

Table 1.34 Future Climate IDF Curves for Ruby Line (City of St. John's Station) – 2011-2040 Time Horizon

Minimum Projected Precipitation Amount (mm)							
Duration	Return Interval (years)						
	2	5	10	20	25	50	100
5-min	4.3	4.9	5.3	5.7	5.8	6.1	6.5
10-min	6.8	7.7	8.2	8.8	8.9	9.4	10.0
15-min	8.7	9.9	10.7	11.5	11.7	12.5	13.2
30-min	12.8	15.4	17.0	18.6	19.1	20.7	22.3
1-hr	20.0	24.2	27.1	29.8	30.6	33.3	35.9
2-hr	30.9	37.0	41.1	45.0	46.2	50.0	53.7
6-hr	50.1	58.7	64.4	69.9	71.6	77.0	82.3
12-hr	64.4	76.7	84.8	92.6	95.1	102.7	110.2
24-hr	76.8	89.5	97.8	105.8	108.4	116.2	124.0
Median Projected Precipitation Amount (mm)							
Duration	Return Interval (years)						
	2	5	10	20	25	50	100
5-min	4.7	5.8	6.4	7.2	7.4	8.0	8.7
10-min	7.3	8.9	9.9	10.9	11.2	12.2	13.1
15-min	9.3	11.7	13.1	14.6	15.1	16.5	17.9
30-min	14.2	19.0	22.0	25.1	26.1	28.9	31.8
1-hr	22.3	30.5	35.4	40.8	42.4	47.2	52.1
2-hr	34.2	45.9	53.0	60.8	63.0	69.9	76.8
6-hr	54.7	71.3	81.3	92.2	95.4	105.1	114.9
12-hr	71.0	94.6	108.8	124.4	128.9	142.7	156.6
24-hr	83.6	107.9	122.6	138.5	143.2	157.4	171.7
Maximum Projected Precipitation Amount (mm)							
Duration	Return Interval (years)						
	2	5	10	20	25	50	100
5-min	5.0	6.2	7.1	7.8	8.1	8.9	9.7
10-min	7.8	9.6	10.8	11.9	12.3	13.4	14.5
15-min	10.1	12.7	14.4	16.1	16.6	18.3	20.0
30-min	15.7	21.1	24.7	28.1	29.2	32.6	36.1
1-hr	24.9	33.9	40.0	45.9	47.8	53.5	59.4
2-hr	37.9	50.9	59.6	68.0	70.6	78.8	87.2
6-hr	60.0	78.2	90.6	102.4	106.2	117.7	129.6
12-hr	78.5	104.5	122.0	138.9	144.2	160.7	177.6
24-hr	91.3	118.1	136.1	153.5	159.0	175.9	193.3

Table 1.35 Future Climate IDF Curves for Ruby Line (City of St. John's Station) – 2041-2070 Time Horizon

Minimum Projected Precipitation Amount (mm)							
Duration	Return Interval (years)						
	2	5	10	20	25	50	100
5-min	4.4	5.0	5.3	5.6	5.7	6.0	6.3
10-min	6.9	7.8	8.2	8.7	8.8	9.3	9.7
15-min	8.7	10.0	10.7	11.4	11.6	12.2	12.9
30-min	12.9	15.6	17.1	18.4	18.9	20.2	21.5
1-hr	20.1	24.7	27.1	29.4	30.2	32.5	34.7
2-hr	31.1	37.7	41.1	44.5	45.5	48.8	52.0
6-hr	50.4	59.6	64.5	69.2	70.7	75.3	79.9
12-hr	64.8	77.9	84.9	91.6	93.7	100.3	106.8
24-hr	77.2	90.8	98.0	104.8	107.0	113.8	120.5
Median Projected Precipitation Amount (mm)							
Duration	Return Interval (years)						
	2	5	10	20	25	50	100
5-min	4.8	6.0	6.8	7.5	7.7	8.4	9.0
10-min	7.5	9.2	10.4	11.4	11.7	12.7	13.6
15-min	9.7	12.1	13.9	15.3	15.8	17.2	18.6
30-min	15.0	20.0	23.6	26.6	27.5	30.4	33.3
1-hr	23.6	32.1	38.1	43.3	44.9	49.8	54.7
2-hr	36.1	48.3	56.9	64.2	66.5	73.5	80.5
6-hr	57.4	74.6	86.7	97.1	100.3	110.2	120.0
12-hr	74.8	99.3	116.6	131.3	135.9	150.0	164.0
24-hr	87.5	112.8	130.5	145.7	150.4	164.9	179.3
Maximum Projected Precipitation Amount (mm)							
Duration	Return Interval (years)						
	2	5	10	20	25	50	100
5-min	5.7	7.4	8.5	9.5	9.8	10.9	11.9
10-min	8.9	11.2	12.8	14.3	14.8	16.3	17.8
15-min	11.6	15.1	17.4	19.6	20.3	22.5	24.7
30-min	18.9	26.1	30.9	35.4	36.9	41.3	45.7
1-hr	30.3	42.5	50.6	58.3	60.8	68.3	75.8
2-hr	45.7	63.1	74.6	85.7	89.2	100.0	110.7
6-hr	71.0	95.5	111.8	127.3	132.3	147.5	162.6
12-hr	94.1	129.1	152.2	174.4	181.5	203.2	224.7
24-hr	107.4	143.4	167.2	190.0	197.3	219.6	241.8

Table 1.36 Future Climate IDF Curves for Ruby Line (City of St. John's Station) – 2071-2100 Time Horizon

Minimum Projected Precipitation Amount (mm)							
Duration	Return Interval (years)						
	2	5	10	20	25	50	100
5-min	4.4	5.2	5.8	6.2	6.3	6.7	7.0
10-min	6.8	8.1	8.9	9.5	9.7	10.2	10.8
15-min	8.7	10.5	11.7	12.6	12.8	13.6	14.4
30-min	12.9	16.6	19.1	20.9	21.4	23.0	24.7
1-hr	20.0	26.4	30.5	33.6	34.5	37.3	40.0
2-hr	31.0	40.1	46.0	50.4	51.7	55.6	59.6
6-hr	50.2	63.0	71.4	77.5	79.4	85.0	90.5
12-hr	64.6	82.8	94.7	103.4	106.0	114.0	122.0
24-hr	77.0	95.8	108.0	117.0	119.7	127.9	136.1
Median Projected Precipitation Amount (mm)							
Duration	Return Interval (years)						
	2	5	10	20	25	50	100
5-min	5.0	6.2	6.9	7.7	7.9	8.6	9.3
10-min	7.8	9.5	10.6	11.7	12.0	13.0	14.1
15-min	10.1	12.5	14.1	15.7	16.2	17.8	19.3
30-min	15.8	20.8	24.1	27.4	28.4	31.6	34.7
1-hr	24.9	33.5	39.1	44.6	46.4	51.7	57.1
2-hr	38.0	50.3	58.2	66.1	68.6	76.3	83.9
6-hr	60.1	77.4	88.7	99.8	103.3	114.2	124.9
12-hr	78.6	103.3	119.3	135.1	140.1	155.6	171.0
24-hr	91.5	116.8	133.3	149.6	154.8	170.7	186.5
Maximum Projected Precipitation Amount (mm)							
Duration	Return Interval (years)						
	2	5	10	20	25	50	100
5-min	5.7	7.1	8.1	9.1	9.4	10.3	11.3
10-min	8.7	10.8	12.3	13.7	14.2	15.5	16.9
15-min	11.4	14.5	16.7	18.7	19.4	21.4	23.4
30-min	18.6	24.9	29.3	33.6	34.9	39.1	43.2
1-hr	29.7	40.5	48.0	55.2	57.4	64.5	71.4
2-hr	44.8	60.2	70.9	81.2	84.4	94.5	104.4
6-hr	69.7	91.4	106.5	121.0	125.6	139.8	153.8
12-hr	92.3	123.3	144.8	165.4	171.9	192.1	212.1
24-hr	105.5	137.4	159.5	180.7	187.5	208.2	228.8