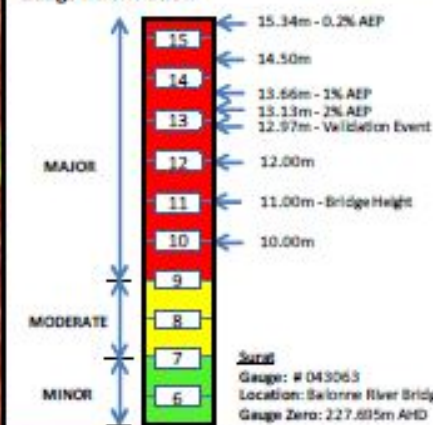
Annual Exceedence Probability (%)	Peak Discharge (cumecs)	Monte Carlo 90% quantile probability limits	Annual Exceedence Probability (%)	Peak Level (m Gauge Datum)	Peak Level (m AHD)
10	2300	1500 3500	10	NA	NA
5	3400	2200 6200	5	NA	NA
2	5600	3100 13000	2	13.1	240.8
1	8200	3800 21000	1	13.7	241.4
0.5	12000	4300 34000	0.5	NA	NA
0.2	21000	5000 63000	0.2	15.3	243.0

Within gauged values  
Based on theoretical data ie extrapolated rating curve  
Based on validated flood model

Note - Use this data with extreme caution and use in conjunction with the report:

- 1 These estimates of flows and levels could change as a result of more detailed flood modelling and/or measurements during higher flood events.
- 2 The levels only apply at the location of the gauging station.
- 3 The highest gauging was 3838 cumecs, so flows exceeding 3838 cumecs were estimated using an extrapolated rating curve.
- 4 Peak Levels are to the gauge datum. Gauge Zero is 227.886 m AHD for BoM 043063.
- 5 Flows in the model at Surat have been adjusted by a factor of 0.84 for differences in catchment area.
- 6 The flood event of 2010 has an estimated AEP of 3.1%.

## Gauge Information



Surat Gauge: # 043063  
Location: Balonne River Bridge  
Gauge Zero: 227.885m AHD



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Projection: MGA94 Zone 55

Date of Issue: 29 September 2017

## Maranoa Regional Council Surat flood hazard map 1% AEP (DNRM)

Surat flood hazard map 2.5.8.7

Flood Hazard  
Low  
Significant  
High  
Extreme