

Table 2 Arthurs Pass design rainfall table (1955-2009) (rainfall depths in mm)

	Duration							
ARI	10-min	20-min	30-min	1-hr	2-hrs	6-hrs	12-hrs	24-hrs
2.33	7.1	12.2	16.9	28.3	49.0	106.7	160.8	225.9
5	9.7	15.5	20.6	33.5	57.5	125.2	189.2	265.7
10	12.1	18.4	23.5	37.4	63.8	139.1	211.5	296.6
20	14.4	21.2	26.2	41.0	69.2	151.6	232.1	324.9
50	17.5	24.8	29.7	45.4	75.6	166.6	257.7	359.9
100	19.9	27.4	32.2	48.6	80.0	177.1	276.3	385.2

Table 3 Cheeseman design rainfall table (1990-2009) (rainfall depths in mm)

	Duration							
ARI	10-min	20-min	30-min	1-hr	2-hrs	6-hrs	12-hrs	24-hrs
2.33	4.2	7.1	9.5	14.3	22.2	43.6	62.7	79.3
5	5.5	9.1	11.9	16.9	25.9	51.7	75.0	94.9
10	6.8	11.1	14.2	19.1	28.9	58.2	84.7	107.6
20	8.5	13.3	16.8	21.3	31.8	64.6	93.9	119.8
50	11.1	16.8	20.6	24.2	35.5	72.8	105.7	135.5
100	13.6	19.9	24.0	26.5	38.2	79.0	114.4	147.3

Table 4 Christchurch Aero design rainfall table (1955-2009) (rainfall depths in mm)

	Duration							
ARI	10-min	20-min	30-min	1-hr	2-hrs	6-hrs	12-hrs	24-hrs
2.33	4.4	6.9	8.5	12.0	16.3	27.8	39.2	51.8
5	6.2	9.7	11.7	15.9	22.1	36.1	51.0	66.9
10	7.7	11.9	14.2	19.0	27.2	44.1	61.5	79.3
20	9.1	14.1	16.7	22.0	32.3	53.1	72.5	91.1
50	10.9	16.9	19.9	25.9	38.8	66.8	89.0	106.3
100	12.3	19.0	22.2	28.8	43.8	78.9	101.0	117.8

Table 5 13 Mile Bush design rainfall table (1988-2009) (rainfall depths in mm)

	Duration							
ARI	10-min	20-min	30-min	1-hr	2-hrs	6-hrs	12-hrs	24-hrs
2.33	5.6	8.9	10.9	14.4	21.2	35.4	47.5	64.0
5	8.2	12.8	15.3	19.3	25.8	42.8	60.7	86.4
10	10.6	16.4	19.3	23.9	29.5	48.8	72.1	106.2
20	13.0	19.9	23.3	28.4	33.1	54.4	83.2	125.7
50	16.2	24.5	28.5	34.5	37.7	61.5	97.7	151.2
100	18.6	28	32.5	39.0	41.2	66.7	108.4	170.4

Table 6 Ridgens Road design rainfall table (1990-2009) without the 15/11/09 storm event
(rainfall depths in mm)

	Duration							
ARI	10-min	20-min	30-min	1-hr	2-hrs	6-hrs	12-hrs	24-hrs
2.33	3.8	5.3	7.3	9.9	14.6	25.6	38.4	50.7
5	5.6	7.8	10.5	13.1	18.0	30.5	45.1	62.7
10	7.4	10.2	13.4	15.9	20.9	34.5	49.9	72.2
20	9.2	12.6	16.2	18.6	23.6	38.3	53.9	81.1
50	11.7	15.7	19.9	22.2	27.1	43.1	58.5	92.5
100	13.6	18.1	22.7	24.8	29.8	46.6	61.5	100.8

Table 7 Whitecliffs design rainfall table (1988-2009) (rainfall depths in mm)

	Duration							
ARI	10-min	20-min	30-min	1-hr	2-hrs	6-hrs	12-hrs	24-hrs
2.33	4.9	6.4	8.1	12.2	19.2	34.8	46.2	55.9
5	6.5	8.8	11.3	15.9	23.9	40.2	56.5	75.4
10	8.0	11.1	14.2	19.2	27.6	43.7	64.9	94.4
20	9.6	13.3	17.1	22.5	31.1	46.5	72.9	114.2
50	11.8	16.2	21.0	26.8	35.3	49.8	83.4	141.1
100	13.3	18.4	23.9	30.0	38.3	51.9	91.2	161.8