

Table 1.25 Future Climate IDF Curves for St. Albans (8403290) – 2011-2040 Time Horizon

Minimum Projected Precipitation Amount (mm)							
Duration	Return Interval (years)						
	2	5	10	20	25	50	100
5-min	4.7	5.7	6.4	7.1	7.3	8.0	8.7
10-min	7.1	8.5	9.5	10.4	10.7	11.6	12.5
15-min	8.8	10.7	11.9	13.1	13.5	14.6	15.8
30-min	12.7	14.7	16.0	17.3	17.7	18.9	20.1
1-hr	17.6	20.4	22.2	24.0	24.6	26.3	28.0
2-hr	26.7	29.6	31.6	33.4	34.0	35.8	37.7
6-hr	47.5	52.1	55.1	58.0	58.9	61.8	64.6
12-hr	64.2	74.4	81.2	87.7	89.7	96.1	102.4
24-hr	81.3	101.0	114.0	126.5	130.5	142.8	154.9
Median Projected Precipitation Amount (mm)							
Duration	Return Interval (years)						
	2	5	10	20	25	50	100
5-min	5.2	6.6	7.6	8.6	8.8	9.8	10.7
10-min	7.8	9.7	11.0	12.3	12.7	13.9	15.1
15-min	9.7	12.2	13.9	15.6	16.1	17.7	19.2
30-min	13.6	16.3	18.1	19.9	20.5	22.1	23.8
1-hr	18.9	22.6	25.2	27.7	28.5	30.8	33.2
2-hr	28.1	32.0	34.7	37.4	38.1	40.6	43.1
6-hr	49.4	55.4	59.6	63.7	64.9	68.8	72.6
12-hr	68.5	82.1	91.5	100.8	103.6	112.3	120.9
24-hr	89.6	116.0	134.2	152.2	157.6	174.4	191.1
Maximum Projected Precipitation Amount (mm)							
Duration	Return Interval (years)						
	2	5	10	20	25	50	100
5-min	5.6	7.9	9.5	11.0	11.5	12.9	14.4
10-min	8.3	11.5	13.6	15.6	16.2	18.2	20.1
15-min	10.4	14.5	17.2	19.8	20.6	23.2	25.7
30-min	14.4	18.8	21.7	24.4	25.3	28.0	30.7
1-hr	20.0	26.1	30.2	34.1	35.3	39.1	42.9
2-hr	29.2	35.6	39.9	44.0	45.3	49.3	53.3
6-hr	50.9	60.6	67.0	73.1	75.1	81.1	87.1
12-hr	71.8	93.9	108.5	122.5	126.9	140.6	154.2
24-hr	96.0	138.8	167.2	194.4	203.0	229.6	256.0

Table 1.26 Future Climate IDF Curves for St. Albans (8403290) – 2041-2070 Time Horizon

Minimum Projected Precipitation Amount (mm)							
Duration	Return Interval (years)						
	2	5	10	20	25	50	100
5-min	4.8	6.4	7.2	8.0	8.2	8.9	9.6
10-min	7.3	9.4	10.5	11.6	11.9	12.8	13.7
15-min	9.2	11.8	13.3	14.7	15.0	16.2	17.4
30-min	13.0	15.9	17.4	18.9	19.3	20.6	21.9
1-hr	18.1	22.0	24.2	26.3	26.9	28.7	30.4
2-hr	27.2	31.4	33.7	35.9	36.5	38.3	40.2
6-hr	48.2	54.5	58.1	61.6	62.7	65.9	68.9
12-hr	65.7	80.1	88.2	96.0	98.4	105.7	112.5
24-hr	84.2	112.1	127.7	142.8	147.5	161.6	174.8
Median Projected Precipitation Amount (mm)							
Duration	Return Interval (years)						
	2	5	10	20	25	50	100
5-min	5.7	7.3	8.3	9.2	9.6	10.5	11.5
10-min	8.5	10.6	11.9	13.2	13.7	15.0	16.3
15-min	10.7	13.4	15.1	16.8	17.3	19.1	20.7
30-min	14.7	17.5	19.4	21.2	21.8	23.6	25.4
1-hr	20.3	24.4	27.0	29.5	30.3	32.9	35.4
2-hr	29.6	33.9	36.6	39.2	40.1	42.8	45.4
6-hr	51.4	58.1	62.4	66.5	67.9	72.1	76.3
12-hr	73.0	88.3	98.0	107.4	110.4	120.0	129.7
24-hr	98.3	128.0	146.9	165.0	170.9	189.5	208.3
Maximum Projected Precipitation Amount (mm)							
Duration	Return Interval (years)						
	2	5	10	20	25	50	100
5-min	6.7	9.5	11.3	13.0	13.6	15.3	17.0
10-min	9.8	13.5	16.0	18.3	19.0	21.3	23.6
15-min	12.4	17.2	20.3	23.3	24.3	27.2	30.2
30-min	16.5	21.6	25.0	28.2	29.2	32.4	35.5
1-hr	22.9	30.1	34.8	39.3	40.8	45.2	49.6
2-hr	32.3	39.8	44.8	49.5	51.0	55.7	60.3
6-hr	55.1	66.6	74.2	81.6	83.9	91.0	98.1
12-hr	81.4	107.7	125.1	141.8	147.1	163.4	179.6
24-hr	114.6	165.7	199.5	231.9	242.2	274.0	305.4

Table 1.27 Future Climate IDF Curves for St. Albans (8403290) – 2071-2100 Time Horizon

Minimum Projected Precipitation Amount (mm)							
Duration	Return Interval (years)						
	2	5	10	20	25	50	100
5-min	5.1	6.7	7.7	8.6	9.0	9.9	10.9
10-min	7.7	9.8	11.1	12.4	12.8	14.1	15.4
15-min	9.7	12.3	14.1	15.8	16.3	17.9	19.6
30-min	13.6	16.4	18.3	20.1	20.7	22.4	24.2
1-hr	18.8	22.8	25.4	28.0	28.8	31.2	33.7
2-hr	28.0	32.2	34.9	37.6	38.4	41.0	43.6
6-hr	49.2	55.6	59.9	64.0	65.2	69.2	73.2
12-hr	68.1	82.6	92.2	101.4	104.3	113.3	122.3
24-hr	88.9	117.0	135.6	153.4	159.1	176.5	193.8
Median Projected Precipitation Amount (mm)							
Duration	Return Interval (years)						
	2	5	10	20	25	50	100
5-min	5.8	7.4	8.5	9.4	9.7	10.6	11.6
10-min	8.7	10.8	12.3	13.5	13.9	15.1	16.4
15-min	10.9	13.6	15.5	17.1	17.6	19.2	20.9
30-min	14.9	17.8	19.9	21.6	22.1	23.8	25.6
1-hr	20.7	24.8	27.6	30.0	30.8	33.1	35.7
2-hr	30.0	34.2	37.3	39.8	40.6	43.0	45.7
6-hr	51.9	58.7	63.4	67.7	69.1	73.1	77.0
12-hr	74.1	89.5	100.4	110.1	113.2	122.4	131.3
24-hr	100.5	130.4	151.5	170.4	176.4	194.2	211.5
Maximum Projected Precipitation Amount (mm)							
Duration	Return Interval (years)						
	2	5	10	20	25	50	100
5-min	6.8	9.7	11.6	13.4	14.0	15.8	17.5
10-min	10.0	13.9	16.4	18.8	19.6	22.0	24.4
15-min	12.6	17.6	20.9	24.0	25.0	28.1	31.2
30-min	16.7	22.1	25.6	28.9	30.0	33.3	36.6
1-hr	23.3	30.7	35.6	40.4	41.9	46.5	51.1
2-hr	32.7	40.5	45.7	50.6	52.2	57.1	61.9
6-hr	55.5	67.6	75.5	83.2	85.6	93.1	100.5
12-hr	82.4	109.9	128.1	145.5	151.0	168.1	185.0
24-hr	116.6	170.0	205.3	239.2	249.9	283.0	315.9