

Improving Evapotranspiration Measurements to Support Better Irrigation in BC

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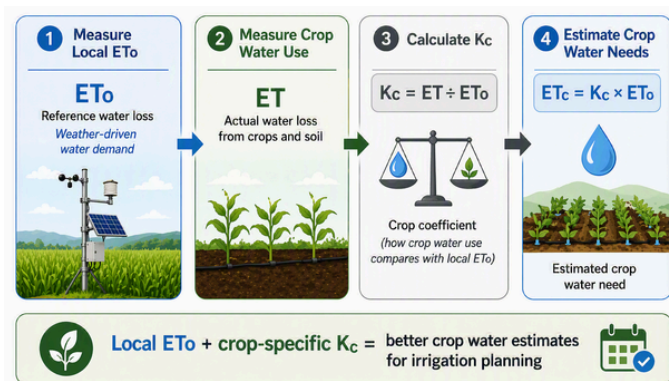


Why measure evapotranspiration?

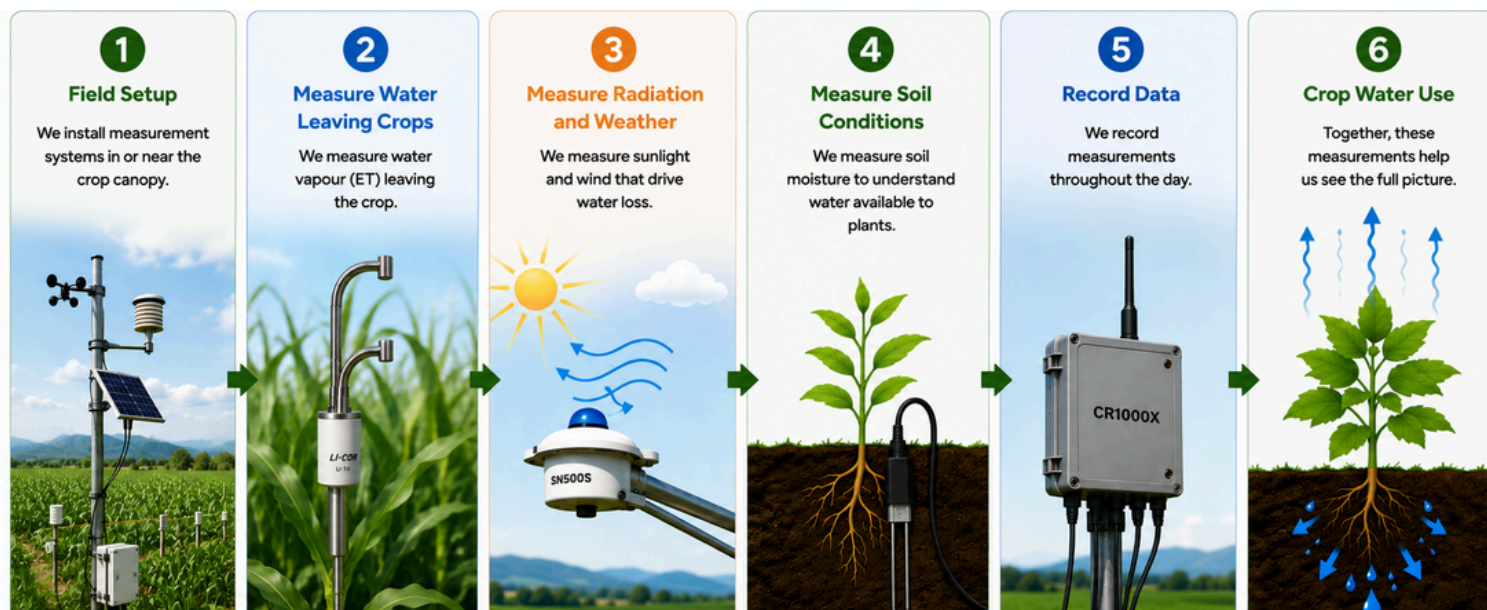
Evapotranspiration is the process of water moving from the soil and plants back into the air. It includes both evaporation from the soil and transpiration from plants. Measuring evapotranspiration helps show how much water crops are actually using. This can help farmers match irrigation to crop needs, reduce water and energy waste, maintain crop health, and respond better to changing weather conditions.

What is this research doing?

This research will develop local **reference evapotranspiration** (**ET₀**) values for BC using field data and weather information from BC AgriWeather stations. ET₀ shows how much water would be lost from a well-watered grass surface under local weather conditions. The project will test half-hourly ET₀ estimates instead of relying only on daily estimates, so changes in crop water demand can be captured more accurately throughout the day.



How are measurements taken?



Resources and opportunities

Evapotranspiration-based irrigation is one tool among many, and this factsheet is just a starting point. Interested in how ET can support irrigation on your farm or have questions about this project? **Visit our [webpage](#) or contact Dr. Andy Black at andrew.black@ubc.ca**

Thank you to our partners and funders!



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