



Case IH AFS/Farm Works Map Creation

For use with software version 2013.02.537 and up





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Introduction

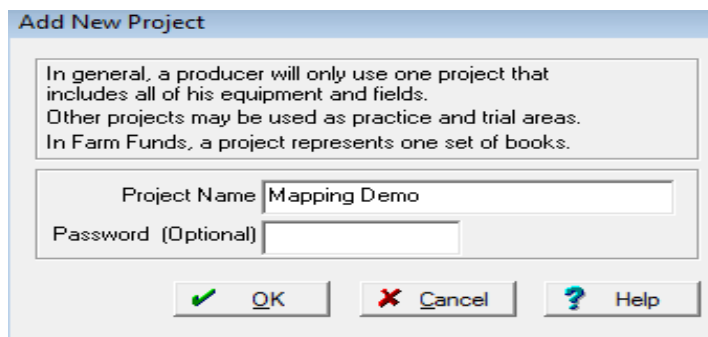
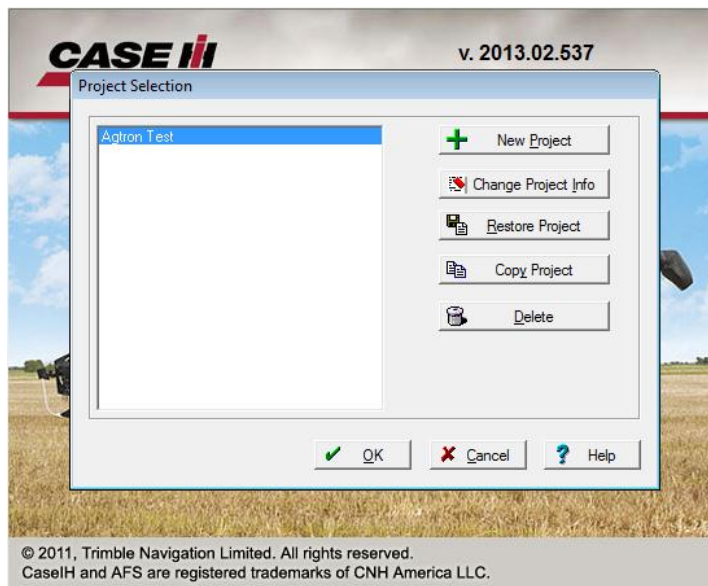
Note

*This manual is written using
CASE IH AFS Software version
2013.02.537.*

This manual provides a basic description of creating a map for variable rate applications using CASE AFS/Farm Works Desktop Software. It includes details of all requirements that must be met to create a working map.

To begin using the software a project has to be created. When you open the AFS Software the Project Selection Window appears.

- ▶ Select “New Project” in the top right of the Project Selection window.
- ▶ Type information into the appropriate boxes and click OK.
- ▶ Select project from Project Selection list and click OK.



Once in Case AFS/Farm Works update to the latest version as follows:

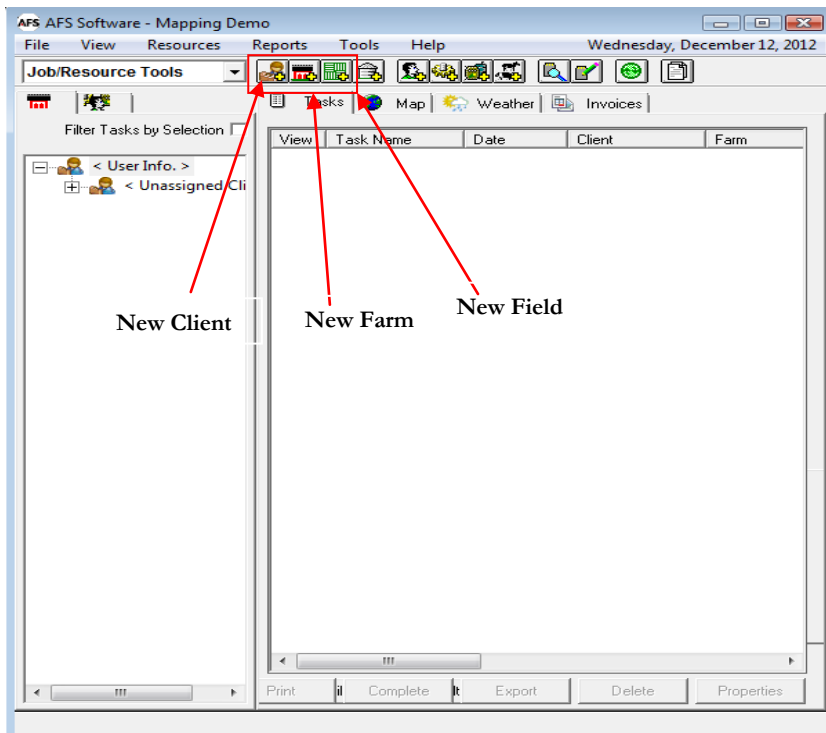
- ▶ Select Help
- ▶ Click Check for Updates



Part 1: Creating The Map


To begin map creation, Client, Farm and Field information must be entered into the software. For the purposes of this example a client called “Agtron Enterprises” has been created. This client farms Field1 on Agtron Farms Ltd.

As shown in the following screen shots; new clients, farms and fields can be created by clicking on the appropriate icons.



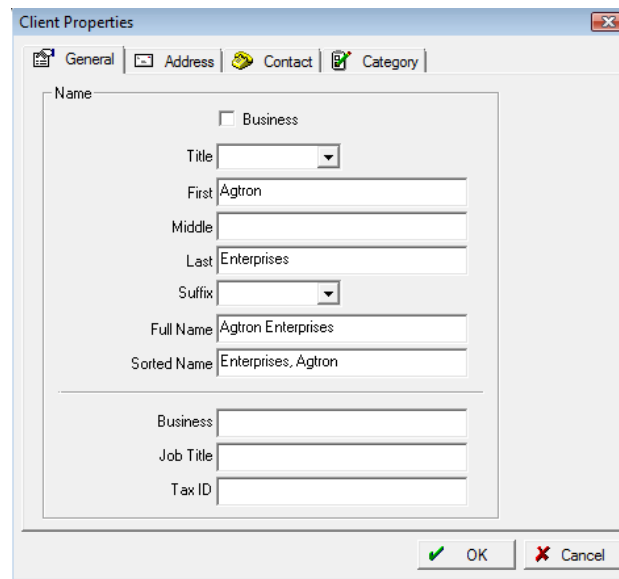


Creating a New Client

► To create a new client, click on the New Client icon. 

The Client Properties window appears.

► Type your information into the appropriate boxes and press “OK”




The screenshot shows the 'Client Properties' dialog box with the following fields and values:

- General** tab selected.
- Business
- Title: [Dropdown]
- First: Agtron
- Middle: [Empty]
- Last: Enterprises
- Suffix: [Dropdown]
- Full Name: Agtron Enterprises
- Sorted Name: Enterprises, Agtron
- Business: [Empty]
- Job Title: [Empty]
- Tax ID: [Empty]

Buttons: OK (with green checkmark), Cancel (with red X).



Creating a New Farm

► To create a new farm, click the New Farm icon. 

The Farm Properties window appears.

► Type your information into the appropriate boxes and press “OK”

Farm Properties

General

Farm

Description: Agtron Farm Co. Ltd.

Client: Enterprises, Agtron

Area

Mapped: 0 acres


Legal: 0 acres

Tillable: 0 acres

Notes

OK Cancel

Creating a New Field

► To create a new field, click the New Field icon. 

The Field Properties window appears.

► Type your information into the appropriate boxes and press “OK”

Field Properties

General Info Landlords Photo

Field

Description: Demo Field

Area

Mapped: 0.00 acres

Legal: 0.00 acres

Tillable: 0.00 acres

Owner / Landlord

Client: Enterprises, Agtron

Farm: Agtron Farm Co. Ltd.

Owned

Cash Rent

Share Crop

OK Cancel



Editing Map Boundaries

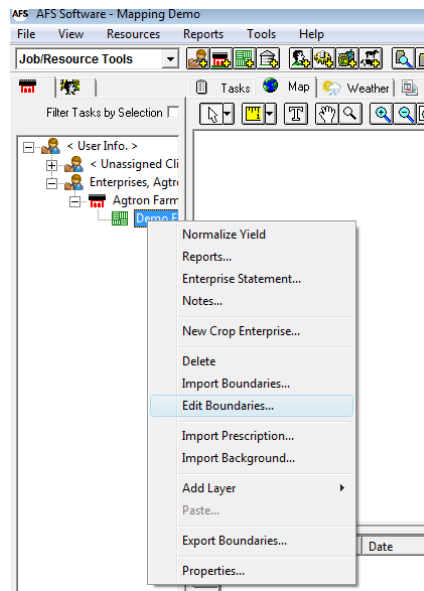
Once a Client, Farm, and Field have been created, the boundaries for the field can be generated. This can be done as follows:

- ▶ Loading recorded data from your console using the Read Task Data icon.



- ▶ Importing an aerial view photograph and drawing the outline.

For this example, a boundary has been created by right clicking the field name and selecting Edit Boundary.



- ▶ To begin click the Background Imagery icon.



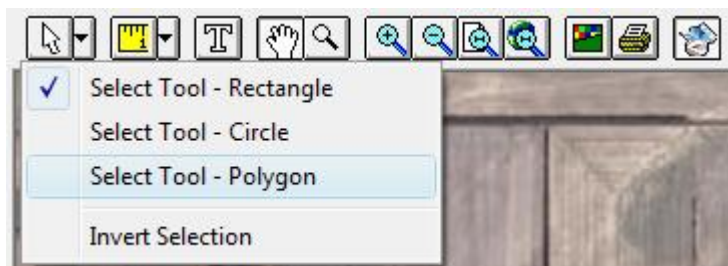
Using GPS coordinates(found at the bottom of screen), zoom and pan tools find the field you wish to map.




- ▶ Once the field has been located you can begin editing the boundary.

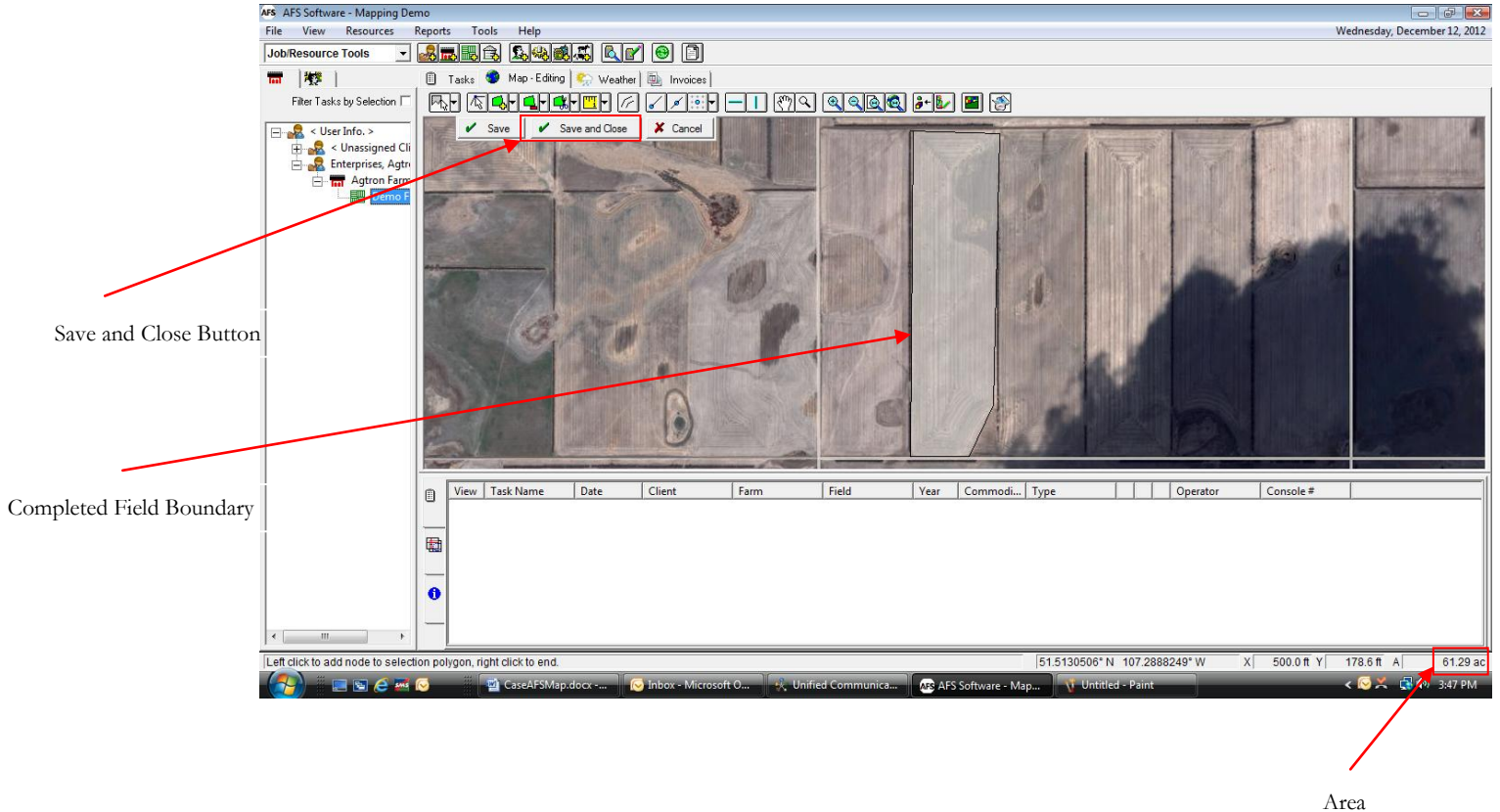
In Map-Editing mode, there are many tools available to create and edit geographical land outlines.

- ▶ Click on the select tool icon and choose the Polygon.





- ▶ Then select the Include Polygon tool. 
- ▶ Now using the Polygon tool, draw the field boundary.
- ▶ When boundary has been created right click and select Finish.
- ▶ Then select Save and Close
- ▶ Notice the area, in acres, is shown in the bottom right corner of the AFS window. Area can also be displayed by right-clicking the field graphic and selecting Properties.



At this point, the creation of the boundary for this field has been completed.

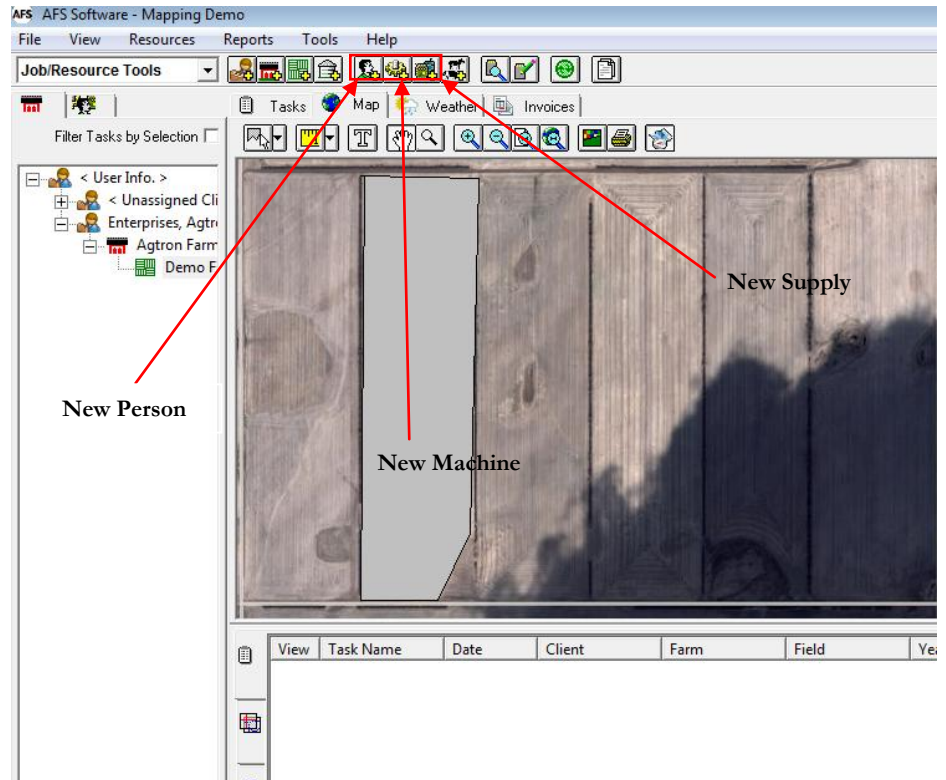
Repeat this process for all fields on your farm.



Part 2: Creating the Task


A working group must be created to create the task data for variable rate application. A working group consists of a Person, Machine and Supply.

As shown in the following screen shots, new machines, implements, operators and crops can be created by selecting the appropriate icons.





Creating New Person

- ▶ To create a new person click on the New Person icon. 
- The Person Properties window appears.
- ▶ Type your information into the appropriate boxes and click “OK”

Person Properties

Employee | Photo | Invoice

General | Address | Contact | Category

Name

Business

Title Mr. ▾

First John

Middle

Last Doe

Suffix ▾

Full Name John Doe

Sorted Name Doe, John


Business

Job Title

Tax ID

OK Cancel

Creating New Machine

- ▶ To create a new machine, click the New Machine icon. 
- The Machine Properties window appears.
- ▶ Type your information into the appropriate boxes and click “OK”

Machine Properties

General | Service | Options | Photo | Invoice | Devices

Machine

Description 4WD Tractor

Category Planting/Seeding ▾

Model

Make

Model

Year

Serial #

Console

ID #

Operation

Costing Unit acre ▾


Costing Rate \$0.00

Width 0 feet

OK Cancel

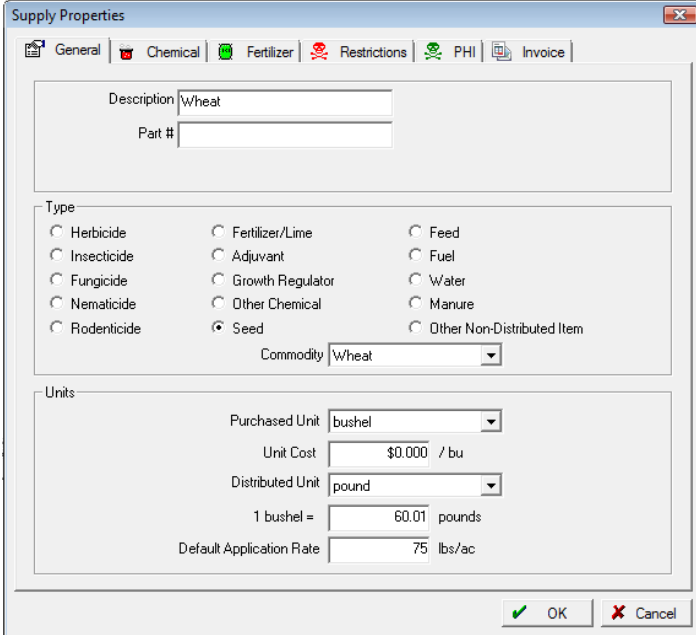


Creating New Supply

- ▶ To create a new supply, click the New Supply icon. 
- The Supply Properties window appears.
- ▶ Type your information into the appropriate boxes.

Note:

*It is very important to enter a **Default Application Rate** when creating the supply, as this is the rate that will be applied when GPS signal is lost, or the tractor has traveled off the map boundaries.*



Supply Properties

General | Chemical | Fertilizer | Restrictions | PHI | Invoice

Description: Wheat
Part #:

Type

Herbicide Fertilizer/Lime Feed
 Insecticide Adjuvant Fuel
 Fungicide Growth Regulator Water
 Nematicide Other Chemical Manure
 Rodenticide Seed Other Non-Distributed Item

Commodity: Wheat

Units

Purchased Unit: bushel
Unit Cost: \$0.000 / bu
Distributed Unit: pound
1 bushel = 60.01 pounds
Default Application Rate: 75 lbs/ac



OK Cancel

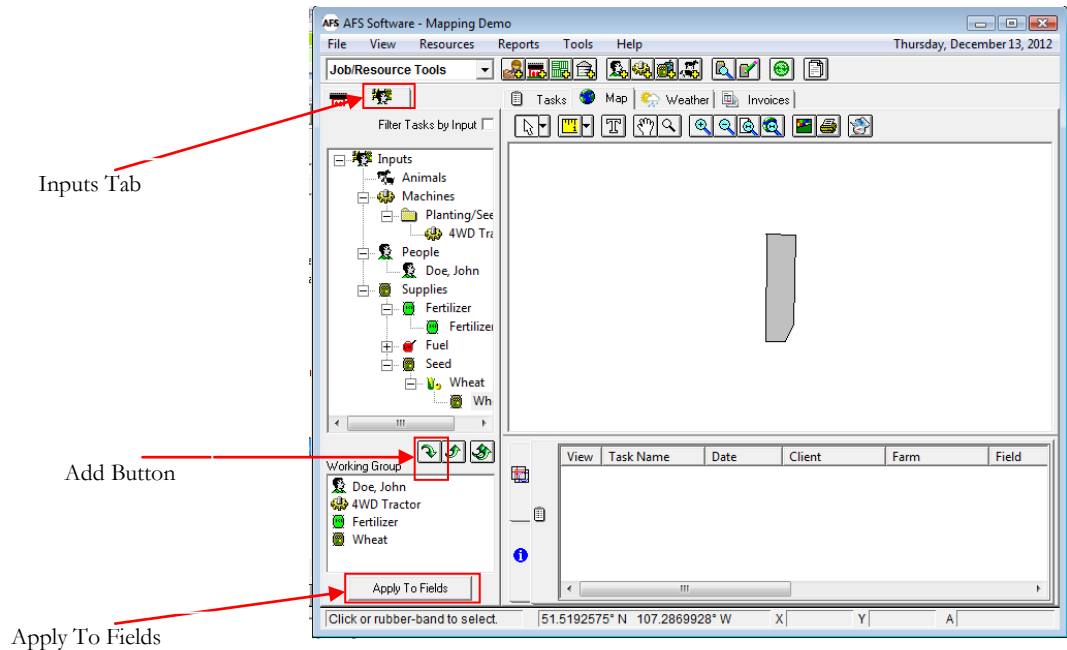
- ▶ Repeat supply creation for each seed type, fertilizer, etc.

For the purposes of this example, a person “Jon Smith,” a machine “4WD Tractor,” and supplies “Wheat” and “Fertilizer” have been created. If imported data from a console has been used, this information may already be generated.

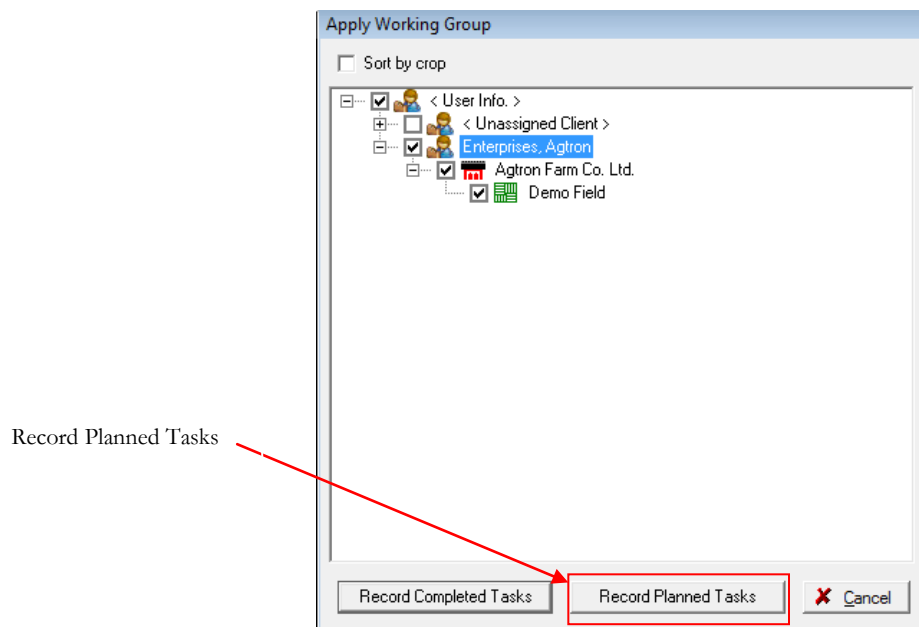


Creating New Tasks

- ▶ On the Inputs tab: 
- Select each Person, Machine, and Supply
- Add them to the working group using the Add button. 
- When complete, click the Apply to Fields button.



- ▶ Select the Field to apply the working group to.
- The Apply Working Group window appears
- ▶ Click the Record Planned Task button.





The Farming window appear, displaying information for the planned task.

- ▶ Enter all information as needed (crop enterprise, costing rates, etc.)

For the purposes of variable rate application, it is very important that Variable Rate Application is selected for each product.

- ▶ Press “OK” when complete.

The screenshot shows the 'Farming' window with a menu bar (File, Add, Region) and a table of task details. The table is organized into sections for different task components, each with a 'Delete' button. The 'Fertilizer' and 'Wheat' sections include a 'Variable Rate Application' checkbox, which is checked in both. The 'Wheat' section also includes a 'Machine' dropdown set to '4WD Tractor'.

Farming	
File Add Region	
Task Name	Demo Field - Planting/Seeding ▲
Region Name	
Field Name	Demo Field
Crop Enterprise	
Task Type	Planting/Seeding
<hr/>	
Doe, John	Delete
Quantity (hours)	0.000
Costing Rate (\$/hours)	0.00
<hr/>	
4WD Tractor	Delete
Quantity (acres)	0.000
Costing Rate (\$/acres)	0.00
<hr/>	
Fertilizer	Delete
Variable Rate Application	<input checked="" type="checkbox"/>
Machine	4WD Tractor
Applied Area	61.24
Planned Rate (lbs/ac)	50.00
Qty. Used (lbs)	3,062.219
Costing Rate (\$/lbs)	0.00
<hr/>	
Wheat	Delete
Variable Rate Application	<input checked="" type="checkbox"/>
Machine	4WD Tractor
Applied Area	61.24
Planned Rate (lbs/ac)	75.00
Qty. Used (bu)	76.543
Costing Rate (\$/bu)	0.00 ▼

OK Cancel



Editing Variable Rate Application

The variable rate application can now be mapped.

- ▶ Using the same tools as for boundary creation, define the sections of the field that require separate application rates.

For the purposes of this example, the field has been divided into four sections using the split tool. Each section, indicated by a different colour, has a different application rate.

The left pane of the window displays the rate information for each section of the field. For each product, as many rates as needed can be set up.

To apply a rate to a section of the map:

- ▶ Select the section of your map using the Select tool.
- ▶ Click the colour button next to the desired rate from the list in the left pane of the window.
- ▶ Verify the default rate for each product.

The default rate is the rate that will be applied when the tractor is outside the map boundaries, or if the GPS signal is lost.

- ▶ Press the Save and Close button when complete.

The task has now been created. It will be added to the Tasks tab in Case IH AFS/Farm Works.

- ▶ Check the View checkbox to view its data on your map.

Note:

You will have to map application zones for seed and fertilizer separately.

The screenshot shows the AFS Software - Mapping Demo interface. The 'Job/Resource Tools' menu is open, and the 'Tasks' tab is selected. The 'VRA Summary' table is visible, showing the application rates for different sections of the field. The 'Tasks' tab shows a task named 'Demo Field - P...' with a date of 12/13/2012 and a status of 'View' checked.

Tasks Tab

View Check Box

Value	Color
100.00	Blue
75.00	Green
50.00	Yellow
125.00	Red
+	


View	Task Name	Date	Client	Farm	Field	Year	C
<input checked="" type="checkbox"/>	Demo Field - P...	12/13/2012	Enterprises, Ag...	Agtron Farm C...	Demo Field		

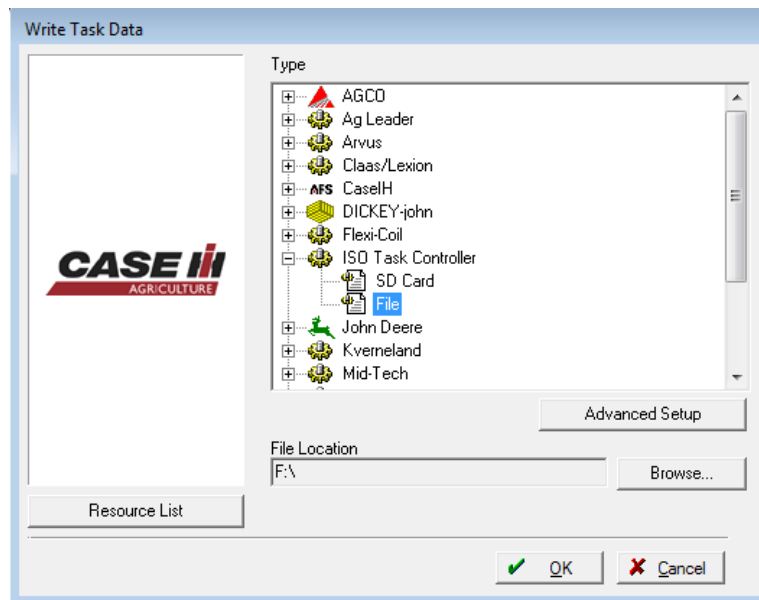


Exporting the Task to the Console

Note:

If you are using the CASE IH PRO700 with Task Controller 27.3 you need to export your task using the ISO Task Controller File setting.

- ▶ To transfer this task to a console:
 - Right-click on the task to open a dropdown menu.
 - Select Work Order, then check Console.
 - Click the Write Task Data button. 
 - The Write Task Data window appears
 - Select the appropriate option for your console
 - Select OK to write the task data



- ▶ This completes the process of creating a working map using Case IH AFS/Farm Works desktop software.
 - Load the task data into the console and start seeding.



Related Manuals

▶ This manual was created with help from Case IH AFS Mapping and Records User Guide. This manual can be located by clicking on Help and selecting Mapping and Records PDF.

▶ If you require assistance using Apex Farm Management Software for creating a variable rate map, please refer to the Apex Map Creation manual.

▶ If you require assistance loading your completed task onto a John Deere GS3 2630 console for use with Agtron's ISO ECU, please refer to the Greenstar Map Loading manual.

▶ If you require assistance loading your completed task onto a Agco C1000 console for use with Agtron's ISO ECU, please refer to the Agco C1000 Map Loading manual.

▶ If you require assistance loading your completed task onto a Agco C2000 console for use with Agtron's ISO ECU, please refer to the Agco C2000 Map Loading manual.

▶ If you require assistance loading your completed task onto a Case Pro 700 console for use with Agtron's ISO ECU, please refer to the Case Pro 700 Map Loading manual.

▶ Map Loading manual for the TopCon X30 is currently in progress.

▶ All of these manuals are located online at www.agtronservice.com

