

Table 1.40 Future Climate IDF Curves for Stephenville A (8403800) – 2011-2040
Time Horizon

Minimum Projected Precipitation Amount (mm)							
Duration	Return Interval (years)						
	2	5	10	20	25	50	100
5-min	4.4	6.0	7.0	8.0	8.3	9.2	10.2
10-min	6.2	8.3	9.7	11.1	11.5	12.8	14.1
15-min	8.0	10.3	11.9	13.4	13.9	15.3	16.8
30-min	11.7	15.4	17.8	20.1	20.9	23.1	25.4
1-hr	16.3	21.3	24.6	27.7	28.8	31.8	34.9
2-hr	22.4	27.4	30.7	33.9	34.9	38.1	41.2
6-hr	37.9	46.9	52.9	58.7	60.5	66.1	71.7
12-hr	46.3	58.8	67.0	74.9	77.5	85.2	92.9
24-hr	57.5	74.3	85.5	96.2	99.6	110.1	120.4
Median Projected Precipitation Amount (mm)							
Duration	Return Interval (years)						
	2	5	10	20	25	50	100
5-min	5.1	6.9	8.2	9.4	9.8	10.9	12.0
10-min	7.2	10.1	12.0	13.8	14.4	16.1	17.8
15-min	9.2	12.4	14.6	16.6	17.3	19.3	21.2
30-min	13.5	18.3	21.5	24.5	25.5	28.4	31.3
1-hr	18.6	24.8	29.0	33.0	34.2	38.1	41.9
2-hr	25.0	31.7	36.2	40.5	41.8	45.9	50.0
6-hr	42.3	54.1	62.0	69.4	71.7	78.9	86.0
12-hr	51.8	67.3	77.7	87.5	90.6	100.0	109.4
24-hr	65.0	86.4	100.7	114.4	118.6	131.7	144.8
Maximum Projected Precipitation Amount (mm)							
Duration	Return Interval (years)						
	2	5	10	20	25	50	100
5-min	5.7	8.1	9.6	11.1	11.6	13.1	14.5
10-min	8.3	12.0	14.5	16.8	17.6	19.9	22.2
15-min	10.4	14.7	17.5	20.3	21.2	23.8	26.5
30-min	15.3	21.6	25.7	29.7	31.0	34.9	38.8
1-hr	20.8	28.9	34.2	39.3	40.9	45.9	50.9
2-hr	27.6	36.6	42.5	48.2	50.0	55.6	61.1
6-hr	46.8	62.2	72.4	82.2	85.4	94.9	104.5
12-hr	57.3	77.0	90.1	102.6	106.6	118.9	131.0
24-hr	72.6	100.1	118.3	135.8	141.4	158.4	175.4

Table 1.41 Future Climate IDF Curves for Stephenville A (8403800) – 2041-2070
Time Horizon

Minimum Projected Precipitation Amount (mm)							
Duration	Return Interval (years)						
	2	5	10	20	25	50	100
5-min	4.6	6.4	7.4	8.3	8.6	9.5	10.4
10-min	6.5	9.1	10.6	11.9	12.3	13.6	14.9
15-min	8.3	11.2	12.9	14.3	14.8	16.2	17.6
30-min	12.2	16.6	19.0	21.2	21.9	24.0	26.2
1-hr	17.0	22.8	26.2	29.1	30.1	33.0	35.9
2-hr	23.2	29.2	32.5	35.4	36.4	39.3	42.1
6-hr	39.2	49.9	55.8	61.1	62.8	68.0	73.2
12-hr	48.0	62.3	70.8	78.3	80.6	87.9	95.1
24-hr	59.8	79.3	91.1	101.3	104.6	114.6	124.5
Median Projected Precipitation Amount (mm)							
Duration	Return Interval (years)						
	2	5	10	20	25	50	100
5-min	5.4	7.3	8.6	9.8	10.2	11.4	12.7
10-min	7.7	10.7	12.7	14.6	15.2	17.1	19.0
15-min	9.7	13.1	15.4	17.6	18.3	20.4	22.6
30-min	14.3	19.3	22.6	25.9	26.9	30.1	33.2
1-hr	19.6	26.0	30.4	34.6	35.9	40.1	44.2
2-hr	26.2	33.2	37.9	42.5	43.9	48.3	52.8
6-hr	44.4	56.5	64.8	72.7	75.2	82.9	90.7
12-hr	54.4	70.3	81.0	91.4	94.7	104.8	114.9
24-hr	68.6	90.6	105.6	119.9	124.5	138.5	152.5
Maximum Projected Precipitation Amount (mm)							
Duration	Return Interval (years)						
	2	5	10	20	25	50	100
5-min	6.3	9.0	10.9	12.7	13.2	15.0	16.8
10-min	9.1	13.4	16.5	19.4	20.4	23.2	26.1
15-min	11.4	16.4	20.0	23.4	24.5	27.8	31.1
30-min	16.7	24.1	29.3	34.2	35.8	40.7	45.5
1-hr	22.6	31.9	38.5	44.8	46.8	52.9	59.0
2-hr	29.8	40.2	47.7	54.8	57.1	64.0	71.0
6-hr	50.5	68.4	81.2	93.4	97.3	109.2	121.1
12-hr	61.8	84.5	100.5	115.9	120.7	135.8	150.7
24-hr	78.8	110.5	132.8	154.3	161.1	182.1	202.9

Table 1.42 Future Climate IDF Curves for Stephenville A (8403800) – 2071-2100
Time Horizon

Minimum Projected Precipitation Amount (mm)							
Duration	Return Interval (years)						
	2	5	10	20	25	50	100
5-min	4.7	6.5	7.7	8.8	9.2	10.3	11.3
10-min	6.6	9.4	11.1	12.7	13.2	14.8	16.4
15-min	8.4	11.5	13.5	15.3	15.9	17.7	19.5
30-min	12.4	17.1	20.0	22.8	23.7	26.4	29.1
1-hr	17.2	23.4	27.2	30.9	32.1	35.7	39.2
2-hr	23.4	30.0	34.0	37.9	39.1	42.9	46.7
6-hr	39.6	51.1	58.3	65.1	67.3	74.0	80.7
12-hr	48.6	63.8	73.3	82.4	85.3	94.3	103.1
24-hr	60.5	81.4	94.5	107.1	111.0	123.3	135.5
Median Projected Precipitation Amount (mm)							
Duration	Return Interval (years)						
	2	5	10	20	25	50	100
5-min	5.7	7.7	9.1	10.5	10.9	12.2	13.5
10-min	8.2	11.3	13.6	15.8	16.4	18.5	20.6
15-min	10.3	13.8	16.5	18.9	19.7	22.2	24.5
30-min	15.2	20.3	24.2	27.7	28.9	32.5	35.8
1-hr	20.7	27.4	32.3	36.9	38.4	43.0	47.3
2-hr	27.5	34.9	40.3	45.3	47.0	51.9	56.6
6-hr	46.5	59.4	68.7	77.4	80.3	88.8	96.9
12-hr	57.2	73.8	85.7	96.8	100.6	111.8	122.3
24-hr	72.4	95.6	112.0	127.7	132.7	148.8	163.6
Maximum Projected Precipitation Amount (mm)							
Duration	Return Interval (years)						
	2	5	10	20	25	50	100
5-min	6.1	8.9	10.7	12.5	13.1	14.8	16.5
10-min	8.8	13.3	16.3	19.1	20.0	22.8	25.6
15-min	11.0	16.3	19.7	23.0	24.1	27.3	30.6
30-min	16.3	23.8	28.9	33.7	35.3	40.0	44.7
1-hr	22.0	31.7	38.0	44.1	46.1	52.1	58.0
2-hr	29.0	39.9	47.1	54.0	56.2	63.0	69.7
6-hr	49.2	67.9	80.2	92.1	95.9	107.5	119.0
12-hr	60.3	83.8	99.4	114.3	119.1	133.7	148.2
24-hr	76.7	109.6	131.3	152.2	158.8	179.2	199.5