

Quick Start Guide: AguaRiego

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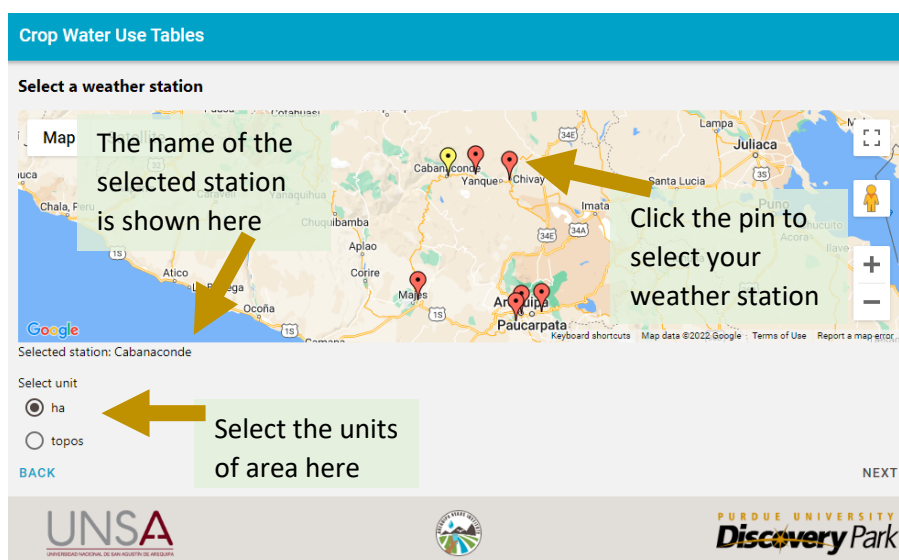
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AguaRiego is a tool that provides crop water use data and irrigation water needs data for typical crops in the Department of Arequipa, Peru, including the Majes Irrigation District, the City of Arequipa, and the Colca Valley. It can be used to:

- Compare the water needs of different crops;
- Compare the water needs for different irrigation systems; and
- Evaluate if there is sufficient access to irrigation water for an entire season.

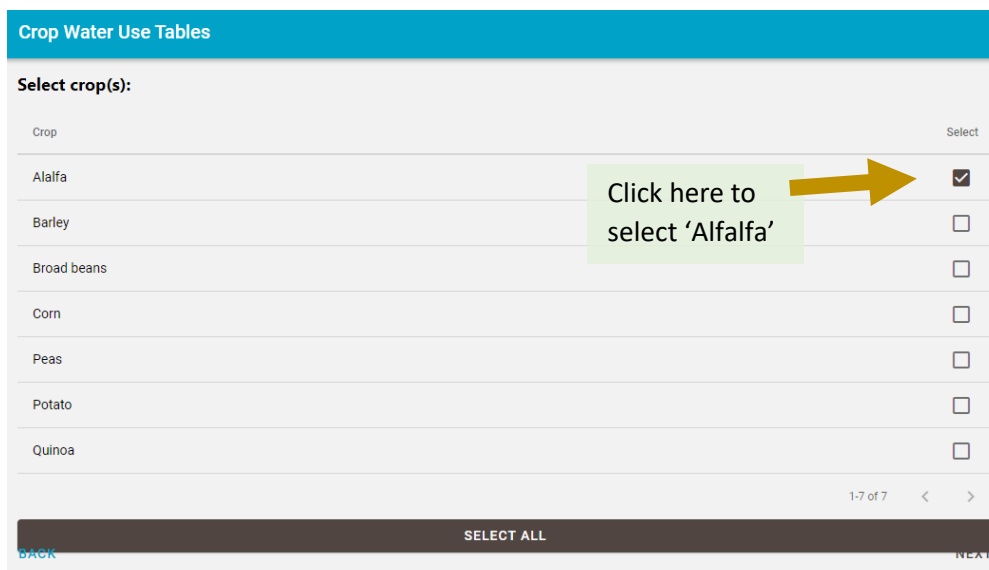
Getting started: The Map tab

This tool can be accessed at <https://www.agry.purdue.edu/hydrology/projects/nexus-swm/crop-water-use-tables/> or as a phone app in the Google Play store. If location services are turned on, the closest weather station will be automatically selected, but you can change the selection on the Map tab.



Crop selection tab

On the next page you can select as many crops as you would like, by clicking on the boxes to the right.



Water use levels

The next tab describes the total seasonal and average monthly water needs of crops. Note that peak water use will be different than the average monthly demand.

| Crop | Growing | Avg. Monthly | Mo. grown | Planting |
|---------|---------|--------------|-----------|-----------|
| Alfalfa | 9378 | 782 | 12 | Perennial |

Actual monthly water needs could be higher or lower than average values depending on growth stage

Key:

- Growing - Growing season water needs (m³/ha)
- Avg. Monthly - Monthly average water needs (m³/ha)
- Mo. grown - Months crop is growing
- Planting - Assumed planting date

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Irrigation water needs

The final tab provides estimates of the total seasonal water withdrawals needed to support your crops, depending on the irrigation method.

| Crop | Surface | Sprinkler | Drip |
|---------|---------|-----------|------|
| Alfalfa | 1303 | 1043 | 869 |

Key:

- Surface - Surface irrigation water needs (m³/month/ha)
- Sprinkler - Sprinkler irrigation water needs (m³/month/ha)
- Drip - Drip irrigation water needs (m³/month/ha)

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More information

For more information about this tool, you can refer to the following resources:

- The AguaRiego user's manual

You can access these resources, our tools, and other information about the SWM team on our website at https://purdue.ag/nexus_tools.

CONTACT

For more information about the developers, this, and other tools developed by the Sustainable Water Management team of the Arequipa Nexus Institute, contact us at nexus-swm@purdue.edu.