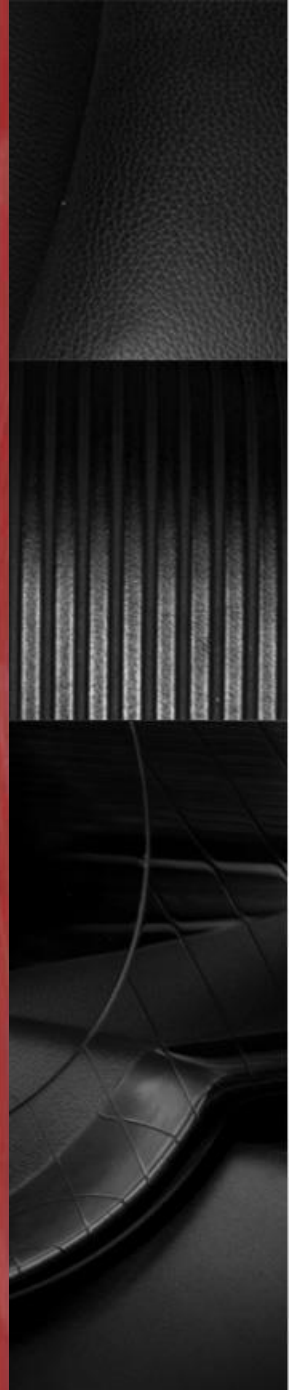


Devices, Methods and Apps to Communicate with Students

Josh Tjosaas-Northland Community and Technical College-Moorhead, MN

Mike Mastey-Ridgewater College- Belgrade, MN

We are going to highlight some of our favorite apps from our phones, internet and iPad along with some highly recommended ones.



My common websites, applications for smartphones, iPads for FBM

- Facebook
- Twitter
- LinkedIn
- Google Earth
- The Weather Channel
- Gas Buddy
- Excel Contacts
- Dropbox
- Voxel
- Ag Web
- Quicken Loan Calculator
- Tractor House
- Farm Futures
- Mix Tank 2.0
- Yield Check
- Farm at Hand
- Soil Web
- Planting Rate Estimator
- Cash Bids
- Growers Edge
- Climate
- Farm Logs



Other Recommended ones

- Spray Select
- Simple Farm
- Aphid Speed Scout
- ICropTrak
- Farm Manager
- Nutrient Removal
- Precision Earth
- Corn Planning Calculator
- JD Link
- Evernote
- Extreme Beans
- MRTN Calculator
- Bayer Weed Spotter
- Yara CheckIT
- Target Date
- Dairy Market Central
- Dairy Cents
- iHerd



Facebook



- Uses/Functions: Social Networking website, allows to keep personal contacts, can have business pages for marketing/farm promotion. Allows to send group messages or posts to promote or inform your students
- Downside is typically used more by younger generation and need to check Facebook for posts.
- Costs to download: Free
- iPhone, iPad, Android

Twitter

- Uses/Functions: Social media website allows you to share stories, pictures, videos on your feed. You can follow other groups, individuals helpful in your marketing, farm promotion, etc.
- Downside is need to understand lingo (#@). Limited number of characters allowed in a tweet (140).
- Costs to download: Free
- iPhone, iPad, Android



LinkedIn



- Uses/Functions: Networking with farmers, other agricultural professionals. Keep updated on latest industry news, learn about companies, view and save recommended jobs.
- Costs to download: Free
- iPhone, iPad, Android

Google Earth

- Uses/Functions: Allows your to search locations and gives real time updates along with 3D imagery of locations, farms.
- Costs to download: Free
- iPhone, iPad, Android



The Weather Channel



- Uses/Functions: Keep updated on current weather conditions along with forecast. Farmers can look at future temperatures along with predicted wind speeds, humidity, etc for spraying, field work. It also gives expected times for weather changes along with severe weather alerts.
- Costs to download: Free
- iPhone, iPad, Android

Gas Buddy

- Uses/Functions: Allows users to share and receive gas prices from local area and any other area you may be travelling too. It allows for interactive map and ability to sort by distance, prices, quality/diesel.
- Costs to download: Free
- iPhone, iPad, Android

One tap to find
cheap gas prices



Contacts<-> Excel



- Uses/Functions: It allows your to transfer contacts to and from your iPhone without iTunes. Provides hardcopy of contacts and backup of iPhone data.
- Costs to download: \$2.99
- iPhone, iPad

Dropbox

- Uses/Functions: It allows you to bring all your photos, documents, and videos anywhere and share them easily. You can access any file you save to your Dropbox from all your computers, iPhone, iPad, Dropbox website You can have farmers share records or information into your dropbox that are larger than emails allow.
- Costs to download: Free
- Pro -\$99.99
- iPhone, iPad, Android



Voxer/Voxer Pro



- Uses/Functions: Farmers or FBM can used to manage users in group, notifications, location tracking in real-time map. It has push to talk, recorded messages like a walkie-talkie, group chats, texts, offline messaging. Can be used as walkie-talkies on the farm.
- Costs to download: Free
- iPhone, iPad, Android

Ag Web

- Uses/Functions: Provides latest news (latest, crop, business, livestock), weather, markets, agWeb radio, weather alerts.
- Costs to download: Free
- iPhone, iPad, Android



Quicken Mortgage Calculator



- Uses/Functions: Primarily used to calculate monthly payments for home loans, refinance, amortization, home affordability. I have used to calculate loan costs for farmers without needing to have FinPack open.
- Costs to download: Free
- iPhone, iPad, Android

Tractor House



TractorHouse

- Uses/Functions: Machinery selling application. Allows people to find local prices/machinery. You can add items to watch list. It is sortable by auction results or for sale items by types of equipment/brands. I have used to find local prices for machinery values to put on balance sheet.
- Costs to download: Free
- iPhone, iPad, Android

Farm Futures

- Uses/Functions: It gives agricultural news, marketing commentary from FF experts, quotes, links to agricultural blogs and podcasts of market comments.
- Costs to download: Free
- iPhone, iPad, Android



Tank Mix Calculator

History Tank Mix Next

ACRES
500

TANK SIZE
1000

SPRAY VOL (GPA)
10

FARM LOGIC

- Uses/Functions: It allows farmer to generate a tank mix. You just enter acreage, tank size, and carrier volume, then you select your chemicals from their list or add your own. Then, it will provide you with the number of loads required to spray your acreage, along with full and partial load mixes of the chemicals.
- Costs to download: Free
- iPhone, iPad, Android

Yield Check

- Uses/Functions: Farmers can enter data of 3 ears of corn and calculate and store corn yield estimates (list and/or map). It also allows you to select by seed size for further yield estimate.
- Costs to download: Free
- iPhone, iPad



Farm at Hand



- Uses/Functions: Compatible between Smartphones, iPad, personal computers, can be stored locally and updated when in coverage area. You can record field lists, calendars, commodity storage, equipment list, utilities, commodity contracts, commodity status and delivery.
- Costs to download: Free
- iPhone, iPad

Soil Web

- Uses/Functions: It provides real time access to USDA-NRCS soil survey data based on GPS.
- Costs to download: Free
- iPhone, iPad, Android



Planting Rate Estimator



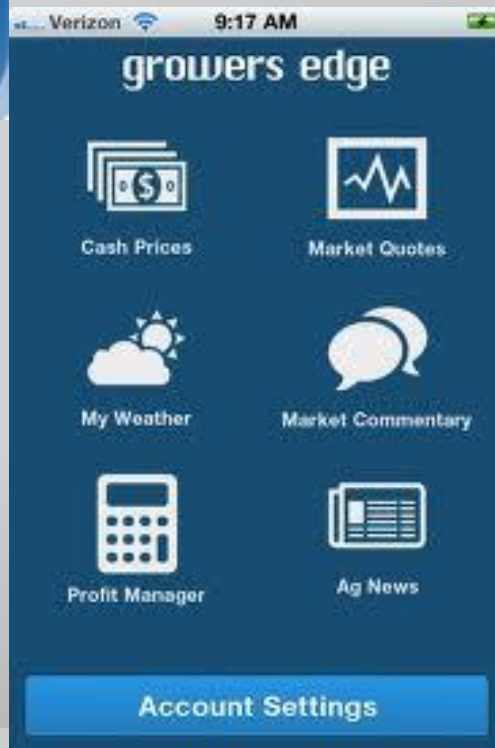
- Uses/Functions: It allows users to examine historical yield response curves to help estimate an optimum planting rate for Pioneer Brand Corn Products.
- Costs to download: Free
- iPhone, iPad

Cash Grain Bids

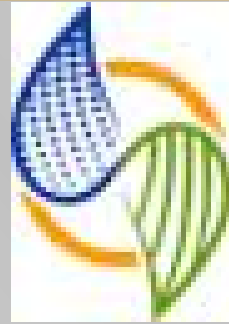
- Uses/Functions: You enter your zip code and able to find cash prices for 5 elevators closest to you.
- Costs to download: Free
- iPhone, iPad, Android



Growers Edge





















- Uses/Functions: It provides best and local cash prices within 100 miles adjusted for trucking and storage, also track favorite markets and local prices. It also has markets, commentary, pinpointed weather, profit manager and ag news. Has website to use for editing and sends updates to text for markets, local prices and price alerts.
- Costs to download: Free
- iPhone, iPad, Android



THE CLIMATE CORPORATION

Climate/Pro

- Uses/Functions: Climate provides weather, soil and crop data at a field level. It is also an online tracking and scouting tool. It aims to improve your production decisions while providing field and weather information it happens.
- Costs to download/Sign Up: Free for Basic, You can add pro for a \$15/acre for Corn and \$7.50 for soybeans.
- iPhone, iPad, Android

CLIMATE BASIC	CLIMATE PRO
 Field Workability	 Field Workability
 Weather	 Weather
 Field Details	 Field Details
 Alerts	 Alerts
 Scouting & Notes	 Scouting & Notes
 Reports	 Reports
	 Planting Advisor
	 Nitrogen Advisor
	 Pest & Disease Advisor
	 Harvest Advisor
	 Field Health Advisor
	 Revenue Advisor

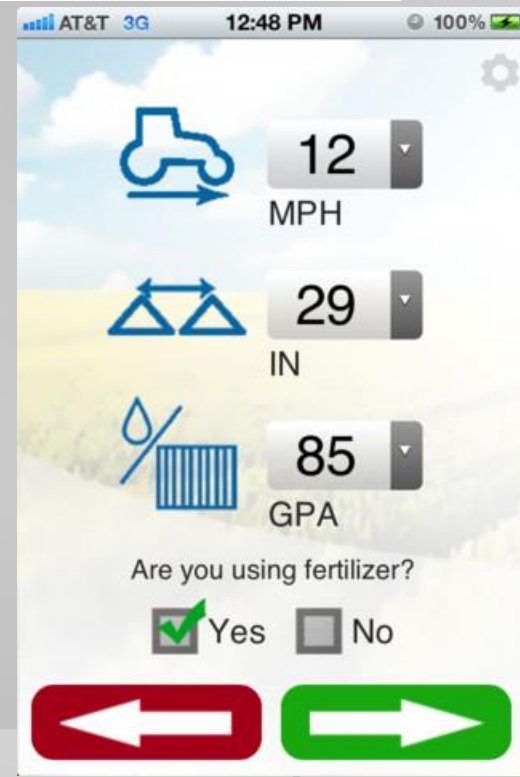
Farm Logs



- Uses/Functions: You can track calendar, budget, fields, Field activity, yields, storage, marketing sales, and management equipment. It also tracks weather, rain and emails updates.
- Costs to download/Sign Up: Free, possible added feature may cost in future.
- iPhone, iPad, Android

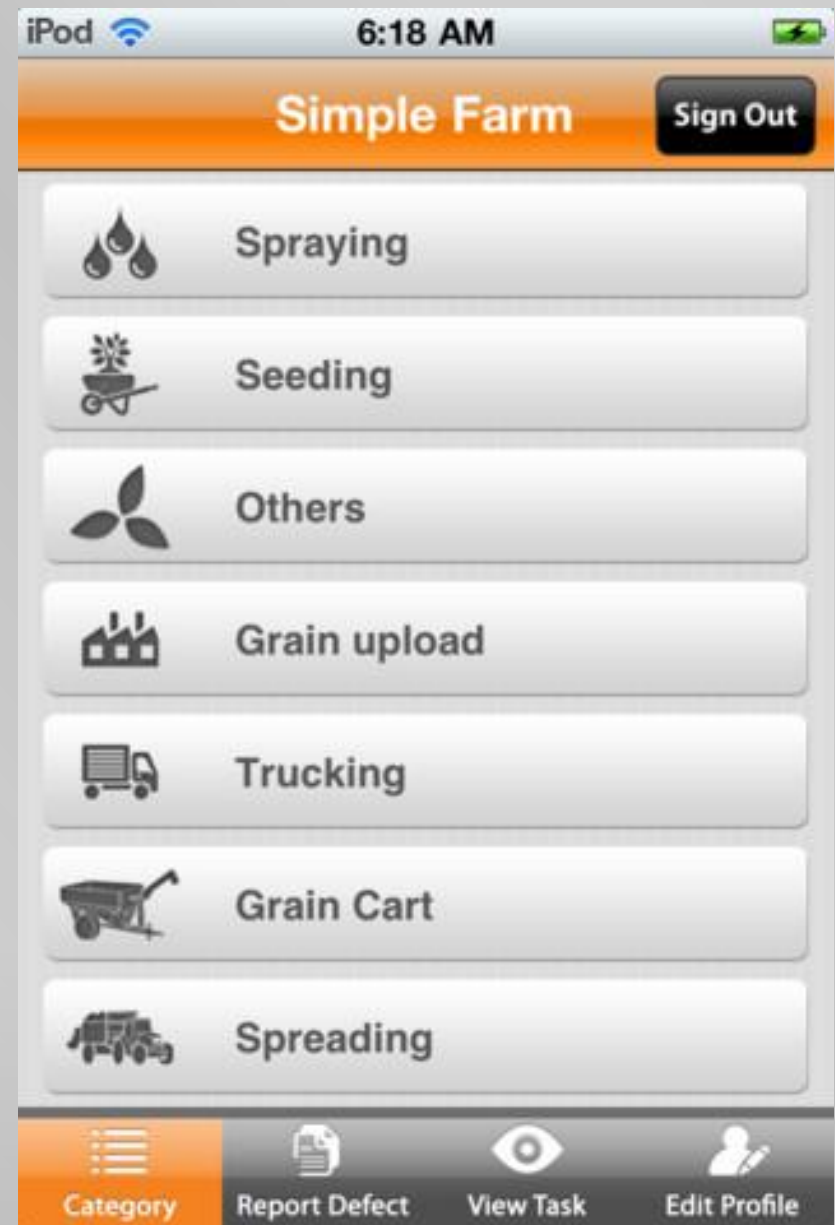
Spray Select

- Uses/Functions: It allows farmers to choose proper tip or nozzle for your application. You just enter speed, spacing and target rate, Select your drop size category and you have a list of tips that will work for your application.
- Costs to download: Free
- iPhone, iPad, Android

The logo for TeeJet Technologies, featuring the word "TeeJet" in a blue, stylized script font with a registered trademark symbol, and the word "TECHNOLOGIES" in a white, sans-serif font on a black rectangular background below it.

Simple Farm

- Uses/Functions: It tracks products, fields, bins, crops, seeding, harvesting, spraying, grain carts, spreading, trucking, etc. Workers can update tasks to farm account when completed.
- Costs to download: Free, additional features for \$299.99
- iPhone, iPad



Aphid Speed Scout



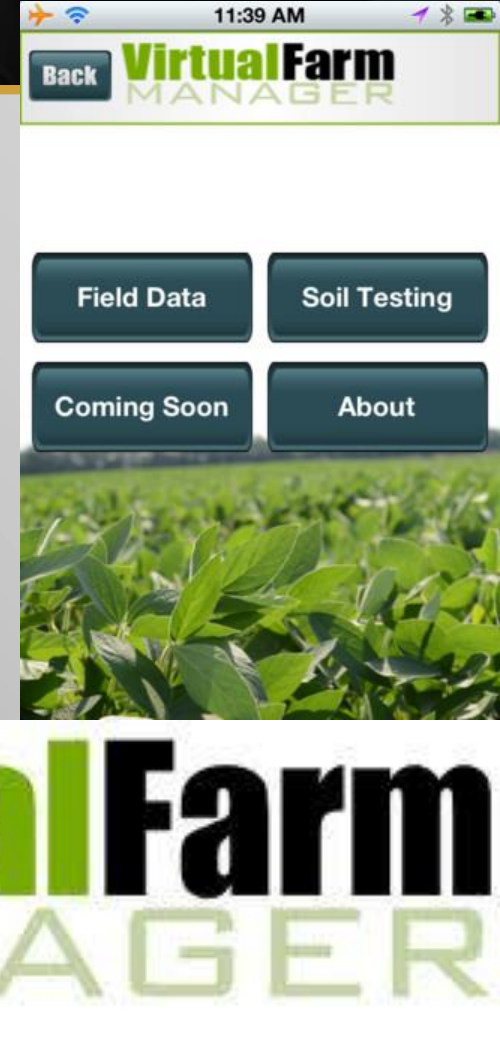
UNIVERSITY OF
Nebraska
Lincoln EXTENSIO

A screenshot of the Aphid Speed Scout mobile application interface. At the top, it shows 'Carrier' with a signal strength icon, the time '5:01 PM', and a battery level icon. Below this is a red navigation bar with three buttons: 'Enter Field Data', 'Enter Data', and 'Directions'. Underneath the navigation bar is a white button labeled 'Add to history'. The main area contains 11 numbered green buttons, each with a '0' on the left and a '1' on the right, representing a binary input for each plant. The buttons are arranged in three rows: the first row has buttons 1, 2, and 3; the second row has buttons 4, 5, and 6; and the third row has buttons 7, 8, and 9. Below these are buttons 10 and 11. At the bottom, there is a 'Total' label next to a yellow rectangular box, and a 'Result' label next to a red rectangular box.

- Uses/Functions: It is used to determine if aphids have reached the 250 aphid per plant threshold. It also provides recommendations for further scouting and treatment options based on the number of infested plants in a given area.
- Costs to download: Free
- iPhone, iPad

Virtual Farm Manager-from NDSU

- Uses/Functions: It allows to keep field records and field mapping.
- Costs to download: Free to download, \$1.00 for first month, \$65.00 after
- iPhone, iPad, Android



Nutrient Removal



- Uses/Functions: It allows you to test potential yields and receive crop-specific nutrient removal data. With the Nutrient Removal App, customizable nutrient removal data is available in the field, office or tractor . Downside is yields are pre-programmed for now, so may not fit your farm.
- Costs to download: Free
- iPhone, iPad, Android

Precision Earth

- Uses/Functions: It allows you to collect soil sample information.
- Costs to download: Free, Activation \$149.99
- iPhone, iPad



Corn Planting Calculator



- Uses/Functions: It provides real time useful calculations for the planting of corn from specific inputs resulting in the correct spacing of the corn being planted. Inputs such as population desired, cost per acre, seed counts and spacing in inches or metric.
- Costs to download: \$0.99
- iPhone, iPad

JD Link

- Uses/Functions: It allows you to monitor your equipment and efficiency of machines. The percent of horsepower utilized, fuel consumed, hours worked, and much more can be analyzed.
- Costs to download: Free
- iPhone, iPad, Android



Evernote

NYC restaurants and bars

28/07/2011 Restaurants Manhattan Little Owl
Locanda Verde Babbo La Esquina Ippudo Spice
Market Ma Peche Lupa Blue Hill Corton Minetta...

Slow-Baked Beans With Kal...

11/07/2011 Slow-Baked Beans With
Kale 1 bunch kale, stemmed and
washed in two changes of water 3...



Presentation slides

11/07/2011
Mountain View, Califo...



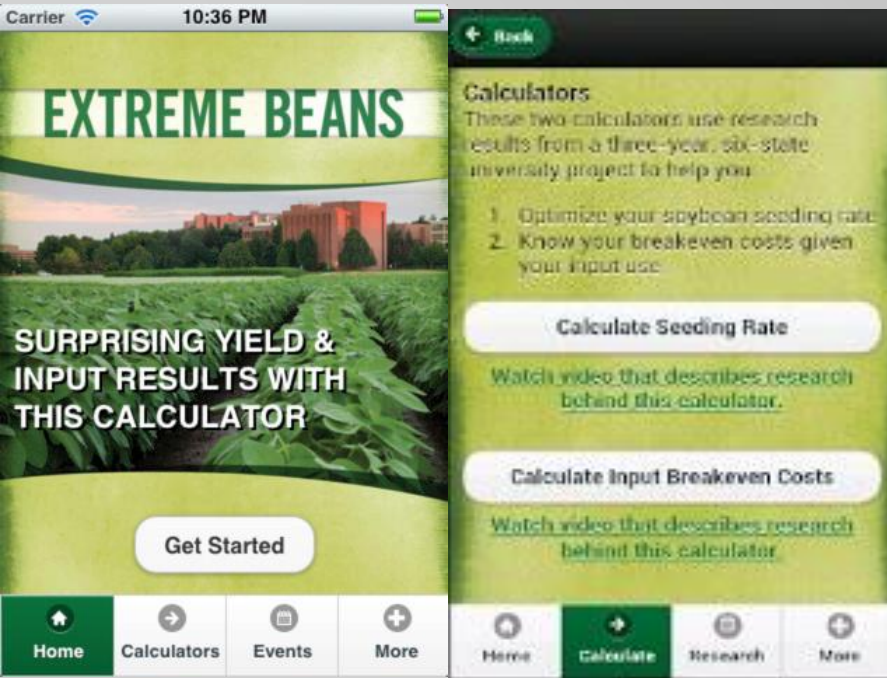
Squash Blossom and Burrat...

11/07/2011 Squash Blossom and
Burrata Pizza- Starting August Off
Right August 2nd, 2010 This squas...



- Uses/Functions: It lets you take notes, capture photos, create to-do lists, record voice reminders--and makes these notes completely searchable, whether you are at home, at work, or on the go.
- Costs to download: Free,
- Yearly subscription \$49.99
- iPhone, iPad, Android

Extreme Beans



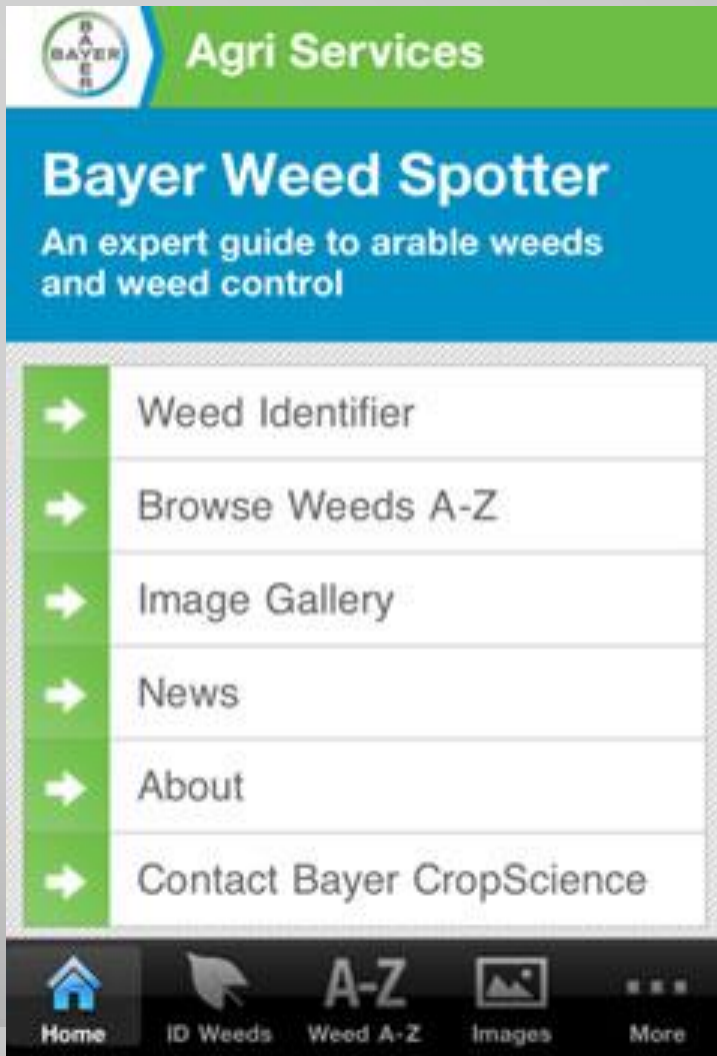
- Uses/Functions: From the United Soybean Board, allows soybean farmers to access recent soybean research from their mobile phone. It also has a calculator that allows you to calculate your required returns and most effective seeding rates in order to generate high yield results.
- Costs to download: Free
- iPhone, iPad, Android

MRTN Calculator

- Uses/Functions: It combines nitrogen research with economic fluctuations to determine a customized nitrogen rates.
- Costs to download: Free
- iPhone, iPad



Bayer Weed Spotter



- Uses/Functions: Based on the popular Bayer CropScience weed guide, this app allows users to make accurate identification of weeds using a unique interactive filtering system.
-]The app has color photos of nearly 100 common grass and broad-leaved weeds found in commercial crops.
- Grass-weeds can be identified by following a simple question and answer menu. Similarly, broad-leaved weeds can be identified by pinpointing one or more features on the plant and cross referencing it.
- Costs to download: Free
- iPhone, iPad



Yara CheckIT

- Uses/Functions: Using an extensive image library this app helps visually identify nutrient deficiencies in crops. It is specially designed to allow a simple and fast identification during in-field crop assessments.
- It also contains a search facility for identifying observed symptoms and provides solutions that the farmer can then implement on his crop.
- Costs to download: Free
- iPhone, iPad, Android, Windows Mobile

Target Date

- Uses/Functions: It allows you to set a target date given a start date & number of days of effort or work days. It may be useful for livestock producers with gestation calculations.
- Costs to download: \$0.99
- iPhone, iPad, Android

The screenshot shows a mobile application interface with a dark green background. At the top left, there is a button labeled "Click to Set Start Date". To its right, the current date "Thu Jan 27, 2011" is displayed. Below this, the text "Select End Date Below:" is shown. There are three date input fields: the first contains "Jan", the second contains "27", and the third contains "2011". Each field has a "+" sign above it and a "-" sign below it. Below the date fields, the day of the week "Thu" is displayed. At the bottom left, there is a button labeled "Click to calculate". At the bottom right, there is a label "# of Work Days" followed by a white box containing the number "0".

Dairy Market Central



- Uses/Functions: It provides the latest dairy news, markets, local prices, weather, lending information, and other resources.
- Costs to download: Free
- iPhone, iPad, Android

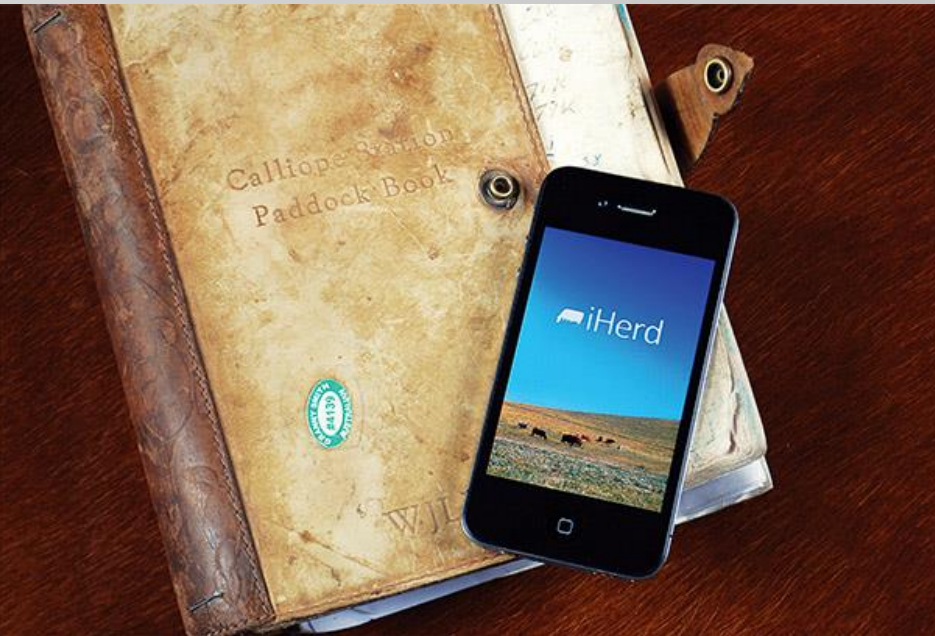
DairyCents

- Uses/Functions: It calculates income over feed costs and compares prices of various forages, grains and commodities to the Penn State Feed Price List.
- Costs to download: Free
- iPhone, iPad, Android

A screenshot of the DairyCents mobile application interface. The top status bar shows " Verizon", " 11:53 AM", and " 100%". Below the status bar, there are two buttons: "Back" and "Historic IOFC Data". The main content area displays a list of financial metrics for dairy operations. At the bottom, there is a navigation bar with two icons: a line graph icon labeled "IOFC Calculations" and a hand icon labeled "Feed Prices".

Feed Cost/CWT:	\$11.92
Feed Cost/Cow/Day:	\$8.94
Gross Milk Price:	\$19.90
Milk Margin/CWT Milk:	\$7.98
IOFC/Cow/Day:	\$5.99

iHerd



- Uses/Functions: It records cattle lost, cattle purchased and monitors treatment processes
- Costs to download: Free
- iPhone, iPad, Android

Pocket Mileage HD

- Track mileage by job, vehicle, date
- Reports can be emailed
- Calculates costs, record other expenses
- Costs to download: \$4.99
- iPhone, iPad

The screenshot displays the 'Trips' and 'Calendar' screens of the Pocket Mileage HD app. The 'Trips' screen shows a list of four trips for August 2011, with a total of 4 trips and 258.0 miles. The 'Calendar' screen shows a monthly view for August 2011, with a detailed view of August 10th showing two trips: 'Home - Company Client Meeting' (09:00 AM, One Way, 15.3 mi, \$7.80) and 'Company - Hotel Dinner With Clients' (12:20 PM, One Way, 22.0 mi, \$11.22).

Trips List:

Date	Time	Destination	Type
Thu 11	09:00 AM	Home - Company Client Meeting	One Way
Mon 08	12:10 PM	Home - Orphanage Do Service	
Sat 06	01:00 PM	Park - Hospital Child Injury	
Fri 05	08:00 AM	Home - Park Holiday	

Calendar View (August 2011):

Sun	Mon	Tue	Wed	Thu	Fri	Sat
31	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31	1	2	3

Calendar Detail (Aug 10):

Date	Time	Destination	Type	Mileage	Cost
Aug 10	09:00 AM	Home - Company Client Meeting	One Way	15.3 mi	\$ 7.80
Aug 10	12:20 PM	Company - Hotel Dinner With Clients	One Way	22.0 mi	\$ 11.22

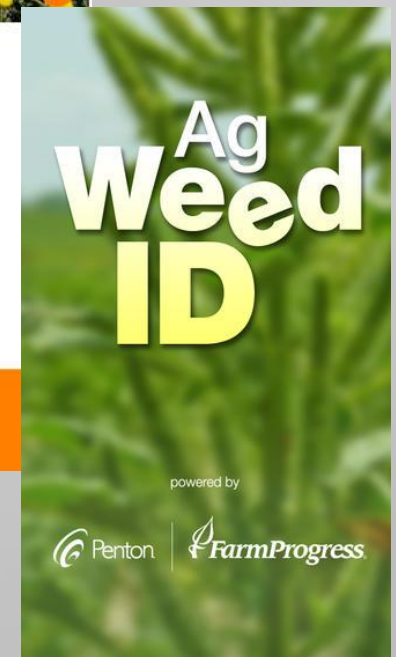
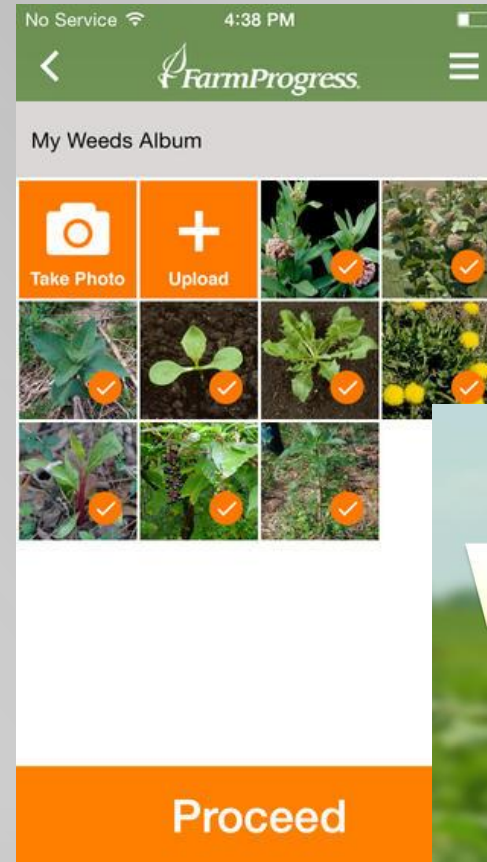
TimeStation

- Can be used like a time clock
- Pin or card scan for clocking in or out
- Reports based on employees, departments, activities
- Cost: Free
- iPad, iPhone



Ag Weed ID

- Compare your photo of a weed to database
- Can search by crop, season location
- Cost: Free
- iPhone, iPad, Android



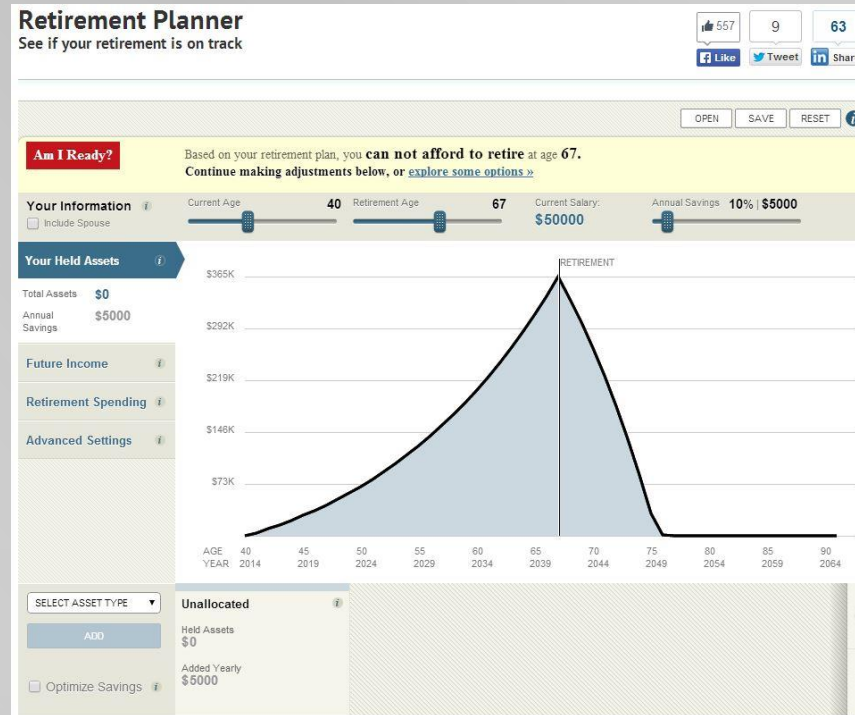
Team Viewer

- Can view or take control of another computer via web
- Can be used for meetings up to 25 people
- Free for personal use, fee for commercial use
- Apple or PC products



Smart Money Retirement Planner

- Calculate needed savings by
 - Age
 - Money set aside
 - Assets
 - Forecasts
 - Graphs
- Cost: Free
- iPhone, iPad, Android



Growing Degree Days



- Gives you current and historical growing degree units in a geographical location
- Cost: Free
- iPhone, iPad, Android

IPM Tool Kit

- Videos, pictures twitter feeds on the latest activities in IPM
- Tools and recommendations for IPM activities



- Cost: Free
- iPhone, iPad, Android

iPad
100%

IPM Publications

Fungicide Resistance Management in Corn, Soybean and Wheat in Wisconsin (A3878)

Pest Management in Wisconsin Field Crops – 2013 (280 pages)

Corn and Soybean herbicide mode of action chart

What's on your seed?

UW IPM Field Crop Scouting Manual (large file, 15mb)

Crop Scouting Weed Guide -eBook

Crop Scouting Weed Guide – PDF

Corn Trait Selection table

Wisconsin BiolPM Carrot workbook

Nematodes: The overlooked yield robbers in corn and soybean

Herbicide-MOA-CornSoy-3parts

Corn and Soybean Herbicide C

Repeated use of herbicides w site of action can result in the d herbicide-resistant weed po

By Mode of Action (effect or

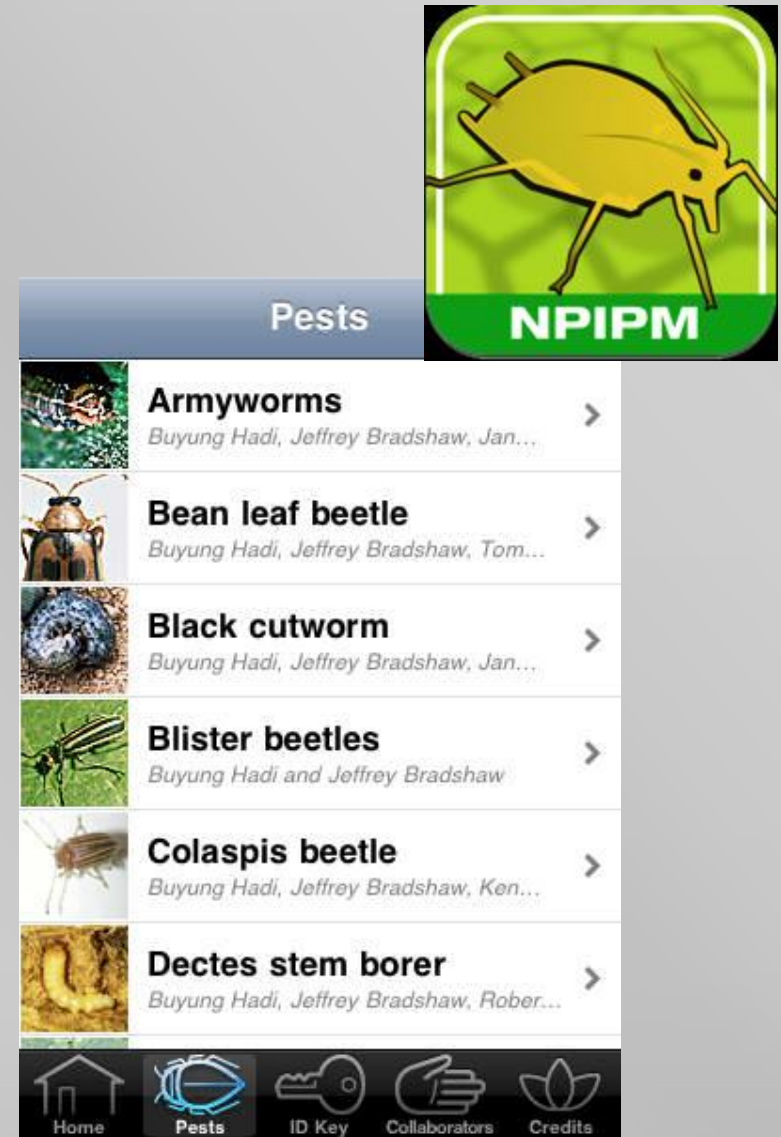
This chart groups herbicides by their modes of a selecting herbicides 1) to maintain greater diver: 2) to rotate among herbicides with different site: development of herbicide resistance.

The Site of Action Group is a classification system developed by the Weed Sci

Site of Action Group	Chemical Family	Herbicide	Mode of Action	Resistant Weed Species
1	ALS Inhibitors (acetolactate synthase)	glyphosate	Classic	Common Amaranth
		glufosinate	Classic	Common Amaranth
		pyraflufen	Classic	Common Amaranth
		pyraflufen	Classic	Common Amaranth
2	ALS Inhibitors (acetolactate synthase)	glyphosate	Classic	Common Amaranth
		glufosinate	Classic	Common Amaranth
		pyraflufen	Classic	Common Amaranth
		pyraflufen	Classic	Common Amaranth

NPIPMDGuide

- Pest Management guide
- Includes ID Key, recommendations for thresholds, treatments
- Cost: Free
- iPhone, iPad, Android



Crop Calc

- Corn and Silage Estimators
- Converters for moisture and price adjustments on silage
- Estimator for days to harvest

- Cost: Free
- iPhone, iPad, Android

The screenshot shows the 'Silage Moisture Cost Adjuster' app interface. At the top, there is a status bar with various icons and the time '12:35 PM'. Below the title bar, the app is divided into four quadrants. The top-left quadrant is labeled 'Negotiated moisture (%)' and contains a large number '65'. The top-right quadrant is labeled 'In-field moisture (%)' and contains a large number '62'. The bottom-left quadrant is labeled 'Negotiated price (\$/ton)' and contains a large number '45' which is highlighted with an orange border. The bottom-right quadrant is labeled 'Calculated price (\$/ton)' and contains a large number '\$48.86'. At the bottom of the screen, there are two buttons: 'Email report' on the left and 'Help' on the right.

Field	Value
Negotiated moisture (%)	65
In-field moisture (%)	62
Negotiated price (\$/ton)	45
Calculated price (\$/ton)	\$48.86

agIndex

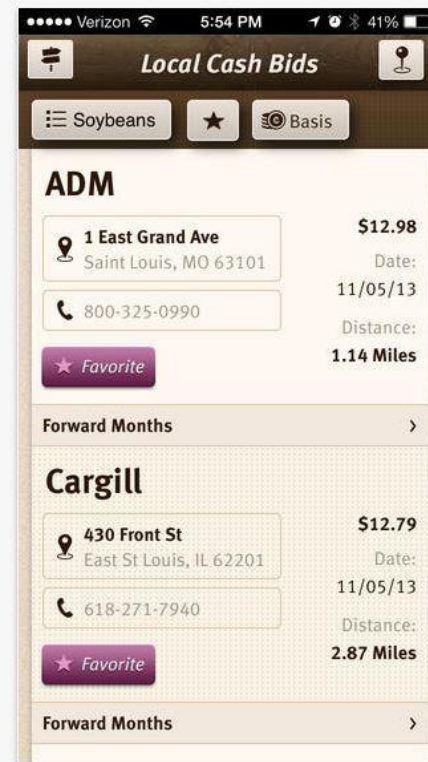
- News
- Weather
- Agronomy Info
- Pest Management Alerts
- Cost: Free
- iPhone, iPad, Android



agExchange

- Markets
- Local Cash Bids
- Cash Sales
- Options
- Futures
- Cost: Free
- iPhone, iPad, Android

Screenshots



Finance.Calc (Calc Apps Limited)

- Multiple financial calculators for
 - Mortgages
 - Savings requirements
 - Affordability
- Cost: Free
- iPhone, iPad



Quick Scan

- Barcode and QR Code Scanner
- Links to web page
- Quick access to web pages, product comparisons

- Cost: Free
- iPhone, iPad, Android



FaceTime

- Video or Phone chat
- Quick and easy connections
- Cost: Free
- iPhone, iPad, Android

