

Table 1.37 Future Climate IDF Curves for St. Lawrence (8403619) – 2011-2040 Time Horizon

Minimum Projected Precipitation Amount (mm)							
Duration	Return Interval (years)						
	2	5	10	20	25	50	100
5-min	5.2	6.3	7.1	7.8	8.0	8.7	9.4
10-min	8.2	10.3	11.8	13.1	13.5	14.9	16.2
15-min	10.2	13.3	15.4	17.4	18.0	19.9	21.8
30-min	15.4	20.1	23.2	26.1	27.1	30.0	32.9
1-hr	22.5	28.5	32.5	36.3	37.6	41.3	45.0
2-hr	31.6	39.6	44.9	50.0	51.6	56.6	61.3
6-hr	49.6	61.2	68.8	76.2	78.5	85.7	92.8
12-hr	60.4	72.2	79.9	87.4	89.8	97.0	104.3
24-hr	67.8	82.0	91.4	100.3	103.2	112.0	120.7
Median Projected Precipitation Amount (mm)							
Duration	Return Interval (years)						
	2	5	10	20	25	50	100
5-min	6.0	7.4	8.3	9.2	9.5	10.4	11.2
10-min	9.7	12.3	13.9	15.6	16.2	17.8	19.4
15-min	12.4	16.1	18.3	20.7	21.5	23.8	26.1
30-min	18.6	24.1	27.5	31.0	32.2	35.6	39.1
1-hr	26.7	33.7	38.1	42.7	44.2	48.7	53.2
2-hr	37.5	47.1	53.1	59.3	61.3	67.4	73.4
6-hr	58.3	72.8	81.7	91.1	94.1	103.2	112.3
12-hr	69.4	84.3	93.4	103.0	106.0	115.4	124.7
24-hr	78.7	97.1	108.4	120.1	123.8	135.3	146.8
Maximum Projected Precipitation Amount (mm)							
Duration	Return Interval (years)						
	2	5	10	20	25	50	100
5-min	6.7	8.3	9.4	10.4	10.7	11.9	13.0
10-min	10.9	13.9	15.9	17.8	18.5	20.6	22.7
15-min	14.0	18.2	21.0	23.7	24.6	27.6	30.5
30-min	21.1	27.3	31.4	35.5	36.9	41.3	45.7
1-hr	29.8	37.9	43.2	48.5	50.4	56.1	61.8
2-hr	42.0	53.1	60.4	67.7	70.2	78.1	85.9
6-hr	65.0	81.9	93.1	103.9	107.7	119.6	131.5
12-hr	76.3	93.7	105.2	116.3	120.2	132.5	144.6
24-hr	87.1	108.7	123.0	136.8	141.2	156.3	171.2

Table 1.38 Future Climate IDF Curves for St. Lawrence (8403619) – 2041-2070 Time Horizon

Minimum Projected Precipitation Amount (mm)							
Duration	Return Interval (years)						
	2	5	10	20	25	50	100
5-min	5.7	6.9	7.7	8.5	8.7	9.5	10.3
10-min	9.0	11.3	12.9	14.4	14.8	16.3	17.7
15-min	11.4	14.7	16.9	19.0	19.7	21.8	23.8
30-min	17.1	22.1	25.4	28.6	29.6	32.7	35.7
1-hr	24.7	31.1	35.4	39.5	40.8	44.8	48.8
2-hr	34.8	43.4	49.1	54.6	56.3	61.7	67.0
6-hr	54.3	67.1	75.5	83.6	86.2	94.2	102.0
12-hr	65.2	78.3	86.9	95.2	97.8	105.9	114.0
24-hr	73.6	89.6	100.2	110.3	113.6	123.5	133.3
Median Projected Precipitation Amount (mm)							
Duration	Return Interval (years)						
	2	5	10	20	25	50	100
5-min	6.4	7.8	8.7	9.6	9.9	10.8	11.7
10-min	10.3	13.0	14.6	16.3	16.9	18.6	20.2
15-min	13.2	16.9	19.3	21.7	22.5	24.8	27.1
30-min	19.9	25.4	28.8	32.4	33.6	37.1	40.5
1-hr	28.4	35.4	39.9	44.6	46.0	50.5	54.9
2-hr	40.0	49.5	55.5	61.9	63.9	70.0	75.9
6-hr	62.0	76.6	85.7	95.3	98.4	107.8	116.7
12-hr	73.2	88.2	97.5	107.4	110.5	120.2	129.3
24-hr	83.2	102.0	113.5	125.7	129.6	141.6	153.2
Maximum Projected Precipitation Amount (mm)							
Duration	Return Interval (years)						
	2	5	10	20	25	50	100
5-min	7.3	9.6	11.3	13.0	13.5	15.2	16.8
10-min	12.0	16.3	19.5	22.6	23.6	26.7	29.8
15-min	15.6	21.5	26.0	30.3	31.7	36.0	40.2
30-min	23.4	32.2	39.0	45.5	47.6	54.0	60.3
1-hr	32.9	44.4	53.1	61.6	64.3	72.6	80.8
2-hr	46.3	62.3	74.5	86.3	90.1	101.7	113.2
6-hr	71.5	95.8	114.3	132.3	138.0	155.5	173.0
12-hr	83.0	108.1	127.1	145.6	151.5	169.6	187.6
24-hr	95.2	126.2	149.5	172.3	179.5	201.8	223.9

Table 1.39 Future Climate IDF Curves for St. Lawrence (8403619) – 2071-2100 Time Horizon

Minimum Projected Precipitation Amount (mm)							
Duration	Return Interval (years)						
	2	5	10	20	25	50	100
5-min	6.0	7.1	7.8	8.5	8.7	9.4	10.1
10-min	9.6	11.7	13.1	14.4	14.8	16.1	17.4
15-min	12.2	15.2	17.2	19.0	19.6	21.5	23.3
30-min	18.4	22.8	25.7	28.5	29.3	32.1	34.8
1-hr	26.4	32.0	35.8	39.4	40.5	44.0	47.5
2-hr	37.2	44.6	49.5	54.3	55.8	60.4	65.0
6-hr	57.8	69.0	76.4	83.5	85.8	92.7	99.6
12-hr	68.9	80.3	87.9	95.1	97.4	104.5	111.5
24-hr	78.1	92.2	101.6	110.6	113.5	122.3	131.0
Median Projected Precipitation Amount (mm)							
Duration	Return Interval (years)						
	2	5	10	20	25	50	100
5-min	6.5	8.0	8.9	9.8	10.0	10.9	11.8
10-min	10.6	13.3	15.0	16.7	17.2	18.8	20.5
15-min	13.6	17.4	19.8	22.1	22.8	25.1	27.4
30-min	20.5	26.1	29.6	33.0	34.1	37.5	40.9
1-hr	29.1	36.3	40.7	45.0	46.5	51.1	55.5
2-hr	40.9	50.7	56.9	62.9	64.8	70.9	76.8
6-hr	63.4	78.5	87.9	97.1	100.0	109.2	118.4
12-hr	74.6	90.1	99.8	109.2	112.2	121.7	131.1
24-hr	85.0	104.4	116.5	128.2	131.9	143.6	155.3
Maximum Projected Precipitation Amount (mm)							
Duration	Return Interval (years)						
	2	5	10	20	25	50	100
5-min	7.6	9.6	11.1	12.5	13.0	14.2	15.4
10-min	12.7	16.2	19.0	21.7	22.5	24.8	27.0
15-min	16.5	21.4	25.3	29.0	30.1	33.2	36.2
30-min	24.9	32.1	37.9	43.3	44.8	49.4	53.9
1-hr	34.8	44.2	51.7	58.8	60.7	66.6	72.4
2-hr	48.9	62.1	72.5	82.3	84.9	93.1	101.2
6-hr	75.4	95.6	111.5	126.7	131.3	144.0	156.6
12-hr	87.0	107.8	124.2	139.9	144.7	157.9	170.9
24-hr	100.0	125.9	146.2	165.7	171.8	188.8	205.2