

SOIL & GENERAL Perennia Weather Station Network

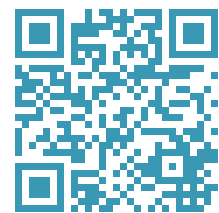
Local data. Smarter decisions. Stronger agriculture.

Climate change is making weather more variable, unpredictable and extreme. Changing growing conditions also favour more pests and diseases. These challenges make timely environmental data essential for growers. Perennia's province wide network of automated weather stations provides real time, localized information that also powers decision support tools and models. This helps growers, researchers and industry partners across Nova Scotia make informed decisions that reduce risk and improve productivity.

Why the Network Matters

- Measures site-specific conditions that can vary significantly across short distances
- Improves planning, forecasting and risk management
- Supports climate resilience and adaptation strategies
- Provides trusted data for research, modelling and decision-support tools

farmdatatools.perennia.ca



What the Weather Stations Measure



Each station continuously collects high-quality environmental data, including:

Atmospheric Conditions

- Air temperature
- Relative humidity
- Wind speed and wind direction
- Barometric pressure

Precipitation & Moisture

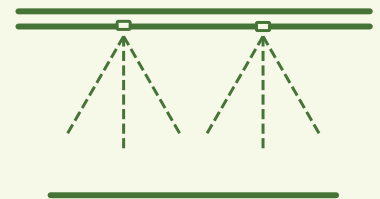
- Rainfall (totals and intensity)
- Leaf wetness duration
- Soil moisture (where installed)

Solar & Energy Inputs

- Solar radiation temperature reads.

How the Data Is Used

- Frost and heat stress monitoring
- Crop growth and disease risk modelling
- Spray timing and field work planning
- Irrigation and water management decisions
- Climate trend analysis and research



Who Benefits

- Farmers and growers
- Researchers and extension specialists
- Industry organizations and policymakers

