

## Liverpool, NS - Climate Change and Sea-Level Rise Scenario Data

Parameter		Historical 1980s	Projected 2020s	Projected 2050s	Projected 2080s
Temperature (°C)	Annual	7.4	8.5	9.8	11.0
	Winter	-3.2	-1.9	-0.5	1.0
	Spring	5.3	6.4	7.5	8.6
	Summer	18.0	19.1	20.3	21.4
	Autumn	9.4	10.5	11.7	13.0
Precipitation (mm)	Annual	1646.7	1691.9	1705.9	1756.5
	Winter	502.3	526.7	539.3	568.7
	Spring	424.1	438.2	444.5	461.9
	Summer	287.2	292.0	291.1	291.5
	Autumn	433.0	438.3	437.6	447.5
Heating Degree Days		4017.2	3679.6	3321.7	2975.0
Cooling Degree Days		153.0	220.0	313.9	425.1
Hot Days (Tmax > 30)		6.2	11.8	20.4	29.9
Very Hot Days (Tmax > 35)		0.0	0.5	1.1	2.6
Cold Days (Tmax < -10)		2.5	1.5	0.7	0.2
Very Cold Days (Tmax < -20)		0.0	0.0	0.0	0.0
Growing Degree Days > 5		1915.9	2150.8	2432.0	2743.8
Growing Degree Days > 10		1001.6	1169.0	1371.6	1594.6
Growing Season Length (days)		182.4	196.8	213.6	229.1
Corn Heat Units (CHU)		2610.0	2904.6	3257.0	3586.6
Corn Season Length (days)		148.7	158.8	171.3	179.0
Freeze Free Season (days)		184.8	211.7	231.9	249.4
Days With Rain		139.0	148.1	151.4	153.7
Days With Snow		25.0	45.9	37.9	30.9
Freeze-Thaw Cycles - Annual		109.8	99.2	83.8	70.2
Winter		48.8	48.7	46.5	43.9
Spring		37.3	32.3	24.4	18.1
Summer		0.1	0.1	0.0	0.0
Autumn		23.6	18.1	13.0	8.3
Water Surplus (mm)		1356.2	1132.6	1098.0	1112.9
Water Deficit (mm)		39.0	46.8	56.0	66.3
Δ Intensity Short Period Rainfall (%)		0	5	9	16

## Sea Level Rise

Extreme Total Sea Level (metres CD) – Liverpool						
Return Period	Residual	Level 2000	Level 2025	Level 2055	Level 2085	Level 2100
Total Sea Level Rise (m)			0.15 ± 0.03	0.43 ± 0.15	0.83 ± 0.36	1.06 ± 0.48
Extreme TSL - 10 Yr Ret Period	0.71 ± 0.20	3.01 ± 0.20	3.16 ± 0.23	3.44 ± 0.35	3.84 ± 0.56	4.07 ± 0.68
Extreme TSL - 25 Yr Ret Period	0.81 ± 0.20	3.11 ± 0.20	3.26 ± 0.23	3.54 ± 0.35	3.94 ± 0.56	4.17 ± 0.68
Extreme TSL - 50 Yr Ret Period	0.88 ± 0.20	3.18 ± 0.20	3.33 ± 0.23	3.61 ± 0.35	4.01 ± 0.56	4.24 ± 0.68
Extreme TSL - 100 Yr Ret Period	0.95 ± 0.20	3.25 ± 0.20	3.40 ± 0.23	3.68 ± 0.35	4.08 ± 0.56	4.31 ± 0.68

Source: W. Richards Climate Consulting, August 2011