

Kiewa & Murray R Below Hume Dam Calibration Summary

For a fuller explanation of the calibration of the Upper Murray River URBS models, refer to *Upper Murray River URBS Model Enhancement*, August 2016.

Calibration Performance Below Murray River Model at Doctors Point

Event	Flow			Volume			Peak Height			Nash Sutcliffe
	Cal	Rated	PR	Cal	Rated	VR	Cal	Rec	δH	
	m ³ /s	m ³ /s		ML	ML		m AHD	m AHD	m	
197401	1,045	1,013	1.03	710,681	672,962	1.06	6.33	6.30	-0.03	0.89
197410	1,963	1,800	1.09	2,238,106	2,030,519	1.10	7.02	6.93	-0.09	0.87
197510	2,087	2,043	1.02	1,800,482	1,668,089	1.08	7.07	7.05	-0.02	0.97
198107	330	319	1.04	176,418	224,109	0.79	4.18	4.10	-0.08	0.56
198308	378	372	1.02	112,481	116,198	0.97	4.48	4.44	-0.04	0.89
199210	1,310	1,332	0.98	732,244	736,132	0.99	6.59	6.61	0.02	0.97
199310	835	767	1.09	730,217	716,981	1.02	6.10	6.01	-0.09	0.93
199607	349	387	0.90	721,700	821,036	0.88	4.29	4.53	0.24	0.88
199610	1,089	1,150	0.95	2,688,315	2,826,797	0.95	6.38	6.44	0.06	0.97
199809	479	526	0.91	120,122	139,925	0.86	5.10	5.36	0.26	0.94
201009	292	337	0.86	185,966	181,346	1.03	3.91	4.22	0.31	0.89
201010	431	372	1.16	349,470	361,311	0.97	4.80	4.44	-0.36	0.74
201012	839	715	1.17	522,433	484,541	1.08	6.10	5.92	-0.18	0.79
201102	341	327	1.05	588,258	659,600	0.89	4.24	4.15	-0.09	0.58
201109	323	316	1.02	205,581	214,284	0.96	4.13	4.08	-0.05	0.86
201203	223	249	0.90	124,303	120,911	1.03	3.40	3.59	0.19	0.83

Recommended Model Parameters Below Murray River

Percentile	IL (mm)	CL (mm/hr)	Alpha	Beta	m
5th	0	1.4	0.30	3.0	0.8
95th	54	6.5	0.50	5.0	0.8
Recommended	To suit antecedent conditions	3.2	0.36	4.3	0.8