



East Interlake

Medium Carbon Emissions (RCP4.5)

Climate Variable	Season	1981-2010 (Baseline)	2021-2050			2051-2080		
			L	M	H	L	M	H
Mean Temperature	Annual	1.6 °C	2.8 °C	3.3 °C	4.1 °C	4.0 °C	4.5 °C	4.9 °C
	Winter	-15.9 °C	-14.8 °C	-13.6 °C	-12.4 °C	-13.0 °C	-12.0 °C	-11.0 °C
	Spring	1.3 °C	2.2 °C	3.0 °C	3.9 °C	3.3 °C	3.9 °C	4.7 °C
	Summer	17.1 °C	17.9 °C	18.5 °C	18.9 °C	19.0 °C	19.6 °C	20.0 °C
	Fall	3.5 °C	4.5 °C	5.1 °C	5.7 °C	5.6 °C	6.2 °C	6.8 °C
Precipitation	Annual	471.2 mm	475.0 mm	498.7 mm	526.3 mm	475.6 mm	499.0 mm	525.1 mm
	Winter	65.4 mm	65.2 mm	72.5 mm	80.3 mm	68.5 mm	76.2 mm	83.7 mm
	Spring	95.1 mm	92.4 mm	105.0 mm	114.9 mm	90.9 mm	108.8 mm	125.9 mm
	Summer	204.1 mm	190.4 mm	205.4 mm	225.3 mm	182.3 mm	197.5 mm	215.9 mm
	Fall	106.8 mm	107.1 mm	115.8 mm	126.9 mm	106.1 mm	116.5 mm	130.1 mm
Days ≥ 30 °C	Annual	5.8 days	6.5 days	11.2 days	15.7 days	14.1 days	19.8 days	26.0 days
Days ≤ -30 °C	Annual	14.0 days	2.8 days	7.0 days	11.8 days	1.1 days	4.5 days	7.7 days
Frost-Free Period	Annual	116.2 days	116.6 days	130.3 days	148.1 days	126.1 days	139.1 days	150.9 days
Date of First Fall Frost		Sep 17	Sep 14	Sep 24	Oct 05	Sep 20	Sep 28	Oct 06
Date of Last Spring Frost		May 24	May 07	May 17	May 27	May 03	May 12	May 21
5 °C Degree Days	Annual	17234.0	17277.5	17304.8	17331.5	17309.9	17334.1	17352.9
10 °C Degree Days	Annual	798.0	912.7	980.1	1052.4	1069.4	1144.3	1210.7
Freeze-Thaw Cycles	Annual	67.0 cycles	53.7 cycles	62.9 cycles	71.6 cycles	56.3 cycles	64.9 cycles	74.4 cycles
Days Precip ≥ 10 mm	Annual	10.7 days	9.9 days	12.0 days	14.2 days	10.5 days	12.0 days	13.4 days
Days Precip ≥ 20 mm	Annual	2.8 days	1.9 days	3.1 days	4.5 days	2.4 days	3.2 days	4.0 days

High Carbon Emissions (RCP8.5)

Climate Variable	Season	1981-2010 (Baseline)	2021-2050			2051-2080		
			L	M	H	L	M	H
Mean Temperature	Annual	1.5 °C	3.0 °C	3.6 °C	4.2 °C	4.7 °C	5.8 °C	7.0 °C
	Winter	-16.0 °C	-14.3 °C	-13.1 °C	-11.8 °C	-12.0 °C	-10.4 °C	-8.9 °C
	Spring	1.3 °C	2.2 °C	3.0 °C	3.8 °C	3.5 °C	4.7 °C	5.8 °C
	Summer	17.1 °C	18.3 °C	18.9 °C	19.5 °C	20.0 °C	21.0 °C	21.9 °C
	Fall	3.4 °C	4.5 °C	5.5 °C	6.3 °C	6.6 °C	7.7 °C	8.7 °C
Precipitation	Annual	470.4 mm	468.1 mm	496.7 mm	524.2 mm	479.5 mm	509.4 mm	536.8 mm
	Winter	66.4 mm	65.3 mm	72.5 mm	80.4 mm	67.4 mm	79.0 mm	89.0 mm
	Spring	94.0 mm	92.4 mm	107.9 mm	120.1 mm	100.8 mm	119.1 mm	137.4 mm
	Summer	203.7 mm	184.3 mm	202.3 mm	216.8 mm	173.8 mm	195.8 mm	214.5 mm
	Fall	106.4 mm	101.5 mm	113.9 mm	126.1 mm	99.5 mm	115.6 mm	129.6 mm
Days ≥ 30 °C	Annual	5.8 days	8.6 days	13.4 days	18.3 days	20.8 days	30.6 days	40.1 days
Days ≤ -30 °C	Annual	14.5 days	2.4 days	6.0 days	10.2 days	0.6 days	2.7 days	5.0 days
Frost-Free Period	Annual	116.5 days	119.3 days	134.6 days	153.9 days	132.0 days	148.1 days	165.3 days
Date of First Fall Frost		Sep 17	Sep 17	Sep 27	Oct 10	Sep 23	Oct 04	Oct 15
Date of Last Spring Frost		May 24	May 05	May 15	May 26	May 01	May 09	May 19
5 °C Degree Days	Annual	17235.8	17276.0	17308.2	17347.8	17353.2	17381.6	17408.9
10 °C Degree Days	Annual	798.0	973.9	1040.4	1117.6	1205.7	1352.4	1524.8
Freeze-Thaw Cycles	Annual	66.4 cycles	52.1 cycles	62.5 cycles	71.6 cycles	52.5 cycles	61.0 cycles	69.3 cycles
Days Precip ≥ 10 mm	Annual	10.7 days	10.3 days	11.8 days	13.3 days	10.6 days	12.4 days	14.2 days
Days Precip ≥ 20 mm	Annual	2.8 days	1.8 days	3.0 days	4.2 days	2.4 days	3.3 days	4.4 days