Mobile Applications for Improving Agricultural

Practices in Pacific Northwest



www.mobile.reacchpna.org

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Introduction:

Agriculture

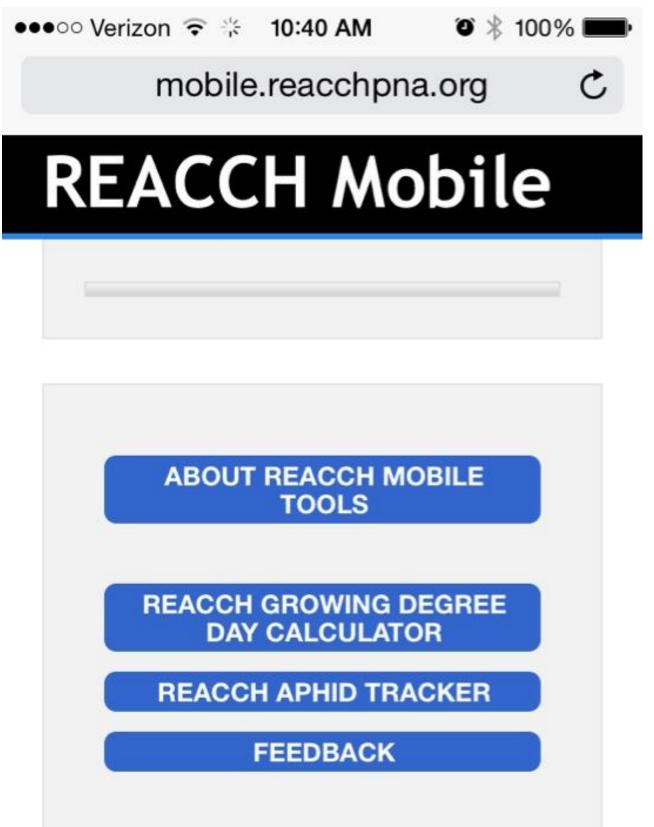
The use of location-based mobile applications for decision support has become increasingly popular among the agricultural community. The REACCH cyberinfrastructure team has developed a set of tools that a grower will be able to access on a mobile device out in their field, which will provide them with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

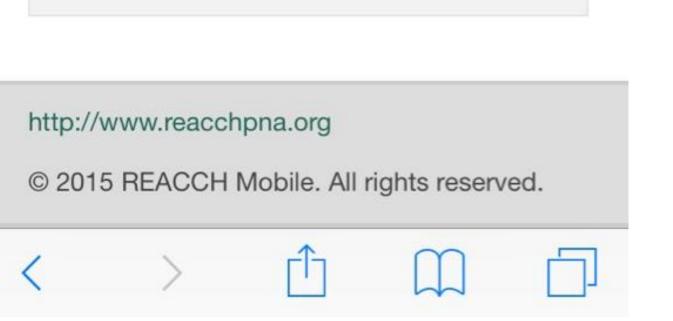
REACCH is funded through Award #2011-68002-

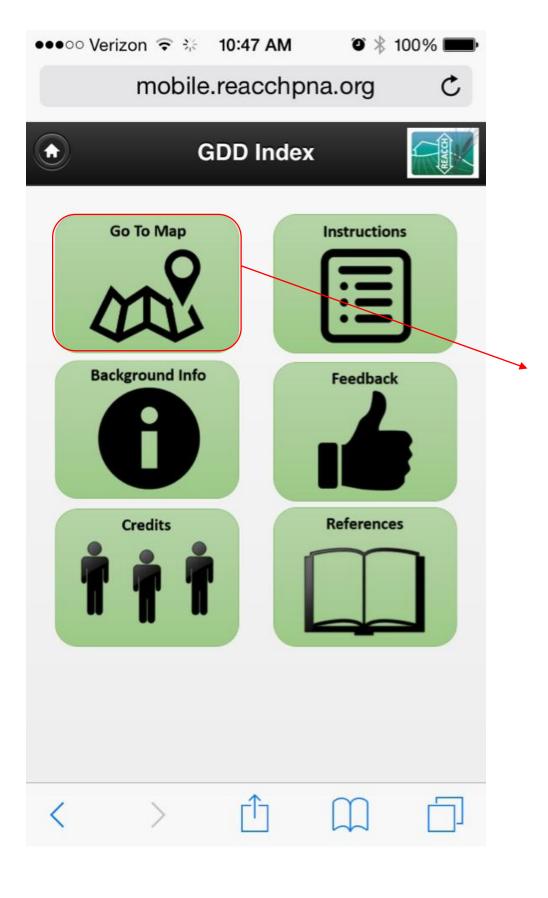
30191from USDA National Institute of Food and

Regional Approaches

to Climate Change –







Growing Degree Day

Developed primarily for wheat

The tool uses the number of

phenological information.

Allows the user to query the current

number of growing degree days for

any location within the continental

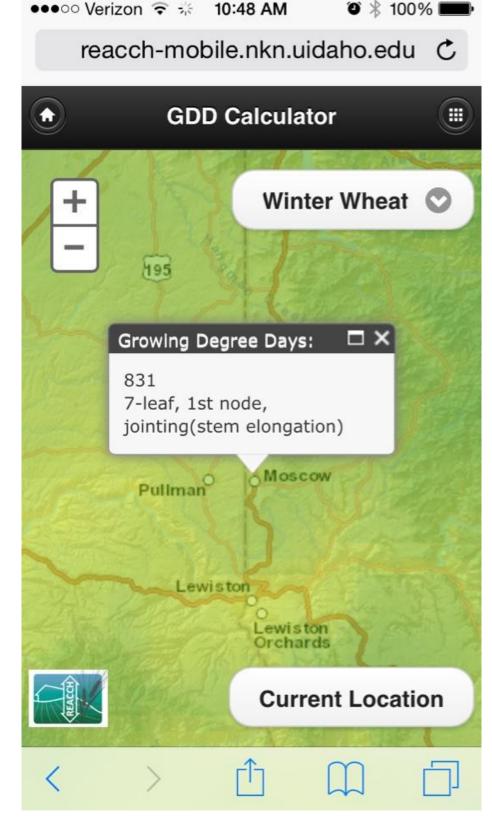
United States by clicking on a map.

growing degree days to provide

growers with critical insect/plant

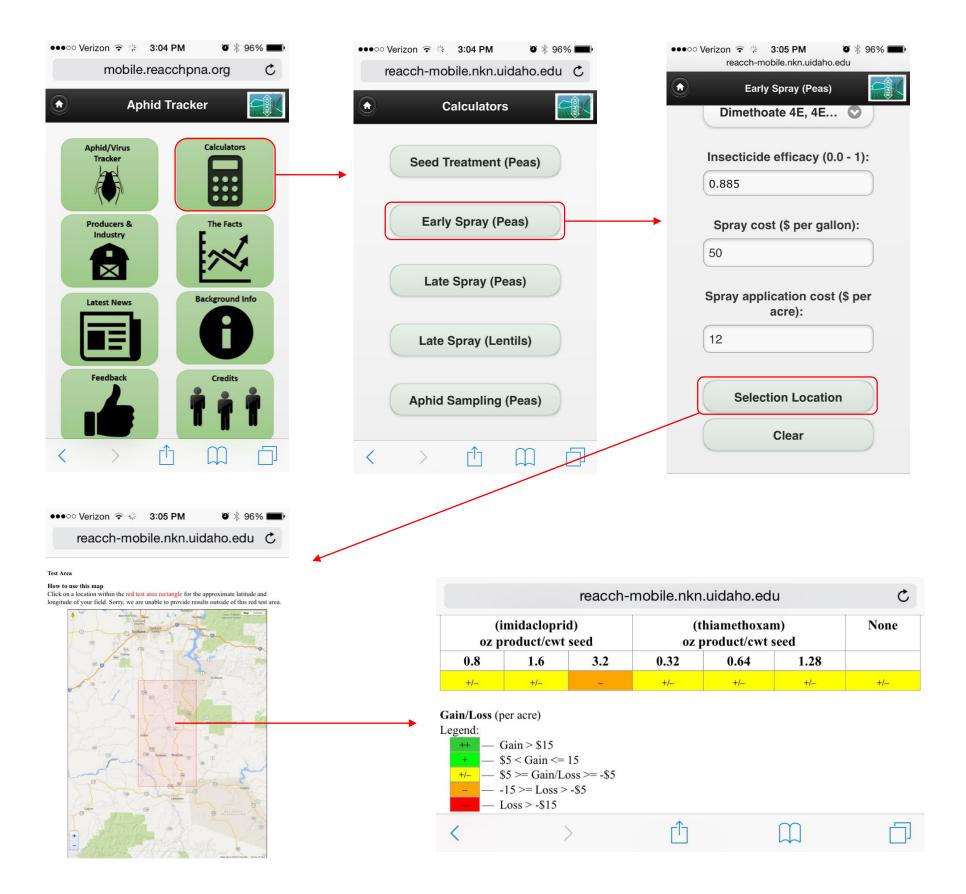
Calculator:

growers.



Aphid Tracker Mobile App

- Developed primary 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)

