

Agricultural Mobile Apps: A review and update of ID apps

In recent years, several institutions have developed mobile applications (or “apps”) for tablets and smartphones with the goal of providing a service to all end users. The agricultural sector has taken a similar path, producing new apps for mobile devices (so called “Ag-Apps”) for agricultural consultants and producers with educational materials and support tools. There is an increasing interest in these “Ag-Apps” and the use of new technologies for increasing the efficiency in communicating and decision-making.

This summary provides a review and update of the current status of Ag-Apps. To check the 2014-15 summary article see: [2014-15 Ag-Apps Summary](#)

Note: Most of the apps presented in this series of articles are free to download. Before paying for any app, please check online reviews or consult with any specialist working with that app or someone familiar with the app in order to understand its potential benefits and how it can assist you in your daily farming operation. As a general rule, an app needs to be “easy to use” and “intuitive.” Most apps do not come with a user guide or a manual. Take all these points into consideration before downloading and using apps.


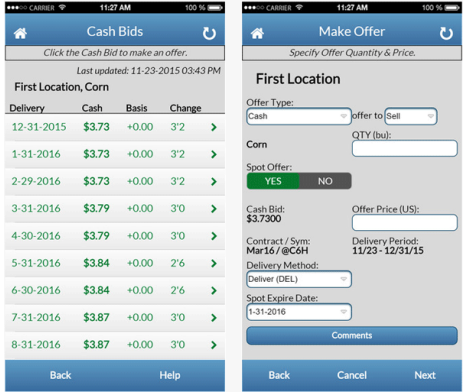

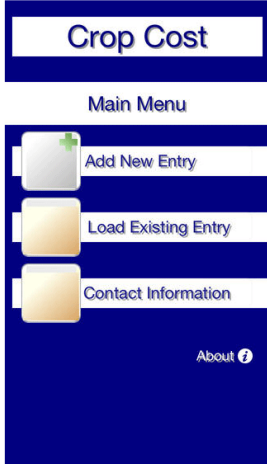
Ag-Apps Classification:

For this series of articles, Ag-Apps are grouped into the following ten classifications with the goal of dividing apps by their different uses and purposes:

- **ID Apps:** For identification purposes (weeds, insects, diseases, and nutrients)
- **CALC Apps:** For calculating purposes (nutrient removal calculations, tank mixes, volume to spray, etc.)
- **SCOUT Apps:** For scouting purposes or for geo-positioning (soil sampling, recording notes, soil types, etc.).
- **ECON Apps:** For checking grain prices, market evolutions, fertilizer price trends, news and finances.
- **GUIDE Apps:** For diagnosing crop production issues in the field, primarily related to field guides (crop management: insect, disease, weed, and more).
- **LIVESTOCK Apps:** Apps related to the animal side, nutrition, health, and information on markets.
- **IRRIGATION Apps:** Apps related to field crop irrigation and water application.
- **MACHINERY Apps:** Apps for associated with agricultural equipment preparation, inventory, providing information of the machine.
- **GAG Apps:** GAG (general Ag-Apps) for general use, weather-related, for meetings, for reading magazines, among several other Apps’ properties.
- **NON-AG Apps:** For general use from e-readers to calculators, email, calendar, picture editing, and more.

4. Economics Apps

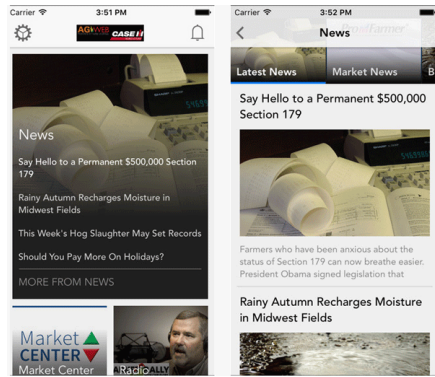
These apps are primarily utilized for checking grain prices, market evolutions, fertilizer price trends, news and finances.

MOBILE AGRICULTURAL APPS – REVIEW from KSUCROPS ©Kansas State University			
Economics Apps			
Name of App and Source	Picture	Brief description and cost	Download
<p>CHS – Grain Trading</p>  <p>Telvent DTN, LLC</p>		<p>This app is the solution for producers to receive the price of grain. You will be able to make, manage, and monitor your offers to sell.</p> <p>FREE</p>	<p>iOS</p> <p>Android</p>
<p>Crop Cost</p>  <p>Texas AgriLife Extension Service</p>		<p>Crop Cost is designed to help agricultural producers calculate their cost of production per crop unit, assisting them in executing a successful marketing plan.</p> <p>FREE</p>	<p>iOS</p>

AgWeb News & Markets



Farm Journal, Inc.



Get the latest agribusiness news and advice. Read ag management news, farm business blogs and articles from one trusted source.

FREE

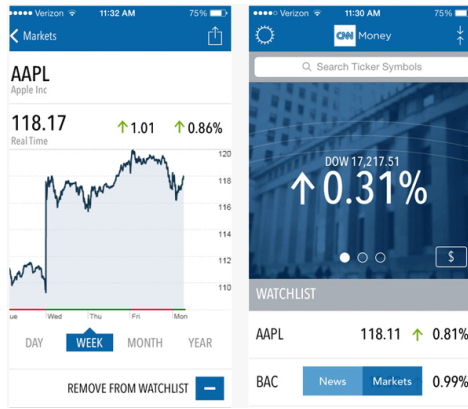
iOS

Android

CNN Money



CNNMoney.com



Keep up with real-time changes to your stocks and funds with a personalized Watchlist. Access the latest business news, key market trends and analysis.

FREE

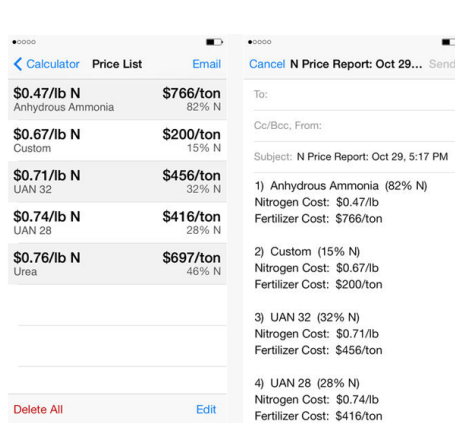
iOS

Android

N Price Calculator



Univ. of Wisconsin Nutrient and Pest Management Program



This app allows you to compare the price of various forms of nitrogen fertilizer products in terms of their price per pound of nitrogen.

FREE

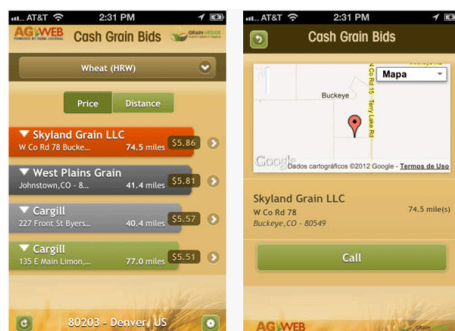
iOS

Android

Cash Grain Bids



Farm Journal, Inc.



See what your local grain elevators are paying. Simply input your ZIP code to find out cash bids and basis levels in your area. Get bids from not one, but five elevators closest to you.

FREE

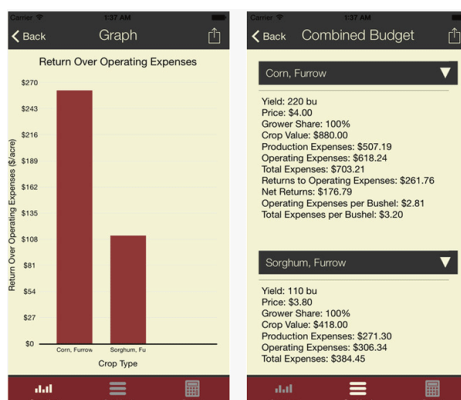
iOS

Android

CE Budgets



University of Arkansas



This app assists producers and other agricultural stakeholders in evaluating expected costs and returns for the upcoming field crop production year.

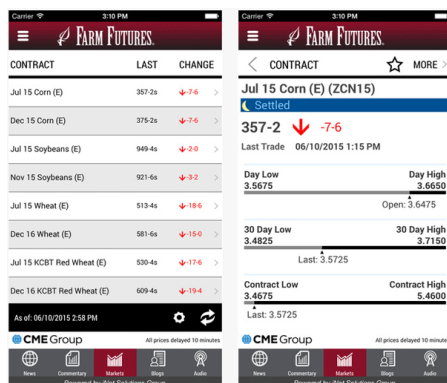
FREE

iOS

Farm Futures



iNet Solutions Group



This app features enhanced user-customized markets, market commentary, news and audio updated every business day.

FREE

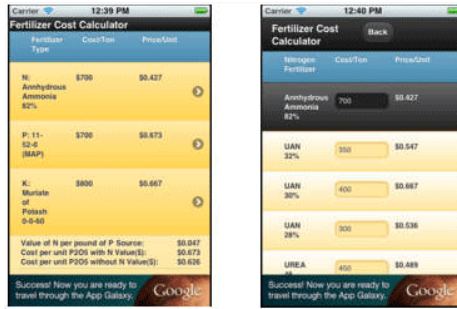
iOS

Android

Fertilizer Cost



Smith Farm Apps



This app estimates the value of Nitrogen per unit of Phosphorus source, along with the cost per unit of P2O5 with or without the Nitrogen value.

FREE

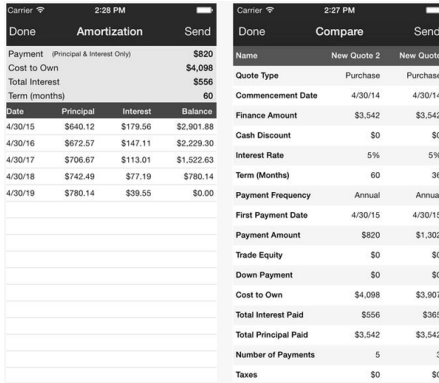
iOS

Android

AGDirect Mobile



Farm Credit Services of America



This app computes finance and lease quotes, including annual and semiannual payments.

FREE

iOS

Android

CVA Coop



Central Valley Ag



The CVA Coop app brings you real-time cash bid and futures prices, in addition to updated weather and the latest agricultural news.

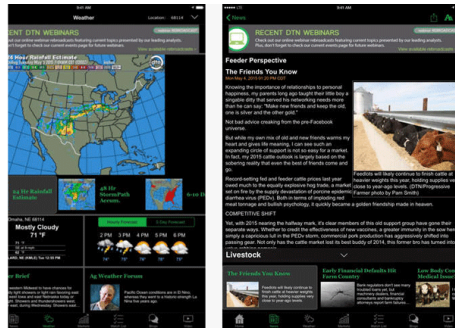
FREE

iOS

DTN/The Progressive Farmer



Telvent DTN, LLC



This app meets your information needs with access to award-winning agriculture news, commodity market data, and industry-specific weather intelligence.

FREE


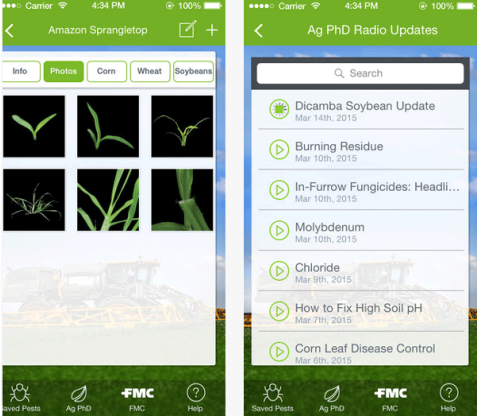
iOS

5. Field Guide Apps


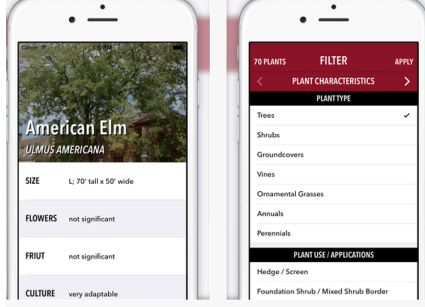



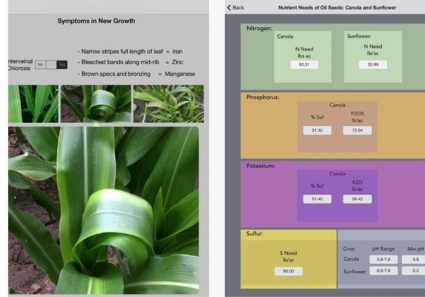

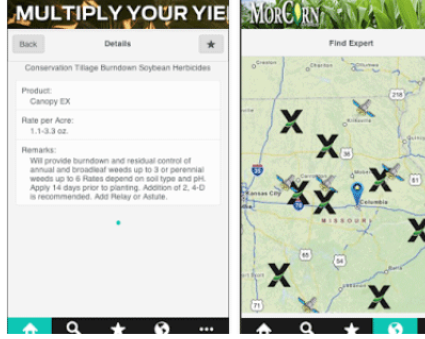
These apps are primarily utilized for assisting with certain decision-making processes (crop management: insects, diseases, weeds, and more).

MOBILE AGRICULTURAL APPS – REVIEW from KSUCROPS ©Kansas State University

Field Guide Apps




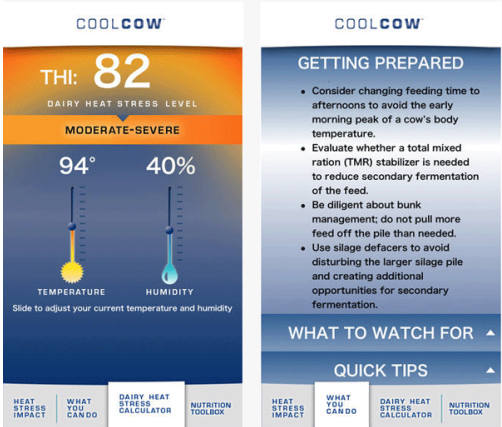
Name of App and Source	Picture	Brief description and cost	Download
<p>Ag-PhD Field Guide</p>  <p>Ag-PhD</p>		<p>This app allows you to browse weeds and insects by name and view photos. It also provides control recommendations.</p> <p>FREE</p>	<p>iOS</p> <p>Android</p>

<p>NDSU Pest Management</p>  <p>North Dakota State University</p>		<p>This app includes info from the NDSU Extension Weed, Disease, and Insect Management Guides; including best pest management options.</p> <p>FREE</p>	<p>iOS</p> <p>Android</p>
<p>Purdue Extension Corn & Soybean Field Guide</p>  <p>Purdue University</p>		<p>This app provides information for corn and soybean production, presenting a very complete field guide.</p> <p>\$12.99</p>	<p>iOS</p>
<p>NPIPM Soybean Guide</p>  <p>South Dakota State University</p>		<p>This app presents a field guide that provides management options for insect and other arthropod pests affecting soybeans.</p> <p>FREE</p>	<p>iOS</p>
<p>Turf ID Guide</p>  <p>Bayer Australia Ltd</p>		<p>This app provides detailed information on turf weeds, diseases, and insects. Presents a good database on imagery collection providing a quick identification of production issues.</p> <p>FREE</p>	<p>iOS</p> <p>Android</p>

<p>Hort Plants</p>  <p>University of Arkansas</p>		<p>This app provides an image collection and database presenting plant information that covers the mid-South region of the U.S.</p> <p>FREE</p>	<p>iOS</p>
<p>Seed Guide</p>  <p>AgReliant Genetics</p>		<p>This app provides information on seed purchasing decisions for corn, soybean, and alfalfa. Searchable database, easy to search by name, maturity, or seed trait.</p> <p>FREE</p>	<p>iOS</p>
<p>Field Guide</p>  <p>Oklahoma State University</p>		<p>This app presents nutrient removal values, a nutrient deficiency identification tool, and fertilizer calculations for most of the major crops.</p> <p>FREE</p>	<p>iOS</p>
<p>MFA Agronomy Guide</p>  <p>MFA Incorporated</p>		<p>This app provides market information related to major crops (corn, sorghum, wheat, soybean, rice, cotton) and pastures.</p> <p>FREE</p>	<p>iOS Android</p>

5. Livestock Apps

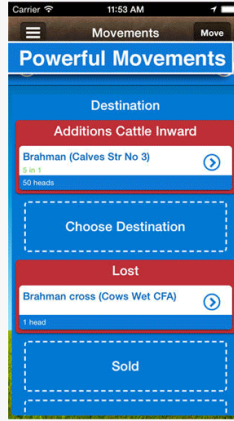
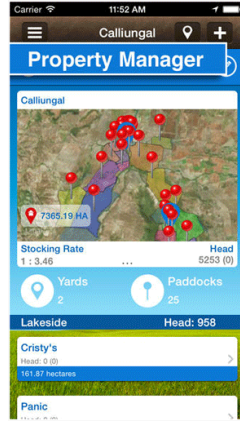
Apps related to livestock management topics, such as nutrition, animal health, and market information.

MOBILE AGRICULTURAL APPS – REVIEW from KSUCROPS ©Kansas State University			
Livestock Apps			
Name of App and Source	Picture	Brief description and cost	Download
<p>ThermalAid</p>  <p>University of Missouri</p>		<p>This app provides a decision-making tool to identify, monitor, and reduce heat stress in cattle to improve animal performance.</p> <p>FREE</p>	<p>iOS</p> <p>Android</p>
<p>Purina Cool Cow App</p>  <p>Purina Animal Nutrition LLC</p>		<p>This app provides dairy producers with a tool to help manage the impact of heat stress.</p> <p>FREE</p>	<p>iOS</p> <p>Android</p>

iHerd



MANDRA Ltd



iHerd app provides a design to simplify the herd management process for station owners and managers around the world.

FREE

[iOS](#)

[Android](#)

Angus Mobile



American Angus Association



The Angus Mobile app provides information for anyone with an interest in Angus cattle.

FREE

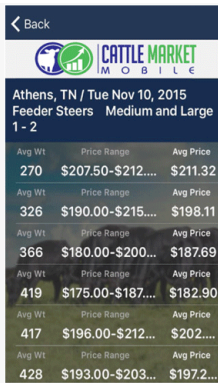
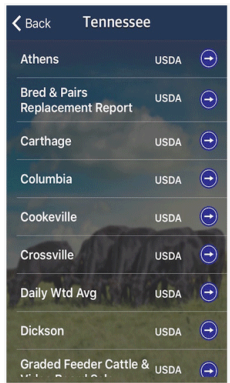
[iOS](#)

[Android](#)

Cattle Market Mobile



Michael Whitt



This app helps cattle producers monitor current auction prices. In addition, reports are also displayed.

FREE

[iOS](#)

[Android](#)

CropCents



Penn State University
(AGH Incorporated)



This app helps calculate the cost of raised feed, which is a better approach than using market prices to calculate income over feed costs.

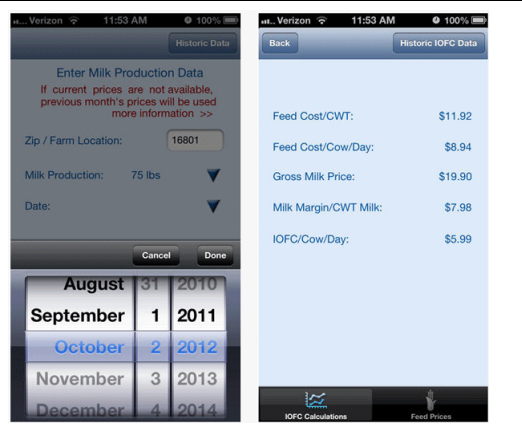
FREE

[iOS](#)

DairyCents



Penn State University
(AHG Incorporated)



This app provides a quick calculation of income over feed costs and price comparison of various forages, grains, and commodities.

FREE

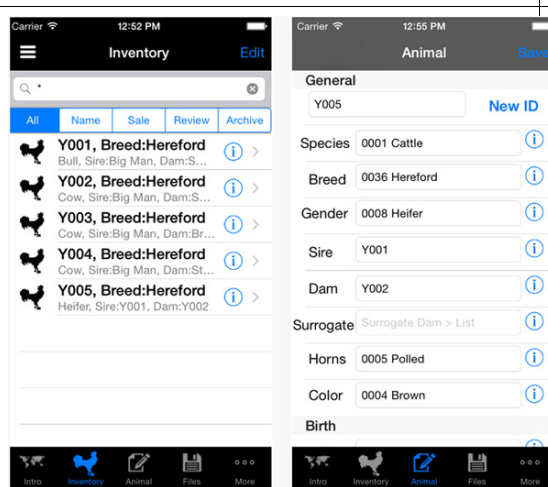
[iOS](#)

[Android](#)

iCattleMgrPro



iSimpleType



This app provides a tool for management of livestock. It covers more than 90 pieces of information about animal health.

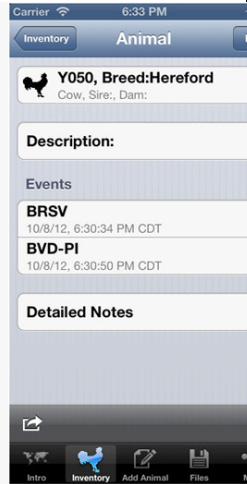
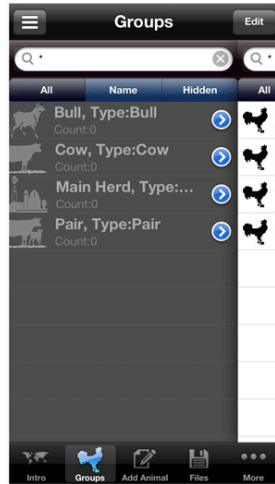
\$19.99

[iOS](#)

iLivestockMgr



iSimpleType



This app provides a tool for livestock management. It focuses on livestock in general.

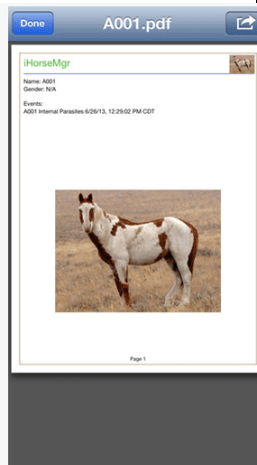
\$19.99

[iOS](#)

iHorseMgr



iSimpleType




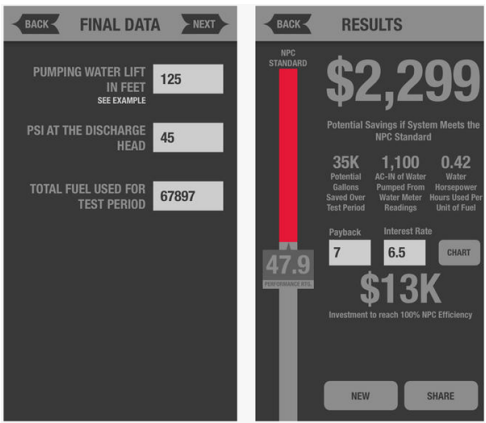

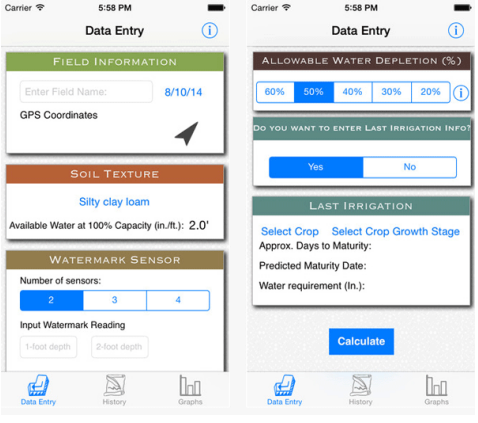
This app provides a tool for horse management operations.

\$9.99

[iOS](#)

6. Irrigation Apps

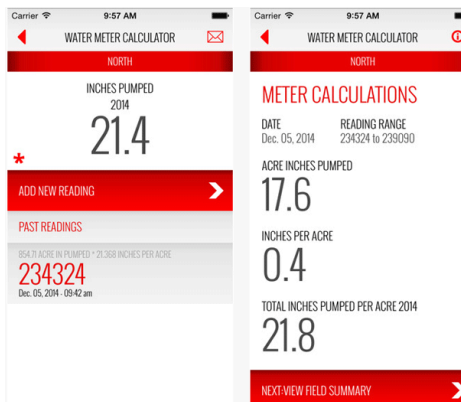
Apps for field crop irrigation and estimation of water needs.

MOBILE AGRICULTURAL APPS – REVIEW from KSUCROPS ©Kansas State University			
Irrigation Apps			
Name of App and Source	Picture	Brief description and cost	Download
<p>Irr. Pumping Plant Efficiency Calc.</p>  <p>University of Nebraska-Lincoln</p>		<p>This app provides assistance in calculating the efficiency and savings related to more efficient irrigation systems.</p> <p>\$3.99</p>	<p>iOS</p> <p>Android</p>
<p>Crop Water</p>  <p>University of Nebraska-Lincoln</p>		<p>This app provides an estimation of soil water status based on Watermark sensors installed at different soil depths. The app estimates water used.</p> <p>FREE</p>	<p>iOS</p> <p>Android</p>

Water Meter Calculator



University of Nebraska-Lincoln



This app provides an estimation of the total amount of inches of water applied by irrigation over time.

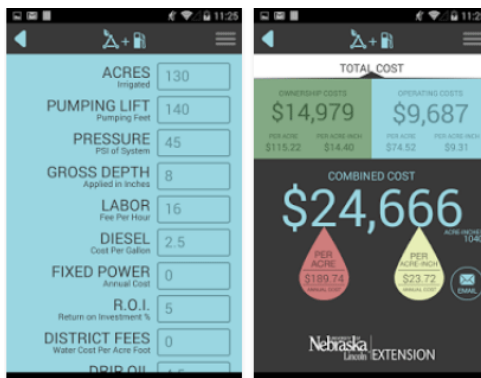
\$2.99

[iOS](#)

Agriculture Irrigation Costs



University of Nebraska-Lincoln



This app provides information on irrigation costs for the most commonly used systems. It also compares costs of various alternatives.

\$3.99

[iOS](#)

[Android](#)

FieldNET Mobile



Lindsay Sales & Service LLC



This app can be utilized to remotely manage your pivots, laterals, drip/micro-irrigation systems, and pumps. Users can quickly monitor irrigation equipment.

FREE

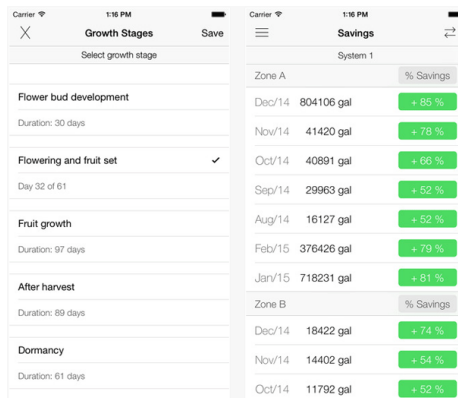
[iOS](#)

[Android](#)

Smartirrigation Avacado



AgroClimate



This app is designed to help avocado growers in Florida generate irrigation schedule recommendations based on real-time weather and short-term forecasted data.

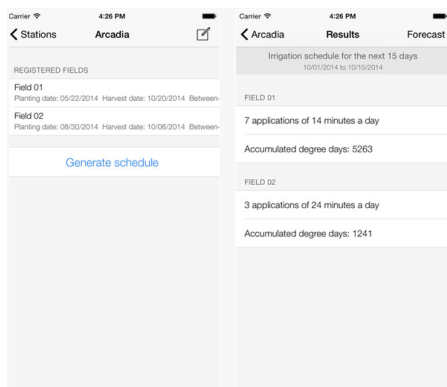
FREE

[iOS](#)

Smartirrigation Strawberry



AgroClimate



This app is designed to help strawberry growers in Florida generate irrigation schedule recommendations based on real-time weather and short-term data.

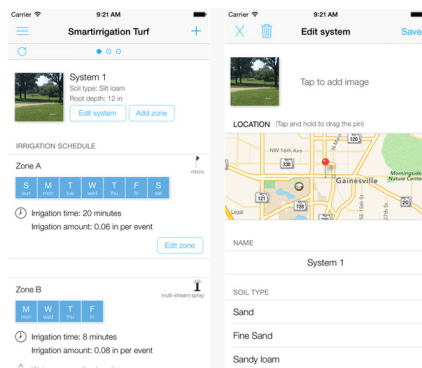
FREE

[iOS](#)

Smartirrigation Turf



AgroClimate



This app is designed to help urban turf irrigators in Florida and Georgia generate irrigation schedule recommendations based on real-time weather.

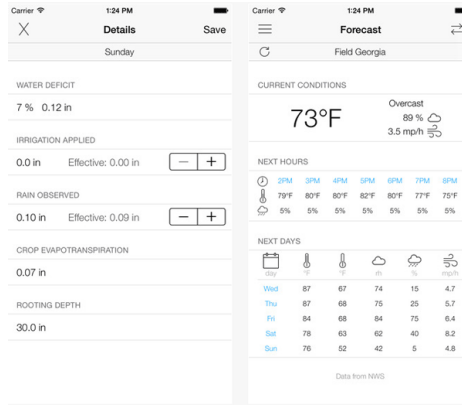
FREE

[iOS](#)

Smartirrigation Cotton



AgroClimate



This app is designed to assist cotton producers in Florida and Georgia irrigate cotton more efficiently.

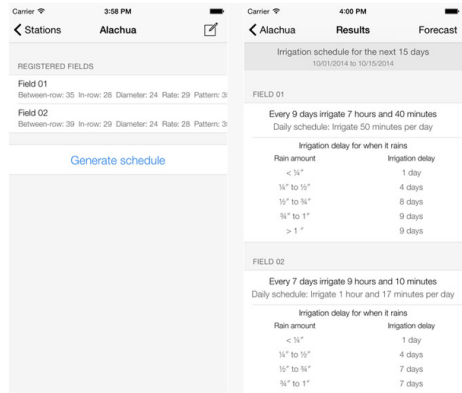
FREE

[iOS](#)

Smartirrigation Citrus



AgroClimate



This app is designed to help citrus producers in Florida to generate irrigation schedule recommendations.

FREE

[iOS](#)