

iPads for Extension Educators

Wayne Ohnesorg

Extension Educator

University of Nebraska-Lincoln Extension

Nebraska Background

- **Pilot Group Fall 2010**
 - ~30 Extension Faculty
 - Received iPad and a mobile hotspot
 - Challenged to find uses for iPads
- **All Extension Faculty Summer 2011**

Why Apps?

- Without apps smartphones are just another phone
- Tablets can't do much
- Apps have the power to:
 - Entertain
 - Educate
 - Workhorses



www.apple.com

iPad

3:28 PM

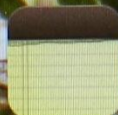
99%



Calendar



Contacts



Notes



Maps



Videos



YouTube



iTunes



App Store



Settings



FaceTime



Camera



Photo Booth



Google



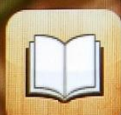
Connect



UNL...marks



Skype



iBooks



iWork



Safari



Mail



Photos



iPod

Mailboxes

Inbox (27)

Edit

Search Inbox

Phillips, hired in Agronomy-Horticulture. He...

Twig Marston

10:12 AM

To pierce county bug sample

Good morning, I think someone sent a bug identification sample to Pierce county office...

Linda M Tempel

10:02 AM

Reminder: UNL Extension Social Medi...

Reminder: UNL Extension Social Media in Agriculture Webinar On June 27 from 10:30...

Linda M Tempel

10:02 AM

Cc Reminder: UNL Extension Social...

Reminder: UNL Extension Social Media in Agriculture Webinar On June 27 from 10:30...

Elizabeth Ann Greene

9:03 AM

[NACAA] 2011 NACAA Futuring Survey

Dear NACAA member, NACAA created a "Futuring Committee" over five years ago to...

today@UNL.EDU

7:00 AM

Today@UNL I Student group service...

Campus Activities for Friday, June 24, 2011 Problem viewing? Click here to read...

HPCC Online

6:15 AM

HPCC_Daily_Autopilot_24Jun11_X

6/24/2011 CROP WATER USE SUMMARY
Ending on 6/23/2011 GDD @ Matur.=Acum...**Gary W Lesoing**

Yesterday

Re: SARE Listening Session

Hi Everyone, Below is a brochure and news release about a SARE Listening Session th...

Ronnie Green

Yesterday

Re: Brad Lubben named 2010 ACE Co...



Updated 6/24/11 3:29 PM



From: Linda M Tempel

Hide

To: Exted@listserv.unl.edu

Cc: rkoelsch@unlnotes.unl.edu

DKAHL1@UNL.EDU

Jennifer M Rees

Wayne J Ohnesorg

AMOELLER1@UNL.EDU

Reminder: UNL Extension Social Media in Agriculture Webinar

June 24, 2011 10:02 AM

Mark as Unread

Reminder: UNL Extension Social Media in Agriculture Webinar

[On June 27 from 10:30 a.m. to noon](#) CST we will offer a Social Media in Agriculture webinar for Extension faculty and staff. Jenny Rees, Dennis Kahl and Wayne Ohnesorg will share with you how they are currently using social media in their work, or what apps or websites that are out there that might be of use to all of you as you do your daily work.

Instructions for connecting to this webinar are as follows:

At the meeting time ([June 27 from 10:30 a.m. to noon](#)), simply click on the following link or copy and paste it into your browser to enter the meeting:

<http://connect.extension.iastate.edu/nebraska>

Phone Number: [866-433-4616](tel:866-433-4616)

Passcode: 882477

When you go to that URL you will find yourself at a login page. Simply enter your name under the "Enter as a Guest" heading. Click on "Enter Room." The instructions



Norfolk, NE (68701)



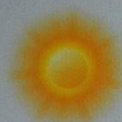
Roca, NE (68430)



79°



Right Now



Sunny

78° F

Current Temperature

Feels Like: 79°
Wind: SE at 14 mph
Humidity: 54%
UV Index: 8 Very High
Dew Point: 60°
Visibility: 10 mi
Sunrise: 5:55am
Sunset: 9:09pm

Hourly ▶

Next 36 Hours

Tonight



Scattered T-Storms

62°

Low

Partly to mostly cloudy with a chance of thunderstorms. A few storms may be severe. Low 62F. Winds SE at 10 to 15 mph. Chance of rain 40%.

Tomorrow



Scattered T-Storms

79°

High

Partly to mostly cloudy skies with scattered thunderstorms mainly in the morning. A few storms may be severe. High 79F. Winds ESE at 10 to 15 mph. Chance of rain 50%.

Tomorrow Night



Isolated T-Storms

65°

Low

Isolated thunderstorms during the evening, then partly cloudy overnight. A few storms may be severe. Low around 65F. Winds SE at 5 to 10 mph. Chance of rain 30%.

Tonight 6/24



Sct T-Storms

High
62°
Low

Precip: 40%
Wind: SE at 12 mph

Humidity: 74%
Sunrise: 5:55AM
Sunset: 9:09PM

Saturday 6/25



Sct T-Storms

79°

High
65°
Low

Precip: 50%
Wind: ESE at 11 mph

Humidity: 76%
Sunrise: 5:55AM
Sunset: 9:10PM

Updated: Fri Jun 24, 3:29 PM CDT

**Announcing
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iPad™ app.**

Smart app. Smarter banking.

Tap to see what's new »



Bank of America

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MEMBER FDIC

Google
Newman

Video forecast for Norfolk

CENTRAL



Maps



Local



Video



Severe



Social



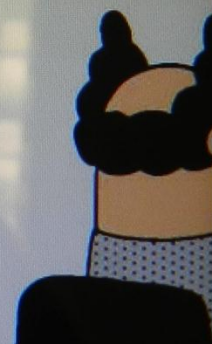
On TV

I WANT YOU TO
USE "BLACK HAT"
METHODS TO RAISE
OUR WEBSITE'S
RANKING ON SEARCH
ENGINES.



Dilbert.com DilbertCartoonist@gmail.com

WHAT
BEST
IDEA —
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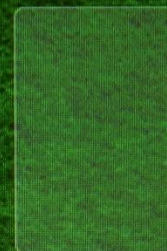


Menu

Scores

Solitaire

New



Duration 00:00

Moves 0

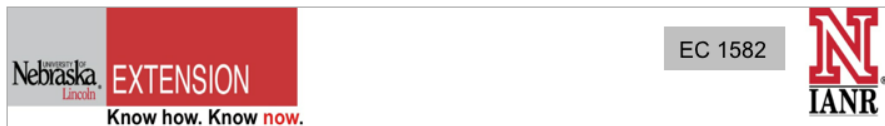
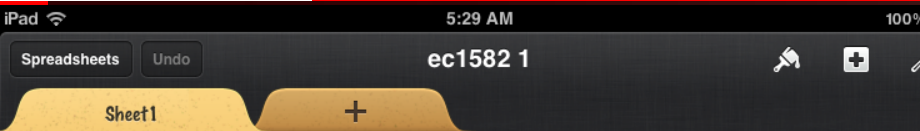


Scouting Spreadsheets

- Take advantage of Excel and Apps that can run Excel files
 - Examples
 - Numbers (Apple version of Excel)
 - Think Free Office (does not run on iPad; use for Droid)
- Crop pest specific

Scouting Spreadsheets

- **EC available**
 - **Soybean Aphid Speed Scouting Spreadsheet**
 - **EC1582**
 - **2nd Gen. European Corn Borer Scouting Spreadsheet**
 - **Non-*Bt* Corn**
 - **EC1584**
 - **Western Bean Cutworm Speed Scouting Spreadsheet**
 - **EC1585**
- **Reviewed**
 - **Soybean Defoliation**
- **Others under development and/or consideration**



Soybean Aphid Speed Scouting Spreadsheet

Wayne J. Ohnesorg, Extension Educator; Thomas E. Hunt, Extension Entomologist; and Robert J. Wright, Extension Entomologist

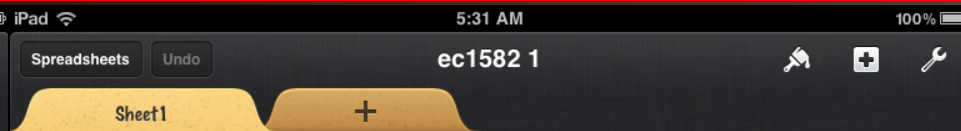
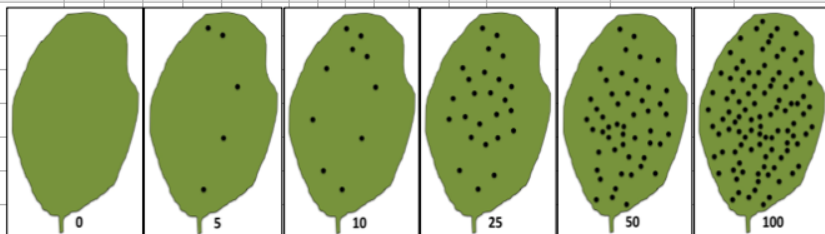
This spreadsheet is designed to be used in the field on mobile devices, allowing the user to make management decisions immediately after scouting. Speed scouting is one method for determining whether soybean aphids have reached the treatment threshold of 250 aphids per plant. It relies on the number of "infested" plants rather than estimating the number of aphids on each plant. Plants are considered "infested" if there are 40 or more aphids on the plant. After inputting your field information, the spreadsheet will suggest the next step: "Resample in 7-10 days," "Sample 5 more plants," or "Treat, confirm in 3-4 days."

Directions

GREEN cells are for input and **PINK** cells are the output.

- 1) Pick the first plant at random at least 30 rows or paces from the edge of the field and count the aphids present. If you reach 40 aphids (you can stop counting at 40), mark the appropriate box with a "1" to signify the plant is infested. Mark it with an "0" if there are less than 40 aphids.
- 2) Choose the next plant in a random direction at least 30 rows or paces from the previous plant.
- 3) Repeat Steps 1 & 2 until the first 11 plants have been counted.
- 4) The Pink box will tell you if you need to resample in 7-10 days, sample more plants, or if treatment is recommended. If treatment is recommended, the field should be scouted again in 3-4 days to confirm that treatment is needed.

Estimating leaf infestation. Use these example leaves as a guide for estimating the number of soybean aphids on leaves in the field.



Field Name: **Example1**

Date:

7/17/12

1	1	1	1	1	1	0	1	1	1	1	10	Sample 5 more plants
1	2	3	4	5	6	7	8	9	10	11		
1	1	1	1	1							15	Treat, confirm in 3 to 4 days
12	13	14	15	16							15	
17	18	19	20	21							15	
22	23	24	25	26							15	
27	28	29	30	31							15	
											0	
1	2	3	4	5	6	7	8	9	10	11	0	
12	13	14	15	16							0	
											0	

Date:

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next→

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2

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0

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next←

Ag Apps

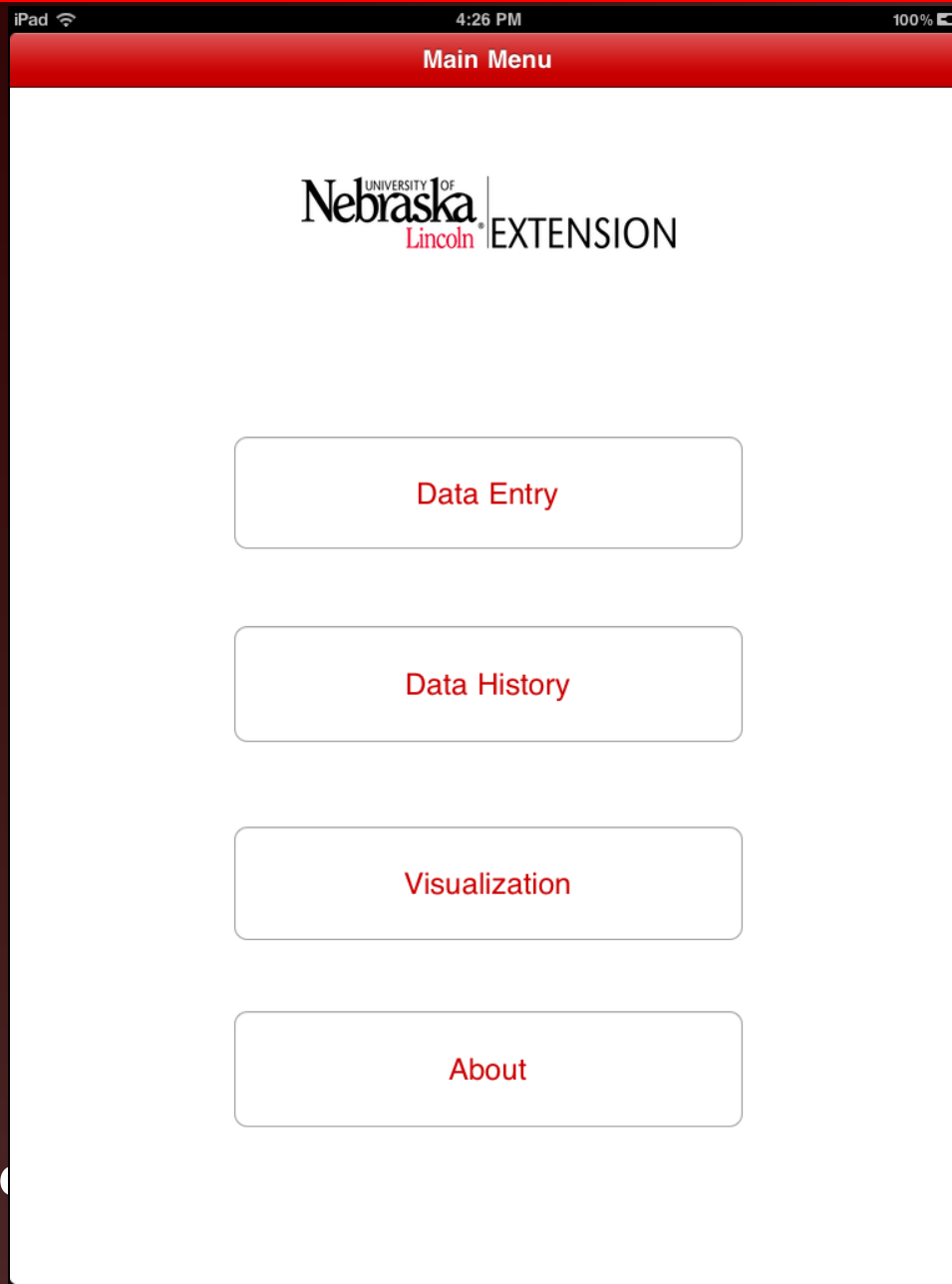
- **“NPIPM Guide”**
 - **Good resource for soybean insect pests**
- **“Corn N Rate”**
 - **Wisconsin**
- **“Pesticide applications”**
 - **TankMix**
 - **Spray Lite**
 - **MobileAg**
 - **Tank Calculator**

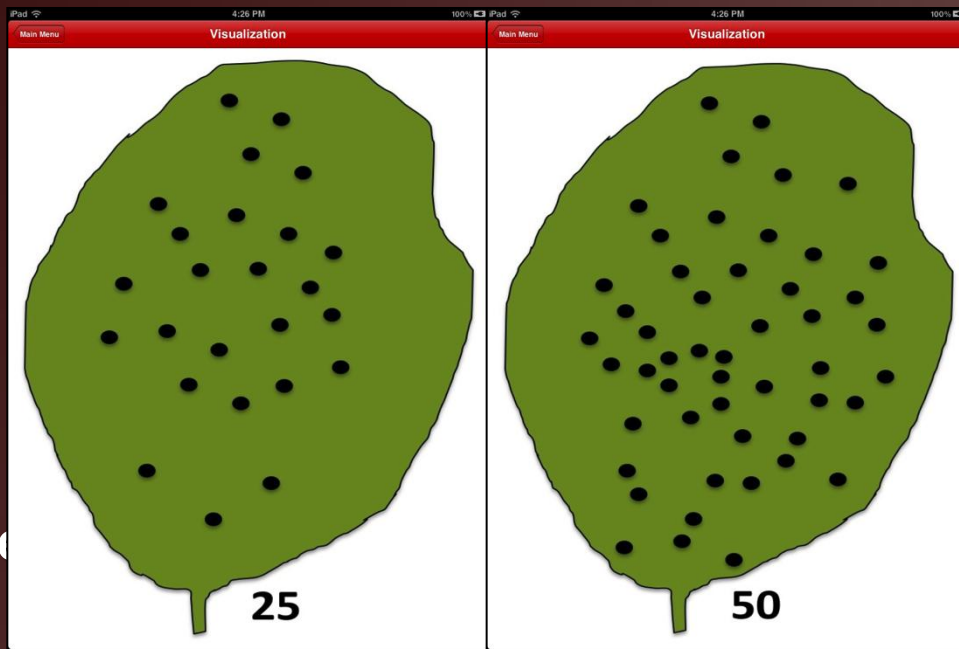
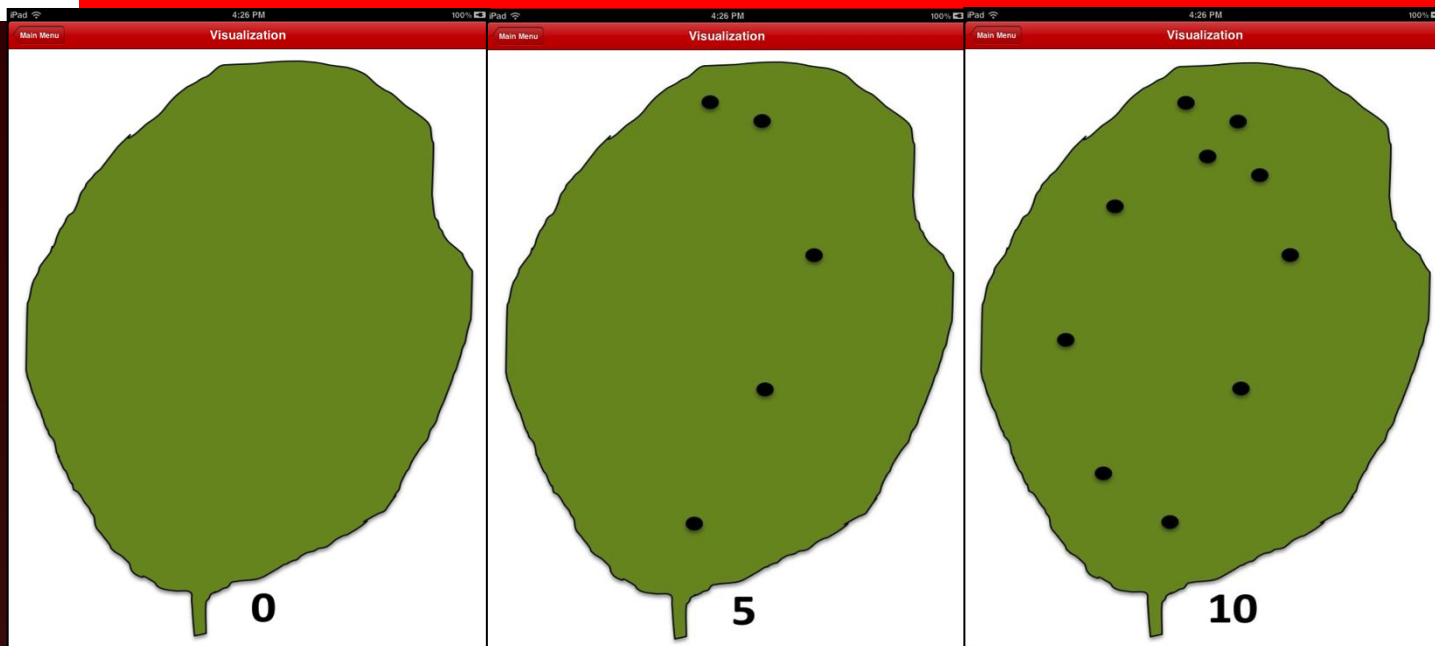
Ag Apps

- “YieldCheck”
 - Corn yield estimator
- “Thistles”
 - SD Cooperative Extension
- “Agro Lite”
 - Scouting
- ESRI ArcGIS
- Soy Diseases
 - SD Cooperative Extension

Crop Scouting Apps

- Aphid Speed Scout
- Western Bean Cutworm





iPad 4:26 PM 100%

[Main Menu](#) Enter Field Data

Speed scouting is one method for determining whether soybean aphids have reached the treatment threshold of 250 aphids per plant. It relies on the number of "infested" plants rather than estimating the number of aphids on each plant. A plant is considered "infested" when there are 40 or more aphids on that plant. After inputting your field information, the app will suggest the next step: "Resample in 7-10 days," "Sample 5 more plants," or "Treat, confirm in 3-4 days."

Field name:

Size:

[Go!](#)

iPad 4:26 PM 100%

Enter Field Data

Enter Data

Directions

Add to history

Sample	1	2	3	4	5	6
	<div>01</div>	<div>01</div>	<div>01</div>	<div>01</div>	<div>01</div>	<div>01</div>
Sample	7	8	9	10	11	
	<div>01</div>	<div>01</div>	<div>01</div>	<div>01</div>	<div>01</div>	
Total	<div>8</div>					
Result	<div>Sample 5 more plants</div>					
						Show next 5

iPad 4:26 PM 100%

Enter Field Data

Enter Data

Directions

Add to history

Sample	1	2	3	4	5	6
	<div>01</div>	<div>01</div>	<div>01</div>	<div>01</div>	<div>01</div>	<div>01</div>
Sample	7	8	9	10	11	
	<div>01</div>	<div>01</div>	<div>01</div>	<div>01</div>	<div>01</div>	
Total	<div>8</div>					
Result	<div>Sample 5 more plants</div>					
						Show next 5

Sample	12	13	14	15	16	
	<div>01</div>	<div>01</div>	<div>01</div>	<div>01</div>	<div>01</div>	
Total	<div>8</div>					
Result	<div></div>					

Enter Field Data

Enter Data

Directions

Add to history

Sample	1	2	3	4	5	6
	<div>0 1</div>	<div>0 1</div>	<div>0 1</div>	<div>0 1</div>	<div>0 1</div>	<div>0 1</div>
Sample	7	8	9	10	11	
	<div>0 1</div>	<div>0 1</div>	<div>0 1</div>	<div>0 1</div>	<div>0 1</div>	
Total	<div>13</div>					
Result	<div>Sample 5 more plants</div>					
	<div>Show next 5</div>					
Sample	12	13	14	15	16	
	<div>0 1</div>	<div>0 1</div>	<div>0 1</div>	<div>0 1</div>	<div>0 1</div>	
Total	<div>13</div>					
Result	<div>Sample 5 more plants</div>					
	<div>Show next 5</div>					

Enter Field Data

Enter Data

Directions

Add to history

Sample	1	2	3	4	5	6
	<div>0 1</div>	<div>0 1</div>	<div>0 1</div>	<div>0 1</div>	<div>0 1</div>	<div>0 1</div>
Sample	7	8	9	10	11	
	<div>0 1</div>	<div>0 1</div>	<div>0 1</div>	<div>0 1</div>	<div>0 1</div>	
Total	<div>13</div>					
Result	<div>Sample 5 more plants</div>					
	<div>Show next 5</div>					
Sample	12	13	14	15	16	
	<div>0 1</div>	<div>0 1</div>	<div>0 1</div>	<div>0 1</div>	<div>0 1</div>	
Total	<div>13</div>					
Result	<div>Sample 5 more plants</div>					
	<div>Show next 5</div>					
Sample	17	18	19	20	21	
	<div>0 1</div>	<div>0 1</div>	<div>0 1</div>	<div>0 1</div>	<div>0 1</div>	
Total	<div>13</div>					
Result	<div>Resample in 7-10 days</div>					
	<div>Set Reminder</div>					

iPad 4:29 PM 100%

Enter Field Data Enter Data Directions

Add to history

Sample	1	2	3	4	5	6
	<div>0 1</div>	<div>0 1</div>	<div>0 1</div>	<div>0 1</div>	<div>0 1</div>	<div>0 1</div>
Sample	7	8	9	10	11	
	<div>0 1</div>	<div>0 1</div>	<div>0 1</div>	<div>0 1</div>	<div>0 1</div>	
Total	19		Result Sample 5 more plants			Show next 5
Sample	12	13	14	15	16	
	<div>0 1</div>	<div>0 1</div>	<div>0 1</div>	<div>0 1</div>	<div>0 1</div>	
Total	19		Result Sample 5 more plants			Show next 5
Sample	17	18	19	20	21	
	<div>0 1</div>	<div>0 1</div>	<div>0 1</div>	<div>0 1</div>	<div>0 1</div>	
Total	19		Result Treat, confirm in 3 to 4 days			Set Reminder

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**YOU CAN
WIN!
ENTER NOW**

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10 Best Mobile Agriculture Apps For 2012

Mobile apps for agriculture are spreading like wildfire and making ag professionals more efficient at their jobs.

March 15, 2012
By Matt Hopkins



Email



Print



4



Tweet

90



Like

60

UPDATED: April 19, 2012

Ag retailers — and agriculture professionals at large — are starving for mobile agriculture apps that can help them do their jobs better. They can't get enough them.

I can certainly relate. I recently attended the [National Farm Machinery Show](#) (NFMS) in Louisville, KY, armed with just a video camera and my BlackBerry loaded with the show's mobile app. Without the app, I could have wandered aimlessly through the maize-like exhibit halls with little or no hope of meeting my scheduled interviews. Instead, using the app's interactive exhibitor map I was able to easily navigate the largest indoor farm show — 1.2 million square feet of exhibit space, to be exact — in the country. Kudos to the NFMS for creating the app — it was a real time (and leg) saver.

Whether you shop in the mobile app store for your smartphone or tablet, or simply search on Google, you are likely to come across more apps for agriculture than you ever imagined. That's the main reason I originally wrote the column — "20 Best Mobile Apps For Agriculture" — to help you sort out the ever-growing number of apps being introduced to our industry. And based on an overwhelming response from you (it's THE most viewed article on CropLife.com), it's time for a new list. If an app missed the cut the first time, or has been improved since then, I likely included it in this newly researched list of 10 best mobile apps for agriculture:

1. Aphid Speed Scout. This app from the University of Nebraska-Lincoln Extension quickly determines if soybean aphids have reached the 250 aphids per plant threshold. Plants are considered "infested" if there are 40 or more aphids on that sample. The app also recommends further scouting or treatment options based on the number of infested plants in a given area. (iPhone, iPad, iPod Touch)

2. Optimizer 2.0. Farmers can better predict corn yields using this site-specific app developed by Advanced Ag Solutions. Optimizer 2.0 provides farmers with data through a daily text message and a web login portal. Messages include the projected corn yield for each acre on their farm. Projections are made based on variety of seed, soil type, weather data and other limiting factors. (Available on most mobile devices)

3. YieldCheck. Developed by Precision Planting, YieldCheck provides growers with a simple way to calculate and store corn yield estimates. Users can organize estimates based on client, farm and field. They can also see the location of all of their estimates on a map with satellite imagery. For example, users can simply enter kernel counts for three ears of corn and reveal the amount of bushels they can expect this fall. (iPhone, iPad, iPod Touch)

Related

- 20 Best Mobile Apps For Agriculture
- 5 Mobile Use Trends Shaping Ag Retailers
- Precision Laboratories Mix Tank App Now Available Online
- iPad App Helps Scout For Soybean Aphids
- 7 Most Compelling People In U.S. Agriculture
- Top 10 Ag Retail Websites You Have To Visit
- 7 Revenue Trends Impacting Ag Retail's Top 100
- Introducing Our New Web Site
- 8 Common Myths Of New Technology
- Twitter 101

Pegasus

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U.S. Fertilizer Outlook



The Freedonia Focus Reports

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TODAY!****FARM
CHEMICALS
INTERNATIONAL****6 - 8 August 2012**

Trade Summit

Creating Mobile Tools

- Excel
- Programming language
- IT

Helpful hints

- **With Excel**
- **Apps**
- **Finding apps**
 - **www.appshopper.com**
- **UNL Extension Publications**
 - **<http://www.ianrpubs.unl.edu/epublic/pages/index.jsp>**

Questions

A person wearing a red polo shirt, a tan baseball cap, and khaki pants is crouching in a field of dense green plants. They are holding a tablet computer in their left hand and pointing at the screen with their right hand. The field is a vast expanse of green, leafy plants, likely a crop field. In the background, there is a line of trees and a small white building on a hill under a cloudy sky.

wohnesorg2@unl.edu

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