

Going Virtual: IT Tools to Enhance Water Quality Education with Farmers

Dr. Heather Darby

www.uvm.edu/extension/cropsoil/



[UVM Home](#)[UVM Extension](#)[Northwest Crops and Soils Program](#)[About the Northwest Crops and Soils Team](#)[Forages](#)[Grains](#)[Oilseeds](#)[Hops](#)[Soil Health and Nutrient Management](#)[Organic Farming](#)[Events and Calendar](#)[Videos](#)[Out Croppings](#)[What's Hopping](#)

Welcome

NW CROPS & SOILS PROGRAM

Follow us:  

The mission of the [UVM Extension Northwest Crops and Soils Team](#) is to provide the best and relevant cropping information, both research-based and experiential, delivered in the most practical and understandable ways to Vermont farmers.

OUT CROPPINGS: Important crop news from the field!

Northern Corn Leaf Blight Once again, We have seen increased Northern Corn Leaf Blight (NLB) pressure in our area. Northern leaf blight is a fungal disease found in humid climates wherever corn is grown. Click [here](#) to download entire article.

Cereal Grain Testing comes to the Green Mountains! UVM Extension Northwest Crops and Soils Team Grain Quality Laboratory is up and running! Our lab is currently accepting samples and will continue to do so until December 1, 2010. Click [here](#) to download a Cereal Grain Test Submission Form.

Northeast Hop Alliance Presents Hops 101 and 201 Courses, Saturday-Sunday, October 9 and 10, 2010
Enimore Art Museum Cooperstown, NY 13326. Click [here](#) to download a pdf flyer of this event.

Websites

- Effective if they can be found
- People need to know they exist
- Googlicious
- Extension web information is often difficult to locate

The screenshot shows the website for the UVM Extension Northwest Crops and Soils Program. The header includes the University of Vermont logo and navigation links such as 'ABOUT UVM', 'ADMISSIONS', 'ACADEMICS', 'STUDENT LIFE', 'RESEARCH', 'ATHLETICS', 'OFFICES', and 'OUTREACH'. A prominent 'APPLY TO UVM' button is visible in the top right. The main content area features a 'Welcome' message and a large banner for the 'NW CROPS & SOILS PROGRAM' with several images: a hay bale, a corn stalk, a field of crops, a person operating a tractor, and a sunflower. Below the banner, there is a 'Follow us' section with YouTube and Facebook icons. The mission statement reads: 'The mission of the UVM Extension Northwest Crops and Soils Team is to provide the best and relevant cropping information, both research-based and experiential, delivered in the most practical and understandable ways to Vermont farmers.' The page also lists 'OUT CROPPINGS: Important crop news from the field!' with links to articles on 'Northern Corn Leaf Blight' and 'Cereal Grain Testing'. At the bottom, there is information about the 'Northeast Hop Alliance' courses.

Websites

- People want new information
- Need to be easy to update
 - Wordpress
- Needs to be updated
 - Extra time

The screenshot shows the website for the Northwest Crops & Soils Program at the University of Vermont. The header includes the UVM logo, the text "The University of Vermont", and a navigation menu with links for "ABOUT UVM", "ADMISSIONS", "ACADEMICS", "STUDENT LIFE", "RESEARCH", "ATHLETICS", "OFFICES", and "OUTREACH". A red "APPLY TO UVM" button is also present. The main content area features a "Welcome" message and a large banner for the "NW CROPS & SOILS PROGRAM" with several images of agricultural scenes. Below the banner, there is a "Follow us:" section with YouTube and Facebook icons. The mission statement reads: "The mission of the UVM Extension Northwest Crops and Soils Team is to provide the best and relevant cropping information, both research-based and experiential, delivered in the most practical and understandable ways to Vermont farmers." The main article is titled "OUT CROPPINGS: Important crop news from the field!" and contains three sub-sections: "Northern Corn Leaf Blight" (discussing increased pressure and providing a link to download an article), "Cereal Grain Testing" (announcing the start of a grain quality laboratory and providing a link to download a submission form), and "Northeast Hop Alliance" (presenting hop courses and providing a link to download a pdf flyer).

Content Types

- Articles
- Narrated powerpoints
- Video
- Webinars
- Moodle Courses

Good example of what is possible **eXtension.org**

Webinar

- Live & archived presentations
- Can have multiple audiences
 - Researchers, extensions
 - Farmers
- Many services
 - Elluminate, Adobe Connect,
 - Go to Webinars
- Archived and can be viewed and used over and over again.

The Economics of Organic Dairy Farming in New England Webinar from eOrganic - eXtension - Windows Internet Explorer

<http://www.extension.org/article/26738>

File Edit View Favorites Tools Help

★ Favorites 🌿 Campus Recreation Univers... ✗ extension 📄 Northeast SARE ✗ Login-Ext 📄 Developing Content in the e... 📄 Crops&SoilsSharepoint 📄 Crops and Soil 📄 PSS 📄 NESCI 📄 Suggested Sites 📄 Get M

📄 SurveyMonkey - Survey Res... ✗ The Economics of Organic... ✗ Pending Invitations - eXtensi...

Share / Save

Resource Area Feeds

- Track all new content

In This Resource Area

Farming Systems

- Dairy Production
- Vegetable Production

General Topics

- Introduction to Organic Agriculture
- Certification
- Cover Cropping
- Insect Management
- Marketing and Food Systems
- Plant Breeding
- Plant Disease Management
- Seeds and Seed Production
- Soil and Fertility Management
- Weed Management
- Video Clips

Webinars

- Upcoming
- Archived

The Economics of Organic Dairy Farming in New England
Bob Parsons, University of Vermont

Apr 2010

http://www.extension.org/organic_production

extension eOrganic

00:00 / 00:00

About the Webinar

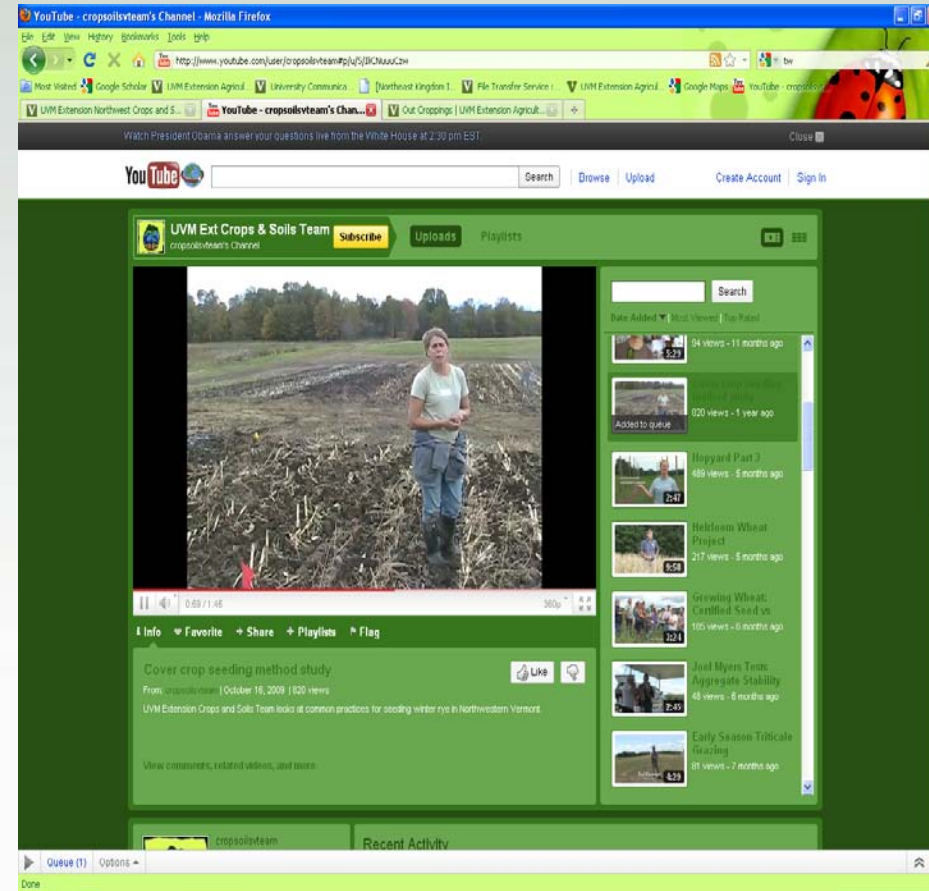


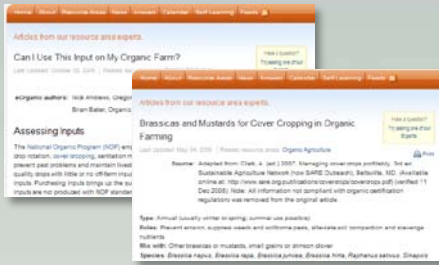
Search

Browse

Upload

- Present research projects & results
- How-To videos
- Success stories
- Immediate Info to clients





New Articles/Bulletins

GoToMeeting

archived webinars



instructional video clips on
equipment use/production methods
whole farm case study videos

Narrated PowerPoint
Presentations



moodle

Asynchronous Moodle
Courses

Good example of what is possible **eXtension.org**

Have an account? [Sign in](#)



Search input field

The best way to discover what's new in your world.

eni Mubarak Egito Purr & Patron Janaina Friday Extreme Home Makeover Tahrir Square Cairo Colcci Jesse B

New to Twitter?

Easy, free, and instant updates. Get access to the information that interests you most.

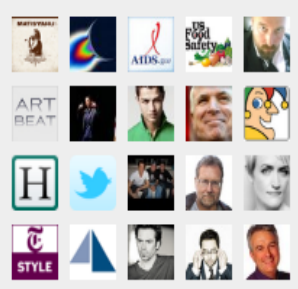
[Sign Up >](#)

A #NewTwitter

Catch a glimpse of the new Twitter.com.



See who's here



Friends and industry peers you know. Celebrities you watch. Businesses you frequent. Find them all on Twitter.

Top Tweets [View all >](#)

- 

LiterallyJamie To be fair, that's a great move for Andy Carroll. Liverpool's the only city in Europe where his hairstyle is still fashionable.
about 1 hour ago ·
- 

karlsentk west ham were offered andy carroll for £1 million in the summer of 2009, but steve clarke didn't rate him (from dead cert source)
about 1 hour ago ·
- 

RyanSeacrest "If opportunity doesn't knock, build a door." - Milton Berle....Let's hustle this week! Who-s with me??
about 1 hour ago ·



Have an account? [Sign in](#)

Get short, timely messages from UVM Ext NWCropsoil.

Twitter is a rich source of instantly updated information. It's easy to stay updated on an incredibly wide variety of topics. **Join today** and follow **@UVMExtcropsoil**.

[Sign Up](#)

Get updates via SMS by texting **follow UVM**



UVMExtcropsoil

Don't forget to sign up for no-till cost share through the VT FAP program. App deadline is March 1. Download form: <http://bit.ly/i7sNo6>

8 minutes ago via web

Testified at the State house today, legislators keen to work with the Farmer's Watershed Alliance and UVM Extension to expand our efforts!

about 1 hour ago via web

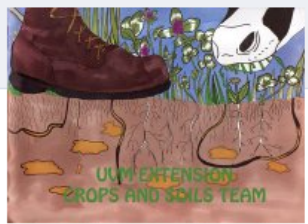
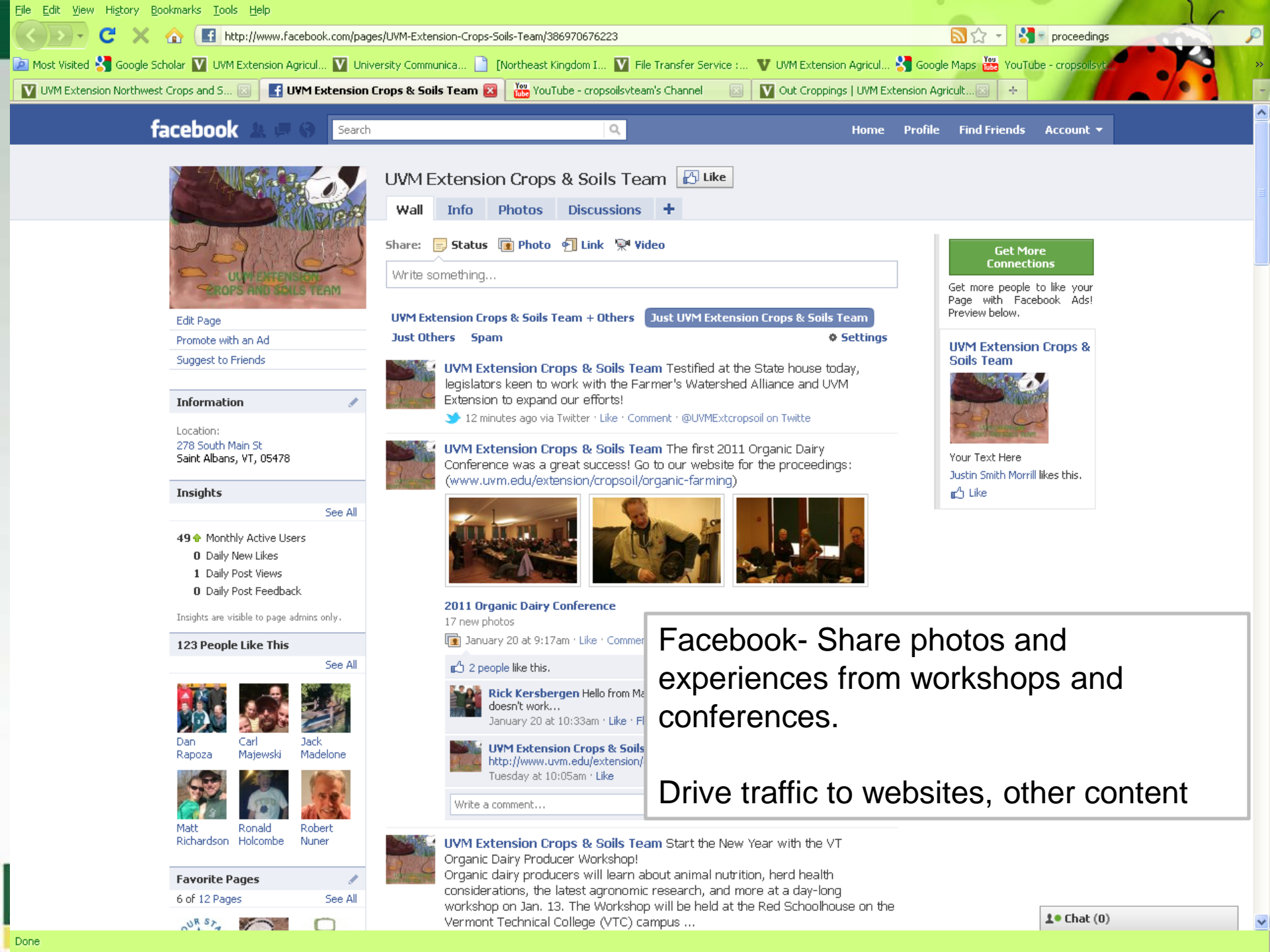
Inform producers , certified crop advisors, community members and legislators about what's going on in the field and around the state

Can send as a text to any cell phone

Following



[RSS feed of UVMExtcropsoil's tweets](#)



Edit Page
Promote with an Ad
Suggest to Friends

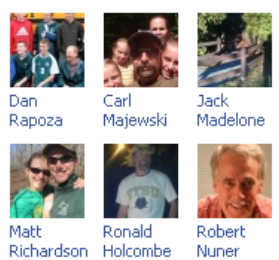
Information

Location:
278 South Main St
Saint Albans, VT, 05478

Insights

49 Monthly Active Users
0 Daily New Likes
1 Daily Post Views
0 Daily Post Feedback

123 People Like This



Favorite Pages

6 of 12 Pages

UVM Extension Crops & Soils Team Like

Wall Info Photos Discussions +

Share: Status Photo Link Video

Write something...

UVM Extension Crops & Soils Team + Others Just UVM Extension Crops & Soils Team

Just Others Spam Settings

UVM Extension Crops & Soils Team Testified at the State house today, legislators keen to work with the Farmer's Watershed Alliance and UVM Extension to expand our efforts!
12 minutes ago via Twitter · Like · Comment · @UVMExtcropsoil on Twitte

UVM Extension Crops & Soils Team The first 2011 Organic Dairy Conference was a great success! Go to our website for the proceedings: (www.uvm.edu/extension/cropsoil/organic-farming)



2011 Organic Dairy Conference

17 new photos

January 20 at 9:17am · Like · Comment

2 people like this.

Rick Kersbergen Hello from Ma doesn't work...
January 20 at 10:33am · Like · F

UVM Extension Crops & Soils http://www.uvm.edu/extension/ Tuesday at 10:05am · Like

Write a comment...

UVM Extension Crops & Soils Team Start the New Year with the VT Organic Dairy Producer Workshop! Organic dairy producers will learn about animal nutrition, herd health considerations, the latest agronomic research, and more at a day-long workshop on Jan. 13. The Workshop will be held at the Red Schoolhouse on the Vermont Technical College (VTC) campus ...

Get More Connections

Get more people to like your Page with Facebook Ads! Preview below.

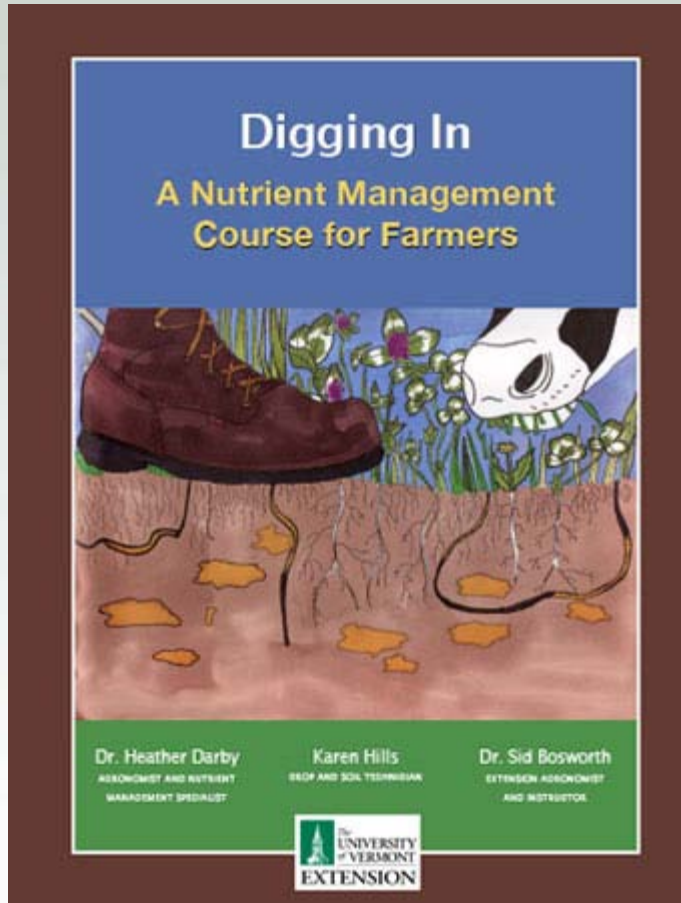
UVM Extension Crops & Soils Team



Your Text Here
Justin Smith Morrill likes this.
Like

Facebook- Share photos and experiences from workshops and conferences.
Drive traffic to websites, other content

Nutrient Management



- Five week course
- Over 100 farms have completed the program
- 95% completion rate

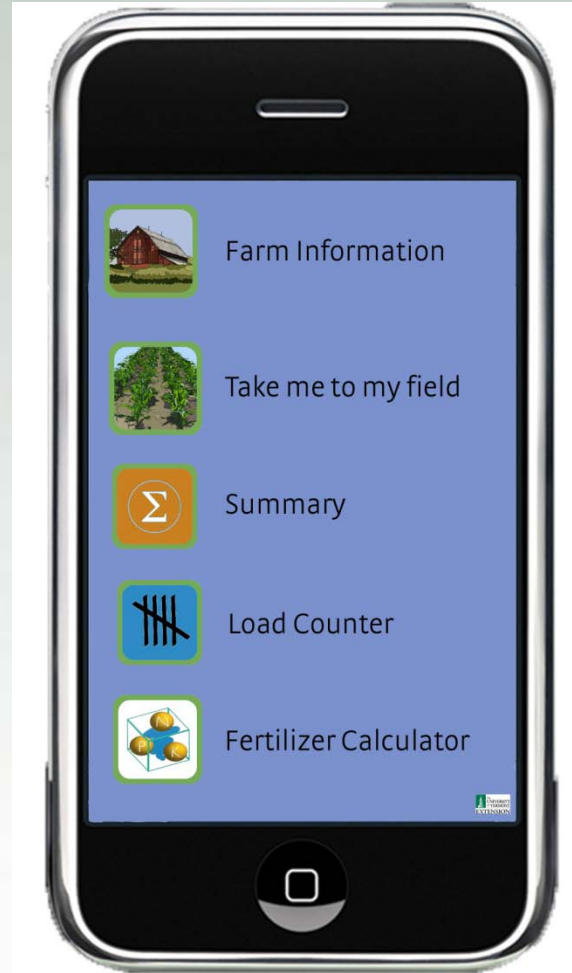
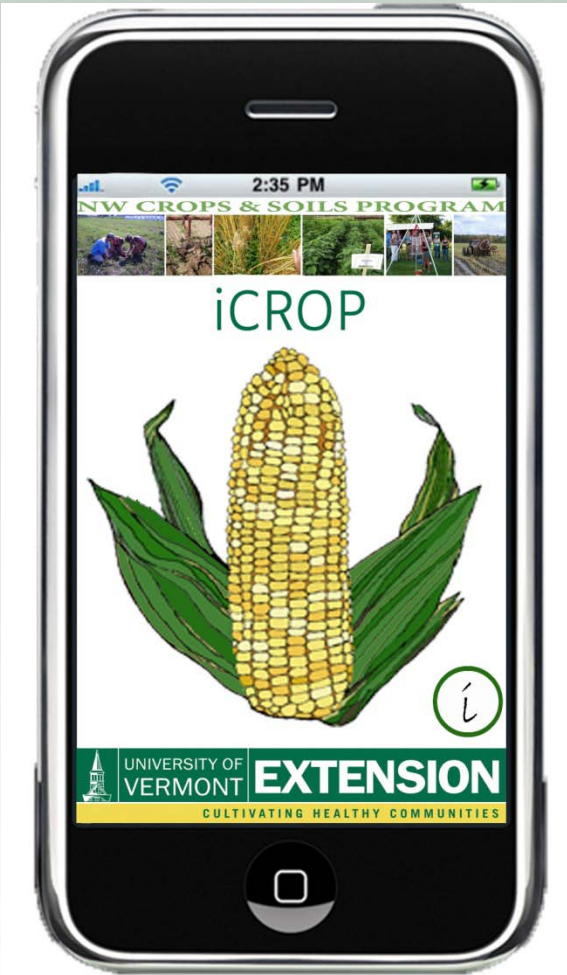
Nutrient Management



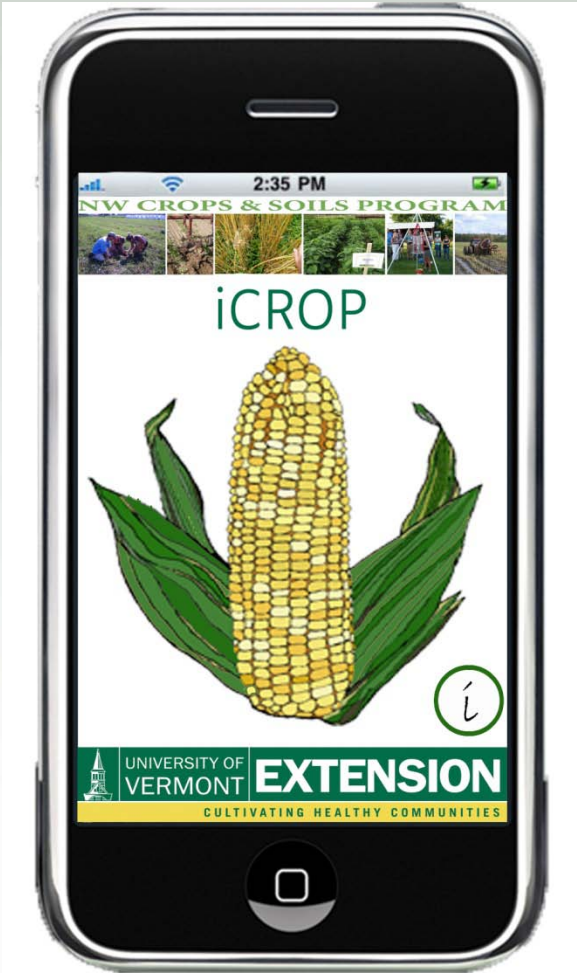
- 100% understood their plan
- Implemented 50 – 75% of plan
- 30% of course participants keeping adequate records

Bridging the Gap





Web Application to Connect with Iphone Application



iCROP

NUTRIENT MANAGEMENT PLAN

Tom
SIGNED IN
Sign out

HOME

FARM

FIELDS

SOIL

CROPS

NUTRIENTS

RECORDS

REPORTS

Total farms: 2

[Clover Farm](#)

[My Test Farm](#)



Tom
SIGNED IN
Sign out

HOME FARM FIELDS SOIL CROPS NUTRIENTS RECORDS REPORTS

CLOVER FARM: A2312 FIELD

A2312

Tomato Hill

+ Add new field

FIELD INFORMATION

ABOUT

Field Name:	<input type="text" value="A2312"/>	Acres:	<input type="text" value="20.0"/>
FSA Tract and Field Number:	<input type="text" value="250-16"/>	Elevation Zone (ft):	<input type="text" value="< 600"/>
County:	<input type="text" value="Chittenden"/>	Ownership Type:	<input type="text" value="Owned"/>

RISK FACTORS

Distance To Stream (ft):	<input type="text" value="25"/>	Soil Type:	<input type="text" value="TeE"/>
Vegetated:	<input type="text" value="25"/>	Limiting Soil Type:	<input type="text" value="TeD"/>



SIGNED IN
Sign out

CORN SILAGE 10/24 : A2312

Corn Silage 10/24
: A2312
+ Add new crop

CROP INFORMATION

CROP TYPE

Crop Type:

Yield Goal / Acre:

Yield Unit:

Legume Percentage:

Surface Cover %:

Planting Date:

RECOMMENDATIONS

Nutrients per Unit:

Lime (tons/acre):

Update Crop Cancel

ICROP
NUTRIENT MANAGEMENT PLAN

SIGNED IN
Sign out

HOME MANAGEMENT RECORDS REPORTS

CORN SILAGE 10/24 : A2312

Corn Silage 10/24
: A2312

CROP RECORDS

PLANTING

Planting Date: Oct 24 2011

Seed Depth: 3

Seed Depth Units: inches

Seed Rate: 5

Seed Rate Units: lbs/acre

Variety: F2F297

Update Crop

TILLAGE

Primary Tillage: Moldboard Plow

Secondary Tillage: Field Cultivator

iCrop



Farm Information



My Fields



Farm Summary



Load Counter



Settings



Back

Farm Information



General Information

Demo Farm
400 Acres Owned
100 Acres Leased



Equipment

Primary Tillage: Moldboa...
Secondary Tillage: Disk
2 Spreaders



Livestock

Holstein
253705632 Rolling Average



Notes and Rotation

Cancel

Add / Edit

Save

Name **By the river**

FSA Tract Field Number **123-1**

County **Franklin**

Acres **20**

Elevation **0**

Distance To Stream **25**

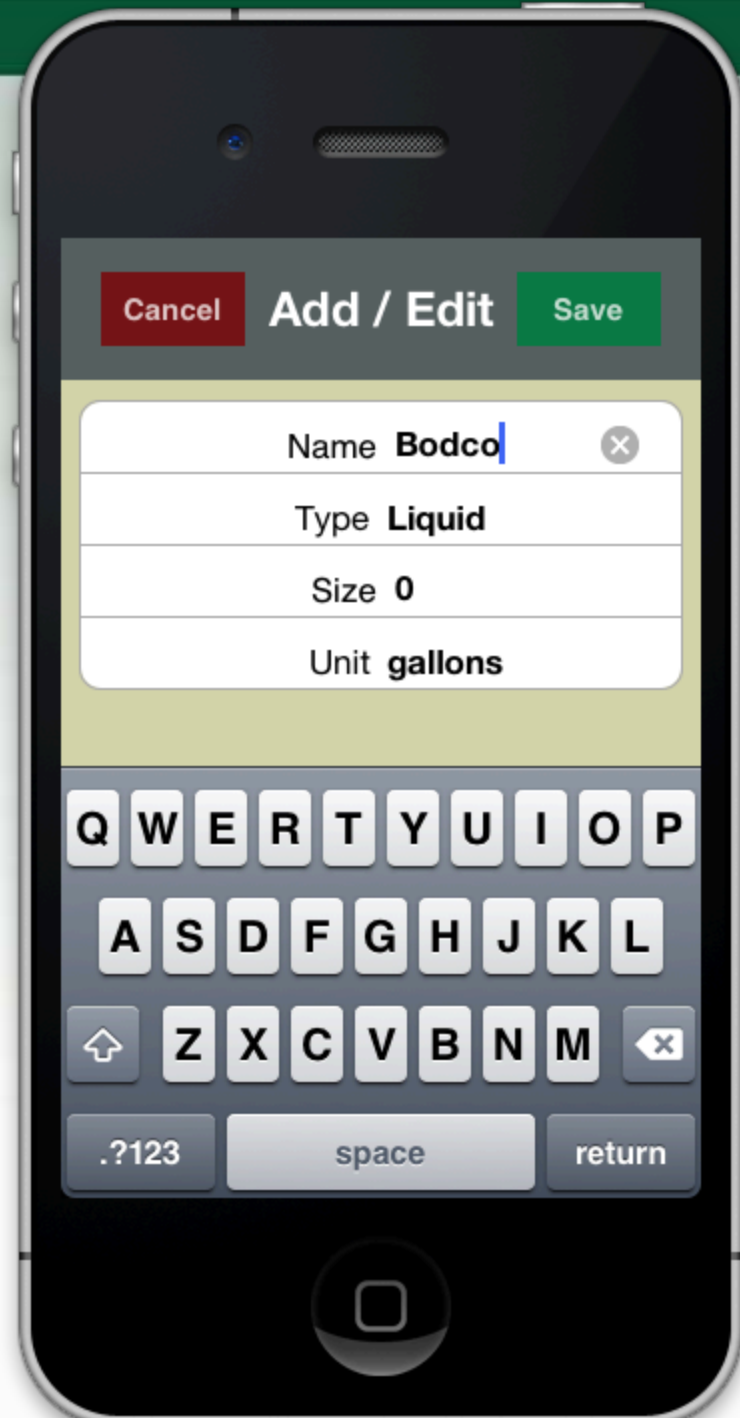
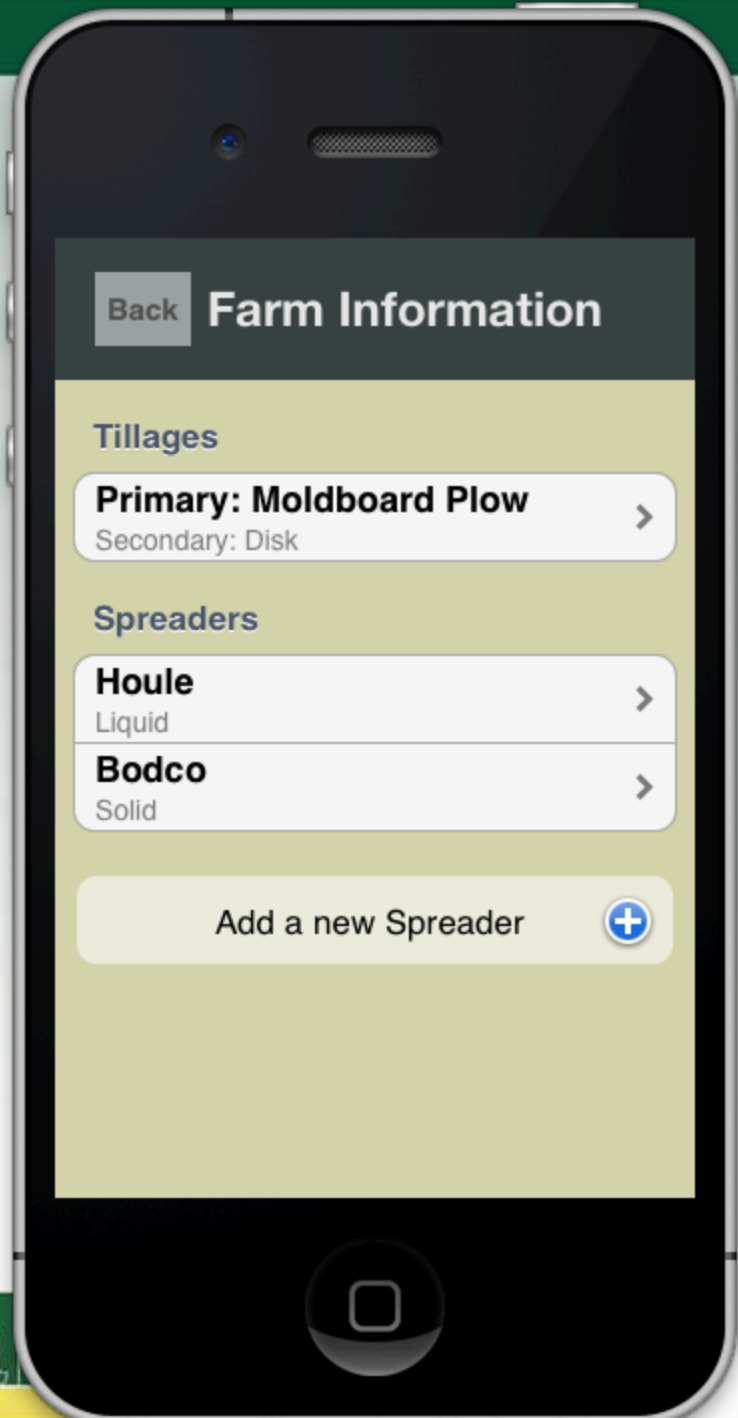
Vegetated Buffer Width **25**

Manure Spread Setback **25**

Sediment Trap Structure **None**

Ownership Type **Owned**

Drainage Class **Moderately Well**



Back

Farm Information

Livestock

Type Breed: Holstein >

Rolling Herd Average: 25000

Animals

Dairy - Heifer (6 - 18 months) >

60 with average weight of: 800 lbs

Dairy - Lactating Cow >

250 with average weight of: 1400 lbs

Dairy - Calves (< 6 months) >

25 with average weight of: 250 lbs

Dairy - Dry Cow >

25 with average weight of: 1400 lbs

Add a new Animal



Back

Farm Information

Nutrient Management

Spring / Summer / Fall >

Custom Application: No

Manure Storages

Behind The Barn >

Liquid

Stack >

Solid/Semi-Solid

Add a new ManureStorage



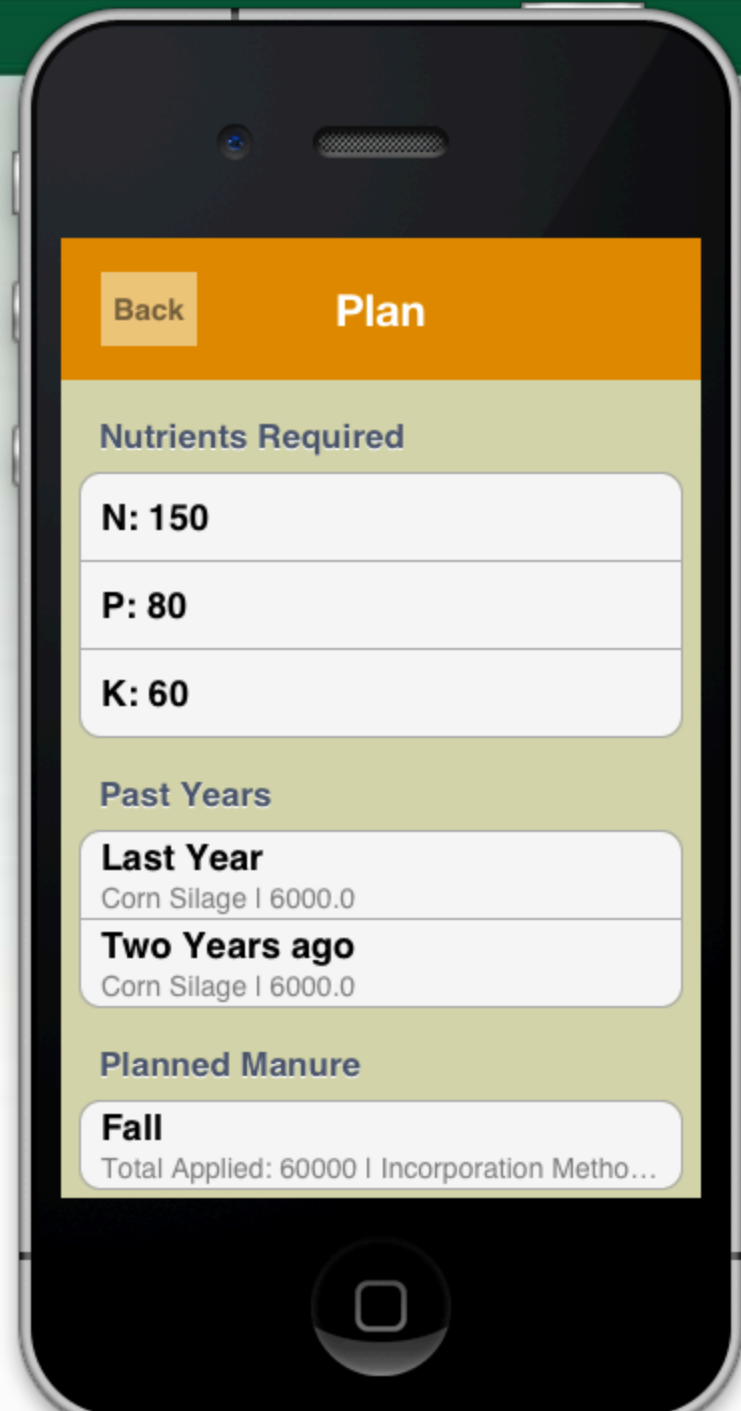
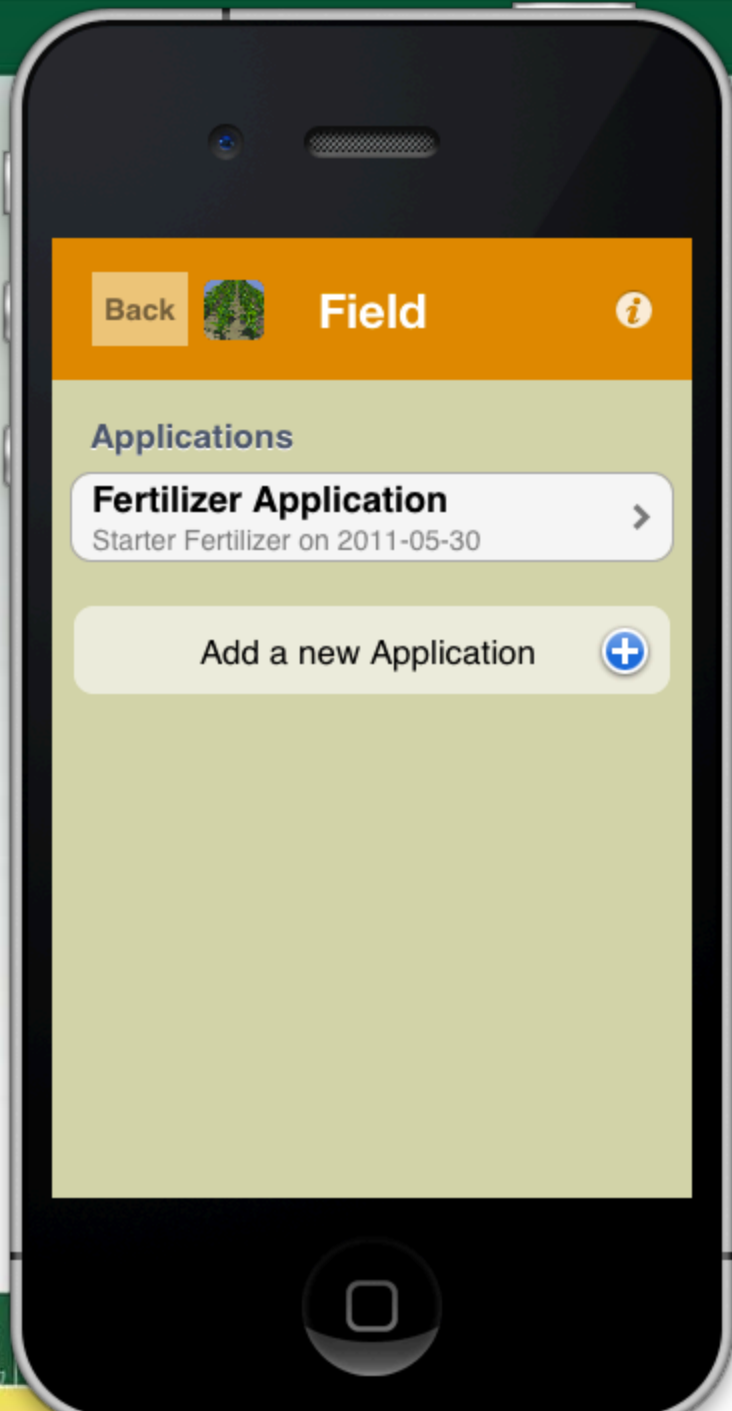
Fertilizers

Urea >

Dry

Nitan >

Liquid



Back



Field



Crops

Corn Silage

Primary Tillage



Add a new Crop



Planting

2011-05-30 00:00:00 UTC

Seed Depth: 4 inches



Soil Test

2010

PH: 6.2



Nutrients

6 - Phosphorus - P

Subtitle



iCrop



Farm Information



My Fields



Farm Summary



Load Counter



Settings



Back

Farm



Demo Farm i

278 South Main St
Suite 2
St. Albans, Vermont
05478

Land

400 acres owned
100 acres leased
Watershed: St. Albans BAy



Livestock

Holstein I Herd Average: 25000

Dairy - Calves (< 6 months)

Weight: 250

Dairy - Lactating Cow

Weight: 1400

Dairy - Dry Cow

Weight: 1400

New Animal



Equipment

Bodco

Solid

Houle

Liquid

New Tillage

New Spreader



Manure

Stack

Solid/Semi-Solid

Behind The Barn

Liquid

New Manure Storage



Fertilizer

Urea

Dry

Nitan

Liquid

New Fertilizer

Back

Farm



Demo Farm i

278 South Main St
Suite 2
St. Albans, Vermont
05478

Land

400 acres owned
100 acres leased
Watershed: St. Albans BAy

Cancel

Add / Edit

Save

Animal Type	Dairy - Calves (< 6 months)
-------------	---------------------------------------

Number	25
--------	-----------

Weight	250
--------	------------

Always Confined	Yes
-----------------	------------

Grazing Type	Continuous
--------------	-------------------

Stocking Rate	0
---------------	----------



Lives

Holstein I Herd

Dairy - Calves (< 6 months)
Weight: 250

Dairy - Lactating
Weight: 1400

Dairy - Dry Cow
Weight: 1400



Manure

Stack

Solid/Semi-Solid

Behind The Barn

Liquid

New Manure Storage



Fertilizer

Urea

Dry

Nitan

Liquid

New Fertilizer

Back

Farm



Demo Farm ⁱ

278 South Main St
Suite 2
St. Albans, Vermont
05478

Land

400 acres owned
100 acres leased
Watershed: St. Albans BAy



Livestock



Equipment

Cancel

Add / Edit

Save

Name	Behind The Barn
Animal Type	Dairy - Lactating Cow
Manure Type	Liquid
DM Percentage	8
Total Manure Produced	3000000
Total Manure Applied	0

New Spreader

zer

Behind The Barn
Liquid

New Manure Storage

Nitan
Liquid

New Fertilizer

Back

Field: By the river

Cancel

Add / Edit

Save



By t
20 Ac
Own
Mode

Date	2011-05-30 00:00:00 UTC
Rate/Acre	0 <input type="text"/>
Application Type	Starter Fertilizer



Nut

Manure	40	32	80
	N	P	K
Fertilizer	50	20	0

Fertilizer Application

Starter Fertilizer on 2011-05-30



Harvest



Pests



Back

Field: By the river



By the river

20 Acres
Owned
Moderately Well drained

Field Prep and Planting i

Corn Silage

Primary Tillage

New Crop



Nutrients

Manure	40	32	80
	N	P	K
Fertilizer	50	20	0

Applications i

Manure Application

8 Loads on 2011-10-25

Fertilizer Application

Starter Fertilizer on 2011-05-30

Add Fertilizer

Add Manure



Harvest

Total Yield: 11000 Tons

Add Take



Pests

Weeds

Quack Grass on 2011-06-30

Add Scouted Pest

Add Control Application

Delivery/Evaluation
Winter of 2011/2012

Training and transition

For sale on iTunes - \$50 to \$99
yearly updates

Evaluation winter 2013

Funding
National CIG grant awarded in 2010
- \$45,000

Additional funds from UVM
Extension

Total Cost - \$98,000

Proceeds from sales of iCrop

Next Steps

- Finish Application & Beta Test
- Launch on iTunes
- Develop nationwide applicability
- Develop GIS enabled application
- Develop application for other growers
 - Vegetable
 - Organic

iPhone





Apps for The Great Outdoors

iPhone is always up for adventure. Load it with outdoorsy apps and start exploring the world around you. Then use it to help you find your way home.

[Discover apps for the great outdoors >](#)



Apps featured in this article:

-  **iBird Explorer Backyard**
Identify all the fine feathered friends outside your house.
-  **Knot Guide**
Keep everything tied down with knots of every kind.
-  **MyNature Animal Tracks**
Spot some tracks and identify which animal left its mark.
-  **Surf Report**
Check out surf conditions before riding the waves.

iPhone

Apps for Agriculture

iPhone is always up for adventure. Load it with outdoorsy apps and start exploring the world around you. Then use it to help you find your way home.

[Discover apps for the great outdoors >](#)



Applied Research and Education

