

Year (Financial)	Event #	Rainfall Volume (mm)	Estimated Rainfall Return Period (yrs)	Duration of rain event (hrs)	Site	River	Start Date	Start Time	End Date	End Time	Duration (hh:mm)	Maximum Rate (l/s)	Volume (m3)	Annual Volume (m3)	Comments
	4	55.4	Just over a 2 year event	18.5 and then intermittently after.	Beckford Road	Heathcote	12/06/2006	06:50:00	12/06/2006	22:50:00	16:00	23.5	746		
Fendalton Road Bridge Nth					Avon	12/06/2006	06:35:00	12/06/2006	20:45:00	14:10	199.5	9,153			
Fendalton Road Bridge Sth					Avon	12/06/2006	07:25:00	12/06/2006	11:55:00	04:30	16.7	145			
Fisher Avenue					Heathcote	12/06/2006	05:00:00	13/06/2006	23:30:00	42.3	363.6	55,172			
Grassmere Street					Avon	12/06/2006								Monitor not operational during this event	
River Road					Avon	12/06/2006	06:55:00	13/06/2006	01:10:00	18:15	475.2	28,673			
Slater Street					Avon	12/06/2006	07:10:00	12/06/2006	13:10:00	06:00	133.2	1,457			
Slater Street					Avon	12/06/2006	14:00:00	12/06/2006	18:50:00	04:50	43.5	371			
Tennyson Street					Heathcote	12/06/2006	05:45:00	13/06/2006	00:30:00	18:45	49	2,323			
Waltham Road					Heathcote	12/06/2006	05:15:00	13/06/2006	01:15:00	20:00	106.7	7,532			
Waltham Road					Heathcote	13/06/2006	02:10:00	13/06/2006	05:55:00	03:45	48.7	408			
Waltham Road					Heathcote	13/06/2006	07:30:00	13/06/2006	15:15:00	07:45	112.1	958			
Waltham Road					Heathcote	13/06/2006	17:50:00	13/06/2006	20:40:00	02:50	11	62			
					5	21.6	unknown but probably less than a 2 year event	22 - 25 June 06	Fisher Avenue	Heathcote	22/06/2006	11:05:00	22/06/2006	12:00:00	00:55
Fisher Avenue	Heathcote	22/06/2006	17:50:00	22/06/2006					21:20:00	03:30	378	4,256			
Fisher Avenue	Heathcote	23/06/2006	05:25:00	23/06/2006					22:40:00	17:15	378	22,819			
Tennyson Street	Heathcote	23/06/2006	06:20:00	23/06/2006					13:30:00	07:10	27.6	520			
Waltham Road	Heathcote	23/06/2006	06:10:00	23/06/2006					15:55:00	09:45	114	3,444			
Fisher Avenue	Heathcote	24/06/2006	11:40:00	24/06/2006					14:50:00	03:10	378	3,954			
Fisher Avenue	Heathcote	25/06/2006	12:25:00	25/06/2006					13:20:00	00:55	85.9	158	325,623		
2006/2007															
	1	148 Report same as below	Over a 5 year return period, report same as below		Beckford Road	Heathcote	07/08/2006	13:35:00	9/08/2006	4:40:00	39:05:00	57.5	1,698		
Fendalton Road Bridge Sth					Avon	07/08/2006							(Monitor) Not operational during this period		
PS 22					Heathcote	07/08/2006	12:15:00	8/08/2006	8:05:00	19:50	47.7	276		Site was flooded before O/F event finished.	
Sandwich Road					Heathcote	07/08/2006							(Monitor) Not operational during this period		
St Andrews Square					Avon	07/08/2006							(Monitor) Not operational during this period		
Tennyson Street					Heathcote	07/08/2006	13:20:00	9/08/2006	13:55:00	48:35:00	76.2	2,350			
Waltham Road					Heathcote	07/08/2006	08:20:00	7/08/2006	11:35:00	3:15	19.7	101			
Waltham Road					Heathcote	07/08/2006	12:00:00	9/08/2006	22:15:00	58:15:00	114	3,242			
Fendalton Road Bridge Nth					Avon	08/08/2006	05:15:00	9/08/2006	3:30:00	22:15	202	6,342			
Grassmere Street					Avon	08/08/2006	04:50:00	9/08/2006	3:30:00	22:40	266	6,979			
River Road					Avon	08/08/2006	02:35:00	9/08/2006	15:55:00	37:20:00	217	11,891			
Slater Street					Avon	08/08/2006	03:40:00	8/08/2006	22:10:00	18:30	134	2,229			
Beckford Road					Heathcote	09/08/2006	06:40:00	9/08/2006	11:20:00	4:40	7.94	63			
Fendalton Road Bridge Nth					Avon	09/08/2006	08:40:00	9/08/2006	14:55:00	6:15	86.9	1,217			
Grassmere Street	Avon	09/08/2006	07:55:00	9/08/2006	11:10:00	3:15	14.2	91							
	2	148	Over a 5 year return period		Beckford Road	Heathcote	14/08/2006	07:45:00	14/08/2006	15:15:00	7:30	32.2	375		
Fendalton Road Bridge Nth					Avon	14/08/2006	09:50:00	14/08/2006	15:45:00	5:55	102	1,334			
River Road					Avon	14/08/2006	09:50:00	14/08/2006	16:30:00	6:40	72.7	697			
Tennyson Street					Heathcote	14/08/2006	08:00:00	14/08/2006	17:00:00	9:00	13.6	227			
Waltham Road					Heathcote	14/08/2006	07:55:00	14/08/2006	23:05:00	15:10	66.4	1,732			
	3	34	less than once in 2 years	16	Beckford Road	Heathcote	21/08/2006	23:55:00	22/08/2006	2:05:00	2:10	5.9	26		
Fendalton Road Bridge Sth					Avon	21/08/2006							Site not operational during event		
PS 22					Heathcote	21/08/2006							Site not operational during event		

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					Sandwich Road	Heathcote	21/08/2006								Site not operational during event
					St Andrews Square	Avon	21/08/2006								Site not operational during event
					Tennyson Street	Heathcote	21/08/2006	22:50:00	22/08/2006	6:00:00	7:10	8.8	101		
					Waltham Road	Heathcote	21/08/2006	21:55:00	22/08/2006	12:00:00	14:05	66.4	1,680		
					Beckford Road	Heathcote	22/08/2006	03:55:00	22/08/2006	4:30:00	0:35	0.5	1		
	4	58.8	was greater than a 2 year event but did not reach a once in 5 year event.	23	Fendalton Road Bridge Nth	Avon	04/10/2006	03:45:00	4/10/2006	11:55:00	8:10	160.3	2,536		
					Fisher Avenue	Heathcote	04/10/2006	04:05:00	4/10/2006	9:10:00	5:05	26.6	130		
					PS 22	Heathcote	04/10/2006	03:30:00	4/10/2006	10:20:00	6:50	41.7	13		
					Tennyson Street	Heathcote	04/10/2006	02:55:00	4/10/2006	11:50:00	8:55	20.5	196		
					Waltham Road	Heathcote	04/10/2006	02:25:00	4/10/2006	20:05:00	17:40	98.1	494		
	5	73.6	reached a once in 5 year event	26	Beckford Road	Heathcote	20/12/2006	19:24:00	21/12/2006	2:39:00	7:15	16.4	224		
					Fendalton Road Bridge Nth	Avon	20/12/2006	16:35:00	21/12/2006	0:05:00	7:30	198.4	1,914		
					Fendalton Road Bridge Sth	Avon	20/12/2006	18:15:00	20/12/2006	21:30:00	3:15	53.4	313		
					Fisher Avenue	Heathcote	20/12/2006	18:00:00	20/12/2006	22:30:00	4:30	15.3	70		
					River Road	Avon	20/12/2006	17:45:00	21/12/2006	1:40:00	7:55	148.7	2,138		
					Tennyson Street	Heathcote	20/12/2006	17:00:00	21/12/2006	2:15:00	9:15	19.9	322		
					Waltham Road	Heathcote	20/12/2006	17:00:00	21/12/2006	14:20:00	21:20	89.3	2,483		
	6	17.2	Well below a once in 2 year event	12 hours	Beckford Road	Heathcote	23/12/2006	09:15:00	23/12/2006	13:09:00	3:54	7.8	63		
	7	47.2	did not reach a once in 2 year rainfall	26	Beckford Road	Heathcote	29/06/2007	22:09:00	30/06/2007	23:44:00	25:35	5.5	25		
					Fendalton Road Bridge Nth	Avon	29/06/2007	22:11:00	30/06/2007	01:03:00	2:52	79.2	510		
					River Road	Avon	29/06/2007	22:45:00	30/06/2007	01:15:00	2:30	27.5	150	54,231	
2007/2008															
	1	40.2	Just reached and was equal to a once in 2 year rainfall	9.45	Beckford Road	Heathcote	30/07/2007	02:35:00	30/07/2007	12:35:00	10:00	16.9	285		
					Fendalton Road Bridge Nth	Avon	30/07/2007	02:55:00	30/07/2007	13:15:00	10:20	206	3278		
					Fendalton Road Bridge Sth	Avon	30/07/2007	03:30:00	30/07/2007	05:00:00	1:30	18.1	55		
					Grassmere Street	Avon	30/07/2007	03:25:00	30/07/2007	11:55:00	8:30	92.8	1078		
					River Road	Avon	30/07/2007	03:05:00	30/07/2007	16:35:00	13:30	144	2971		
					Slater Street	Avon	30/07/2007	02:35:00	30/07/2007	10:35:00	8:00	136	482		The manhole surcharged to >1.9m (lid level) thus exceeding the overflow weir rating. Once the stream level exceeded the overflow outlet level no further flow passed out of the overflow manhole so I have had to assume no overflow rate until the stream leve
	2	80.6	Beyond 2 year event not quite reaching 5 year event.	4am 15th Feb to 6 pm 16th Feb with a break of 2.5 hours and 6 hours in between	Fendalton Rd	Avon	15/02/2008	8:25	15.2.08	13:50	5:25	202	2057		Weir rating exceeded for 385min
					Fendalton Rd	Avon	16/02/2008	11:50	16/02/2008	16:25	4:35	154.1	1511		Weir rating exceeded for 340min
					Fendalton South	Avon	15/02/2008	9:15	15/02/2008	10:35	1:2	18.5	46		
					PS22	Heathcote	16/02/2008	17:00	16/02/2008	17:10	0:10	12.5	1		
					River Road	Avon	15/02/2008	10:15	15/02/2008	14:10	3:55	46.6	227		
					River Road	Avon	15/02/2008	12:35	16/02/2008	19:45	7:5	135	1,526		
					Slater Street	Avon	16/02/2008	16:15	16/02/2008	16:15	3:25	130	982		Weir rating exceeded for 95min
					Tennyson Street	Heathcote	16/02/2008	10:35	16/02/2008	10:45	0:10	1.8	7		
					Tennyson Street	Heathcote	16/02/2008	11:25	16/02/2008	11:45	0:20	1.3	7		
					Tennyson Street	Heathcote	16/02/2008	12:20	16/02/2008	14:35	2:15	6.4	20		

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					Waltham Road	Heathcote	16/02/2008	10:35	16/02/2008	10:45	0:10	27.1	10		
					Waltham Road	Heathcote	16/02/2008	13:30	16/02/2008	14:10	0:40	4.3	5		
	3	75.6	Just over a once in 2 year event	21	Beckford Road	Heathcote	3/05/2008	6:35	3/05/2008	23:35	17:00	57.5	1,704		Weir rating exceeded for 170min
					Fendalton North	Avon	3/05/2008	14:15	3/05/2008	15:20	1:05	22.8	57		
					Fisher Avenue	Heathcote	3/05/2008	14:30	3/05/2008	16:30	2:00	0.1	0		
					River Road	Heathcote	3/05/2008	14:10	3/05/2008	18:10	4:00	85	538		
					Tennyson Street	Heathcote	3/05/2008	13:50	3/05/2008	16:50	3:00	9.2	58		
	4	60	Just over a once in 2 year event	21.5	Beckford Road	Heathcote	28/06/2008	16:50	29/06/2008	20:35	27:45	58.3	4,126		
					Fendalton North	Avon	28/06/2008	22:15	29/06/2008	5:35	7:20	162	2,552		
					Fendalton South	Avon	29/06/2008	0:05	29/06/2008	16:24	1:05	1.3	3		
					Fisher Avenue	Heathcote	28/06/2008	21:45	29/06/2008	8:25	10:50	65.6	1,637		
					Fisher Avenue	Heathcote	29/06/2008	10:10	29/06/2008	12:40	2:30	0.1	0		
					River Road	Avon	28/06/2008	21:20	29/06/2008	6:50	9:30	315	5,283		
					River Road	Avon	29/06/2008	12:30	29/06/2008	15:25	2:55	26.1	100		
					Tennyson Street	Heathcote	28/06/2008	21:20	29/06/2008	8:20	11:00	74.3	1,520		
					Tennyson Street	Heathcote	29/06/2008	10:05	29/06/2008	13:45	3:40	3.9	27		
					Waltham Road	Heathcote	28/06/2008	21:35	29/06/2008	8:20	10:45	123	1,766	33,919	
2008/2009															
	1	55.6	Between 2 and 5 year event.	13	Beckford Road	Heathcote	5/07/2008	17:25	6/07/2008	19:25	26	58.8	4,087		
					Fendalton North	Avon	5/07/2008	19:40	6/07/2008	2:50	7:10	141	2,132		
					Fisher Avenue	Heathcote	5/07/2008	18:15	6/07/2008	3:35	9:20	47.2	190		
					River Road	Avon	5/07/2008	18:50	6/07/2008	7:05	12:15	357	8,117		
					River Road	Avon	6/07/2008	12:35	6/07/2008	15:30	2:55	27.2	134		
					Slater Street	Avon	6/07/2008	0:15	6/07/2008	2:10	1:55	79.3	228		
					Tennyson Street	Heathcote	5/07/2008	17:55	6/07/2008	4:25	10:30	17.2	323		
					Waltham Road	Heathcote	5/07/2008	17:55	6/07/2008	3:25	9:30	23.5	331		
	2	48.2	Did not reach a 2 year event	23rd -26th 3 Days	Beckford Road	Heathcote	24/07/2008	6:05	24/07/2008	23:40	17:35	57.8	2,844		
					Beckford Road	Heathcote	26/07/2008	11:10	24/07/2008	13:30	2:20	10.9	43		
					Fendalton North	Avon	24/07/2008	9:30	24/07/2008	17:35	8:05	135	2,672		
					Fisher Avenue	Heathcote	24/07/2008	7:40	24/07/2008	16:45	9:05	0.5	4		
					River Road	Avon	24/07/2008	9:45	24/07/2008	18:30	8:45	106	1,337		
					Tennyson Street	Heathcote	24/07/2008	7:35	24/07/2008	17:50	10:15	9.9	185		
					Waltham Road	Heathcote	24/07/2008	7:35	24/07/2008	15:05	7:30	32	112		
	3	65.4 from Bowenvale, however Tyrone weather station recorded 80.2, there were severe weather warnings and flooding.	Below a 2 year rainfall event at Bowenvale. At Tyrone the event was well over a 2 year event.	3 days	Beckford Road	Heathcote	31/07/2008	1:40	2/08/2008	1:10	47:30	58.8	8,485		
					Beckford Road	Heathcote	2/08/2008	10:05	2/08/2008	13:55	3:50	39.1	335		
					Beckford Road	Heathcote	2/08/2008	10:35	3/08/2008	0:05	13:30	58.4	1,843		
					Fendalton North	Avon	31/07/2008	10:20	1/08/2008	3:25	17:05	207	13,876		
					Fendalton North	Avon	1/08/2008	8:15	1/08/2008	22:40	14:25	123	4,370		
					Fendalton South	Avon	1/08/2008	3:50	1/08/2008	12:55	9:05	195	1,788		
					Fisher Avenue	Heathcote	31/07/2008	2:45	1/08/2008	3:45	25:00	30.1	311		
					Grassmere Street	Avon	31/07/2008	3:15	31/07/2008	18:45	15:30	270	2,870		
					Grassmere Street	Avon	31/07/2008	19:55	31/07/2008	23:55	4:00	35.1	195		
					River Road	Avon	31/07/2008	2:30	2/08/2008	5:45	51:15	379	42,332		
					River Road	Avon	2/08/2008	11:10	2/08/2008	19:10	8:00	115	1,159		
					Slater Street	Avon	31/07/2008	3:40	31/07/2008	14:55	11:15	135	627		
					Slater Street	Avon	31/07/2008	20:40	31/07/2008	22:45	2:05	11.5	56		
					St Andrews	Avon	31/07/2008	3:35	31/07/2008	16:10	12:35	57.1	1,466		
					St Andrews	Avon	31/07/2008	20:30	31/07/2008	23:20	2:50	7.6	41		
					Tennyson Street	Heathcote	31/07/2008	2:05	31/07/2008	9:25	7:20	18.6	666		
					Waltham Road	Heathcote	31/07/2008	2:20	1/08/2008	7:25	29:05	41.8	689		
	4	33.4	well below a 2 year return	29 hours	River Road	Avon	9/08/2008	11:20	9/08/2008	23:25	12:05	130	3,055		
					Tennyson Street	Heathcote	9/08/2008	12:55	9/08/2008	14:15	1:20	0.5	1		
	5	27	well below a	14.25 hours	Beckford Road	Heathcote	19/08/2008	8:25	19/08/2008	16:05	7:40	58	1117		

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			2 year return period		Beckford Road	Heathcote	20/08/2008	9:50	20/08/2008	10:20	0:30	19.6	18		
					Beckford Road	Heathcote	22/08/2008	9:35	22/08/2008	9:50	0:15	7.8	5		
	6	19.2	well below a 2 year return	18 hours	River Road	Avon	25/08/2008	7:55	26/08/2008	3:05	19:10	179	5,856		
					Fendalton North	Avon	25/08/2008	10:15	25/08/2008	13:10	2:55	24.4	170		
	7	6	well below a 2 year return period	2 hours	Mt Pleasant Yacht Club Main Rd	Estuary	3/01/2009	16:30	3/01/2009	18:30	2	50	360		As calculated by Mike, tide may have had an effect.
	8	23	Once in 20 year flash flood	1 hour	Beckford Road	Heathcote	18/01/2009	16:55	18/01/2009	18:15	1:20	58.3	167		
					Fisher Avenue	Heathcote	18/01/2009	17:15	18/01/2009	19:10	1:55	12.5	87		
					Tennyson Street	Heathcote	18/01/2009	17:00	18/01/2009	19:15	2:15	27.8	98		
					Waltham Road	Heathcote	18/01/2009	17:30	18/01/2009	18:15	0:45	74.1	96		
	9	49.4	well below a 2 year return period	24 hours	Beckford Road	Heathcote	10/05/2009	18:35	11/05/2009	8:05	13:30	6.4	58		
					Tennyson Street	Heathcote	11/05/2009	19:00	11/05/2009	19:05	0:05	1.2	0		
					Waltham Road	Heathcote	11/05/2009	19:00	11/05/2009	19:05	0:05	20.3	6		
	10	118.4	below a 2 year return period	94 hours	Beckford Road	Heathcote	20/05/2009	1:10	23/05/2009	23:30	94:20	37.4	2,226		
2009/2010	1														