

MONTH	DAYS OF FROST	MINIMUM NIGHTTIME TEMP	AVERAGE NIGHTTIME TEMP	AVERAGE DAYTIME MAX
JANUARY	31	-21.2C (-6.2°F)	-12.3°C (9.9°F)	-2.8°C (27.0°F)
FEBRUARY	28	-25.5°C (-13.9°F)	-17°C (1.4°F)	-12.6°C (9.3°F)
MARCH	30	-18.9°C (-2.0°F)	-6.6°C (20°F)	-1.9°C (28.6°F)
APRIL	7	-3.7°C (25.3°F)	2.0°C (35.6°F)	7.5°C (45.5°F)

WHY IS IT SO AMAZING?

- SUSTAINABILITY
- GROWS ALL YEAR ROUND
- LOW CARBON FOOTPRINT.

According to Ian Clarke, creator of the passive greenhouse at OCAD University, "While we had repeated cold nights down to -25°C (-13°F) we didn't lose a single plant to frost in the greenhouse. We never added any supplemental heat even on the coldest days. All the heat provided from the winter sun"(Clarke, 2015). This proves that the passive greenhouse can survive in extreme weather condition
 Clarke, I. (2017, March 08). 5 MAY PASSIVE URBAN GREEHAUS UPDATE. Retrieved March 26, 2018, from <https://www2.ocadu.ca/research/sbl/project/5-may-passive-urban-greehaus-update>

SP ECS

- The optimal orientation is best placed slightly to the East. This gives the greenhouse sun at sunrise and rejects sun towards sunset when it's most prone to overheat.
- Our design is a small scale, comfortable size to accommodate for apartment balcony or smaller spaces.
- We aim for an all year round passive greenhouse that requires no electricity
- Only passive solar heat storage to keep the growing conditions up to par in harsh cold winter conditions.

