

# Mobile Applications for Improving Agricultural Practices in Pacific Northwest

[www.mobile.reacchpna.org](http://www.mobile.reacchpna.org)

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## Introduction:

The use of location-based mobile applications for decision support has become increasingly popular among the agricultural community. The REACCH cyberinfrastructure team has developed a set of tools that a grower will be able to access on a mobile device out in their field, which will provide them with information that will help them make informed decisions regarding their agricultural practices.

## Growing Degree Day Calculator:

- Developed primarily for wheat growers.
- Allows the user to query the current number of growing degree days for any location within the continental United States by clicking on a map.
- The tool uses the number of growing degree days to provide growers with critical insect/plant phenological information.

## Aphid Tracker Mobile App

- Developed primarily for growers of peas and lentils.
- Provides maps and a variety of calculators used for determining best pest management practices for growers.
- Maps provide aphid counts at study sites across northern Idaho.
- Calculators determine the economic feasibility of spraying insecticide on both peas and lentils, both in the early and later parts of the growing season.

## Cereal School Survey Results

Location: Greencreek, ID and Genesee, ID, 2/24/15 & 2/25/14  
46 total survey participants

Average level of interest in mobile decision support tools (1= no interest, 5= extremely interested):

**3.70 (All participants)**

**3.85 (Smart phone users)**

