



West Interlake Watershed

Medium Carbon Emissions (RCP4.5)

Climate Variable	Season	1981-2010 (Baseline)	2021-2050			2051-2080		
			L	M	H	L	M	H
Mean Temperature	Annual	1.7 °C	3.0 °C	3.5 °C	4.3 °C	4.2 °C	4.7 °C	5.1 °C
	Winter	-16.2 °C	-15.2 °C	-13.9 °C	-12.8 °C	-13.2 °C	-12.2 °C	-11.2 °C
	Spring	1.5 °C	2.4 °C	3.2 °C	4.0 °C	3.5 °C	4.1 °C	4.8 °C
	Summer	17.6 °C	18.5 °C	19.0 °C	19.5 °C	19.5 °C	20.1 °C	20.5 °C
	Fall	3.9 °C	4.9 °C	5.5 °C	6.1 °C	6.0 °C	6.6 °C	7.2 °C
Precipitation	Annual	469.3 mm	469.7 mm	497.4 mm	523.3 mm	476.1 mm	495.9 mm	525.5 mm
	Winter	64.8 mm	65.8 mm	72.9 mm	82.4 mm	69.2 mm	77.6 mm	85.2 mm
	Spring	99.3 mm	88.9 mm	108.1 mm	124.0 mm	95.3 mm	112.0 mm	126.1 mm
	Summer	196.8 mm	172.5 mm	198.2 mm	217.1 mm	173.4 mm	188.1 mm	201.6 mm
	Fall	108.4 mm	108.4 mm	118.1 mm	128.3 mm	108.5 mm	118.3 mm	128.7 mm
Days ≥ 30 °C	Annual	4.8 days	5.4 days	10.8 days	15.4 days	12.9 days	18.6 days	25.0 days
Days ≤ -30 °C	Annual	13.5 days	3.1 days	7.0 days	11.4 days	1.0 days	4.1 days	7.6 days
Frost-Free Period	Annual	120.5 days	117.0 days	135.6 days	153.5 days	127.7 days	141.6 days	155.4 days
Date of First Fall Frost		Sep 21	Sep 16	Sep 27	Oct 09	Sep 21	Sep 30	Oct 08
Date of Last Spring Frost		May 23	May 02	May 14	May 30	Apr 30	May 11	May 21
5 °C Degree Days	Annual	17288.8	17328.1	17354.0	17375.8	17360.2	17377.7	17392.1
10 °C Degree Days	Annual	845.1	964.4	1033.4	1110.4	1117.4	1197.9	1268.7
Freeze-Thaw Cycles	Annual	62.0 cycles	46.6 cycles	57.3 cycles	67.1 cycles	50.9 cycles	58.9 cycles	66.4 cycles
Days Precip ≥ 10 mm	Annual	10.8 days	9.6 days	12.0 days	14.4 days	10.1 days	11.7 days	13.1 days
Days Precip ≥ 20 mm	Annual	2.7 days	1.8 days	3.1 days	4.3 days	2.1 days	3.0 days	3.9 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	1.7 °C	3.2 °C	3.9 °C	4.5 °C	4.9 °C	6.1 °C	7.3 °C
	Winter	-16.3 °C	-14.6 °C	-13.3 °C	-12.2 °C	-12.3 °C	-10.6 °C	-8.9 °C
	Spring	1.5 °C	2.4 °C	3.2 °C	4.0 °C	3.7 °C	4.9 °C	6.1 °C
	Summer	17.5 °C	18.8 °C	19.4 °C	20.0 °C	20.4 °C	21.5 °C	22.5 °C
	Fall	3.8 °C	5.0 °C	5.9 °C	6.7 °C	7.1 °C	8.1 °C	9.1 °C
Precipitation	Annual	469.8 mm	462.2 mm	492.5 mm	519.3 mm	474.4 mm	505.5 mm	535.0 mm
	Winter	66.5 mm	64.7 mm	72.4 mm	80.9 mm	68.4 mm	80.3 mm	90.4 mm
	Spring	98.8 mm	91.5 mm	109.2 mm	121.3 mm	105.1 mm	122.5 mm	138.1 mm
	Summer	195.6 mm	178.9 mm	193.1 mm	208.0 mm	164.0 mm	184.7 mm	201.3 mm
	Fall	109.1 mm	106.8 mm	117.7 mm	132.3 mm	104.0 mm	118.0 mm	131.2 mm
Days ≥ 30 °C	Annual	4.8 days	8.3 days	13.1 days	18.7 days	21.2 days	30.9 days	40.4 days
Days ≤ -30 °C	Annual	14.0 days	2.0 days	6.1 days	11.0 days	0.4 days	2.5 days	4.8 days
Frost-Free Period	Annual	120.4 days	120.7 days	140.9 days	159.5 days	135.9 days	152.2 days	171.1 days
Date of First Fall Frost		Sep 21	Sep 21	Sep 30	Oct 15	Sep 24	Oct 06	Oct 18
Date of Last Spring Frost		May 23	May 02	May 12	May 27	Apr 29	May 07	May 17
5 °C Degree Days	Annual	17289.9	17327.2	17356.6	17388.7	17395.0	17420.4	17446.1
10 °C Degree Days	Annual	845.3	1029.2	1095.9	1176.6	1265.5	1414.8	1591.0
Freeze-Thaw Cycles	Annual	61.8 cycles	45.9 cycles	57.0 cycles	65.6 cycles	48.1 cycles	56.6 cycles	64.1 cycles
Days Precip ≥ 10 mm	Annual	10.9 days	10.2 days	11.7 days	13.5 days	10.4 days	12.3 days	14.5 days
Days Precip ≥ 20 mm	Annual	2.7 days	2.1 days	3.0 days	4.2 days	2.2 days	3.1 days	4.1 days