

# River Murray Estimated Water Levels by Flow Rate

## 100 GL/day - 160 GL/day



**Morgan - NPL 3.20 mAHD**

Flow at SA Border (GL/day)	Estimated Water Levels (mAHD)
100	7.42
120	7.86
140	8.22
160	8.61

**Berri - NPL 13.20 mAHD**

Flow at SA Border (GL/day)	Estimated Water Levels (mAHD)
100	15.49
120	15.65
140	15.80
160	16.11

**Lock 1 (Blanchetown) - NPL 3.20 mAHD**

Flow at SA Border (GL/day)	Estimated Water Levels (mAHD)
100	5.19
120	5.71
140	6.06
160	6.67

**Waikerie - NPL 6.10 mAHD**

Flow at SA Border (GL/day)	Estimated Water Levels (mAHD)
100	9.82
120	10.23
140	11.03
160	11.23

**Renmark - NPL 16.30 mAHD**

Flow at SA Border (GL/day)	Estimated Water Levels (mAHD)
100	17.43
120	17.79
140	18.14
160	18.39

**Swan Reach - NPL 0.75 mAHD**

Flow at SA Border (GL/day)	Estimated Water Levels (mAHD)
100	4.25
120	4.85
140	5.35
160	5.82

**Cobdogla - NPL 9.80 mAHD**

Flow at SA Border (GL/day)	Estimated Water Levels (mAHD)
100	11.86
120	12.13
140	12.60
160	13.58

**Loxton - NPL 9.80 mAHD**

Flow at SA Border (GL/day)	Estimated Water Levels (mAHD)
100	13.90
120	13.96
140	14.03
160	14.92

**Mannum - NPL 0.75 mAHD**

Flow at SA Border (GL/day)	Estimated Water Levels (mAHD)
100	1.73
120	2.07
140	2.48
160	2.94

**Notes**

Giga Litre (GL) = 1,000,000,000 litres  
 mAHD = elevation in metres above Australian Height Datum (approximately equivalent to sea level)  
 NPL = Normal Pool Level  
 QSA = Flow at the South Australian Border

**Murray Bridge - NPL 0.75 mAHD**

Flow at SA Border (GL/day)	Estimated Water Levels (mAHD)
100	1.27
120	1.49
140	1.71
160	2.05

**Wellington - NPL 0.75 mAHD**

Flow at SA Border (GL/day)	Estimated Water Levels (mAHD)
100	0.96
120	1.05
140	1.16
160	1.31

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# River Murray Estimated Water Levels by Flow Rate

## 180 GL/day - 250 GL/day



### Morgan - NPL 3.20 mAHD

Flow at SA Border (GL/day)	Estimated Water Levels (mAHD)
180	8.90
200	9.19
220	9.54
250	10.06

### Berri - NPL 13.20 mAHD

Flow at SA Border (GL/day)	Estimated Water Levels (mAHD)
180	16.21
200	16.30
220	16.68
250	17.27

### Lock 1 (Blanchetown) - NPL 3.20 mAHD

Flow at SA Border (GL/day)	Estimated Water Levels (mAHD)
180	7.07
200	7.46
220	7.78
250	8.26

### Waikerie - NPL 6.10 mAHD

Flow at SA Border (GL/day)	Estimated Water Levels (mAHD)
180	11.43
200	11.64
220	12.16
250	12.95

### Renmark - NPL 16.30 mAHD

Flow at SA Border (GL/day)	Estimated Water Levels (mAHD)
180	18.58
200	18.76
220	18.92
250	19.17

### Swan Reach - NPL 0.75 mAHD

Flow at SA Border (GL/day)	Estimated Water Levels (mAHD)
180	6.28
200	6.73
220	7.02
250	7.46

### Cobdogla - NPL 9.80 mAHD

Flow at SA Border (GL/day)	Estimated Water Levels (mAHD)
180	13.70
200	13.84
220	14.66
250	15.89

### Loxton - NPL 9.80 mAHD

Flow at SA Border (GL/day)	Estimated Water Levels (mAHD)
180	14.99
200	15.07
220	15.75
250	16.77

### Mannum - NPL 0.75 mAHD

Flow at SA Border (GL/day)	Estimated Water Levels (mAHD)
180	3.22
200	3.47
220	3.75
250	4.17

### Notes

Giga Litre (GL) = 1,000,000,000 litres  
 mAHD = elevation in metres above Australian Height Datum (approximately equivalent to sea level)  
 NPL = Normal Pool Level  
 QSA = Flow at the South Australian Border

### Murray Bridge - NPL 0.75 mAHD

Flow at SA Border (GL/day)	Estimated Water Levels (mAHD)
180	2.25
200	2.47
220	2.68
250	2.99

### Wellington - NPL 0.75 mAHD

Flow at SA Border (GL/day)	Estimated Water Levels (mAHD)
180	1.36
200	1.42
220	1.48
250	1.56

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# River Murray Estimated Water Levels by Flow Rate



## Notes to assist interpretation:

1. The extent of inundation shown in DEW flood maps are matched to the modelled water levels shown above.
2. High flows in the River Murray can be reliably calculated at only three locations in South Australia: at the SA border (QSA), Lock 1 at Blanchetown and the barrages at the Murray mouth. There are no major tributaries entering the River Murray between the border and the Lower Lakes. Historically, the peak flow measured at the SA border will 'attenuate' (reduce) as the flood peak moves down the river towards the Lower Lakes. The degree to which the peak attenuates is different for every flood. Typically, by the time the flood peak reaches Lock 1, it will have reduced by 5 to 20 GL/day compared to the peak flow measured at the border (QSA).
3. Between the SA border and Morgan, the modelled water levels and inundation extents relate to the maximum flow measured at the SA border (QSA). DEW flood modelling has assumed that minimal attenuation of the flood peak will occur (a conservative assumption). If attenuation does occur, the modelled water levels and inundation extents will over-predict the actual values.
4. Between Morgan and Wellington, the modelled water levels and inundation extents relate to the maximum flow measured at Lock 1. For flood preparedness purposes, it is appropriate to assume that the flow at Lock 1 will be the same as QSA. Regular updates will be provided on anticipated water levels as the flood peak moves down the river in South Australia and maximum water levels are observed. This may be reduced from what is initially forecast.
5. Water levels downstream of Lock 1 can be impacted by wind events which may cause temporary increases in water levels.