

Table 1.28 Future Climate IDF Curves for St. Anthony (8403401) – 2011-2040 Time Horizon

Minimum Projected Precipitation Amount (mm)							
Duration	Return Interval (years)						
	2	5	10	20	25	50	100
5-min	3.5	5.0	5.9	6.8	7.1	7.9	8.6
10-min	5.4	7.6	9.1	10.5	10.9	12.1	13.3
15-min	6.9	9.4	11.0	12.5	13.0	14.4	15.7
30-min	9.5	11.8	13.4	14.8	15.3	16.6	17.8
1-hr	12.8	15.1	16.6	18.1	18.6	19.9	21.1
2-hr	18.2	21.1	23.0	24.8	25.4	27.0	28.5
6-hr	31.1	35.7	38.8	41.7	42.6	45.2	47.6
12-hr	40.9	46.9	51.0	54.8	56.1	59.4	62.6
24-hr	51.9	61.4	67.7	73.7	75.7	80.9	85.9
Median Projected Precipitation Amount (mm)							
Duration	Return Interval (years)						
	2	5	10	20	25	50	100
5-min	4.3	6.2	7.6	9.1	9.6	11.0	12.3
10-min	6.5	9.5	11.8	14.1	14.8	17.0	19.1
15-min	8.1	11.5	14.0	16.5	17.3	19.8	22.2
30-min	10.6	13.8	16.2	18.6	19.3	21.7	23.9
1-hr	13.8	17.1	19.5	21.9	22.6	25.0	27.2
2-hr	19.5	23.6	26.6	29.5	30.4	33.3	36.1
6-hr	33.2	39.7	44.5	49.2	50.7	55.3	59.8
12-hr	43.7	52.2	58.5	64.7	66.7	72.8	78.8
24-hr	56.3	69.6	79.5	89.2	92.3	101.8	111.1
Maximum Projected Precipitation Amount (mm)							
Duration	Return Interval (years)						
	2	5	10	20	25	50	100
5-min	5.0	7.8	9.6	11.5	12.0	13.9	15.6
10-min	7.7	12.0	14.9	17.8	18.7	21.5	24.3
15-min	9.5	14.2	17.4	20.6	21.7	24.8	27.9
30-min	12.0	16.4	19.4	22.4	23.4	26.4	29.3
1-hr	15.2	19.7	22.7	25.8	26.7	29.7	32.6
2-hr	21.2	26.8	30.5	34.3	35.5	39.2	42.8
6-hr	36.0	44.9	50.9	56.9	58.8	64.7	70.5
12-hr	47.3	59.0	66.9	74.9	77.4	85.2	92.9
24-hr	61.9	80.3	92.6	105.1	109.0	121.1	133.2

Table 1.29 Future Climate IDF Curves for St. Anthony (8403401) – 2041-2070 Time Horizon

Minimum Projected Precipitation Amount (mm)							
Duration	Return Interval (years)						
	2	5	10	20	25	50	100
5-min	4.1	5.4	6.1	6.9	7.1	7.8	8.5
10-min	6.2	8.2	9.4	10.6	10.9	12.1	13.2
15-min	7.9	10.1	11.4	12.7	13.1	14.3	15.5
30-min	10.4	12.5	13.8	14.9	15.3	16.5	17.7
1-hr	13.7	15.8	17.0	18.2	18.6	19.8	21.0
2-hr	19.3	21.9	23.5	25.0	25.4	26.9	28.3
6-hr	32.9	37.1	39.6	42.0	42.7	45.0	47.3
12-hr	43.2	48.7	52.0	55.1	56.2	59.2	62.3
24-hr	55.6	64.2	69.3	74.2	75.8	80.6	85.3
Median Projected Precipitation Amount (mm)							
Duration	Return Interval (years)						
	2	5	10	20	25	50	100
5-min	4.8	7.0	8.4	9.8	10.2	11.6	12.9
10-min	7.4	10.8	13.0	15.2	15.9	18.0	20.1
15-min	9.2	12.9	15.4	17.8	18.5	20.9	23.2
30-min	11.5	15.2	17.5	19.7	20.5	22.7	24.9
1-hr	14.7	18.5	20.8	23.0	23.8	26.0	28.2
2-hr	20.6	25.3	28.2	30.9	31.8	34.6	37.4
6-hr	35.0	42.5	47.1	51.5	52.9	57.4	61.8
12-hr	46.0	55.8	61.9	67.8	69.7	75.5	81.4
24-hr	59.9	75.3	84.8	93.9	96.9	106.1	115.2
Maximum Projected Precipitation Amount (mm)							
Duration	Return Interval (years)						
	2	5	10	20	25	50	100
5-min	6.9	9.9	11.9	13.8	14.4	16.3	18.1
10-min	10.6	15.3	18.5	21.5	22.4	25.3	28.2
15-min	12.7	17.9	21.4	24.7	25.8	29.0	32.2
30-min	15.0	19.9	23.2	26.3	27.3	30.3	33.4
1-hr	18.3	23.2	26.5	29.6	30.6	33.7	36.7
2-hr	25.0	31.2	35.2	39.1	40.3	44.1	47.9
6-hr	42.0	51.9	58.3	64.6	66.5	72.6	78.7
12-hr	55.3	68.2	76.8	85.0	87.6	95.6	103.6
24-hr	74.4	94.6	108.0	120.9	125.0	137.5	150.0

Table 1.30 Future Climate IDF Curves for St. Anthony (8403401) – 2071-2100 Time Horizon

Minimum Projected Precipitation Amount (mm)							
Duration	Return Interval (years)						
	2	5	10	20	25	50	100
5-min	4.0	5.4	6.4	7.3	7.6	8.4	9.3
10-min	6.1	8.3	9.8	11.2	11.7	13.1	14.4
15-min	7.7	10.1	11.8	13.4	13.9	15.4	16.9
30-min	10.2	12.6	14.1	15.6	16.1	17.5	18.9
1-hr	13.5	15.8	17.4	18.9	19.4	20.8	22.2
2-hr	19.1	22.0	23.9	25.8	26.4	28.2	29.9
6-hr	32.5	37.2	40.3	43.3	44.2	47.1	49.8
12-hr	42.7	48.9	53.0	56.9	58.1	61.9	65.6
24-hr	54.8	64.4	70.8	76.9	78.9	84.8	90.5
Median Projected Precipitation Amount (mm)							
Duration	Return Interval (years)						
	2	5	10	20	25	50	100
5-min	5.2	7.4	8.9	10.3	10.8	12.3	13.7
10-min	8.0	11.5	13.7	16.0	16.7	19.0	21.3
15-min	9.8	13.7	16.2	18.7	19.5	22.0	24.6
30-min	12.3	15.9	18.2	20.6	21.4	23.8	26.1
1-hr	15.5	19.2	21.5	23.9	24.7	27.1	29.5
2-hr	21.6	26.1	29.0	32.0	33.0	36.0	38.9
6-hr	36.6	43.8	48.5	53.2	54.8	59.5	64.3
12-hr	48.1	57.6	63.8	70.0	72.1	78.3	84.6
24-hr	63.2	78.0	87.7	97.4	100.6	110.5	120.2
Maximum Projected Precipitation Amount (mm)							
Duration	Return Interval (years)						
	2	5	10	20	25	50	100
5-min	6.4	9.5	11.3	13.0	13.5	15.2	16.9
10-min	9.8	14.6	17.5	20.1	21.0	23.6	26.2
15-min	11.8	17.2	20.3	23.3	24.2	27.1	30.2
30-min	14.2	19.2	22.1	24.9	25.8	28.6	31.5
1-hr	17.4	22.5	25.4	28.2	29.1	31.9	34.9
2-hr	24.0	30.2	33.9	37.4	38.5	41.9	45.6
6-hr	40.4	50.4	56.2	61.8	63.6	69.1	74.9
12-hr	53.1	66.3	74.0	81.4	83.7	90.9	98.7
24-hr	70.9	91.6	103.7	115.2	118.9	130.1	142.2