BOGS Online Grower System - Quick-Start Guide

Cape Cod Cranberry Growers Association

1/1/2016

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Overview

This quick-start guide is intended to provide users of BOGS with the basics for understanding how to use the BOGS Online Grower System. You will learn how to setup your farm operation, create work orders, input applications, record soil/tissue test results, track water and sand use, and generate reports. The information in this guide is also available via the BOGS website.

BOGS is continually updated to ensure you are able to comply with the most recent state regulations and handler requirements.

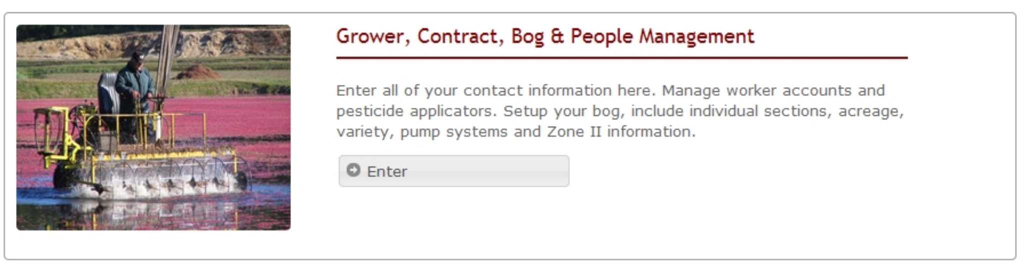
Nutrient Management Planning tools have been added to BOGS for the 2016 growing season in order to comply with UMASS Cranberry Station Guidelines. Please review the Nutrients section of this guide to find out how to make sure you are in compliance with the new regulations.

Getting Started

Go to www.bogs.cranberries.org

Enter the email address that you provided to CCCGA when you initially signed up and the password that was assigned to you. Please note that the password is case-sensitive.

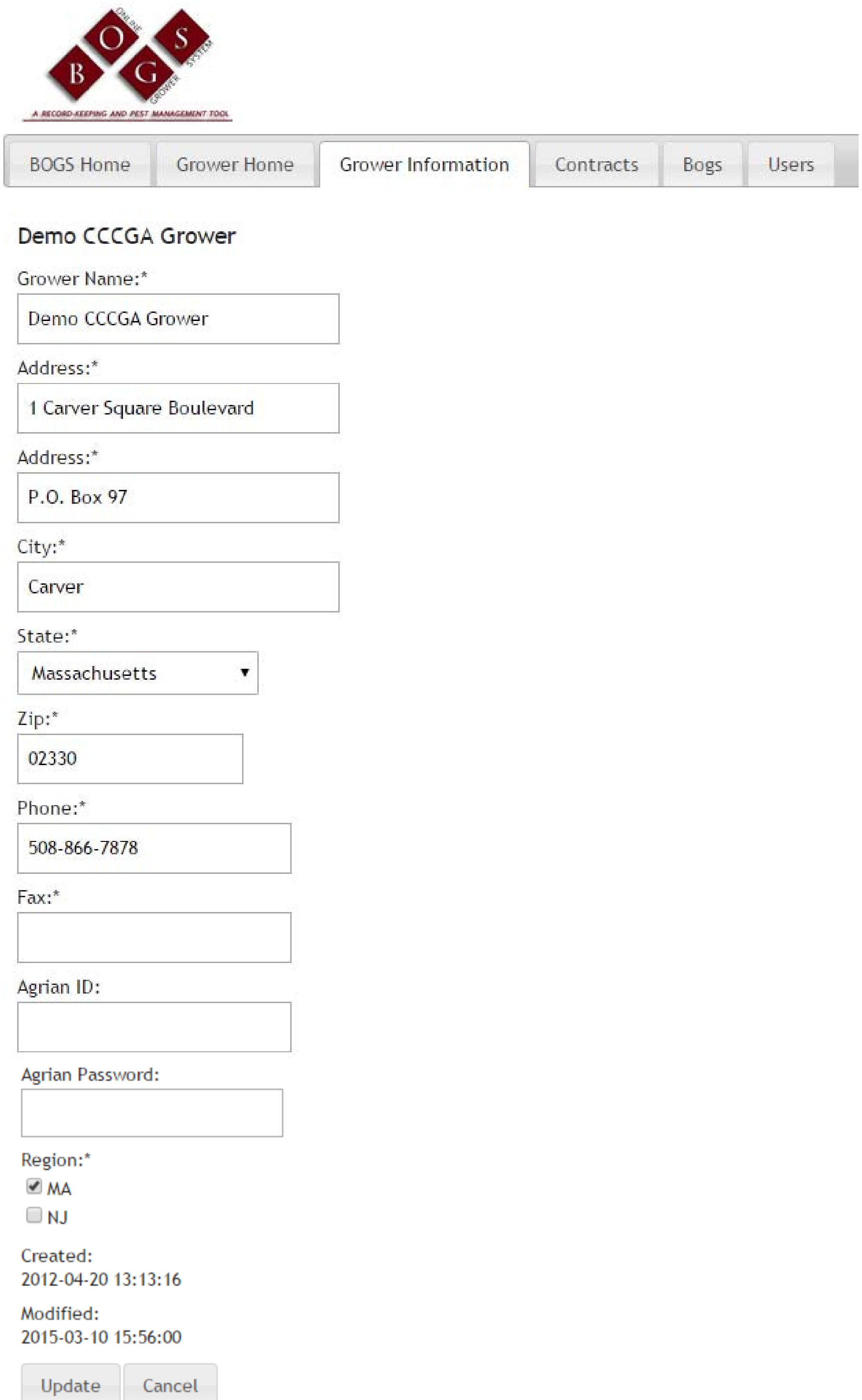
The first step is to setup your farm information. Click the **Grower, Contract, Bog & People Management** link or the **Enter** button.



Use either the tabs or menu options to navigate. It is best to go in order.

Grower Information

Select the **Grower Information** tab. It is important to verify that the data entered for you is correct. This is the information that will be used for state and handler reports. Make any necessary changes to your Grower Information and click **Update** to save your changes.


BOGS Home | Grower Home | Grower Information | Contracts | Bogs | Users

Demo CCCGA Grower

Grower Name:*
Demo CCCGA Grower

Address:*
1 Carver Square Boulevard

Address:*
P.O. Box 97

City:*
Carver

State:*
Massachusetts

Zip:*
02330

Phone:*
508-866-7878

Fax:*

Agrian ID:

Agrian Password:

Region:*
MA
NJ

Created:
2012-04-20 13:13:16

Modified:
2015-03-10 15:56:00

Update Cancel

The Agrian ID and Agrian Password fields above will only display if you have an Ocean Spray contract entered into BOGS. This will allow you to streamline your reporting to Ocean Spray and to minimize discrepancies at delivery.

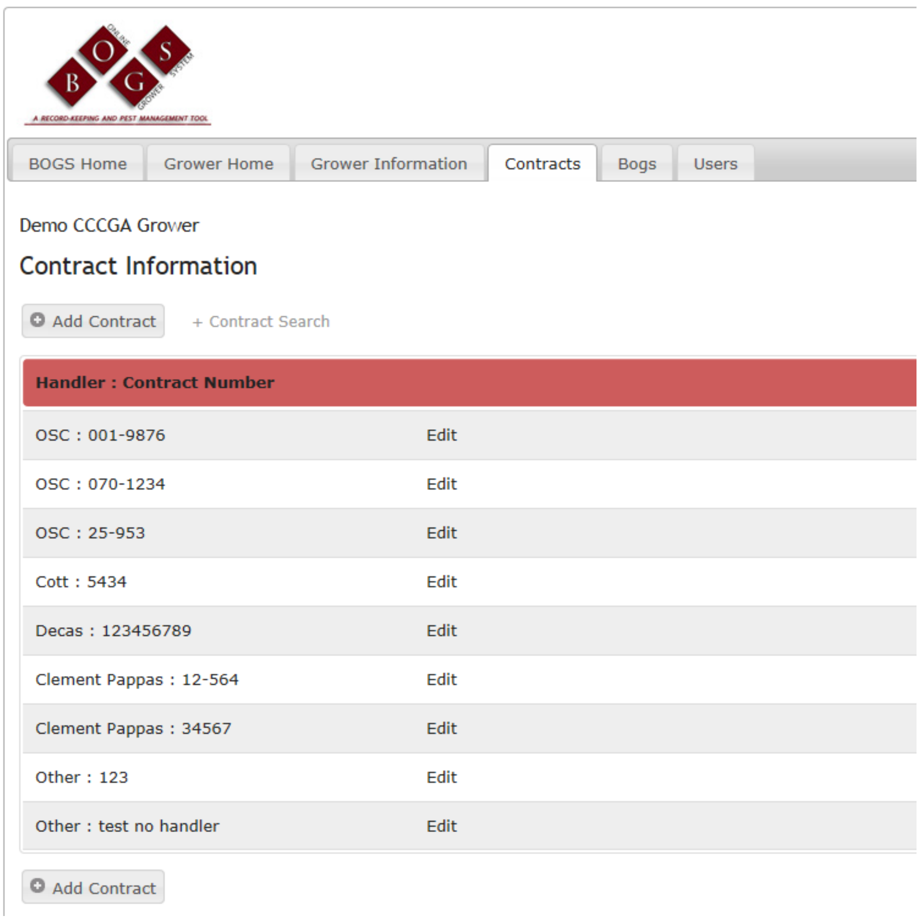
Contracts

Select the **Contracts** tab to add a Contract.

Note: The example below displays demo information. Your screen will have no contracts until you add them.

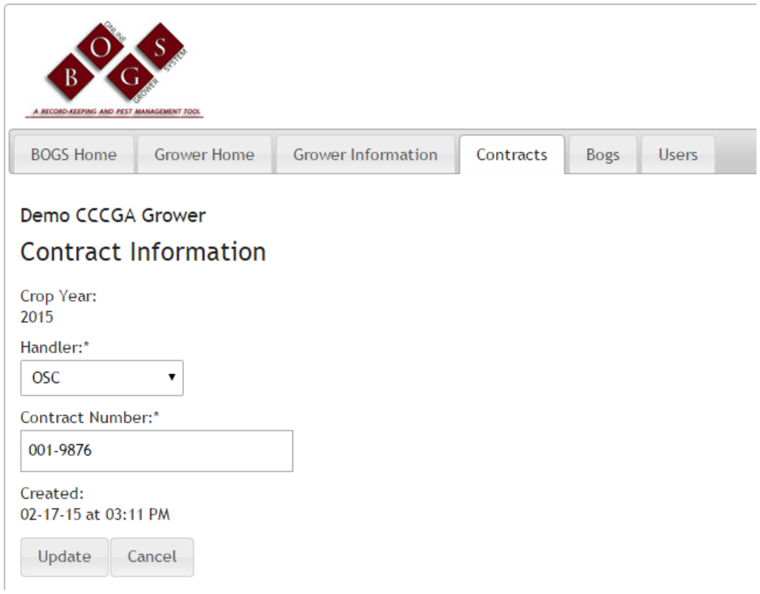
Click **Add Contract**. Select a handler from the drop-down menu and enter your contract number.

Be sure your contact number matches what your handler uses. Select "Other" from the Handler drop-down if you market your own fruit or you don't currently have a contract. A system-generated contract number will be assigned to the record. Click **Save** when complete.



Note: As application data is entered into BOGS, each record is tied to a contract. If you change contracts during the season, you will need to edit each record where the contract changed in order to maintain accurate reporting. This is not difficult to do but you need to be aware as you enter data.

To change an existing Contract, select the **Contracts** tab and click **Edit** for the record you need to change. Make any necessary changes to your Contract Information and click **Save** to save your changes.



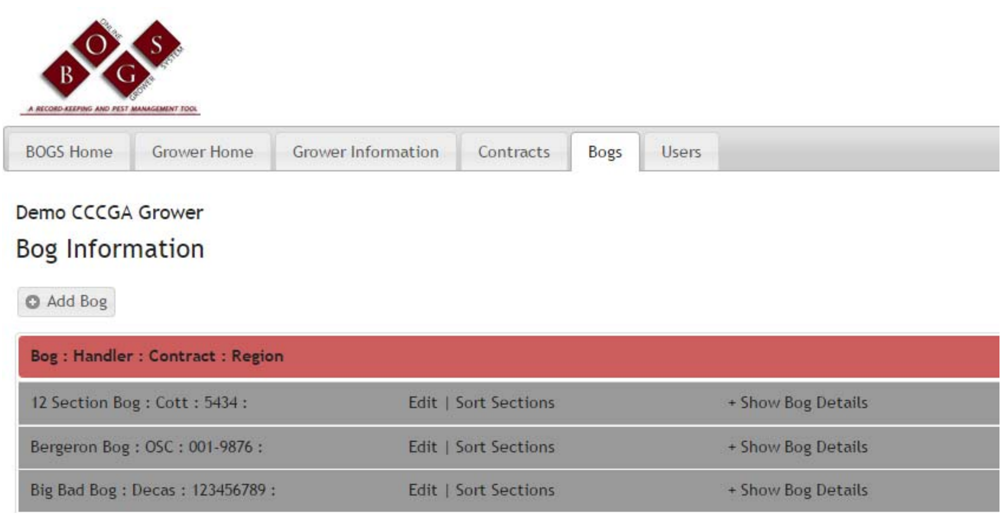
Bogs

Once your contracts are established, you will need to add your Bogs. The system is designed to allow you to set up sections within your Bogs. It is critical that you use the same naming convention for your individual bog sections as your handler does in order to alleviate problems at delivery or with pre-approval processing.

Select **+Show Bog Details** to display all sections within a bog.

Note: The example below displays demo information for a completed Bog.

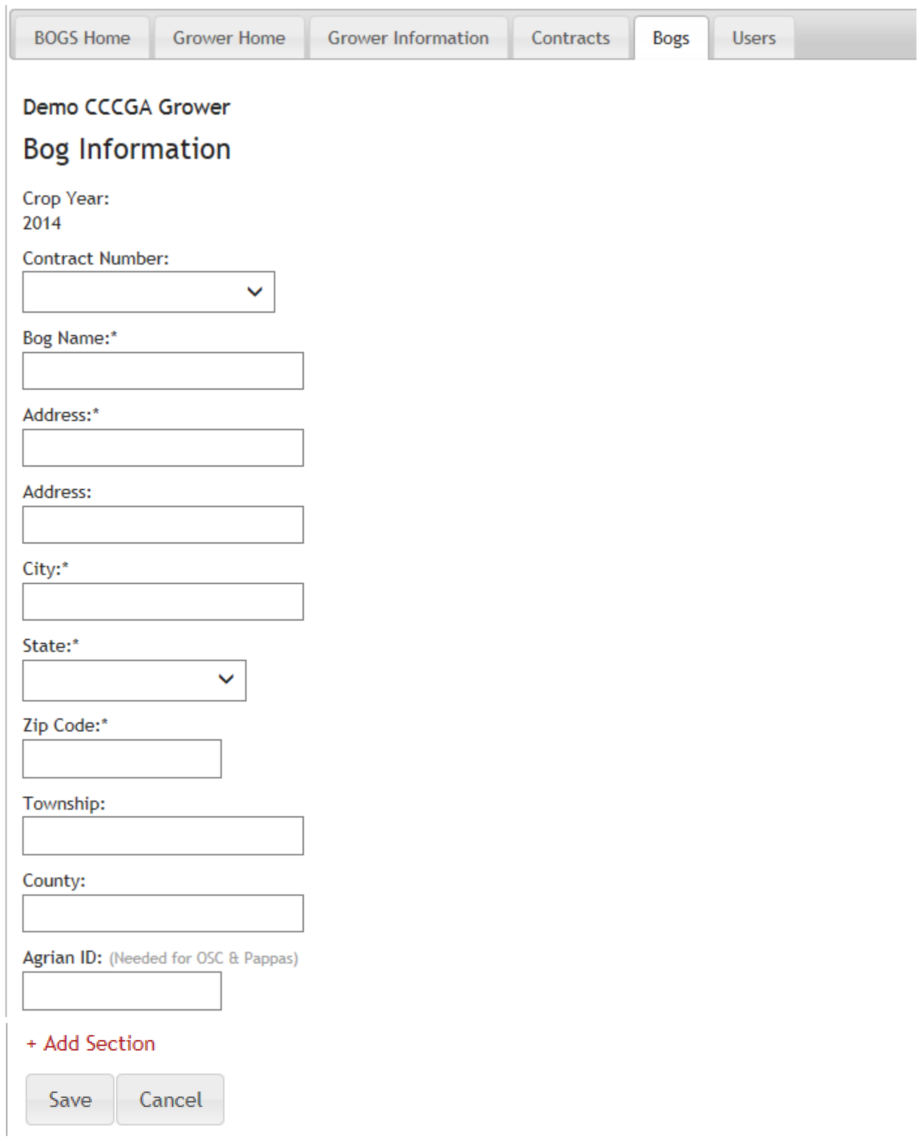
Each line represents a different Contract and Bog location. Click **Add Bog** to input a new Bog.



Select a Contract Number from the drop-down menu, or select "Other" if you do not have a Contract with a handler. If you have a contract with a handler but it is not displaying in the drop-down, please go to the Contracts tab in BOGS to enter it before proceeding with the setup of your Bog information. Assign a Bog Name. Bogs are considered to be the management area for a grouping of Bogs at a particular location. You can assign Bog Names any way you wish. It is the individual sections of your Bog (the next step) that is generally what the handlers will need to know and to match on.

Enter your Bog's address.

Note: If your Bog is associated with an OSC contract, you must also input your Agrian ID.

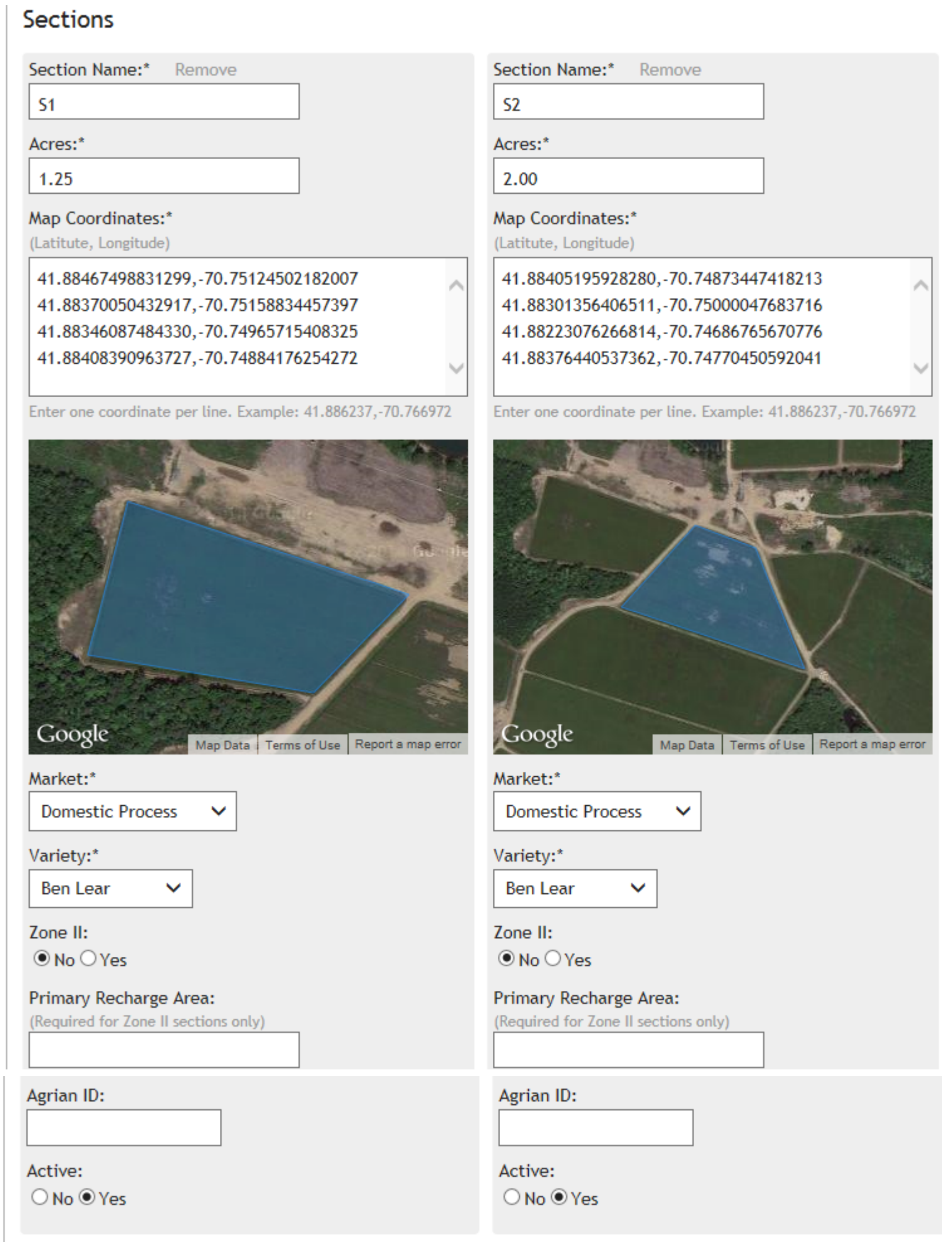


Click **Add Section**. Section Name is generally the management unit on a bog that your handler needs to track. These are often referred to as "Exhibit A" sections. If you are unsure how to name your sections, talk to your handler and then contact CCCGA for further questions. The “Market” value you select will determine what handler restrictions may be triggered, as these are mostly decided based on where the fruit is going to be marketed. If you select “Unknown”, many of the specific restrictions will not be enabled.

Identify your bog section as “Zone II” only if this section of a bog is in a state-regulated Groundwater Recharge Area (well field). The “Primary Recharge Area” field must contain the name of the area (for example, Town Well field #1) and is only required if the section is in a Zone II. CCCGA can assist you in determining the name of the Primary Recharge Area. Please contact CCCGA if you have any questions regarding Zone II or Primary Recharge Areas.

A Google map will display based on the address entered for your Bog. Input the Section name and acres for your Section. Some handlers will also need to match the acreage of your sections for reporting. Click on the map to select the coordinates for your Section. Click and drag points to adjust the perimeter of your Section. When done, click the checkmark icon on the top-right of the map page to save your coordinates.

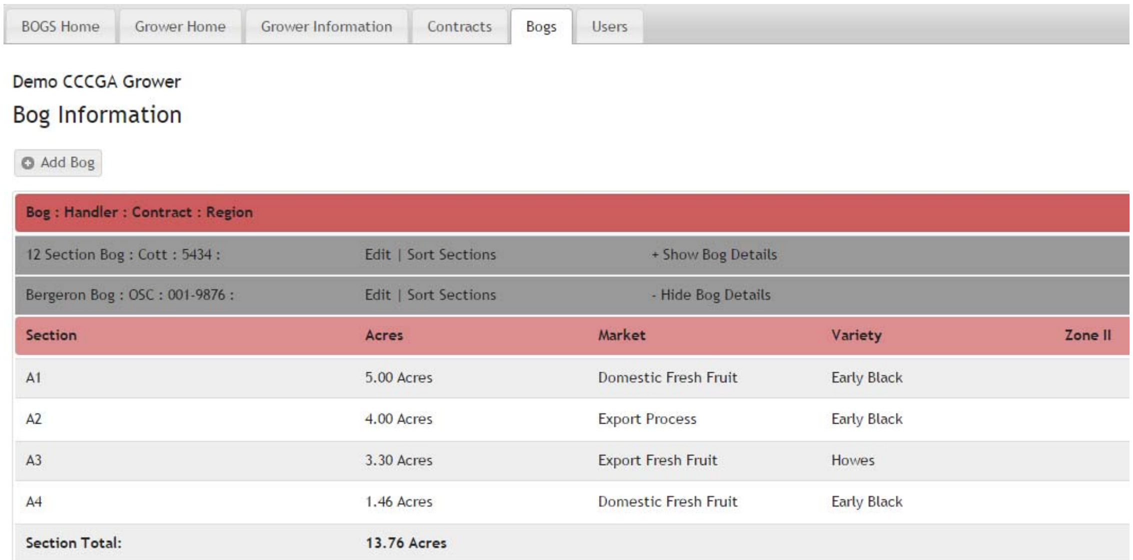
<u>Note:</u> You must input your section coordinates or use the Google map function to “Map your Sections” if you would like the map functions to be available in your reports (eg. when mapping spot treatments of pesticides or nutrients, and including maps in your state-regulated Nutrient Management Plan).


Sections

Section Name:* Remove
S1
Acres:*
1.25
Map Coordinates:*
(Latitute, Longitude)
41.88467498831299,-70.75124502182007
41.88370050432917,-70.75158834457397
41.88346087484330,-70.74965715408325
41.88408390963727,-70.74884176254272
Enter one coordinate per line. Example: 41.886237,-70.766972
Google Map Data | Terms of Use | Report a map error
Market:*
Domestic Process
Variety:*
Ben Lear
Zone II:
No Yes
Primary Recharge Area:
(Required for Zone II sections only)
Agrian ID:
Active:
No Yes

Section Name:* Remove
S2
Acres:*
2.00
Map Coordinates:*
(Latitute, Longitude)
41.88405195928280,-70.74873447418213
41.88301356406511,-70.75000047683716
41.88223076266814,-70.74686765670776
41.88376440537362,-70.74770450592041
Enter one coordinate per line. Example: 41.886237,-70.766972
Google Map Data | Terms of Use | Report a map error
Market:*
Domestic Process
Variety:*
Ben Lear
Zone II:
No Yes
Primary Recharge Area:
(Required for Zone II sections only)
Agrian ID:
Active:
No Yes

Click **Add Section** for each additional section for this bog. Click **Save** when complete to return to the Bog Information page.



BOGS Home | Grower Home | Grower Information | Contracts | Bogs | Users

Demo CCCGA Grower

Bog Information

Add Bog

Bog : Handler : Contract : Region				
12 Section Bog : Cott : 5434 :	Edit | Sort Sections	+ Show Bog Details		
Bergeron Bog : OSC : 001-9876 :	Edit | Sort Sections	- Hide Bog Details		
Section	**Acres**	**Market**	**Variety**	**Zone II**
A1	5.00 Acres	Domestic Fresh Fruit	Early Black	
A2	4.00 Acres	Export Process	Early Black	
A3	3.30 Acres	Export Fresh Fruit	Howes	
A4	1.46 Acres	Domestic Fresh Fruit	Early Black	
Section Total:	**13.76 Acres**			

The Bog Information page summarizes all of your bogs, with Bog Sections listed in alphabetical order. Click **Edit** in the grey bar to make updates to your bog sections or to add additional sections.

If you wish to change the display order/sequence of the sections click **Sort Sections,** then drag the Section Name to the desired location order. Drag additional sections as needed. You must click **Save Sort** when done or the new sort order will be lost. The Section Names will appear in the revised sort order for all screens within BOGS.

<u>Note:</u> Bog and section information must be input and mapped for inclusion in your **Nutrient Management Plan**, which is a requirement for growers farming more than 10 acres.

Users

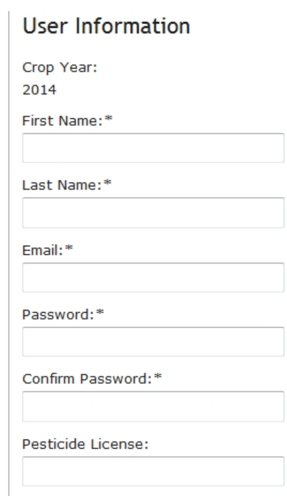
Select the **Users** tab to set up various types of users: those that will need to access and report within BOGS and those individuals who will make applications or perform tasks that need to be recorded, such as pesticide applicators and scouts.

Click **Add User** to create a new User. Click **Edit** next to a User to update the information/access for that User.

Users do not necessarily need to have access to BOGS; you determine what each User can view or edit. The first User is the administrator assigned by CCCGA when you first signed up for BOGS.

<u>Input User Information:</u> The email and password you assign the User will be their BOGS login information. You may assign all Users the same login information or you may setup individual access.

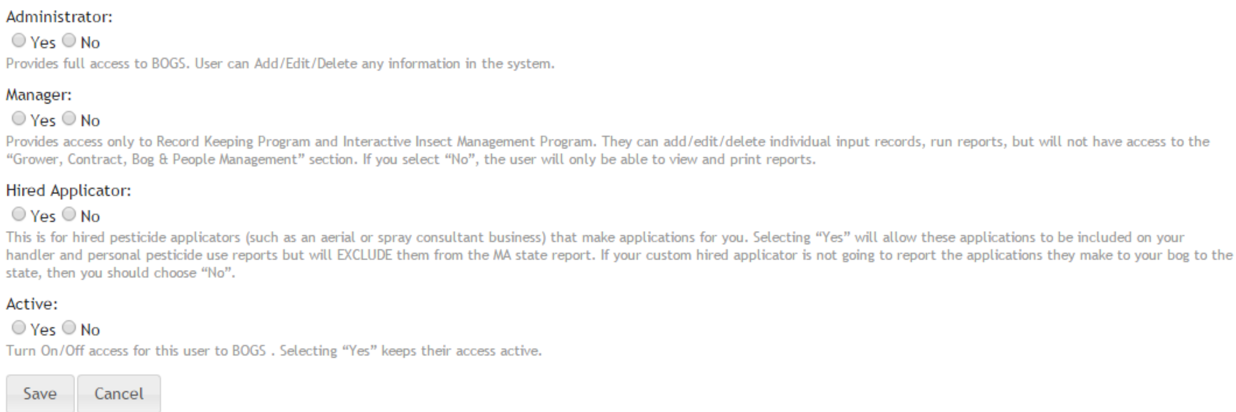
If you do not wish to allow BOGS access to certain users (such as a third-party applicator), you may input the same user name and password assigned to you originally to satisfy the system and simply do not share that with the User.



<u>Assign level of access:</u> Select the level of access you wish the user to have within BOGS. If you select "Yes" for Administrator, this overrides any other sections and provides complete access to all functions within BOGS.

<u>Note:</u> The "Hired Applicator" field is to be used for third-party applicators that will be filing their own pesticide use reports with the state. You still need to record and report these applications for your handler report (as well as your own records) but you would want to exclude them from the state summary report. If you do not exclude them and submit a state report, the third-party applicator would be submitting their use as well as yours, resulting in duplicate data and higher application amounts than what actually occurred.

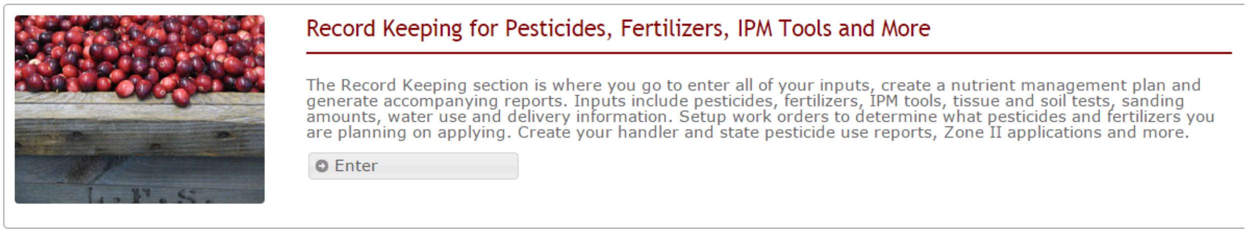
Note: An Applicator with a valid license number is required for inputting pesticide applications and must be set up within BOGS before you can submit any applications. A Scout name is required for inclusion on reports such as the Sweep Report and Pheromone Trap Record and must be set up within BOGS before you can submit any applications.



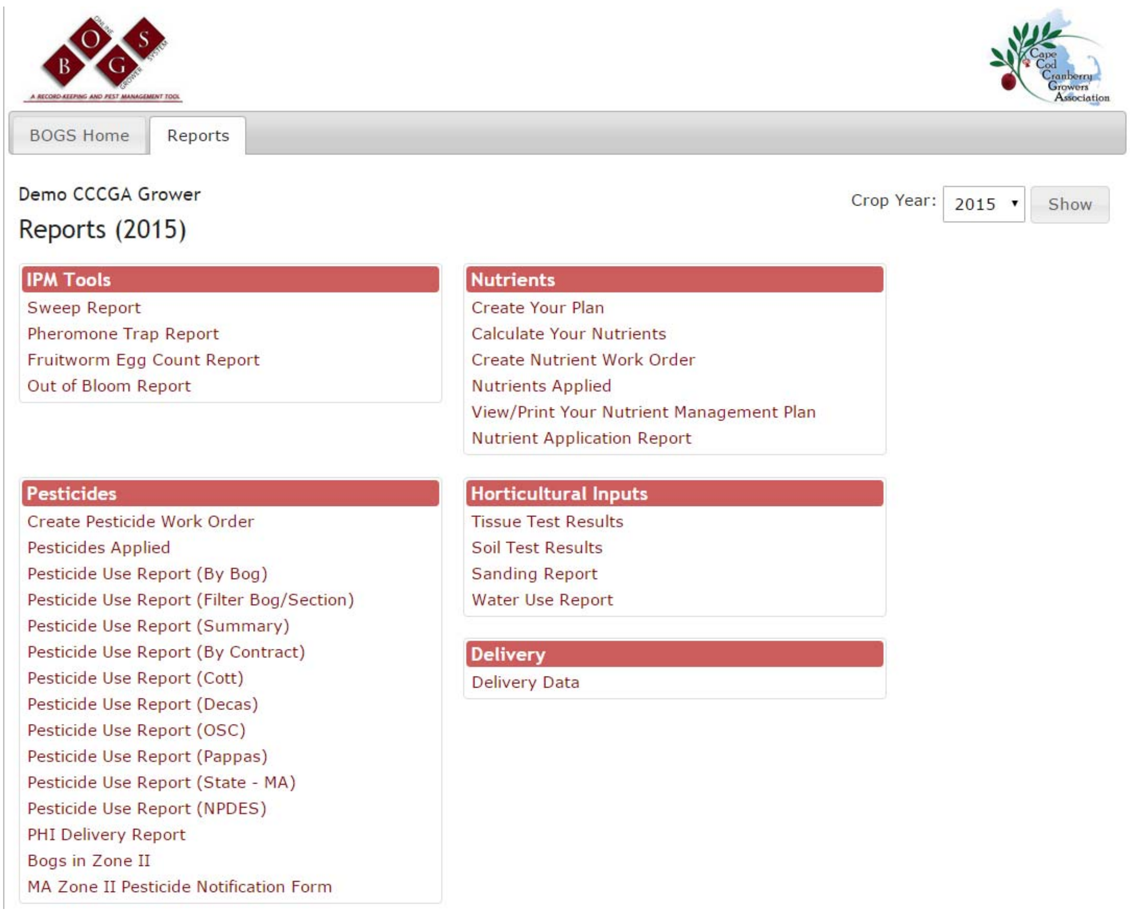
Select the **Bogs Home** tab to proceed to the Record Keeping Program section of BOGS.

Entering Data – Record Keeping and Reporting

Click the **Record Keeping** header link or the **Enter** button.



The BOGS Record Keeping menu is categorized for easy navigation. Every function will allow you to choose the crop year for which you are recording or reporting data.



IPM Tools

Sweep Report

Under the **IPM Tools** section of the Reports Home screen, select **Sweep Report** to record IPM sweep net results. There will be no data when you first enter this screen. Once you have entered data, each blue bar represents a report, with the details summarized below.

Click **Add Record** to begin. Click within the "Date/Time" field to launch a calendar which will allow you to select the day and time the scouting was conducted. To select the time, place your mouse cursor over the Hour and Minute bars, holding down the mouse-click and dragging across until the correct time is displayed.

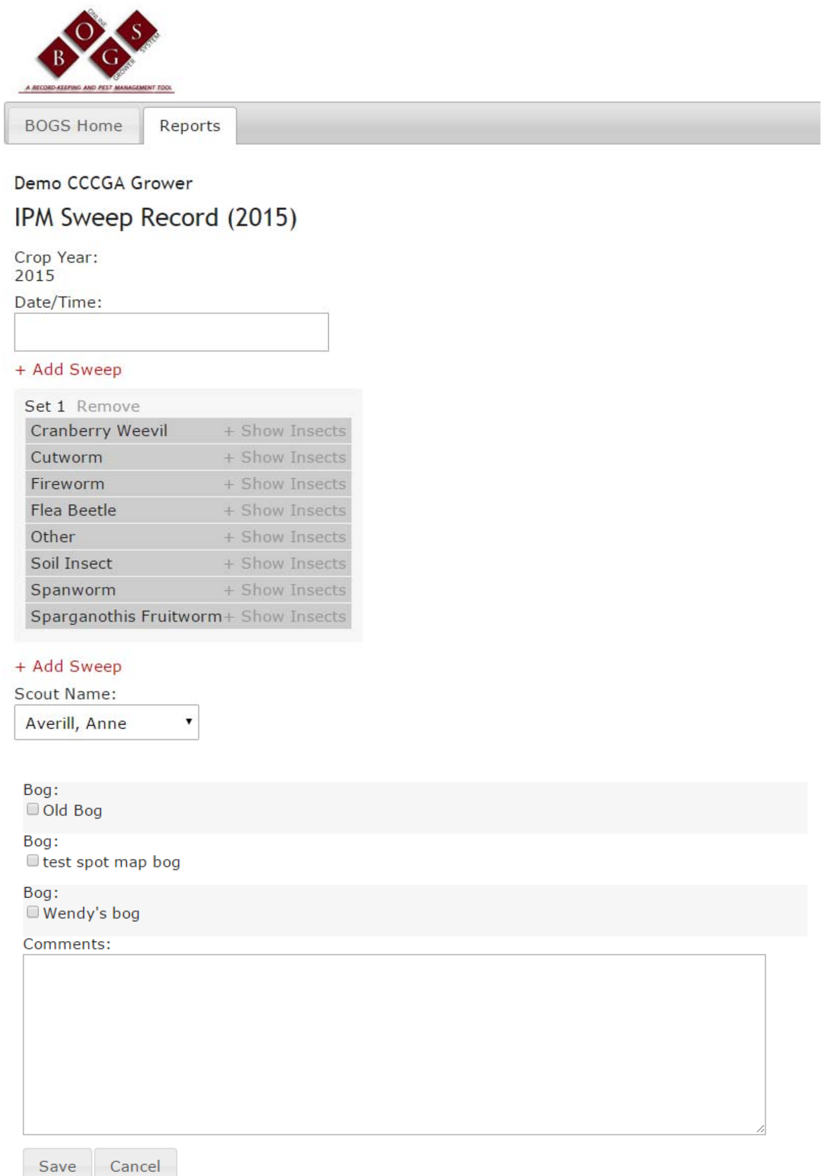
Click "+ Show Insects" to display the insects within each insect type. Enter the sweep counts for each insect listed in the appropriate boxes. To enter additional sets of sweep counts, click "+ Add Sweep" and enter the subsequent results.

Select your Scout name from the drop-down list. If the Scout's name is not found, you will need to add the person in the **Users** tab of the **Grower, Contract, Bog & People Management** section.

Select the relevant bog and select the individual sections scouted. Select "Map Sections" to view the Google map that you created when you set up the Bog and sections.

Click **Save** when you have completed your IPM Sweep Record.

You may go back to the Sweep Report screen at any time to Edit or Delete previously entered Sweeps. You may also view an online Report or PDF for printing, or to save and send in an email. You may also view the Bog/Section Map from the Sweep Record summary screen.



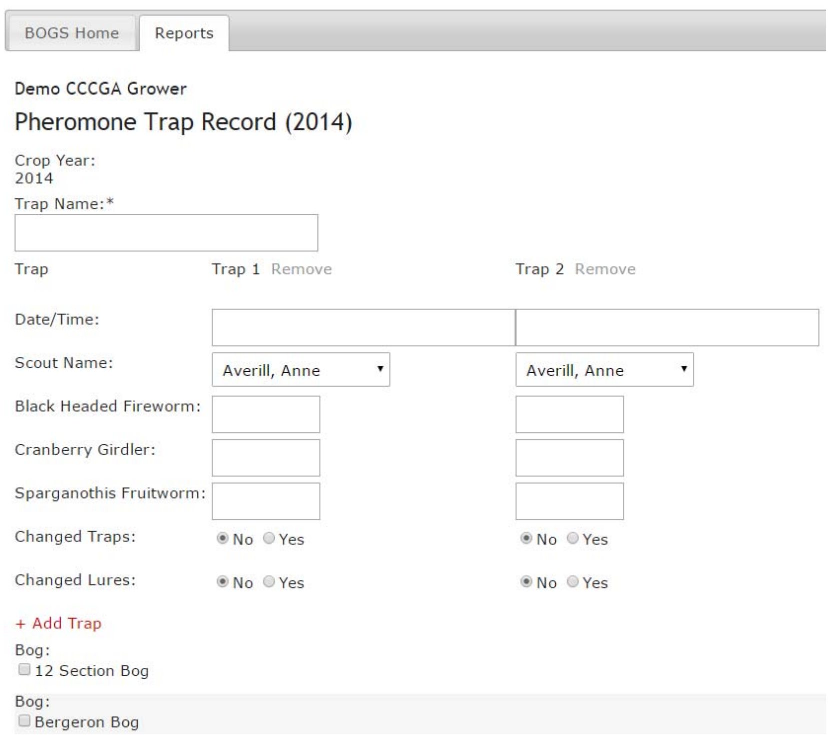
Pheromone Trap Report

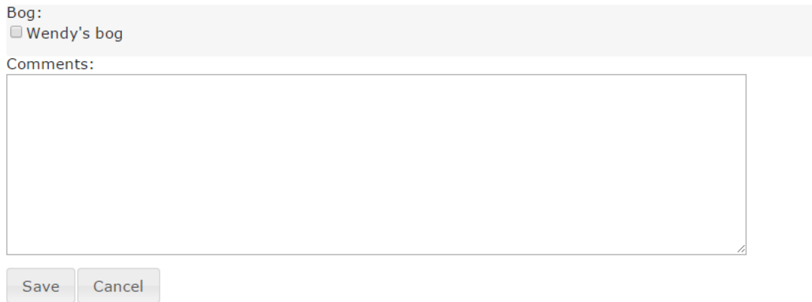
Select **Pheromone Trap Report** from the **IPM Tools** section of the Reports Home screen to record recent activity with your traps. There will be no data on this summary screen until you have input your first Trap Record. Each blue bar represents a report, with the details summarized below the bar.

Click **Add Record** to begin. Enter a Name for your Trap. Click within the “Date/Time” field to launch a calendar which will allow you to select the day and time the scouting was conducted. To select the time, place your mouse cursor over the Hour and Minute bars, holding down the mouse-click and dragging across until the correct time is displayed.

Enter the counts for each insect listed in the appropriate boxes and indicate whether or not the Traps and Lures were changed for this trap. To enter additional traps, click **Add Trap** and enter the subsequent results.

Select your Scout name from the drop-down list. If the Scout’s name is not found, you will need to add the person in the **Users** tab of the **Grower, Contract, Bog & People Management** section.





Fruitworm Egg Count Report

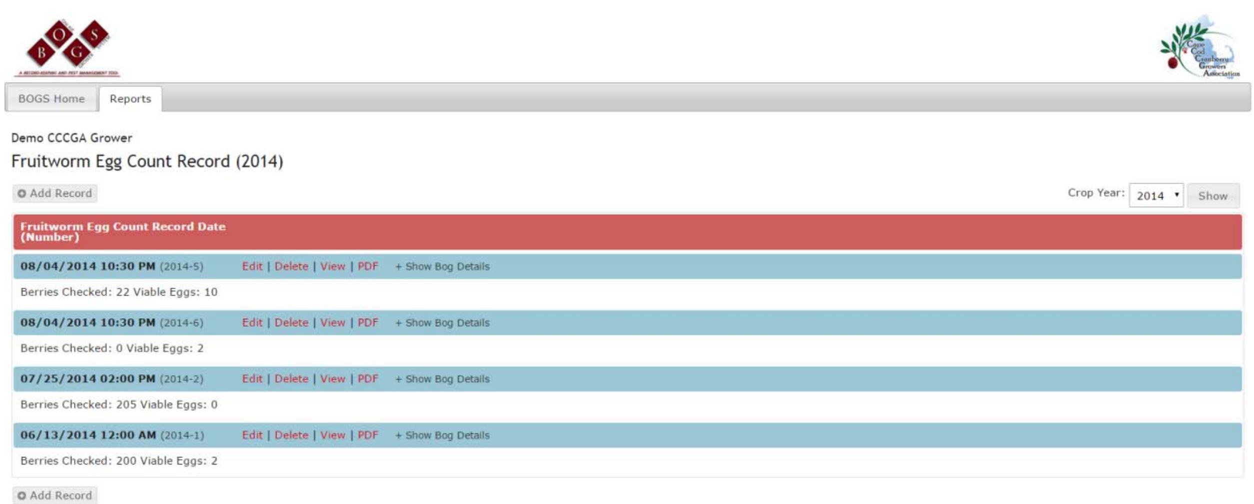
Under the **IPM Tools** section of the Reports Home screen, select **Fruitworm Egg Count Report** to record your fruitworm egg count data. There will be no data on this summary screen until you have input your first report. Each blue bar represents a report, with the details summarized below the bar.

Select the relevant bog and select the individual sections scouted. Select **Map Sections** to view the Google map that you created when you set up the Bog and sections.

Click **Save** when you have completed your Fruitworm Egg Count Report.

You may go back to the Fruitworm Egg Count Report screen at any time to Edit or Delete previously entered reports.

You may also view an online Report or PDF for printing, or to save and send in an email. You may also view the Bog/Section Map from the Fruitworm Egg Count Report summary screen.



Click **Add Record** to begin. Click within the “Date/Time” field to launch a calendar which will allow you to select the day and time the scouting was conducted. To select the time, place your mouse cursor over the Hour and Minute bars, holding down the mouse-click and dragging across until the correct time is displayed.

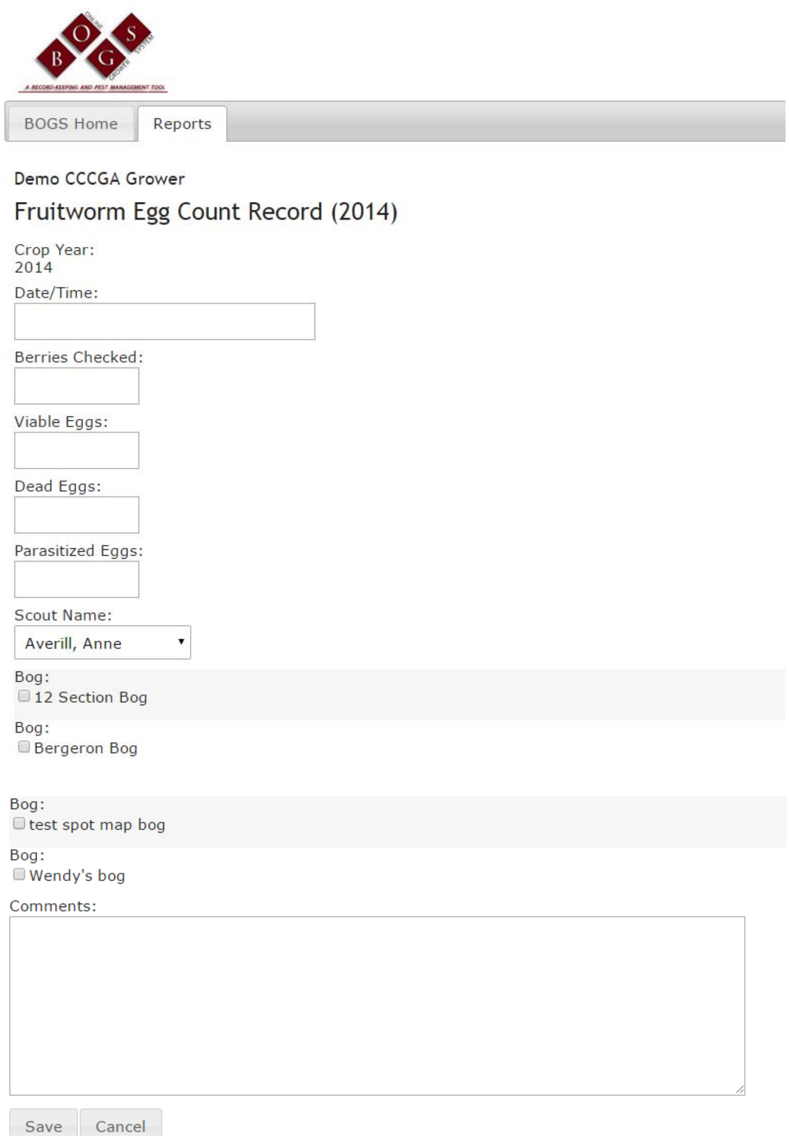
Enter the counts for Berries Checked, Viable Eggs, Dead Eggs and Parasitized Eggs in the appropriate boxes.

Select your Scout name from the drop-down list. If the Scout's name is not found, you will need to add the person in the **Users** tab of the **Grower, Contract, Bog & People Management** section.

Select the relevant bog and select the individual sections scouted. Select "Map Sections" to view the Google map that you created when you set up the Bog and sections.

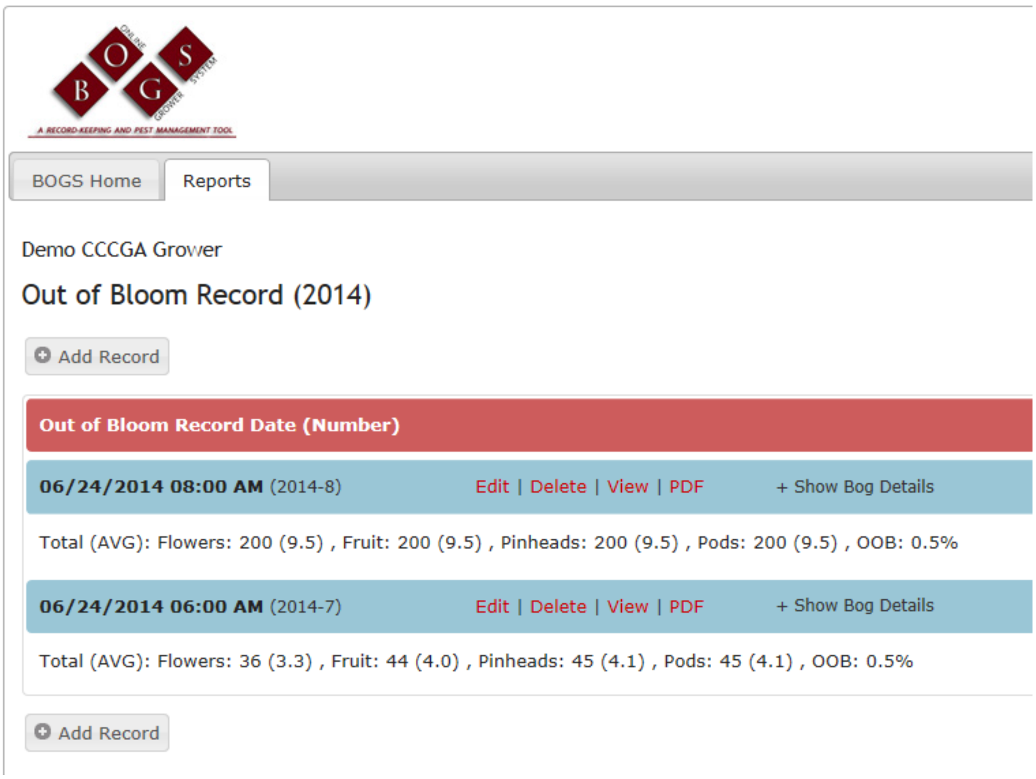
Click **Save** when you have completed your Fruitworm Egg Count Record.

You may go back to the Fruitworm Egg Count Report screen at any time to Edit or Delete previously entered data. You may also view an online Report or PDF for printing, or to save and send in an email. You may also view the Bog/Section Map from the Fruitworm Egg Count Record summary screen.



Out of Bloom Report

Select **Out of Bloom Report** from the **IPM Tools** section of the Reports Home screen to record and calculate the percent out of bloom for your bog and/or sections. There will be no data on this summary screen until you have input your first Trap Record. Each blue bar represents a report, with the details summarized below the bar.



Click **Add Record** to begin. Click within the "Date/Time" field to launch a calendar which will allow you to select the day and time the scouting was conducted. To select the time, place your mouse cursor over the Hour and Minute bars, holding down the mouse-click and dragging across until the correct time is displayed.

Enter the counts for Pods, Flowers, Pinheads, and Fruit for each Upright. The screen will display a set of ten uprights. For additional sets of uprights to record, click **Add Upright** to display another set of ten uprights.

Select your Scout name from the drop-down list. If the Scout's name is not found, you will need to add the person in the **Users** tab of the **Grower, Contract, Bog & People Management** section.

Select the relevant bog and select the individual sections scouted. Select **Map Sections** to view the Google map that you created when you set up the Bog and Sections.

Click **Save** when you have completed your Out of Bloom Record.

You may go back to the Out of Bloom Record screen at any time to Edit or Delete previously entered data. You may also view an online Report or PDF for printing, or to save and send in an email. You may also view the Bog/Section Map from the Out of Bloom Record summary screen.

Pesticides

Create Pesticide Work Order

Work Orders are optional. They can be used to help determine the amount of product needed to purchase/apply, as a work plan for applicators and, most importantly, as a check before making an application. BOGS has handler restrictions, as well as certain regulatory requirements, such as Zone II restrictions, and label requirements such as total amounts applied in a season or waiting periods between applications. By utilizing the "Work Order" function, these warning triggers will go off before any applications are made, allowing you to make adjustments or change control options.

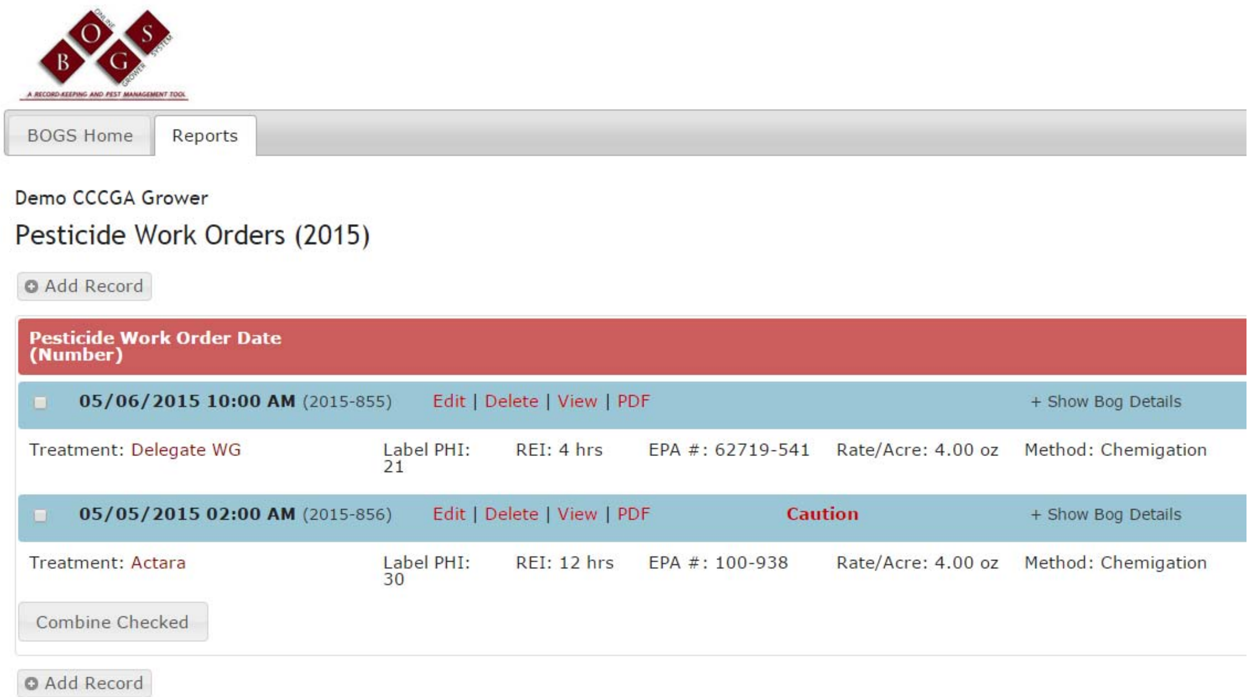
To begin, select **Create Pesticide Work Order** under the "Pesticides" section of the Reports Home screen.

The Work Order summary screen will be blank until you begin to add work orders. The blue bars represent each different work order created. The white bar below each blue bar is a summary of the order. You may go back at any time to Edit or Delete previously entered Work Orders. You may also view an online Report or PDF for printing. As an option, you may wish to save a Work Order as a PDF and then email it to an applicator as an attachment.

You may choose to combine work orders into a single report. You may go back at any time to "Uncombine" them, if you wish.

Note: BOGS will warn you of regulations, restrictions or environmental concerns associated with the use/application of a pesticide. Click the red "Caution" label from the report table to view details on any listed warnings. This information will also be displayed when you Save a new Work Order or Edit an existing Work Order. For your convenience, BOGS attempts to identify all applicable regulations, restrictions and warnings but it is ultimately the grower's responsibility to know and follow any regulations and restrictions regarding pesticide applications.

Below: Check the boxes to the left of each Work Order and select "Combine Checked" to combine the work orders into one report. Select "Uncombine" from the blue order summary to report on a single Work Order.



Click **Add Record** to begin.

Some growers may need to associate an application with a scouting record. Select the IPM record from the drop-down that is associated with the application.

Click within the "Date/Time" field to launch a calendar which will allow you to select the day and time the scouting was conducted. To select the time, place your mouse-cursor over the Hour and Minute bars, holding down the mouse-click and dragging across until the correct time is displayed.

Select a pesticide from the drop-down list. If the pesticide is not listed, contact CCCGA and it can be added to the program. The Rate/Acre field will notify you of the recommended rate of the selected pesticide. Enter your Dilutent/Acre in gallons. The method denotes the intended application mode. The sticker fields are optional, should you elect to use a sticker, NIS, etc. Select your bog(s) to display the sections within the bogs. You may select each section individually or click **Check All Sections** to automatically select all bog sections. Select "Map Sections" to view the Google map that you created when you set up the Bog and sections. The "% Acres to Treat" field defaults to 100%. If you are spot treating, input the percentage that you estimate applies to a particular application. The "Authorization Name" applies to those growers with specific on-farm certification programs.

BOGS Home | Reports

Demo CCCGA Grower

Pesticide Work Order (2015)

Crop Year:
2015

IPM Record:

Date/Time:

Pesticide:

Rate/Acre:

Diluent/Acre:
gls

Method:

Sticker Type:

Sticker Trade Name:

Sticker Rate/Acre:
fl oz

Notes:

Bog:
☐ 12 Section Bog

Bog:
☐ Bergeron Bog

% Acres to Treat:
100 %

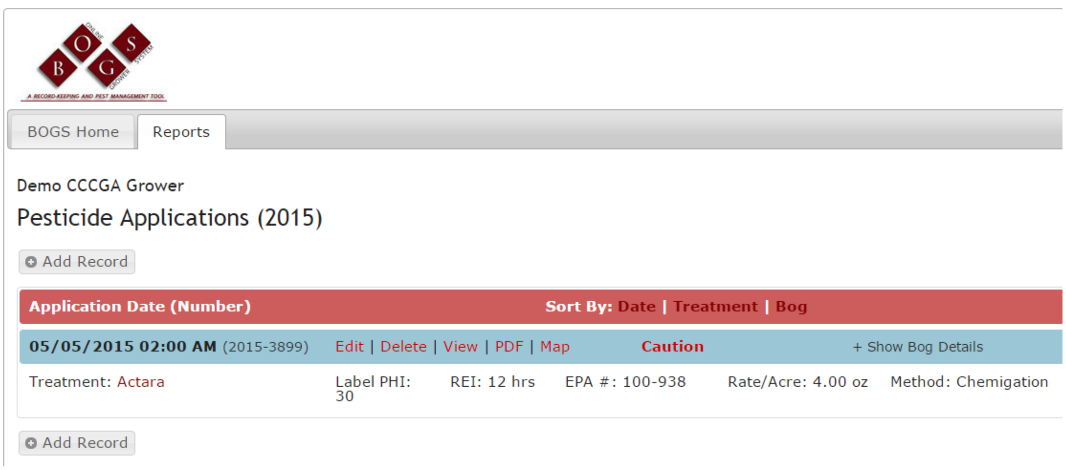
Authorization Name:

Save | Cancel

Applying Pesticides

Under the *"*Pesticides*"* section of the Reports Home screen, select **Pesticides Applied**. The pesticide application summary screen will be blank until you record a pesticide application. As the example below depicts, each blue bar represents a different pesticide treatment, with details in white below that. The default sort order is by date, with the most recent application at the top. You may also sort the list by treatment or bog.

Note: BOGS will warn you of restrictions associated with the use/application of a pesticide. Click the red "Caution" label from the report table to view details on any listed restrictions. This information will also be displayed when you Save a new Pesticide Input or Edit an existing Pesticide Input. Remember, BOGS attempts to record all possible restrictions but it is ultimately the grower's responsibility to read and follow the pesticide label and to check with your handler on any additional restrictions.



You have the option to associate a pesticide application with a work order. If you select a work order, much of the information is pre-populated; but you can always edit these fields. The asterisks denote required fields.

Select your bog(s) to display the sections within the bogs. You may select each section individually or click **Check All Sections** to automatically select all bog sections. Select "Map Sections" to view the Google map that you created when you set up the Bog and sections.

For spot treatments, enter the percentage of bog treated in the "% Acres Treated" field. There are options for selecting both the primary and secondary target pests. The weather and WPS fields are optional but aspects may prove helpful should you ever be audited or have a neighbor complaint.

Note: An Applicator, with license number, must be set up in the Users tab of your BOGS account **before** you record a pesticide application.

Select the pesticide applicator from the drop-down list. If the correct Applicator Name is not available it means you have not set them up as a User or you did not assign them a pesticide license number (If a User does not have a pesticide license number, their name will not be available in the list). Please see the User section of this guide for more information about setting up Users.

The EPA NPDES fields are only for those growers with a NOI as part of the NPDES process. Anything can be written in the notes field.

BOGS Home | Reports

Demo CCCGA Grower

Pesticide Application Record (2015)

Crop Year:
2015

Pesticide Work Order:

Date/Time: *

Pesticide: *

Rate/Acre: *

Diluent:
gls

Method: *

Bog:
☐ 12 Section Bog

Bog:
☐ 2nd bog for nutrient planning

% Acres Treated: *
100 %

Target Pest:

Secondary Target Pest(s):
+ Show Secondary Target Pests

Applicator Name (License Number): *
☐ Hamilton, Douglas (272013)
☐ Julien, Claude (543)
☐ Kennard, Barry (1234567)
☐ Rask, Tuukka (4040)
☐ Rinta, Linda (1234567890)
☐ Sylvia, Marty (17608)
☐ Wick, Brian (7654321)

Growth Stage:

Weather Conditions:

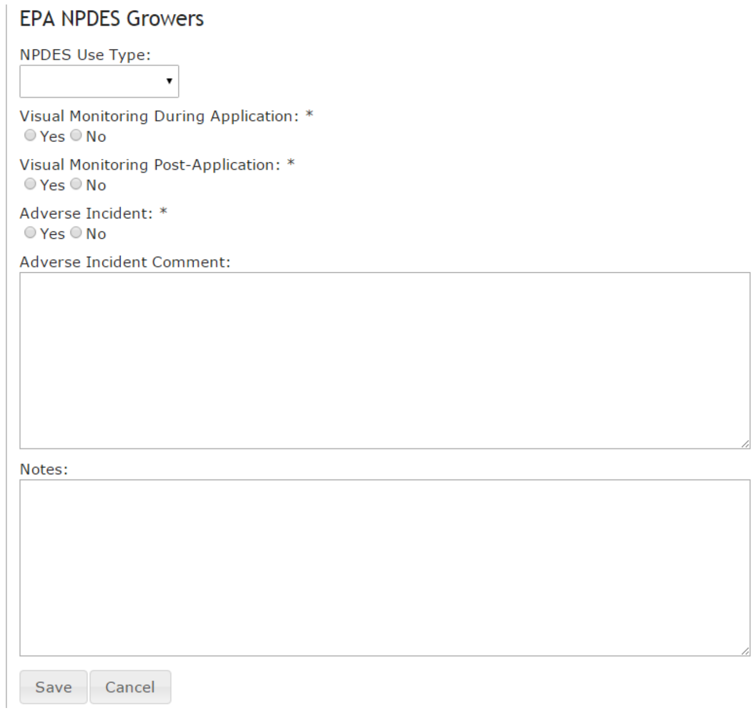
Temperature:
°F

Wind Speed:
mph

Personal Protection Worn:
☐ Boots ☐ Face Shield ☐ Gloves
☐ Coveralls ☐ Glasses ☐ Respirator

Spray Calculation Check:
☐ Area ☐ Pressure ☐ Velocity

(Input screen continued from previous page)



You may go back to the Pesticide Application screen at any time to Edit or Delete previously entered data. You may also view an online Report or PDF for printing, or to save and send in an email. You may also view the Bog/Section Map from the Out of Bloom Record summary screen.

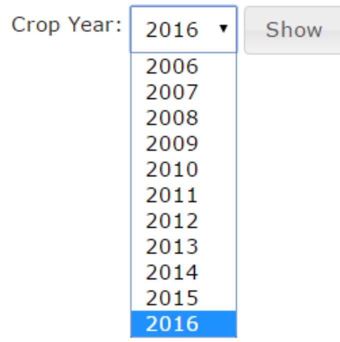
Pesticide Use Reports

There are several reports associated with Pesticide Applications. You may view pesticide use by bog or contract. The **Pesticide Use Report (Filter Bog/Section)** allows you to view applications to one or more bog section by selecting the bogs and associated sections, in essence filtering the results.

You may also run handler and state reports.

If you are a NJ grower, you will have the **State-NJ** report available to you. If you are a MA grower you will have the **State-MA** report available to you. The state reports are due in the spring following the previous crop year. If you are running your state report in the spring, be sure to change your Crop Year to the previous year. (Be sure to change the Crop Year back to the current year before you proceed with any applications or reporting for your current crop.)

See Crop Year drop-down field on next page.

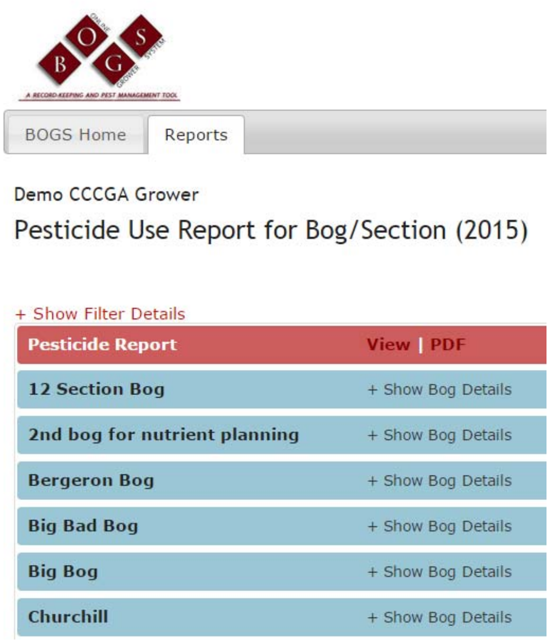


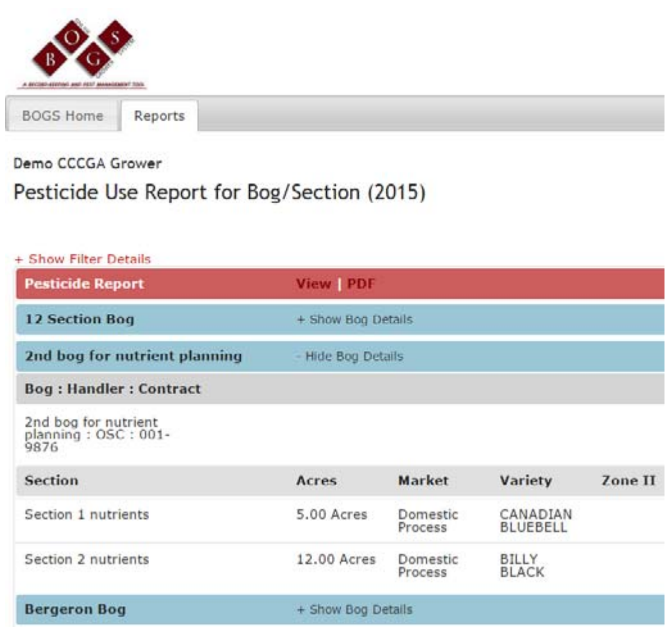
Handler reports are specific to each handler. Some handlers prefer to receive their reports electronically. Please refer to the instructions on each individual Handler Report page for more information.

The **PHI Delivery Report** displays each bog section and the earliest you may deliver that section based on PHI.

The **Bogs in Zone II** report lists all of your bog sections and identifies which ones are in a Zone II (this is based on how you initially setup your bog information).

Select **MA Zone II Pesticide Notification Form** to notify the Massachusetts Department of Agricultural Resources Pesticide Bureau when you apply a pesticide product that is listed on the Groundwater Protection List. BOGS will keep track of any relevant Pesticide Applications and will produce a "Groundwater Protection Program Notification Form" that you must mail in within 10 days of the end of each calendar month.





Nutrients

Create Your Nutrient Management Plan

New Regulations: Starting with the 2016 growing season, all growers with more than 10 acres will be required to have a Nutrient Management Plan to satisfy the new Massachusetts plant nutrient regulations (333 CMR 31.00). This plan must be created BEFORE applying any fertilizer.

For more information on the nutrient management regulations, visit the Massachusetts Department of Agricultural Resources' web site at http://www.mass.gov/eea/agencies/agr/pesticides/plant-nutrient-management.html

Your plan will include some general information regarding your bog location, as well as specific needs of cranberry plants as provided by the UMass Cranberry Station Chart Book. The general information is created by YOU with your inputs to the BOGS system when you set up and map your Bogs and Sections

Each planning element will be created as you make a Nutrient “work order” of your intentions. A work order can always be altered. After you apply the nutrients and enter this information, the ‘plan” becomes an “application” and will be automatically stored in your reports. Every application should have a corresponding plan (work order), associated with it. If you keep this up to date than you will be able to print out a Nutrient Management Plan at any time and demonstrate your compliance with the Nutrient Management Regulations.

To Create Your Nutrient Management Plan (required for all growers with 10 or more acres of bog) you must perform the following in your BOGS account:

- Setup Bog and Section Information, including Maps
- Enter Tissue or Soil Test Results (as available)
- Calculate Your Base Nutrients
- Create Nutrient Work Order
- Record Nutrients Applied
- Generate a Plan

Please refer to the appropriate sections of this User Guide for more information about each of the functions listed above.

Calculate Your Nutrients

Under the “Nutrients” section of the Reports Home screen, select **Calculate Your Nutrients** to calculate either the total pounds of nutrient needed based on the desired nitrogen amount or the total pounds of each element based on the total pounds of nutrient to be applied per acre.

BOGS Home | Reports

Demo CCCGA Grower

Calculate Your Nutrients

Calculate Total Pounds Nutrient per Acre Based on Nitrogen Need

How Many Pounds of Nitrogen:

0

Nitrogen Ratio (%):

0

Phosphorous Ratio (%):

0

Potassium Ratio (%):

0

Calculate Total Pounds of Each Element Based on Total Pounds of Nutrient Applied per Acre

What are the total pounds of nutrient per acre to be applied:

0

Nitrogen Ratio (%):

0

Phosphorous Ratio (%):

0

Potassium Ratio (%):

0

Calculate | Cancel

Enter your data and click **Calculate**.

BOGS Home | Reports

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Calculate Your Nutrients

No more than 20 lb/A P recommended if tissue test is normal (UMass Cranberry Station)

Calculate Total Pounds Nutrient per Acre Based on Nitrogen Need

How Many Pounds of Nitrogen: 100
Nitrogen Ratio (%): 20
Phosphorous Ratio (%): 20
Potassium Ratio (%): 20
Total Pounds of Nutrient Required per Acre: 500
Total Pounds of Nitrogen: 100
Total Pounds of Phosphorous: 44
Total Pounds of Potassium: 83

Calculate Total Pounds of Each Element Based on Total Pounds of Nutrient Applied per Acre

What are the total pounds of nutrient per acre to be applied: 150
Nitrogen Ratio (%): 20
Phosphorous Ratio (%): 20
Potassium Ratio (%): 20
Total Pounds of Fertilzer: 150
Total Pounds of Nitrogen: 30
Total Pounds of Phosphorous: 13.2
Total Pounds of Potassium: 24.9

New Calculation

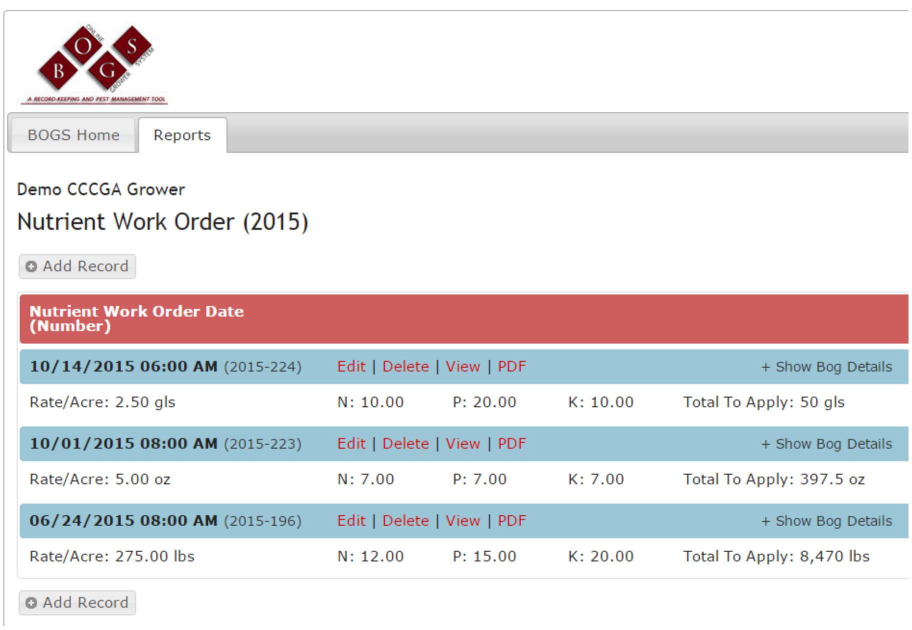
Calculations will be performed by BOGS based on your input values. Any calculations that are out of line with recommendations as outlined in the UMass Cranberry Station Guidelines will display a warning at the top of the page.

Create Nutrient Work Order

Nutrient Work Orders are optional for most growers. If you farm more than 10 acres and will be applying nutrients this growing season Work Orders are required to be a part of your Nutrient Management Plan, as recommended by UMass Cranberry Station Guidelines. Work Orders can be used to help determine the amount of product needed to purchase/apply, as a work plan for applicators and, most importantly, as a check before making an application. To begin, select **Create Nutrient Work Order** under the **Nutrients** section of the Reports Home screen.

The work order screen will be blank until you create your first Work Order. The blue bars represent each different Work Order created. The white bar below each blue bar is a summary of the order. You may go back at any time to Edit or Delete previously entered Work Orders. You may also view an online Report or PDF for printing. As an option, you may wish to save a Work Order as a PDF and then email it as an attachment. You may also view the Bog/Section Map from the summary screen.

Note: BOGS will warn you of regulations, restrictions or environmental concerns associated with the use/application of a nutrient. Click the red "Caution" label from the report table to view details on any listed warnings. This information will also be displayed when you Save a new Work Order or Edit an existing Work Order. For your convenience, BOGS attempts to identify all applicable regulations, restrictions and warnings but it is ultimately the grower's responsibility to know and follow any regulations and restrictions regarding nutrient applications.



Click **Add Record** to begin.

BOGS Home | Reports

Demo CCCGA Grower

Nutrient Work Order (2015)

Crop Year:
2015

Date/Time: *

Nutrient Name:

Rate/Acre: *

Rate Type: *

Nitrogen Ratio (%): *

Phosphorous Ratio (%): *

Potassium Ratio (%): *

Growth Stage:

Poor Vine Condition:
No Yes

Thin Density:
No Yes

Excessively Upright Length:
No Yes

Undesirable Leaf Color:
No Yes

Insect Damage:
No Yes

Winter Damage:
No Yes

Application Company Fields:
+ Show Fields

Aircraft Fields:
+ Show Fields

Bog:
12 Section Bog

Bog:
2nd bog for nutrient planning

Bog:
Bergeron Bog

% Acres to Treat: *

100 %

Save Cancel

Click within the "Date/Time" field to launch a calendar which will allow you to select the day and time the application is planned. To select the time, place your mouse-cursor over the Hour and Minute bars, holding down the mouse-click and dragging across until the correct time is displayed.

Input the name of the Nutrient you have applied and the Rate/Acre. Select the units (Rate Type) for your Rate/Acre and enter the Nitrogen/Phosphorous/Potassium ratios. Provide characteristics about your crop that helped you decide to apply a particular nutrient, and provide Application Company and Aircraft information as needed. These optional fields are to be used as part of your Nutrient Management Plan if you farm more than 10 acres and will be applying nutrients this season.

Select your bog(s) to display the sections within the bogs. You may select each section individually or click **Check All Sections** to automatically select all bog sections. Select "Map Sections" to view the Google map that you created when you set up the Bog and sections.

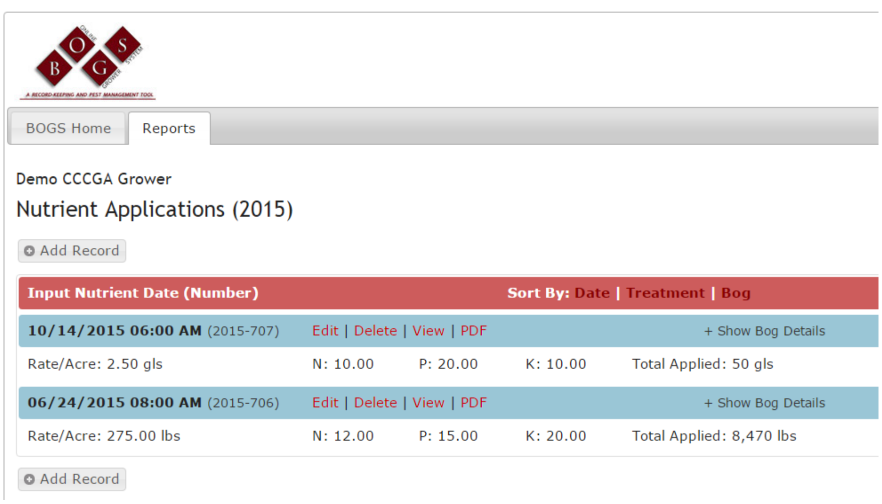
The "% Acres to Treat" field defaults to 100%. If you are spot treating, input the percentage that you estimate applies to a particular application.

Click **Save** to save your Nutrient Work Order.

Applying Nutrients

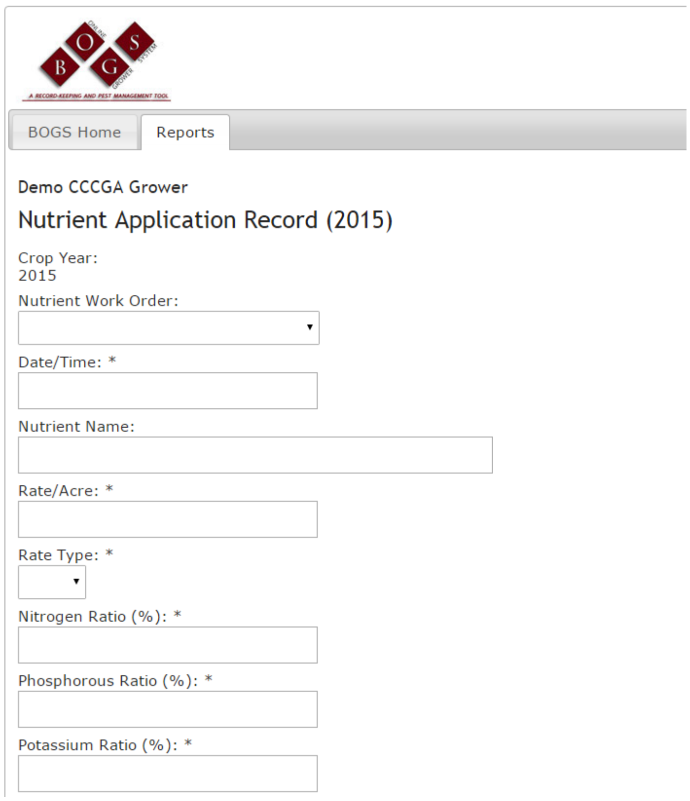
To record Nutrient Applications, under the *"Nutrients"* section of the Reports Home screen, select **Nutrients Applied** from the Reports Home page.

The Nutrient Application Record summary screen will be blank until you input your Applications. The blue bars represent each Nutrient Application Record created. The white bar below each blue bar is a summary of the Application. You may go back at any time to Edit or Delete previously entered Nutrient Application Records. You may also view an online Report or PDF for printing. You may also save your Nutrient Application Record as a PDF and email it as an attachment. You may also view the Bog/Section Map from the summary screen.

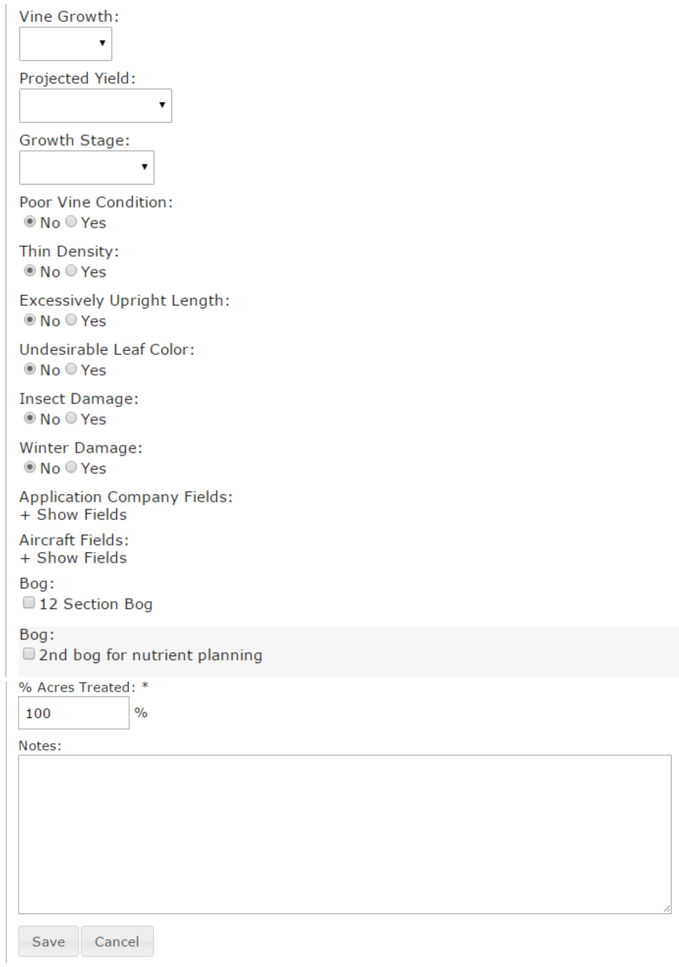


<u>Note:</u> BOGS will warn you of regulations, restrictions or environmental concerns associated with the use/application of nutrient. Click the red "Caution" label from the report table to view details on any listed warnings. This information will also be displayed when you Save a new Nutrient Application Record or Edit an existing Nutrient Application Record. Remember, BOGS attempts to record all possible regulations, restrictions or warnings but it is ultimately the grower's responsibility to know and follow any of regulations or restrictions regarding fertilizer applications.

Click **Add Record** to begin.



(Screen continued on next page)



You have the option to associate a Nutrient Application Record with a Work Order. If you select a Work Order, many of the fields will be pre-populated - you may edit these fields at any time.

Click within the “Date/Time” field to launch a calendar which will allow you to select the day and time the application was made. To select the time, place your mouse-cursor over the Hour and Minute bars, holding down the mouse-click and dragging across until the correct time is displayed.

Input the name of the Nutrient you have applied and the Rate/Acre. Select the units (Rate Type) for your Rate/Acre and enter the Nitrogen/Phosphorous/Potassium ratios. Provide characteristics about your crop that helped you decide to apply a particular nutrient, and provide Application Company and Aircraft information as needed.

Select your bog(s) to display the sections within the bogs. You may select each section individually or click **Check All Sections** to automatically select all bog sections. Select “Map Sections” to view the Google map that you created when you set up the Bog and sections.

Inputting less than 100% in the “% Acres to Test” field will allow you to produce Spot Treatment Maps at a later time.

Click **Save** to save your Nutrient Application Record.

Nutrient Application Report

Under the *"Nutrients"* section of the Reports Home screen, select **Nutrient Application Report** if you would like to view your nutrient use to date. This report can be printed or saved as a PDF.

Nutrient Application Report (2015)

Demo CCCGA Grower

Date/Time: 01/19/2016 02:52 PM

Bog	Section	Acres	Date	N	P	K	lb/Acre	N/Acre	Total N	P/Acre	Total P	K/Acre	Total K	Total lbs
Bergeron Bog	A1, A3	8.30	24-Jun	12	15	20	275	33.0	273.9	18.2	150.6	45.7	378.9	2,282
Total								**33.0**	**273.9**	**18.2**	**150.6**	**45.7**	**378.9**	**2,282**
Big Bad Bog	No Name	8.00	24-Jun	12	15	20	275	33.0	264.0	18.2	145.2	45.7	365.2	2,200
Total								**33.0**	**264.0**	**18.2**	**145.2**	**45.7**	**365.2**	**2,200**
Big Bog	A1	4.50	24-Jun	12	15	20	275	33.0	148.5	18.2	81.7	45.7	205.4	1,238
Total								**33.0**	**148.5**	**18.2**	**81.7**	**45.7**	**205.4**	**1,238**
Churchill	C2b, C3	10.00	24-Jun	12	15	20	275	33.0	330.0	18.2	181.5	45.7	456.5	2,750
Total								**33.0**	**330.0**	**18.2**	**181.5**	**45.7**	**456.5**	**2,750**
Old Bog	B1, B2	20.00	14-Oct	10	20	10	24	2.4	47.5	2.1	41.8	2.0	39.4	475
Total								**2.4**	**47.5**	**2.1**	**41.8**	**2.0**	**39.4**	**475**

Total Amount Needed	N	P	K	Total lbs	# 50 lb Bags
	12	15	20	8,470	169
				8,470	

Total Amount Needed	N	P	K	Total gls
	10	20	10	50
				50

Horticultural Inputs

Please refer to the UMass Cranberry Station Guidelines for information regarding the timing and requirements for **Tissue Tests** and **Soil Tests**. Please visit http://ag.umass.edu/cranberry/publications-resources/cranberry-chart-book and review the Nutrition section of the Chart Book.

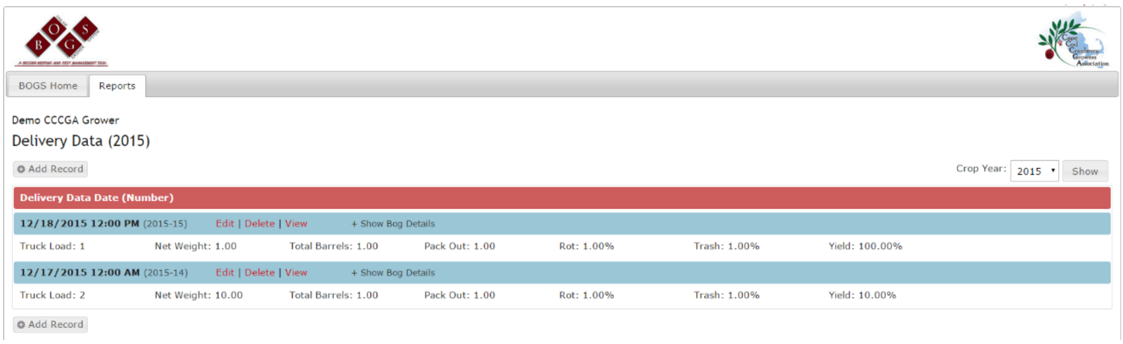
A grower can record sand application on their **Sanding Report**, including inches, number of loads, sanding method, etc.

A grower can record water use on their **Water Use Report**, including start/stop times, number of gallons per minute, reason for running pumps, etc.

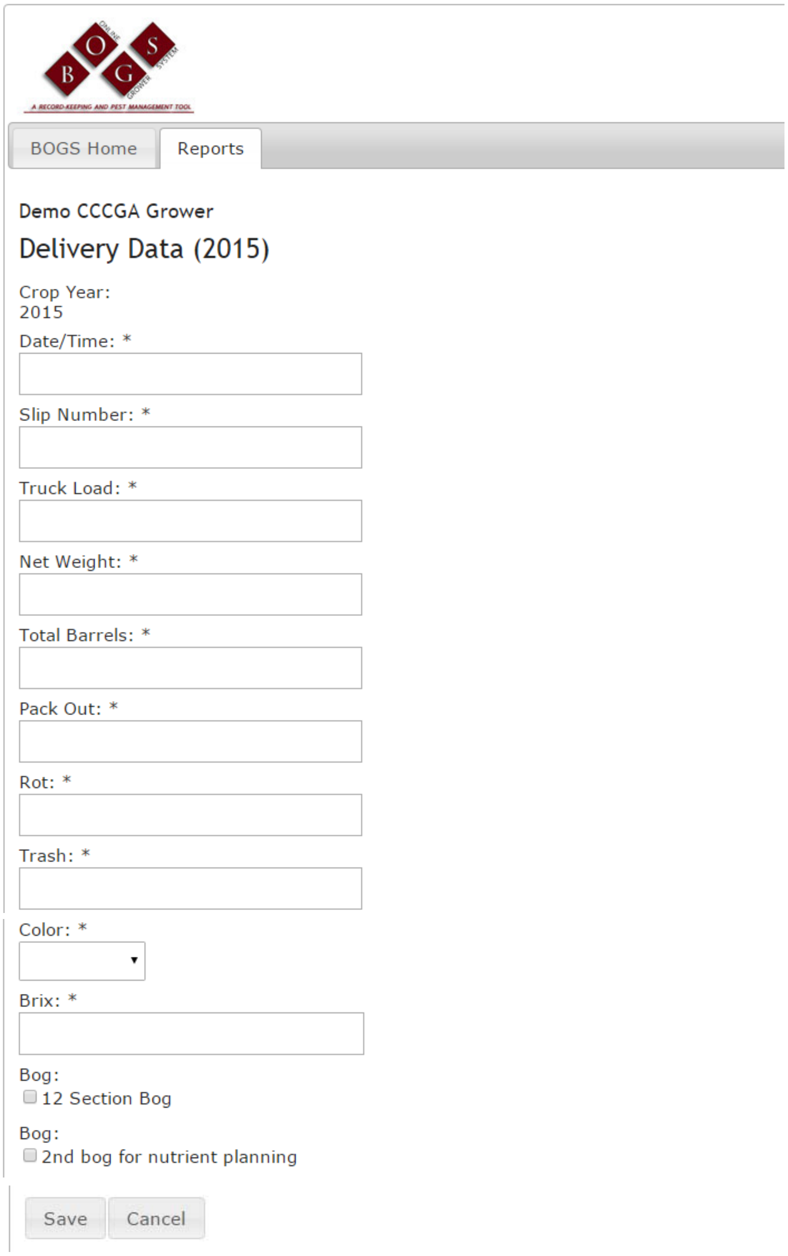
Delivery Data

Delivery Data allows you to record and report the delivery details of your harvest including barrels, color and rot.

The Delivery Data summary screen will be blank until you input your delivery information. The blue bars represent each delivery data record created. The white bar below each blue bar is a summary of that record. You may go back at any time to View, Edit or Delete previously entered Data Delivery records. You may also view Bog/Section information from the summary screen.



Click **Add Record** to begin.



Click within the “Date/Time” field to launch a calendar which will allow you to select the day and time of the Delivery. To select the time, place your mouse-cursor over the Hour and Minute bars, holding down the mouse-click and dragging across until the correct time is displayed.

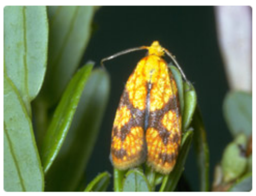
Input information in each field to describe your Delivery.

Select your bog(s) to display the sections within the bogs. You may select each section individually or click **Check All Sections** to automatically select all bog sections. Select “Map Sections” to view the Google map that you created when you set up the Bog and sections.

Click **Save** to save your Delivery Data record.

Insect Management Program

Use the Insect Management Program to help identify insect pests on your bogs and to identify chemical and cultural treatments for the pest(s) in question.



Interactive Insect Management Program

This is the UMass Cranberry Chart Book in an online format. Use it to help identify insect pests on your bogs and be given options for how to treat them – including chemical and cultural.

Enter

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NORTHEAST CENTER FOR RISK MANAGEMENT EDUCATION

USDA United States Department of Agriculture National Institute of Food and Agriculture