

River Murray Estimated Water Levels by Flow Rate



100 GL/day to 160 GL/day

Location	Normal Pool Level (m AHD)	Maximum Water Level (m AHD)					
		2016 High Flow QSA 94 GL/day Q Lock 1 81 GL/day	Modelled 100 GL/day	Modelled 120 GL/day	Modelled 140 GL/day	Modelled 160 GL/day	1975 Flood QSA 162 GL/day Q Lock 1 155 GL/day
Lock 6	19.25	20.19	-	-	-	-	20.92
Renmark	16.30	17.44	17.43	17.79	18.14	18.39	18.50
Lock 5	16.30	17.05	17.14	17.45	17.74	18.03	18.07
Lyrup	13.20	15.80	16.11	16.40	16.65	17.02	-
Berri	13.20	15.21	15.49	15.65	15.80	16.11	16.20
Lock 4	13.20	14.73	14.94	15.03	15.11	15.53	15.57
Loxton	9.80	13.54	13.90	13.96	14.03	14.92	14.96
Cobdogla	9.80	-	11.86	12.13	12.60	13.58	13.33
Lock 3	9.80	10.98	11.61	11.98	12.52	13.31	13.08
Overland Corner	6.10	10.41	11.29	11.78	12.42	12.79	12.62
Waikerie	6.10	9.20	9.82	10.23	11.03	11.23	11.17
Lock 2	6.10	8.32	8.82	9.23	10.07	10.25	10.24
Cadell	3.20	7.01	7.61	8.04	8.58	8.88	9.05
Morgan	3.20	6.38	7.42	7.86	8.22	8.61	8.43
Lock 1	3.20	4.46	5.19	5.71	6.06	6.67	6.42
Swan Reach	0.75	3.11	4.25	4.85	5.35	5.82	5.82
Mannum PS	0.75	1.33	1.73	2.07	2.48	2.94	2.90
Murray Bridge	0.75	1.04	1.27	1.49	1.71	2.05	1.90
Jervois	0.75	-	1.04	1.17	1.32	1.52	1.39
Wellington	0.75	-	0.96	1.05	1.16	1.31	-
Lake Alexandrina	0.75	< 1.0	-	-	-	-	< 1.0

Notes

Giga Litre (GL) = 1,000,000,000 litres

mAHD = elevation in metres above Australian Height Datum (approximately equivalent to sea level)

QSA = Flow at the South Australian Border

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River Murray Estimated Water Levels by Flow Rate



180 GL/day to 250 GL/day

Location	Normal Pool Level (m AHD)	Maximum Water Level (m AHD)					
		Modelled 180 GL/day	Nov 1974 Flood QSA 182 GL/day Q Lock 1 163 GL/day	Modelled 200 GL/day	1931 Flood QSA 210 GL/day	Modelled 220 GL/day	Modelled 250 GL/day
Lock 6	19.25	-	21.01	-	21.17	-	-
Renmark	16.30	18.58	18.54	18.76	18.65	18.92	19.17
Lock 5	16.30	18.23	18.07	18.42	18.40	18.59	18.84
Lyrup	13.20	17.22	-	17.42	-	17.74	18.22
Berri	13.20	16.21	16.27	16.30	16.56	16.68	17.27
Lock 4	13.20	15.62	15.66	15.70	15.94	16.23	17.02
Loxton	9.80	14.99	15.04	15.07	-	15.75	16.77
Cobdogla	9.80	13.70	13.43	13.84	14.04	14.66	15.89
Lock 3	9.80	13.47	13.17	13.64	13.74	14.35	15.41
Overland Corner	6.10	13.05	12.73	13.30	-	13.80	14.55
Waikerie	6.10	11.43	11.24	11.64	11.67	12.16	12.95
Lock 2	6.10	10.42	10.29	10.62	10.75	11.15	11.95
Cadell	3.20	9.13	9.16	9.41	9.75	9.83	10.46
Morgan	3.20	8.90	8.57	9.19	9.03	9.54	10.06
Lock 1	3.20	7.07	6.81	7.46	7.32	7.78	8.26
Swan Reach	0.75	6.28	6.04	6.73	-	7.02	7.46
Mannum PS	0.75	3.22	3.14	3.47	3.50	3.75	4.17
Murray Bridge	0.75	2.25	2.02	2.47	2.42	2.68	2.99
Jervois	0.75	1.63	1.55	1.73	2.03	1.84	2.01
Wellington	0.75	1.36	-	1.42	-	1.48	1.56
Lake Alexandrina	0.75	-	< 1.0	-	-	-	-

Notes

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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 maximum 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 the maximum flow measured at Lock 1 will be 5 to 20 GL/day less than the maximum 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 up to 0.3 metres.