

## Detection of changes in flood data in Victoria, Australia from 1975 to 2011

### APPENDIX A

**Table A1** | Results of homogeneity of trends between months based on Van Belle and Hughes' homogeneity of trend test

Station no.	$\chi^2_{\text{homogeneous}}$	$\chi^2_{\text{trend}}$	Station no.	$\chi^2_{\text{homogeneous}}$	$\chi^2_{\text{trend}}$
221207	10.12	11.24	238208	8.80	47.44*
221209	9.74	55.49*	238219	11.07	12.59
221210	8.12	43.95*	238223	5.21	54.80*
221211	12.03	13.94	238229	9.01	48.28*
222202	10.31	17.68	238230	4.64	51.44*
222206	8.39	7.46	238235	7.66	60.73*
222210	8.18	11.04	401208	6.48	11.34
222213	19.53	2.15	401210	7.38	0.49
223202	9.75	7.67	401212	10.97	0.11
223204	13.95	25.32*	401215	6.42	5.20
224213	7.65	0.32	401217	8.45	0.14
224214	9.45	7.97	402203	15.32	3.35
225213	13.47	7.04	402204	5.41	15.00
225218	15.69	7.35	402206	5.20	10.45
225219	12.36	0.65	402213	5.21	21.94*
225223	14.64	14.69	402217	4.25	16.66
225224	10.99	6.30	403205	6.27	1.58
226204	11.11	34.65*	403209	5.34	4.73
226205	7.06	17.05	403213	3.79	6.52
226209	9.77	6.59	403214	8.62	7.00
226218	10.08	28.42	403217	5.93	0.73
226226	13.92	3.43	403221	5.81	8.36
226402	9.29	12.30	403222	7.71	0.05
227200	13.40	36.54*	403224	5.21	5.81
227205	18.93	2.61	403226	6.33	14.65
227210	21.80 <sup>+</sup>		403227	5.32	4.06
227211	17.14	6.45	403232	3.04	13.86
227213	15.62	20.39*	403233	6.91	0.02
227219	8.11	15.02	404206	6.37	12.25
227225	14.30	19.86*	404207	2.61	22.80*
227226	18.78	6.51	404208	18.17	36.98*

(continued)

**Table A1** | continued

Station no.	$\chi^2_{\text{homogeneous}}$	$\chi^2_{\text{trend}}$	Station no.	$\chi^2_{\text{homogeneous}}$	$\chi^2_{\text{trend}}$
227227	10.39	3.92	405205	6.95	9.18
227231	7.21	19.73*	405209	6.30	0.70
229216	13.33	2.60	405212	7.81	21.75
230202	19.834		405214	2.36	6.49
230204	8.844	51.63*	405215	5.12	0.75
230205	13.91	46.07*	405217	4.88	11.96
230206	20.18 <sup>+</sup>		405218	4.82	0.22
230211	7.34	67.27*	405219	6.10	0.21
230213	15.42	20.20	405226	6.76	34.19*
231213	10.02	38.11*	405227	4.94	1.87
231225	16.20	15.59	405228	6.27	25.34*
232200	14.80	31.79*	405231	7.14	7.14
232210	13.70	67.86*	405237	3.80	15.15
233211	21.33 <sup>+</sup>		405238	6.67	36.21*
233215	12.00	6.46	405240	9.38	35.38*
233223	20.78 <sup>+</sup>		405241	10.42	2.03
234200	13.47	46.50*	405245	12.64	7.72
234203	3.86	18.79	405251	6.82	18.46*
235202	13.01	1.75	405263	8.18	0.99
235203	8.47	10.42	405264	7.25	0.15
235210	12.10	7.75	406213	8.27	55.73*
235211	10.66	0.79	406214	7.61	57.73*
235216	20.37	4.22	406215	6.64	55.78*
235219	10.92	0.77	407213	6.01	118.36*
235227	11.13	12.49	407214	11.34	49.85*
236204	8.66	70.60*	407217	5.18	38.36*
236205	3.09	52.34*	407220	10.84	71.93*
236212	3.88	16.79	407221	12.53	22.19*
237200	3.95	31.14*	407222	7.79	62.20*
237202	14.66	16.35	407227	7.81	57.08*
237205	6.58	78.80*	407230	8.88	57.79*

(continued)

**Table A1** | continued

Station no.	$\chi^2_{\text{homogeneous}}$	$\chi^2_{\text{trend}}$	Station no.	$\chi^2_{\text{homogeneous}}$	$\chi^2_{\text{trend}}$
237206	4.34	24.69	408202	16.22	73.85*
237207	7.67	12.87	415207	9.73	43.98*
238204	6.50	67.95*	415217	12.22	4.05
238207	10.38	9.13			

\*Trends in months having same direction.

+Trends in months having different direction.

The critical values of  $\chi^2_{\text{homogeneous}}$  and  $\chi^2_{\text{trend}}$  at  $\alpha = 0.05$  significant level equal to 19.68 and 3.84, respectively.

## APPENDIX B

**Table B1** | Trend indices (*T*) associated with trends for seven river flow index series

Station no.	Station name	Flood magnitude					Flood frequency		
		Ann. max.	Monthly max.	POT1 mag.	POT2 mag.	POT3 mag.	POT1 freq.	POT2 freq.	POT3 freq.
221207	Errinundra River @ Errinundra	-60.9	-92.07	-87.8	-77.3	-77.5	-86.7	-92.8	-92.6
221209	Cann River (East Branch) @ Weeragua	-95.2	-99.37	-47.1	-6.0	-61.7	-93.7	-98.7	-96.9
221210	Genova River @ The Gorge	-91.3	-98.59	-26.7	-85.7	10.5	-93.4	-89.2	-93.7
221211	Combienbar River @ Combienbar	-43.5	-90.08	80.6	-70.4	-43.5	-81.9	-52.7	-73.6
222202	Brodribb River @ Sardine Creek	-49.5	-94.19	29.6	-59.4	-79.0	-97.1	-91.6	-82.2
222206	Buchan River @ Buchan	-49.5	-78.17	-14.6	-76.4	-54.9	-74.5	-60.0	-83.2
222210	Deddick River @ Deddick (Caseys)	-23.6	-82.45	-20.7	40.2	-52.6	27.7	-91.8	-71.8
222213	Suggan Buggan River @ Suggan Buggan	-57.5	-49.60	-71.2	6.7	-13.0	-16.6	-65.0	-61.9
223202	Tambo River @ Swifts Creek	1.0	-84.21	12.5	-80.1	-14.6	-86.8	-54.5	-60.4
223204	Nicholson River @ Deptford	-51.2	-98.27	93.7	-1.1	18.9	-97.7	-94.6	-94.0
224213	Dargo River @ Lower Dargo Road	33.4	-35.39	69.3	78.7	24.6	11.1	-35.8	-69.2
224214	Wenworth River @ Tabberabbera	-52.8	-85.49	54.5	-19.5	-32.0	-80.2	-54.2	-70.2
225213	Aberfeldy River @ Beardmore	-83.8	-86.48	51.3	-14.1	-50.7	-81.8	-85.6	-92.1
225218	Freestone Creek@ Briagalong	-33.4	-85.00	31.6	53.1	42.5	-55.9	-86.3	-98.4
225219	Macalister River @ Glencairn	80.5	44.96	92.5	97.6	82.7	41.7	-41.1	-74.4
225223	Valencia Creek @ Gillio Road	-45.3	-94.09	11.5	70.4	4.5	-80.0	-87.3	-95.3
225224	Avan River @ The Channel	-72.2	-77.81	80.1	77.1	-32.2	-90.8	-97.4	-94.9
226204	Latrobe River @ Willow Grove	-91.8	-98.16	49.7	-58.1	-84.5	-93.9	-99.1	-98.9
226205	Latrobe River @ Noojee	-79.5	-91.81	89.9	-4.1	-29.0	-95.4	-79.2	-96.9
226209	Moe River @ Darnum	-96.2	-76.30	-75.7	-78.7	-62.3	-57.9	-95.7	-93.1
226218	Narracan Creek @ Thorpdale	-73.4	-93.58	-7.3	51.0	71.8	-58.6	-45.3	-83.5
226226	Tanjil River @ Tanjil Junction	-31.5	-65.29	7.3	53.6	57.2	-4.4	-78.1	-86.8

(continued)

Table B1 | continued

Station no.	Station name	Flood magnitude					Flood frequency		
		Ann. max.	Monthly max.	POT1 mag.	POT2 mag.	POT3 mag.	POT1 freq.	POT2 freq.	POT3 freq.
226402	Moe Drain @ Trafalgar East	-94.2	-87.12	-96.1	-42.5	-33.9	-92.1	-92.9	-94.7
227200	Tarra River @ Yarram	-83.8	<b>-99.32</b>	76.7	9.7	-15.6	<b>-96.3</b>	<b>-98.9</b>	<b>-99.6</b>
227205	Merriman Creek @ Calignee South	-58.3	-63.81	93.7	-86.5	37.9	-77.2	2.1	-67.3
227210	Bruthen Creek @ Carrajung Lower	-77.6	<b>-97.66</b>	82.7	-2.2	-60.7	-88.9	<b>-98.8</b>	<b>-99.2</b>
227211	Agnes River @ Toora	-54.4	-87.38	49.6	43.7	60.0	-70.9	-79.7	-92.3
227213	Jack River @ Jack River	-78.6	<b>-98.35</b>	28.6	39.2	5.1	-89.8	<b>-98.0</b>	<b>-99.6</b>
227219	Bass River @ Loch	-93.4 <sup>1</sup>	-92.89	-27.7	-57.0 <sup>1</sup>	-93.1 <sup>1</sup>	<b>-95.7</b>	<b>-99.6</b>	<b>-98.3</b>
227225	Tarra River @ Fischers	-80.0	<b>-97.44</b>	<b>95.2</b>	6.7	-33.3	<b>-96.7</b>	<b>-98.3</b>	<b>-99.5</b>
227226	Tarwin River East Branch @ Dumbalk North	<b>-96.2</b>	-80.52	48.0	-37.3	-81.8	<b>-95.9</b>	<b>-98.8</b>	<b>-97.3</b>
227227	Wilkur Creek @ Leongatha	<b>-98.8</b>	-61.84	-38.2	<b>-98.1</b>	-93.3	<b>-99.3</b>	-88.6	-92.3
227231	Bass River @ Glen Forbes South	<b>-99.8<sup>1</sup></b>	<b>-96.46</b>	-30.6 <sup>1</sup>	-94.1 <sup>1</sup>	<b>-97.3<sup>1</sup></b>	<b>-99.9</b>	<b>-99.5</b>	-91.3
229216	Plenty River @ Mernda	-32.4	-32.75	-34.4	-68.0	-49.9	-23.3	-84.0	-53.6
230202	Jackson Creek @ Sunbury	-75.6	-65.84	<b>95.7</b>	-92.5	-93.3	-79.5	-92.6	-79.5
230204	Riddells Creek @ Riddells Creek	-90.3	<b>-98.00</b>	92.3	21.7	-62.1	<b>-98.0</b>	<b>-97.7</b>	-92.3
230205	Deep Creek @ Bulla	-94.9	<b>-97.46</b>	25.7	-51.3	-76.6	<b>-96.5</b>	-94.5	<b>-96.0</b>
230206	Jackson Creek @ Gisborne	<b>-100.0<sup>2</sup></b>	<b>-99.91</b>	-16.6 <sup>2</sup>	-44.3 <sup>2</sup>	-93.6 <sup>2</sup>	<b>-100.0</b>	-33.1	<b>-99.9</b>
230211	Emu Creek @ Clarkefield	<b>-97.0</b>	<b>-99.39</b>	52.9	-5.2	-30.2	<b>-97.7</b>	<b>-95.2</b>	<b>-95.8</b>
230213	Turritable Creek @ Mount Macedon	-72.2	-91.63	-53.0	-23.8	-54.0	-67.9	-62.8	-73.4
231213	Lerderberg River @ Sardine Creek	<b>-98.0</b>	<b>-98.54</b>	59.9	32.6	-86.7	<b>-97.5</b>	<b>-98.5</b>	<b>-99.0</b>
231225	Werribee River @ Ballan	-92.3	-91.16	<b>95.8</b>	79.1	-13.0	-93.5	<b>-97.6</b>	<b>-99.0</b>
232200	Little River @ Little River	-66.0	<b>-98.76</b>	64.1	33.9	-74.9	-93.8	<b>-99.3</b>	<b>-97.7</b>
232210	Moorabool River West Branch @ Lal Lal	-94.4 <sup>3</sup>	<b>-99.42</b>	79.2 <sup>3</sup>	7.1 <sup>3</sup>	-75.8 <sup>3</sup>	<b>-97.9</b>	<b>-97.1</b>	-86.1
233211	Birregurra Creek @ Ricketts Marsh	-92.8 <sup>1</sup>	<b>-98.46</b>	-69.43	-64.9 <sup>1</sup>	-67.3 <sup>1</sup>	<b>-98.9</b>	<b>-99.9</b>	<b>-99.9</b>
233215	Leigh River @ Mount Mercer	-90.8	-87.21	87.5	-59.9	<b>-95.7</b>	<b>-98.7</b>	<b>-96.5</b>	-89.0
233223	Warrambine Creek @ Warrambine	-94.2	<b>-98.93</b>	-91.6	-88.7	<b>-95.8</b>	-93.4	-88.1	-70.0
234200	Woody Yaloak River @ Pitfield	<b>-99.3</b>	<b>-99.75</b>	-64.8	-17.4	-85.4	<b>-97.9</b>	<b>-99.7</b>	<b>-98.7</b>
234203	Pirron Yallock Creek @ Pirron Yallock	-94.4 <sup>3</sup>	-88.23	-1.0 <sup>3</sup>	-29.1 <sup>3</sup>	-39.7 <sup>3</sup>	-35.9	<b>-95.5</b>	<b>-98.8</b>
235202	Gellibrand River @ Upper Gellibrand	-23.6	-51.07	-22.7	-71.3	66.7	-79.9	-58.2	<b>-99.5</b>
235203	Curdies River @ Curdie	-93.9	-78.00	-16.6	13.0	-53.5	-57.8	-87.4	-78.8
235210	Lardner Creek @ Gellibrand	-79.5	-83.56	11.5	-83.9	-72.7	-90.2	<b>-97.8</b>	<b>-99.3</b>
235211	Kennedys Creek @ Kennedys Creek	-80.5	-18.52	-16.6	-37.9	-81.0	-81.4	-71.0	2.1
235216	Cumberland River @ Lorne	5.2	-87.91	25.7	50.7	-7.1	-68.5	-59.1	<b>-98.0</b>
235219	Aire River @ Wyelangta	-41.7	-49.76	53.7	-65.7	-54.0	<b>-97.7</b>	-90.7	-91.4
235227	Gellibrand River @ Bunkers Hill	-74.5	-91.81	-76.7	-87.5	-92.5	<b>-96.2</b>	<b>-96.0</b>	-94.4
236204	Fiery Creek @ Streatham	<b>-99.5</b>	<b>-99.53</b>	-37.3	-47.7	-93.3	<b>-98.7</b>	<b>-99.1</b>	<b>-98.1</b>

(continued)

Table B1 | continued

Station no.	Station name	Flood magnitude					Flood frequency		
		Ann. max.	Monthly max.	POT1 mag.	POT2 mag.	POT3 mag.	POT1 freq.	POT2 freq.	POT3 freq.
236205	Merri River @ Woodford	-94.4	<b>-97.58</b>	-49.6	-91.0	<b>-99.2</b>	<b>-98.7</b>	<b>-96.9</b>	-89.0
236212	Brucknell Creek @ Cudgee	-94.6	-91.39	-27.7	39.2	<b>-98.6</b>	-91.2	<b>-98.9</b>	-92.0
237200	Moyne River @ Toolong	<b>-98.6<sup>3</sup></b>	<b>-96.21</b>	<b>-100.0<sup>3</sup></b>	<b>-99.8<sup>3</sup></b>	<b>-97.5<sup>3</sup></b>	<b>-95.7</b>	-84.3	-91.1
237202	Fitzroy River @ Heywood	<b>-96.7<sup>4</sup></b>	-90.53	<b>-97.5<sup>4</sup></b>	<b>-35.3<sup>4</sup></b>	<b>-75.0<sup>4</sup></b>	-84.2	<b>-98.7</b>	<b>-98.9</b>
237205	Darlot Creek @ Homerton Bridge	<b>-97.9</b>	<b>-99.24</b>	-91.4	-89.2	<b>-99.5</b>	<b>-99.2</b>	<b>-99.3</b>	<b>-98.1</b>
237206	Eumeralla River @ Codrington	<b>-96.2<sup>4</sup></b>	-89.38	<b>-98.0<sup>4</sup></b>	<b>-100.0<sup>4</sup></b>	<b>-92.8<sup>4</sup></b>	-91.2	-42.8	-36.2
237207	Surry River @ Heathmere	-68.6	-90.09	-43.6	24.5	64.2	-26.1	-30.2	-87.9
238204	Wannon River @ Dunkeld	<b>-99.7</b>	<b>-99.21</b>	-84.7	-64.2	-65.2	<b>-98.2</b>	<b>-97.9</b>	<b>-98.6</b>
238207	Wannon River @ Jimmy Creek	-11.4	-90.59	-15.6	0.4	28.8	-38.5	-37.0	-86.3
238208	Jimmy Creek @ Jimmy Creek	-69.9	<b>-98.53</b>	89.3	-23.1	-35.4	-90.5	-94.2	<b>-97.7</b>
238219	Grange Burn @ Morgiana	-94.4	-89.18	-91.4	-89.1	-86.5	-94.6	-85.4	-86.7
238223	Wando River @ Wando Vale	-94.2	<b>-99.65</b>	-71.7	28.8	-83.2	-94.3	<b>-99.4</b>	<b>-97.4</b>
238229	Chetwynd River @ Chetwynd	<b>-95.5<sup>5</sup></b>	<b>-99.43</b>	<b>-41.8<sup>5</sup></b>	<b>-0.7<sup>5</sup></b>	<b>-17.0<sup>5</sup></b>	-92.6	<b>-97.6</b>	<b>-99.6</b>
238230	Stokes River @ Teakettle	<b>-98.8</b>	<b>-99.03</b>	-83.6	-94.6	-93.3	<b>-99.6</b>	<b>-97.9</b>	<b>-94.9</b>
238235	Crawford River @ Lower Crawford	<b>-99.4</b>	<b>-99.50</b>	-93.1	-62.0	<b>-95.5</b>	<b>-96.9</b>	<b>-99.5</b>	<b>-98.0</b>
401208	Cudgewa Creek @ Berringama	-39.0	-81.60	85.8	14.8	-25.4	-54.4	-56.4	-48.4
401210	Snowy Creek @ Below Granite Flat	-29.6	-31.61	75.1	42.8	-11.5	-32.2	-60.0	-41.3
401212	Nariel Creek @ Upper Nariel	-42.6	-6.39	48.8	40.2	-13.8	-38.8	-81.4	-75.1
401215	Morass Creek @ Uplands	-89.8	-67.63	20.7	22.1	-88.3	-63.2	-75.7	-19.9
401217	Gibbo River @ Gibbo Park	5.2	27.14	44.5	-86.1	11.5	-34.6	25.6	-24.0
402203	Kiewa River @ Mongans Bridge	-9.4	70.76	-38.2	17.4	-90.4	-15.5	-65.1	13.7
402204	Yackandandah Creek @ Osbornes Flat	-59.0	-93.27	-3.1	-37.3	-29.8	-54.9	-64.5	-64.7
402206	Running Creek @ Running Creek	-51.2	-77.84	78.2	19.9	-67.8	-66.9	-91.8	-67.0
402213	Kinchington Creek @ Osbornes Flat	-88.0	<b>-96.35</b>	56.8	-32.2	-73.7	-93.4	-89.1	-85.1
402217	Flaggy Creek @ Myrtleford Road Bridge	-81.4	-94.79	66.1	64.0	35.0	-94.1	<b>-98.0</b>	<b>-97.8</b>
403205	Ovens Rivers @ Bright	-72.2	-56.65	-59.1	-7.1	-83.7	-70.2	-89.7	-64.1
403209	Reedy Creek @ Wangaratta North	-11.4	-67.40	74.6	-21.0	-85.9	-74.4	-80.4	-46.1
403213	Fifteen Mile Creek @ Greta South	-27.6	-77.30	23.7	47.7	-31.5	-34.4	-66.9	-28.2
403214	Happy Valley Creek @ Rosewhite	-83.4	-75.33	-41.8	-48.3	-70.4	-53.6	-56.9	-44.0
403217	Rose River @ Matong North	-68.0	-36.96	-74.6	<b>-96.7</b>	-83.1	-60.9	-37.4	-6.4
403221	Reedy Creek @ Woolshed	-81.3	-85.07	-93.7	19.2	-3.9	-48.8	-79.8	-70.5
403222	Buffalo River @ Abbeyard	-47.8	-11.46	17.6	<b>-96.1</b>	-90.2	-94.9	-44.5	8.5
403224	Hurdle Creek @ Bobinawarra	-5.2	-80.63	52.9	-17.7	6.9	-15.6	-50.6	-46.8
403226	Boggy Creek @ Angleside	-39.0	-92.79	-48.0	90.1	13.4	-16.5	-82.9	-64.9
403227	King River @ Cheshunt	-27.6	-75.32	68.7	-44.7	3.5	-63.9	1.1	-22.0
403232	Morses Creek @ Wandiligong	-44.4	-89.49	1.0	43.1	8.9	-37.6	-84.2	-80.3

(continued)

Table B1 | continued

Station no.	Station name	Flood magnitude					Flood frequency		
		Ann. max.	Monthly max.	POT1 mag.	POT2 mag.	POT3 mag.	POT1 freq.	POT2 freq.	POT3 freq.
403233	Buckland River @ Harris Lane	1.0	-6.16	-68.1	-30.5	16.4	-6.7	-40.4	-62.7
404206	Broken River @ Moorngag	-80.5	-81.21	44.5	<b>98.7</b>	<b>98.1</b>	-3.4	-58.5	-89.2
404207	Holland Creek @ Kelfeera	-71.1	<b>-97.21</b>	-40.9	-43.1	-85.4	-83.5	-90.2	-68.7
404208	Moonee Creek @ Lima	<b>-97.8</b>	<b>-99.77</b>	7.3	13.0	-9.7	-91.4	-33.5	-36.0
405205	Murrindindi River @ Murrindindi	-93.5	-85.19	38.3	-2.6	43.9	-91.6	-85.2	<b>-95.8</b>
405209	Acheron River @ Taggerty	35.3	-23.24	77.2	72.3	20.7	2.2	-78.2	-83.3
405212	Sunday Creek @ Tallarook	-90.8	-91.50	-81.0	-24.9	-27.5	-38.3	-86.3	-72.8
405214	Delatite River @ Tonga Bridge	-27.6	-80.98	<b>95.2</b>	89.5	-35.4	-29.1	-90.1	-65.6
405215	Howqua River @ Glen Esk	-59.0	-47.56	5.2	-78.2	<b>-99.1</b>	-87.8	-79.6	-51.7
405217	Yea River @ Devlins Bridge	-85.3	-84.44	14.6	25.6	-68.2	-83.1	-84.7	-73.5
405218	Jamieson River @ Gerrang Bridge	16.6	19.37	20.7	-37.6	<b>-97.2</b>	-51.3	-43.5	65.8
405219	Goulburn River @ Dohertys	3.1	-10.13	69.9	62.2	-62.6	-43.6	-81.4	-74.4
405226	Pranjip Creek @ Moorilim	-88.3	<b>-98.89</b>	-64.1	-83.3	<b>-95.1</b>	<b>-98.0</b>	-94.8	-63.4
405227	Big River @ Jamieson	-46.1	-46.52	77.7	36.3	-41.1	-73.3	-91.8	-82.2
405228	Hughes Creek @ Tarcombe Road	-80.0	<b>-99.20</b>	-30.6	-18.1	-6.9	-85.1	-89.5	-92.7
405231	King Parrot @ Flowerdale	-68.6	-70.68	73.0	-32.2	-77.3	-80.0	-83.7	-11.5
405237	Seven Creeks D/S Euroa	-77.6	-93.53	-6.3	-16.3	-61.4	-92.9	-92.8	-85.7
405238	Mollison Creek @ Pyalong	-94.8	<b>-97.45</b>	-35.4	-35.3	55.4	-82.4	-56.5	<b>-95.5</b>
405240	Sugarloaf Creek @ Ash Bridge	<b>-96.2</b>	<b>-98.60</b>	-80.1	-39.9	-35.7	-82.7	-83.0	-92.0
405241	Rubicon River @ Rubicon	-61.2	-52.93	<b>98.0</b>	30.5	-92.0	-92.5	<b>-98.1</b>	-91.5
405245	Ford Creek @ Mansfield	1.0	-83.37	81.9	20.3	23.2	-34.2	-53.0	-64.0
405251	Brankeet Creek @ Ancona	-71.7	<b>-95.37</b>	88.7	-17.4	-29.6	-71.4	-81.4	-66.1
405263	Goulburn River @ U/S of Snake Creek Junction	-33.4	-32.23	<b>100.0</b>	41.8	-66.5	-92.8	-92.7	-85.6
405264	Big River @ D/S of Frenchman Creek Junction	-7.3	-0.69	94.4	29.5	-73.8	-64.4	-83.0	-61.0
406213	Campaspe River @ Redesdale	-94.9	<b>-99.06</b>	40.9	1.9	19.9	-87.1	-80.5	-91.2
406214	Axe Creek @ Longlea	-93.1	<b>-99.69</b>	34.4	-26.3	40.7	-87.0	-82.3	-92.4
406215	Coliban River @ Lyal	-87.4	<b>-99.52</b>	-28.7	9.3	82.6	-74.4	-86.0	<b>-95.6</b>
407213	Mccallums Creek @ Carisbrook	<b>-99.5</b>	<b>-99.94</b>	-56.9	-14.4	55.1	-80.2	<b>-99.1</b>	<b>-99.8</b>
407214	Creswick Creek @ Clunes	<b>-98.7<sup>3</sup></b>	<b>-99.38</b>	88.1 <sup>3</sup>	29.5 <sup>3</sup>	-30.7 <sup>3</sup>	<b>-98.3</b>	<b>-99.6</b>	<b>-99.8</b>
407217	Loddon River @ Vaughan	-84.6	<b>-98.90</b>	82.7	13.7	-39.9	-94.8	<b>-96.1</b>	<b>-98.1</b>
407220	Bet Bet Creek @ Norwood	<b>-99.9</b>	<b>-99.78</b>	-93.2	-14.4	-4.3	-86.9	<b>-99.2</b>	<b>-99.2</b>
407221	Jim Crow Creek @ Yandoit	-90.1	<b>-96.11</b>	26.7	79.6	22.9	-88.8	<b>-97.2</b>	<b>-99.3</b>
407222	Tullaroop Creek @ Clunes	-93.7 <sup>3</sup>	<b>-99.59</b>	-9.4 <sup>3</sup>	54.5 <sup>3</sup>	33.0 <sup>3</sup>	-90.3	<b>-99.3</b>	<b>-99.9</b>
407227	Birch Creek @ Smeaton	<b>-99.9</b>	<b>-99.62</b>	-36.3	-19.5	<b>-95.8</b>	<b>-99.4</b>	<b>-99.8</b>	<b>-98.9</b>
407230	Joyces Creek @ Strathlea	-93.1	<b>-99.54</b>	-33.5	80.7	-3.5	-86.9	<b>-99.1</b>	<b>-99.3</b>
408202	Avoca River @ Amphitheatre	<b>-99.1</b>	<b>-99.92</b>	<b>-96.2</b>	-90.5	-59.5	-91.5	-94.1	<b>-95.6</b>

(continued)

Table B1 | continued

Station no.	Station name	Flood magnitude				Flood frequency			
		Ann. max.	Monthly max.	POT1 mag.	POT2 mag.	POT3 mag.	POT1 freq.	POT2 freq.	POT3 freq.
415207	Wimmera River @ Eversley	- 87.4	- <b>99.07</b>	55.4	- 63.5	- 30.7	- 89.2	- 86.2	- <b>96.3</b>
415217	Fyans Creek @ Grampians Road	- 82.2	-71.70	59.1	- 50.4	- 33.3	- 86.2	- <b>95.6</b>	- <b>98.1</b>

Trends are estimated using the MK test. Absolute values of  $Tl$  exceeding 95% are shown in bold and italic font. These values correspond to trends significance at the 5% level.

<sup>1</sup>Bootstrapping in 4-year blocks.

<sup>2</sup>Bootstrapping in 3-year blocks.

<sup>3</sup>Bootstrapping in 2-year blocks.

<sup>4</sup>Bootstrapping in 6-year blocks.

<sup>5</sup>Bootstrapping in 5-year blocks.