

Modeling and **Mapping** water use for Agriculture



Evapotranspiration Modeling and Water Use Mapping

Crops **lose water** through evapotranspiration (ET). Evapotranspiration = evaporation + transpiration, or plants “sweating.” Satellites help **EROS scientists observe**, model and map this water loss, which can indicate drought and irrigation use.

How Evapotranspiration Helps

- 1** **Western U.S. farmers** can make the most efficient use of water by measuring irrigation output through an EROS-developed ET model.
- 2** **EROS scientists** with the Famine Early Warning System Network help identify early signs of drought in vulnerable countries. Then, aid can be sent before a deadly famine strikes.
- 3** **Water resource managers** get help planning for the future through an easily accessible platform, Open ET, that includes the EROS ET model.

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Location

Global

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