USER GUIDE

Farm Works Software® Solutions

Farm Works™ View Software

FARM WORKS SOFTWARE®

A DIVISION OF TRIMBLE

Reference Guide

Farm Works Software® Solutions

Farm Works™ View Software

Version 2013 and Later
Revision A
December 2012

A DIVISION OF TRIMBLE

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Legal Notices

Copyright and Trademarks

Release Notice

This is the December 2012 release (Version 2013, Revision A) of the *Farm Works View Software Reference Guide*.

Product Limited Warranty Information

For applicable product Limited Warranty information, please refer to Legal Notices in the License Agreement for this product, or consult your local Farm Works authorized dealer.

Contents

Overview

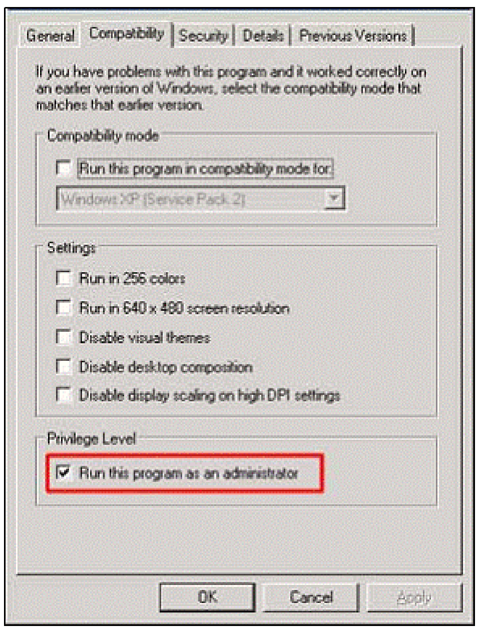
This manual describes how to set up and use the Farm Works™ View software.

Windows Vista and Windows 7 operating system setup

The software works with the Windows Vista® and Windows® 7 operating systems. To configure it, do ***one*** of the following:

Run as an administrator

1. Right-click the software icon and then select *Properties.*
2. In the *Compatibility* tab, select *Ru this program as an administrator* and then click **OK**:



3. When you start the software, the system prompts you for permission to run it.

Disable user accounts on the computer

1. From the *Start* menu, select *Control Panel* / *User Accounts*.
2. Select *Turn User Control On/Off* and then click **OK**.
3. Restart the computer.

Note – *Microsoft recommends that you keep this new security feature turned on. Be aware that you are removing a level of protection by disabling User Account Control alerts, and you are also disabling the Internet Explorer® protected mode.*

Registering the software

To use this software, you must register using the owner's name and contact details. Registration takes just a few moments to complete.

Online registration

1. When you see the registration dialog, select **Get Registered Immediately...**.
2. Make sure that the computer is connected to the Internet and then click **Next**.
3. Enter all of the requested information and then click **Next**. A message indicates successful registration.

Other registration options

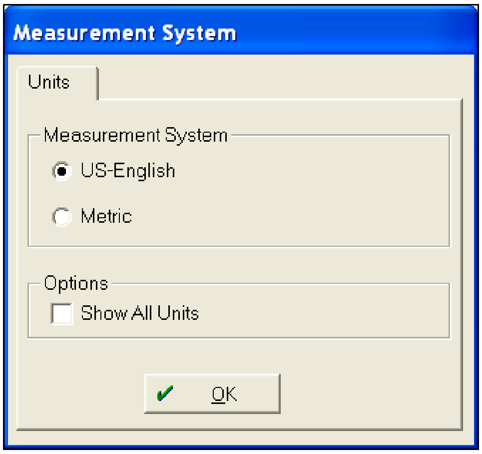
If you prefer, use one of the other registration options:

- Complete the online form: Select *Obtain registration number using an online form* to obtain registration numbers using the online form. Once you complete the form, you will receive the registration numbers by email. You can then select the option to enter the registration numbers from the email.
  To register online go to www.farmworks.com/register.
- Enter numbers you previously received: Select the final option if you obtained registration numbers from another source (such as a dealer, by contacting technical support, or when you have completed the online form). Click **Next** and then enter the registration numbers in the appropriate fields for each of the applications that you own.
- Registering the software by phone:
  - North America: +1 800-282-4103
  - Europe: +44 1786-465100
  - Australia: + 61 386807222
  - Other countries: +1 260-488-3492

Running the software for the first time

Selecting a measurement system

The first time you open the program, you are prompted to select a measurement system:



Select the required option and then click **OK**. The options are:

- US-English
- Metric
- Show All Units. This shows US and Metric units—the software uses the first selection (US-English or Metrics) for area and distance measurements, but gives both US-English and Metrics for any volume measurements.

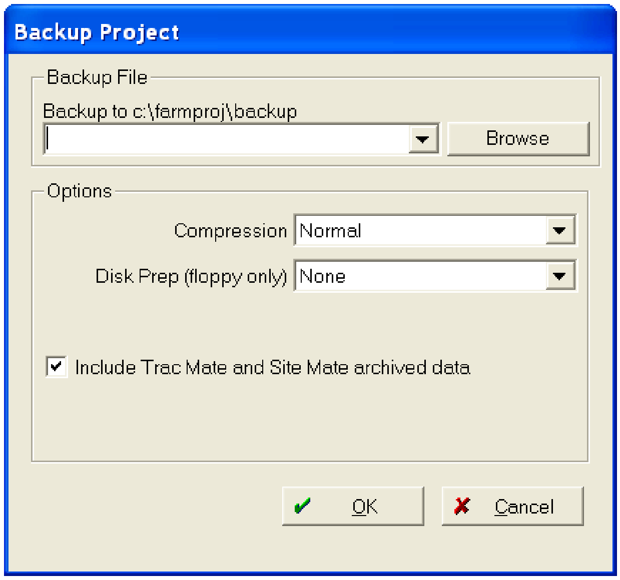
***Note –** The Show All Units option is suitable for users in Canada who want US distance and area measurements and metric volume and quantity measurements.*

Backing up projects

To safeguard your data, it is recommended that you make regular and frequent backups of your project to a medium other than your hard drive (USB, CD, hard disk, and so on) in case of failure, loss, or damage. This enables you to restore the backup of your project and recover lost data. Without a backup, there is no way to recover the records and maps for your farm.

1. Select *File / Backup Project.*

2. Enter a name for the backup in the *Backup To* field, or replace an earlier backup by selecting it from the drop-down list:



By default, the program saves project backups in the backup folder on the computer hard drive (c:\farmproj\backup). To save the backup to a different folder or to a removable drive:

1. In the *Backup Project* dialog, click the **Browse** button.
2. In the *Save As* dialog, select the required folder or removable drive.
3. Enter a name for the backup file in the *File Name* field.
4. Do one of the following:
   – Click **Save** to return to the *Backup Project* dialog.
   – Click **Cancel** to close the dialog without saving the backup.
5. In the *Options* section of the *Backup Project* dialog, select a value from the *Compression* drop-down list to change the size of the backup file and the amount of time it will take to create the backup. The options are *Maximum* (slowest), *Normal* (default), *Fast*, *Super Fast*, or *None*:
   – If you select *Maximum*, the program will take longer to create the backup but the file will be smaller.
   – If you select *None*, the program will take a shorter time to create the backup, but the file will be much larger.

CAUTION – Before you select Wipe Disk, verify there are no files you want to keep.

6. If you are saving the backup to a USB drive or a disk, you can select *Wipe Disk* from the *Disk Prep* drop-down list to erase all files on the USB drive or floppy disk before making the backup.
7. Click **OK**. The backup is created.

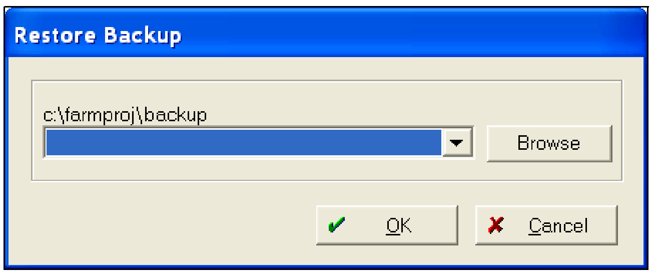
Restoring project backups

If your data is corrupted or if you lose your data through a hardware failure, you can attempt to recover data by restoring a backup you created earlier with the backup option (as described above).

***Note –** The program will not restore backups made with other software, such as the Windows XP backup utility.*

Restoring a project backup replaces the information in the current project with the information that you had at the time you made the backup. For example, if you created a backup on Monday, and then needed to restore it on Friday of the same week, you will lose any information entered Tuesday through Thursday of that week.

1. Select *File / Restore Backup*:



2. From the Backup Project drop-down list, select the backup file you created previously. If the backup does not appear on the list, browse to locate it:

   a. Click the **Browse** button to open a second *Restore Backup* dialog.

   b. Browse to the folder or drive where you previously saved the backup.

3. Select the backup file— it moves to the *File Name* field—and then click **Open**:

4. In the *Restore Backup* dialog, the backup file now appears in the *Restore From* field:

5. Do one of the following:

   – Click **OK** to restore the file.

   – Click **Cancel** to close the dialog without restoring the backup.

6. If you click **OK**, you are prompted to confirm the restore operation:

7. Click **OK**. A progress screen appears.

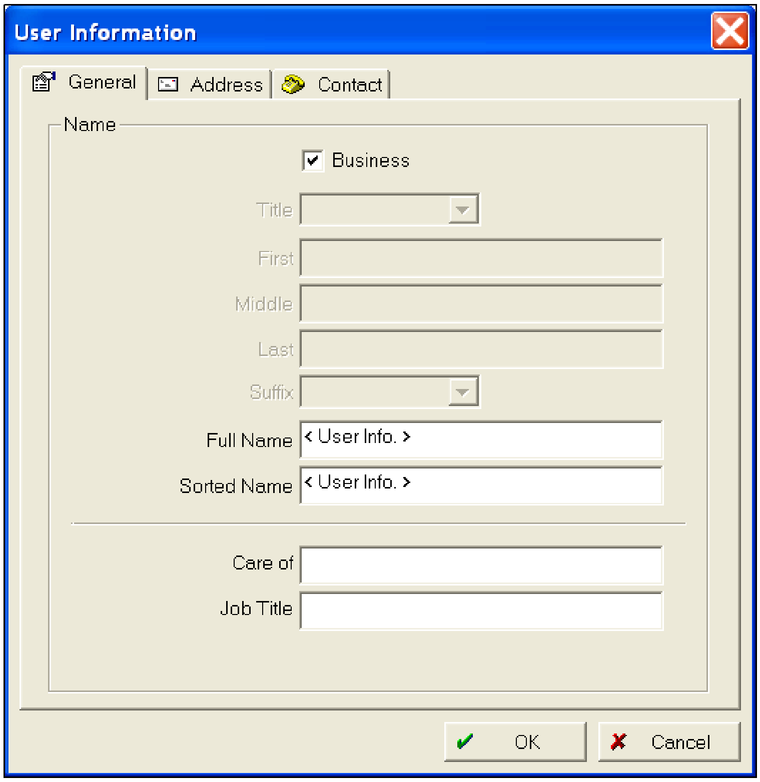
   Click **Cancel** to close the dialog without restoring a backup.

During the restoration of the backup, the program replaces the current data in your project with the data in the backup file. When the restoration is complete, you can begin working with the restored data.

Changing user information

The contact information that is printed on many reports is sourced from the user information entered in the program. To change this:

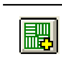
1. Select *File / User Info*.
2. In the *User Information* dialog, select the tabs in turn to enter the details that you want to appear on printed reports and then click **OK**:



Adding Clients, Farms and Fields, Supplies, Equipment, People, and Commodities

The software allows you to keep track of Clients, Farms, and Fields. Additionally, you can set up inputs, including supplies / materials, equipment, and people. The information you set up can be written to many popular precision farming displays.

Using the toolbar

Click this icon ...	To ...
 New Client	Add new clients to the program.
 New Farm	Add new farms to the program.
 New Field	Add new fields to the program.
 New Supplies	Add supplies, such as seed, chemicals, and fertilizer.
 New Equipment	Add equipment, such as tractors, combines, and implements.
 New Person	Add laborers, employees, and other workers.
 Read Job Data	Import data collected with a precision agriculture hardware device, such as a Pro 700 display, EZ-Guide® 500 lightbar or a Trimble® FmX® integrated display.
 Write Job Data	Export setup information (for example, Clients, Farms, and Fields) for use with a precision agriculture hardware device, such as a Pro 700 display, EZ-Guide 500 lightbar, or a Trimble FmX integrated display.

Setting up clients

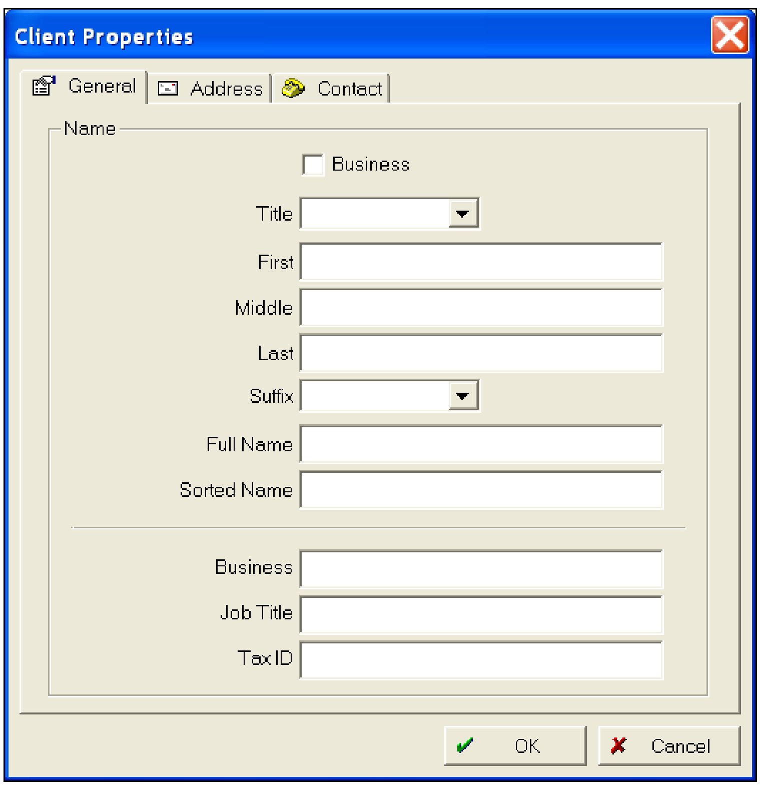
You can use clients to represent customers for whom you are collecting map and field record data.

If you are a grower, you can set up a single client for yourself. Clients will have farms and fields listed under them.

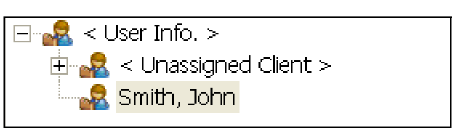
To add a client:

1. Do one of the following:
   - In the *Farm* tab, right-click *<User Info>* and then select *New Client.*
   - Click the New Client icon :

2. In the *Client Properties* dialog, enter the required information in the *General*, *Address*, and *Contact information* tabs:



3. Click **OK**. The new client appears as a new folder:



You can now do any of the following:

- Create farm(s) and field(s) under the new client.
- View and/or modify a client's information. To do this, right-click the name and then select *Properties*.
- Delete a client. To do this, right-click the name, select *Delete* and then click **Yes** in the warning message that appears. The client and all their associated records and maps are deleted. Once a client is deleted, the only way to recover the information is to restore a project backup file.

Setting up farms

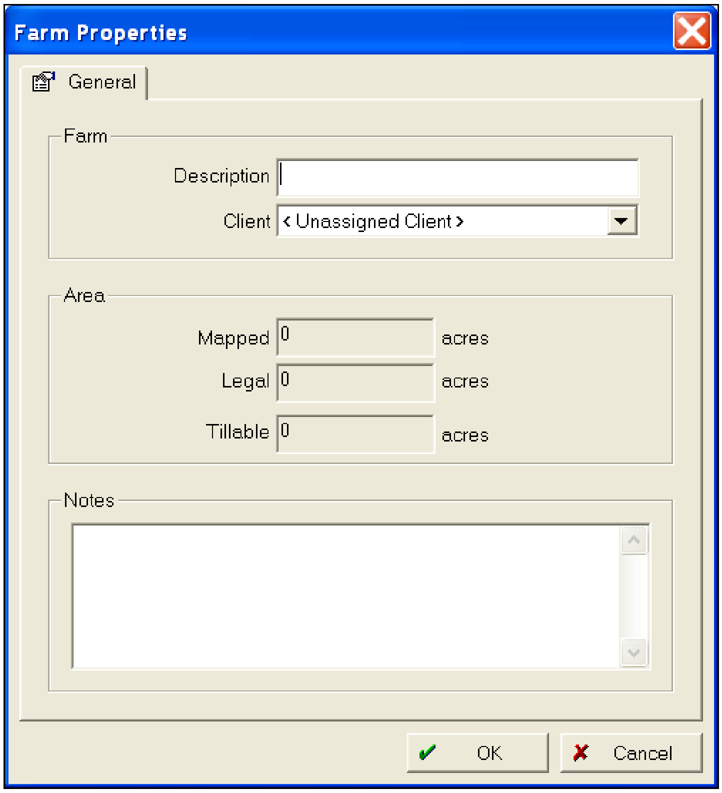
The program allows you to create farms in which to group your fields. Multiple farms are generally created with different landlords, so you can organize your fields by farm name.

Once you have added farms to the *Farm* tab, you can begin adding your fields. You can also move fields that you previously added to the program to a farm.

To add a new farm:

1. Do one of the following:
   - Select *Resources / New Farm.*
   - In the *Farm* tab, right-click the *<Client name>* and then select *New Farm.*

– Click the New Farm icon :



2. Enter a name for the farm in the *Description* field.

***Note –** The area fields are not available—the Mapped, Legal and Tillable areas are filled in based of the values that are entered for each field that is set up under the farm.*

3. If required, you can enter any miscellaneous information for the farm (up to 255 characters) in *Notes*.

You can now do any of the following:

- Add fields under each farm.
- View and/or modify a farm's information. To do this, right-click the name and then select *Properties*.
- Delete a farm. To do this, right-click the name, select *Delete* and then click **Yes** in the warning message that appears. The farm and all its associated records and maps are deleted.

  You cannot delete farms for which you have recorded farming operations. However, you can then retire the farm—this will also retire all of the fields under it.

  If you delete all of the jobs associated with a farm, you will then be able to delete the farm.

- Retire a farm. To do this, right-click the name, select *Retire* and then click **Yes** in the warning message that appears. The program adds an asterisk to the farm's name or removes the field from the *Farm* field. The software keeps the retired farm's farming history in case you need to see it in the future. To display/hide retired farms in the *Farm* field, select *View / Show Retired Land Areas*.

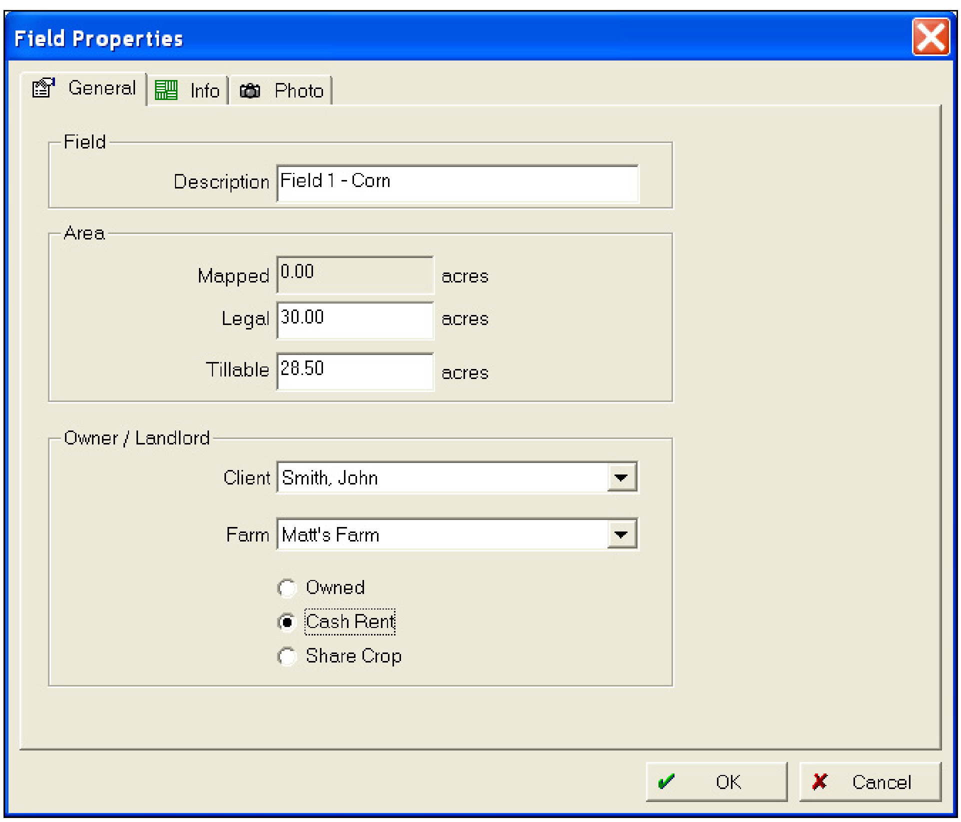
Setting up fields

Fields can be created under the Clients and Farms that have been set up. You only need to enter the field names, tillable and legal acres for your fields, and indicate whether you own, cash rent or share crop the fields.

Optional information (as identified) can be entered and is used for field records if you upgrade your software to a paid version that includes field record keeping.

To add a new field:

1. Do one of the following:
   - Select *Resources / New Field.*
   - In the *Farm* tab, right-click the farm to which you are adding the field and then select *New Field.*
   - Click the New Field icon:



2. In the *General* tab:
   a. Enter a name for the field in the *Description* field.
   b. In *Area,* enter the *Legal* and *Tillable* acres. Tillable acres (required) are used in field records; mapped acres are calculated automatically from mapped boundaries.
   c. In *Owner/Landlord*, select the *Client* and *Farm* the field belongs to. You may select *<Unknown Farm>* if you do not want to keep track of the farm, or select *<Add>* to add a farm that is not in the list.
   d. Select whether the field is *Owned, Cash Rented*, or *Share Cropped*.
3. ***Optional.*** In the *Info* tab, if you are located in the United States of America:
   a. Select the appropriate *State* and *County* where the field resides.
   b. In the *FSA* area, enter the *FSA Farm #, Field #, Track #,* and *Land Class*.
   c. In the *Legal* area, enter the *Section #, Township #,* and *Range #* and enter a *Description* (if required).

   If you are located outside the United States, you may enter any other desired information for the field.
4. ***Optional.*** In the *Photo* tab, you can add photographs of your field(s) taken with a digital camera or scanned. Click **Change,** browse to the required photo on your system, and then click **Open.** You can **Change, Remove,** or **Print** photos as required**.** Images may be a BMP, JPG, TIF, or PCX file. The photos are used for reference purposes only, they will not appear on maps or in other areas.

   Removing a photograph will not delete the image file from your computer's hard drive or removable drive.
5. Click **OK.**

You can now do any of the following:

- Add more fields under each farm.
- View and/or modify a field's information. To do this, right-click the name and then select *Properties*. This includes moving a field from the *<Unknown>* farm to a different farm by selecting the name of a farm you added in the *Farm* list.
- Delete a field. To do this, right-click the name, select *Delete* and then click **Yes** in the warning message that appears. The field and all its associated records and maps are deleted.

  You cannot delete fields that have data such as yield or planting maps. However, you can retire the field.

  If you delete all of the jobs associated with a field, you will then be able to delete the field.

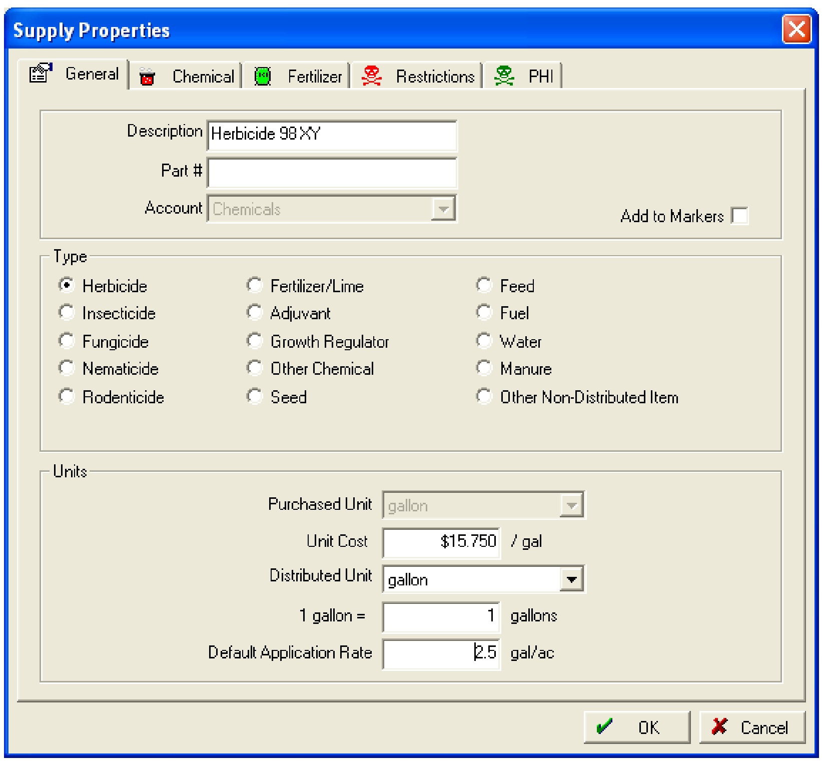
- Retire a field. To do this, right-click the name, select *Retire* and then click **Yes** in the warning message that appears. The program adds an asterisk to the field's name. The software keeps the retired field's farming history in case you need to see it in the future. To display/hide retired fields, select *View / Show Retired Land Areas*.

Setting up supplies

Supplies such as Seeds, Chemicals, and Fertilizers can be set up in the software. These items can then be written out for use with many popular precision farming supplies.

Adding a new Supply

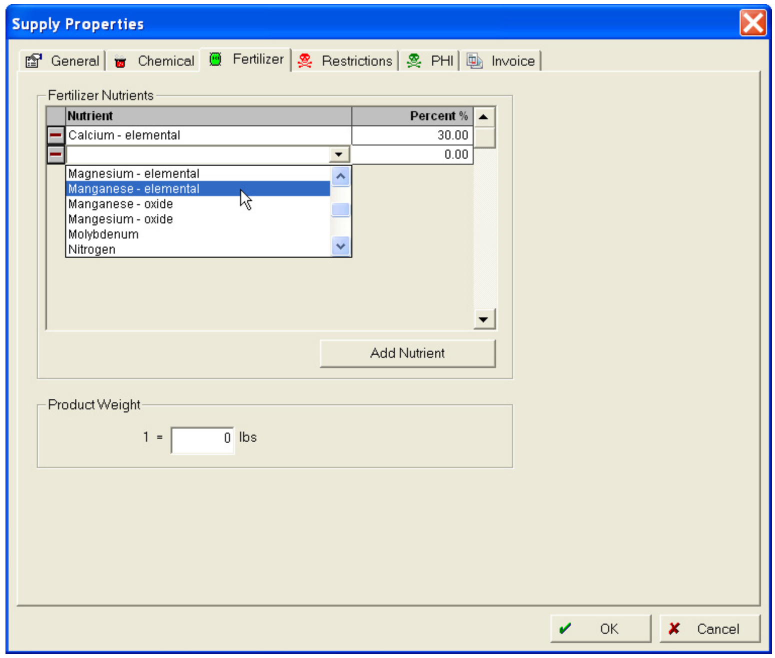
1. Click the New Supply icon .



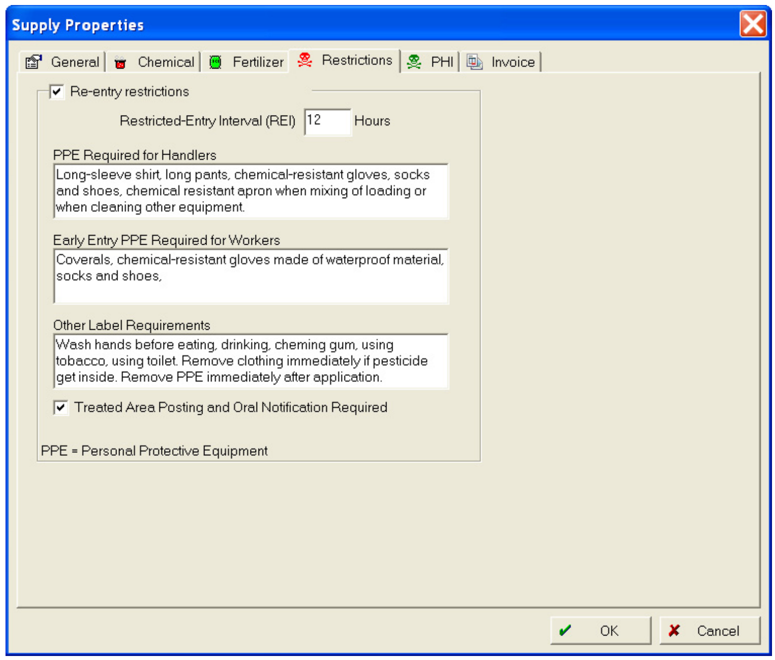
2. Enter information into the tabs.

***Note –** Information such as Cost, Chemical, and Fertilizer details will be used in reports if you purchase the paid version of the software.*

Tab	Group/Field	Action
General	Description	• Enter a name for the supply. • If relevant, enter the Part # number.
	Type	Select the type of supply.
	Units	Enter the Purchased Units, Unit Cost, Distributed Unit, and the Default Application Rate.
Chemical		• Select the *Keep Detailed Chemical Records* check box. • Enter the following information from the product label: – Chemical Name – EPA # – Manufacturer – Formulation – Mode of operation – Default carrier
	Carrier	1. Click **Add/Edit**. 2. Enter the Carrier name. 3. Select a Unit value from the list and then click **OK**.
	Default Carrier Rate	Enter a value.
	Target Problems (max. 5)	1. Click **Add/Edit Problem List**. 2. Click **Add/Edit**. 3. Click **Add** and then enter the pest name. Repeat this to add more pests. **Tip –** To include more pests in the selection of five names, use a wider term such as Broadleaves or Grasses. 4. When finished, click **OK**. 5. From the *Pests* list, select up to five pests to move to the *Selected Pests* list. To select multiple items, press and hold Ctrl as you click the names. 6. To add the names, click **>>--->**. 7. To remove a pest from the Selected Pests list, select the name and then click **<---<<**. To remove all pests, click **<<---<<**. 8. To add a new pest, repeat from Step 2.

<table>
<tr><th>Tab</th><th>Group/Field</th><th>Action</th></tr>
<tr><td>Fertilizer</td><td>Fertilizer Nutrients</td><td>
1. Click the blank field in the Nutrient column.
2. From the drop-down list, select the first nutrient, and the percentage of the analysis that nutrient makes up in the Percent % column.


3. To add more nutrients, click Add Nutrient, select the name from the list and then enter the percentage. Repeat this step as required.
4. If the nutrient you want is not in the list, select Add/Edit from the list and then click Add in the dialog that appears. Enter a nutrient name and abbreviation and then click OK.
5. To remove a nutrient from the list, click - next to its name.
</td></tr>
<tr><td></td><td>Product Weight</td><td>This conversion factor is automatically entered.</td></tr>
</table>

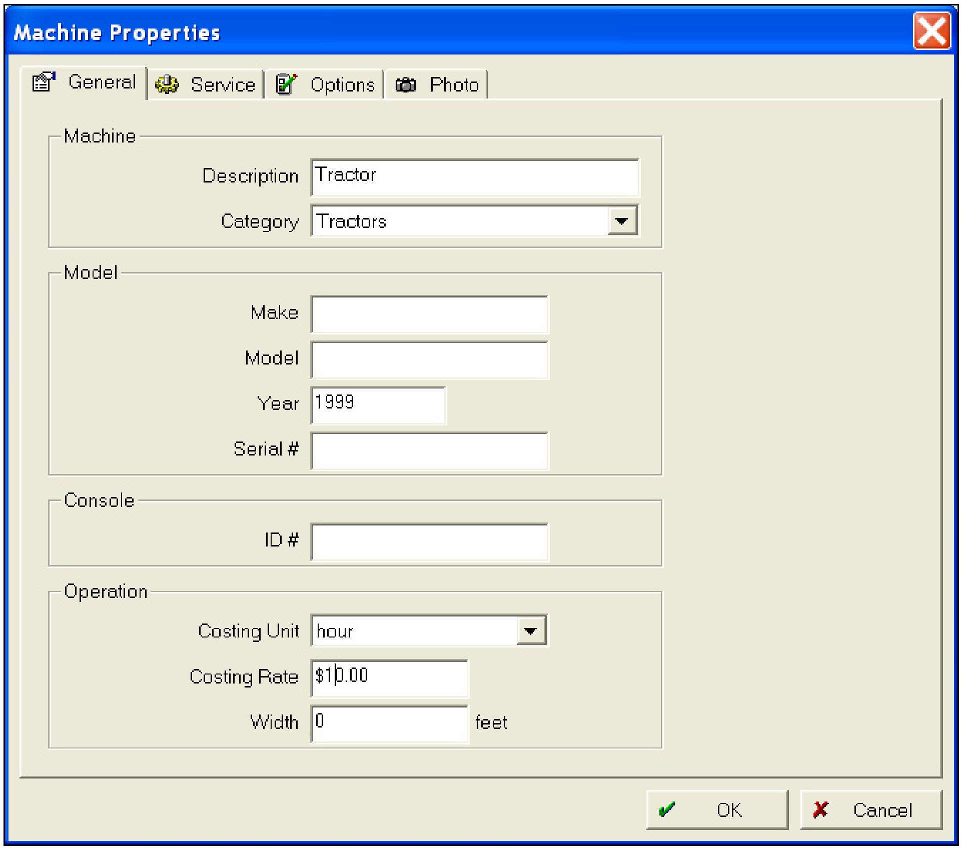
<table>
<thead>
<tr><th>Tab</th><th>Group/Field</th><th>Action</th></tr>
</thead>
<tbody>
<tr><td>Restrictions</td><td>Re-entry restrictions</td><td>Enter restrictions as they appear on the product label.
1. Select the Re-entry Restrictions check box and then enter the required number of hours in Restricted-Entry Interval (REI).
2. In PPE Required for Handlers and Early Entry PPE Required for Workers, enter the required protective equipment for those handling the supply.
3. In Other Label Requirements, enter the other requirements for those handling the supply.
4. If applicable, select Treat Area Posting and Oral Notification Required.
For example.

</td></tr>
<tr><td>PHI</td><td>Pre-Harvest Interval</td><td>If this applies to the chemical:
1. From the Crop drop-down list, select the crop name or select <Add/Edit> to add the crop.
2. Enter a value in the Pre-Harvest Interval (Days) column.
3. If there are restrictions for more than one crop, click Add Crop and then repeat steps 1 and 2.</td></tr>
</tbody>
</table>

Setting up equipment

Machines can be organized by categories of application, baling/forage, farm maintenance, harvesting, hauling/transport, land preparation, other, planting/seeding, and tractors.

To set up new equipment:

1. Click the New Machine icon.



2. Enter information into the tabs.

Note – *Information such as the Costing Rate, Service, and other details will be used in reports if you purchase the paid version of the software.*

Tab	Group/Field	Action
General	Machine	• Enter the Machine name. • From the Category drop-down list, select the type of machine: application, baling/forage, farm maintenance, harvesting, hauling/transport, land preparation, other, planting/seeding, or tractors.
	Model	Enter the make, model, year, and serial number.
	Operation	• From the Costing Unit drop-down list, select how the machine is to be charged: by the acre or by the hour. • Under Charge Rate, enter the rate per acre or hour.

Tab	Group/Field	Action
Service	Service	• From the *Service Interval Unit* drop-down list, select the required value. • In *Current Meter*, enter the current acres or hours on the machine. • In *Last Serviced*, enter the acres or hours at the time of the last service. • In *Last Service Date*, enter the date of the last service, or select the calendar icon and choose the date in the calendar. • In *Service Interval*, enter the number of acres or hours to elapse between each service. This automatically calculates and shows in *Next Service* the number of hours or acres until the next service is due.
	Service Notes	Enter any notes; up to 255 characters.
Options	Options	• Select the *Fuelable* check box if you want to track fuel usage. • Select the *Harvester* check box if you will use the machine to perform harvesting operations, for example, combines or balers.
	Fuel	• If the machine uses fuel, select the correct fuel type from the *Supply Fuel* list. If required, select <Add> to add a new fuel supply. • Enter the Default Burn Rate, and select Gal/Acre or Gal/Hr.
Photo (Optional)	***Note –*** *The image file can be in bitmap (.bmp), Joint Photographic Experts Group (.jpg), Tagged Image File Format (.tif), or PC Paintbrush (.pcx) format.*	
	Change Photo	1. Click **Change Photo**. 2. Select the folder where you previously saved a digital photograph of the field, such as My Pictures. 3. Select the required file and then click **Open**. The photograph appears in the *Field Properties* dialog. 4. To choose a different photograph, click **Change Photo** again.
	Print Photo	Print the selected photograph.
	Remove Photo	Remove the selected photograph from the *Field Properties* dialog: This does not delete the file from the computer hard drive or removable drive.

5. Once you finish entering information for the Machine, click **OK**. The machine appears in the appropriate machine category of the *Inputs* tab under the Machines icon.

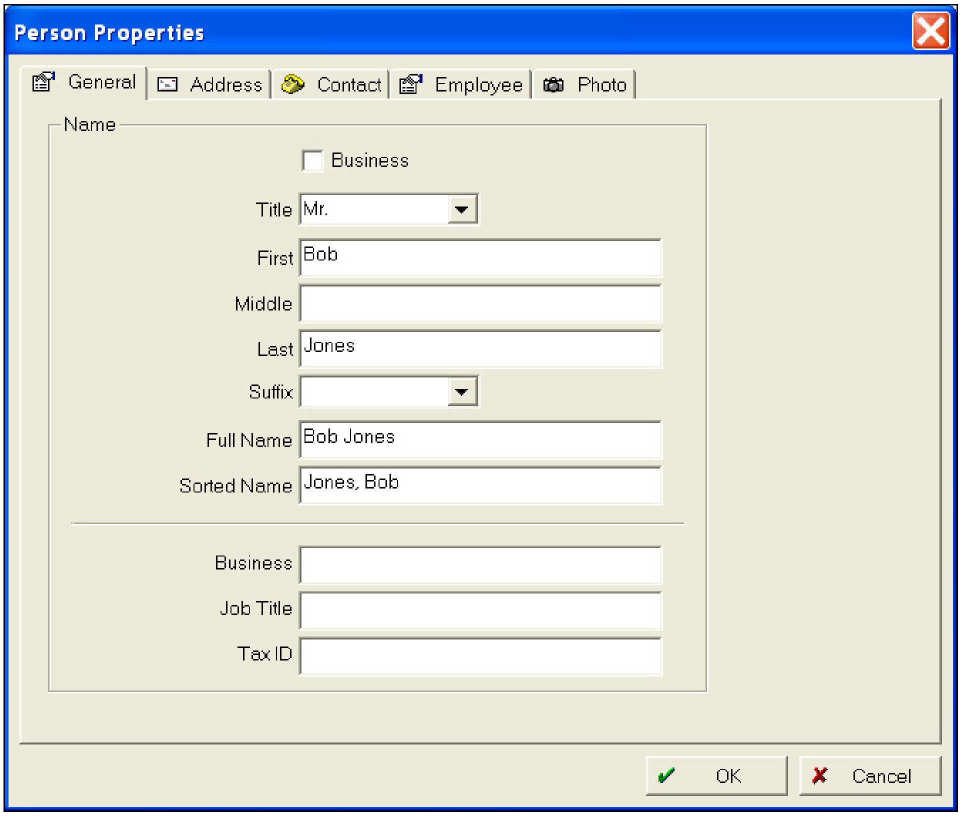
Setting up people

Employees, owners, and other workers can be set up in the software. These items can then be written out for use with many popular precision farming displays.

To add a new worker:

1. Do one of the following:
   – Select *Resources / New Person.*

– Click the New Person icon :



Note – *Optional information will be used in reports if you purchase the paid version of the software.*

2. In the *General* tab, you must enter a *First* and *Last* name—all other information is optional.

   The *Full Name* and *Sorted Name* default but may be changed if required. The *Sorted Name* shows in all the lists within the program.

3. ***Optional.*** In the *General* tab:

   a. Select the *Business* check box to add a name of a business as a contact.

   b. Select the person's *Title.*

   c. Complete the required *Name* fields.

   d. Enter the Business name, Job Title, and Tax ID.

4. ***Optional.*** In the *Address* tab, complete the fields to provide a mailing address and /or street address for the person.

5. ***Optional***. In the *Contact* tab, enter relative contact information by completing the *Phone* and *Internet* areas.

6. ***Optional.*** In the *Employee* tab:

a. Enter a license number if the employee has a pesticide applicator's license. This number appears on the Job Report.

b. Enter the charge *Rate* in dollars per hour that the employee gets paid. This information is used for costing purposes on the Job Report.

7. ***Optional.*** In the *Photo* tab, you can add photographs of the person. Click **Change,** browse to the required photo on your system, and then click **Open.** You can **Change, Remove,** or **Print** photos as required.

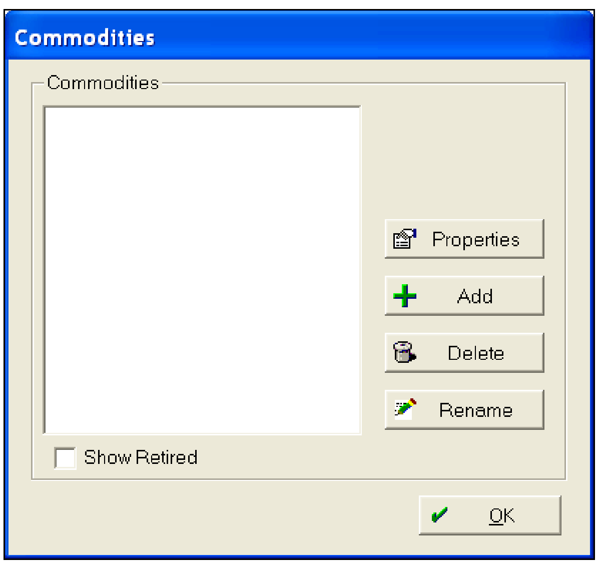
8. Click **OK.**

Adding/Editing commodities

Commodities that are used in the program have properties associated with them that you can edit. The program has a long list of pre-entered commodities from which you can choose. Once you have chosen them, they appear in lists as active.

To edit commodity properties:

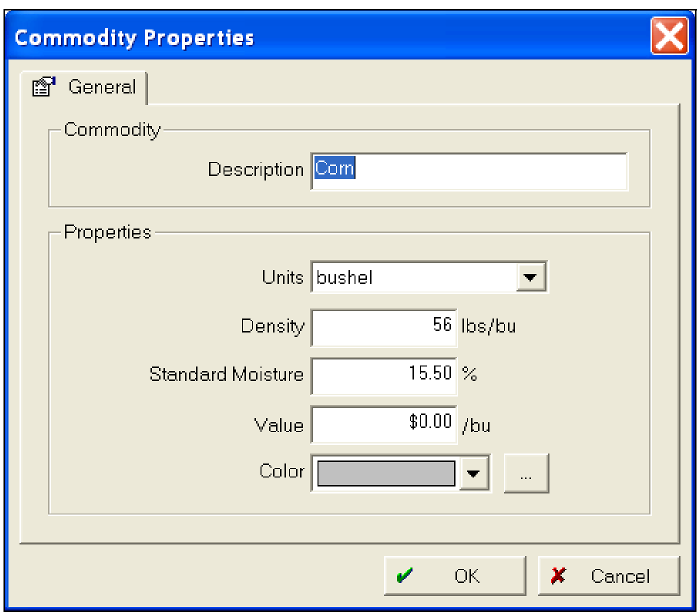
1. Select *Resources / Commodities*:



Any commodities that are currently used, appear in the list.

2. To add a commodity, click **Add:**

3. Select the required commodity from the list or select *<New>* to add your own commodity and then click **OK**:



4. Make sure that the information in the *Commodity Properties* dialog is accurate (if not, make the required changes), enter a *Value* and then click **OK**:

   – *Units* are the harvested units of the commodity.

- *Density* and *Standard Moisture* are used to calculate dry quantities when harvesting. Moisture should be the moisture that dry weight is calculated from. This information can be received from your local elevator or wherever you deliver your grain.

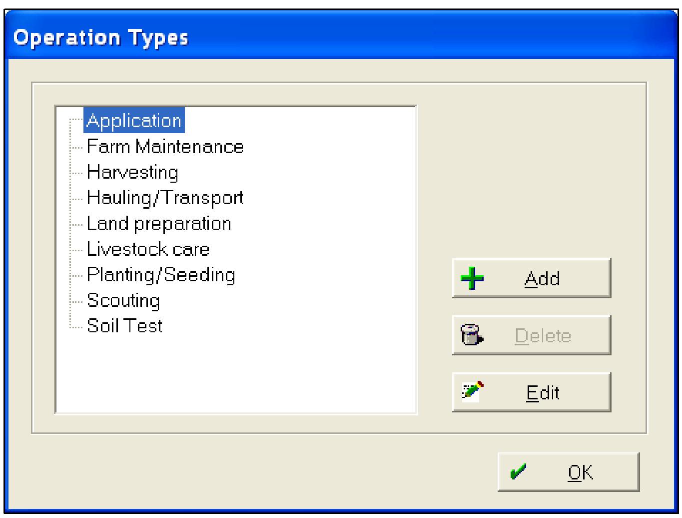
  These values are used for yield mapping and detailed harvest records (including scale tickets) if you upgrade to a full crop recording and mapping program (such as the Farm Trac and Farm Site modules in the rom Farm Works software).
- *Value* of the commodity is used on reports.
- *Color* is shown on the map where that commodity is being grown.

Adding/Editing job types

Job types are simply a way to sort through the many operations that take place throughout the year and can be queried for reports and editing. The software has a predefined set of job types that you can edit or you can add other job types as required.

To add/edit job types:

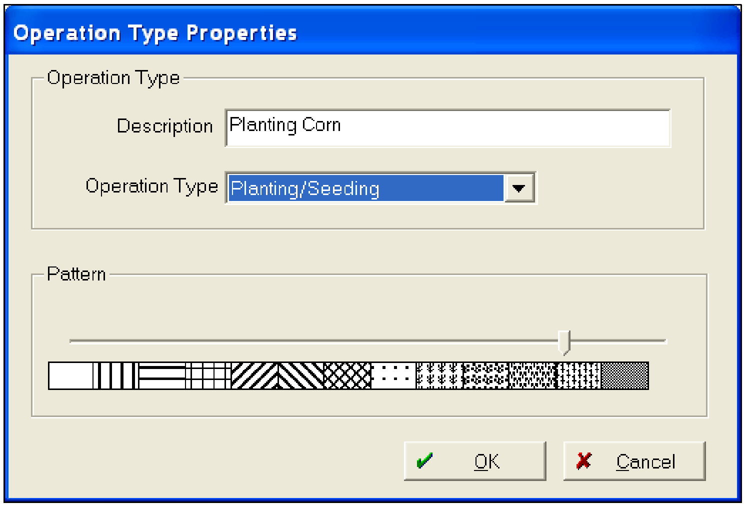
1. Select *Resources / Job Types*:



   The *Operation Types* dialog appears. This lists the job types that are currently used.

2. To add a job type:

a. Click **Add**:



b. Enter a *Description*.

c. Select the *Operation Type* your description falls under and select the pattern to be associated with the operation type.

d. Click **OK**.

3. To delete a job type, select it and then click **Delete**.

Importing and Viewing Jobs

You can import jobs from a wide range of precision agriculture devices that record job and map data. The software enables you to view and print the jobs and maps.

When reading job data, the program reads (and creates maps and field records) for any data that is available. This can include a job coverage map, field boundaries, and guidance paths.

Importing data

You can bring data in from a wide range of precision agriculture devices. This may be called ***importing*** or ***reading*** data.

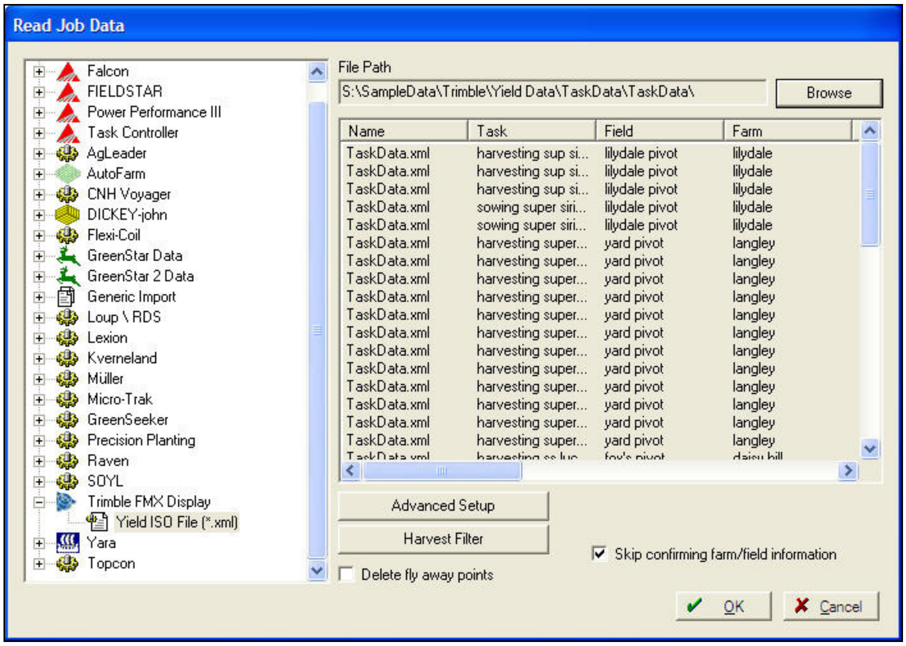
Reading job data from a USB or other drive

1. Have the job data available on a removable device, such as a USB drive or data card.
2. Insert the device into the computer.
3. ***Copy*** the data to your hard drive as a backup. You can then read the data from either the device or the hard drive.

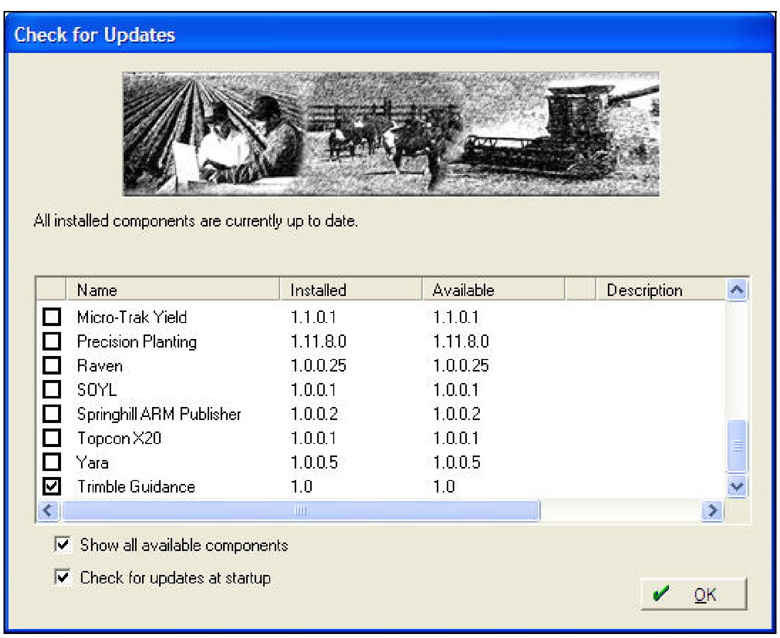
To read (import) job data:

1. Do one of the following:
   - Select *File* / *Read Job Data.*

– From the *Job* **/** *Resource Tools* toolbar, click the Read Job Data icon :



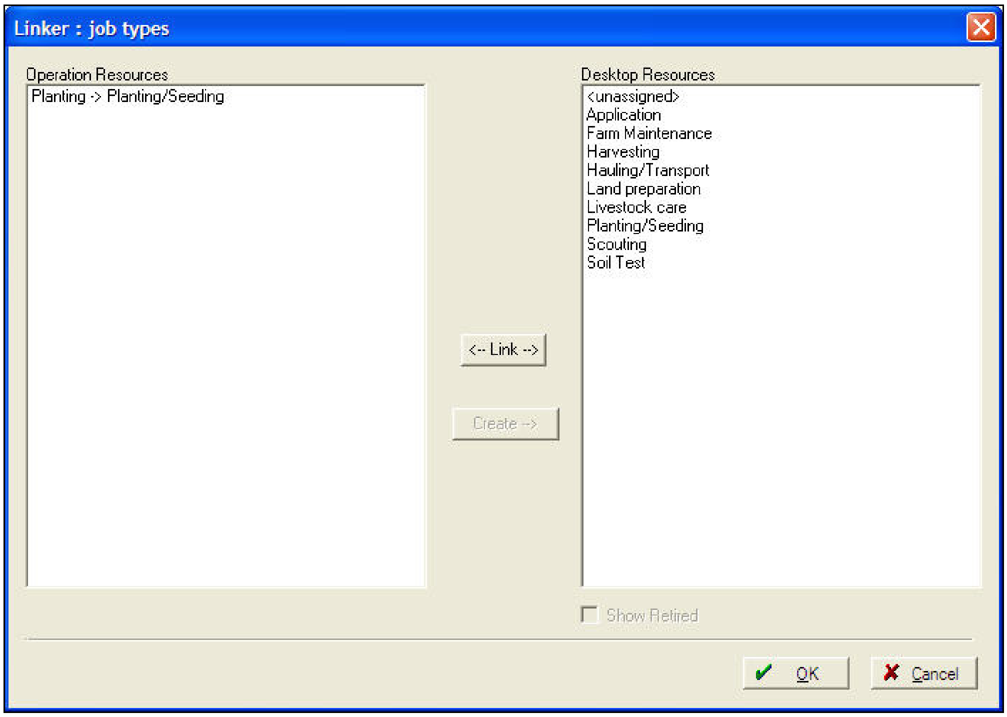
The *Read Job Data* field lists the precision agriculture devices that you selected when you first installed the View software. If a device is missing from the list, select *Help / Check for Updates*. In the *Check for Updates* field, select the *Show all available components* check box—the program lists all the supported precision agriculture devices. To add a device to the program (so that it will appear in the *Read Job Data* and *Write Job Data* fields), select it and then click **OK** button:



2. Select the type of data to read. When required to do so, click **Browse** and then navigate to the drive / directory where the data is saved.

3. Select the job(s) to import and then click **OK**.

4. If the job being imported includes a job type that does not exactly match a job type that you have set up, the *Linker : job types* dialog appears. Use this dialog to link the job type from the file being imported (shown in the *Operation Resources* list) to a job type that is already set up in the View software (shown in the *Desktop Resources* list). To create a new job type for the *Operation Resource*, click **Create:**



5. When you read job data, the program recognizes the Clients, Farms, and Fields that were used on the device in the field. If these names exactly match the names in the software, the program automatically assigns the jobs to the appropriate field. If the device has Clients, Farms, or Fields that were not set up in the desktop software (or if, for example, the name is spelled differently on the device), you can link them to an existing Client, Farm, or Field , or you can add them as a new Client, Farm, or Field. If you selected *Skip confirming farm/field information*, the software automatically creates new Clients, Farms, and Fields for any information that does not exactly match what was set up in the software.

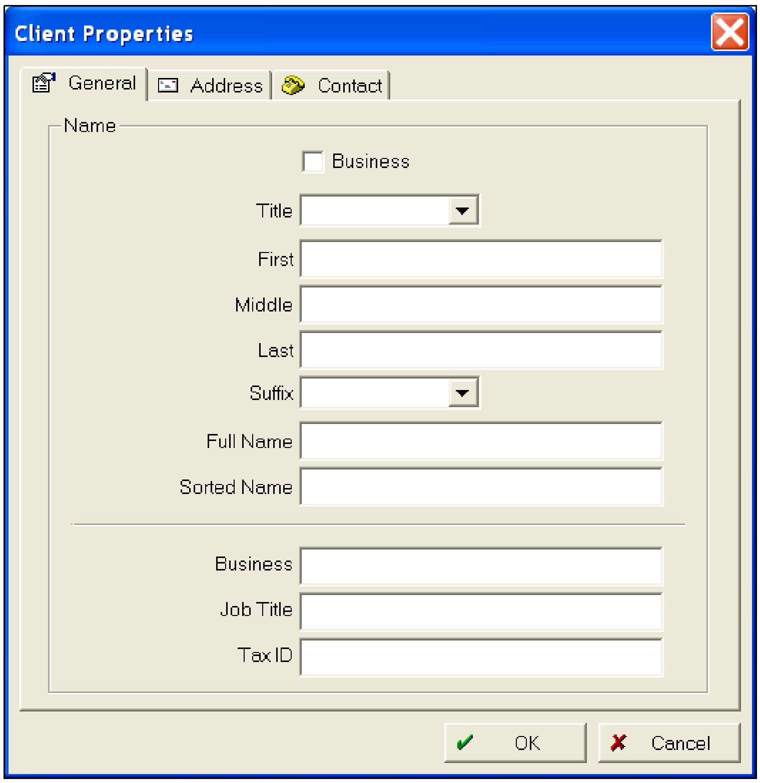
   If the job being imported is in a field that has not been created or if the spelling is different, and you did not select S*kip confirming farm/field information*, the *Linker* dialog also appears. Here, you can create a new Field or link the new Field with one already created. Once linked, all subsequent jobs with that Field name will be linked to the selected Field. To link a Field:

   a. Select the name of the field (as it was created on the field device) from *Operation Resources*.

   b. Select the field you created in the software from *Desktop Resources*.

   c. Click **Link**. The data is linked to the appropriate field.

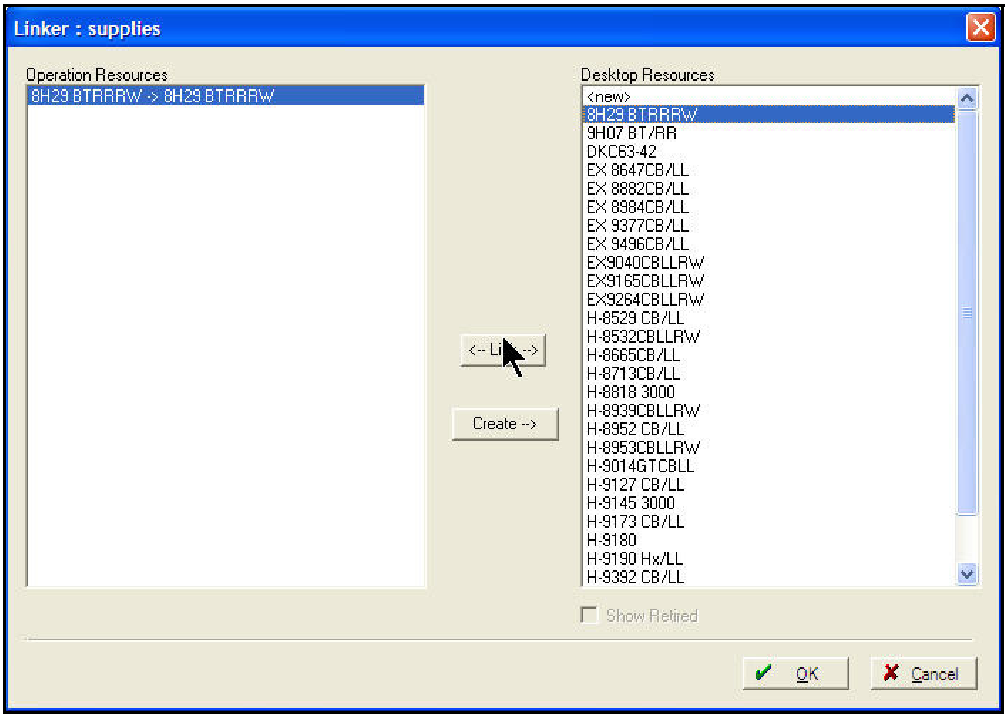
6. If you select *Create*, you must enter *Client, Farm*, and *Field* properties if they are new. Notice that the program automatically fills in the names based on the folder structure and what was collected on the unit. Add any additional information as necessary. Additionally, if the data includes a boundary for the field, the program will fill in the size of the field:



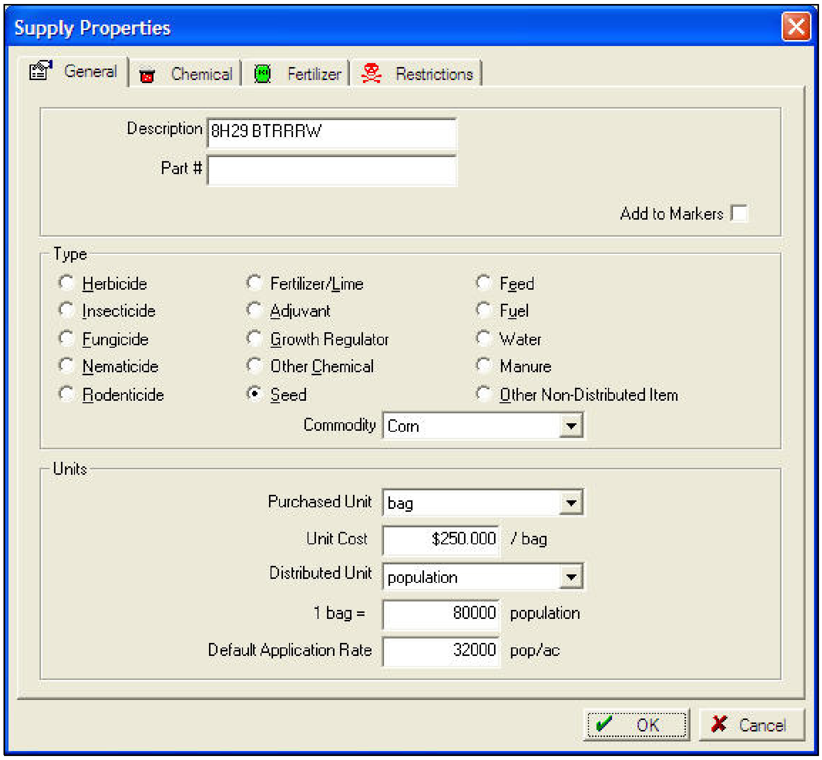
7. When you have finished linking all new fields, press **OK**.

8. The job(s) has been imported into the program and will display on the *Farm* tab as well as on the *Job* tab.

9. If the job being imported is an application or planting job that has a supply and this supply does not exactly match a supply that you have set up, the *Linker: supplies* dialog appears. Use this dialog to link the supplies from the file being imported (shown in the *Operation Resources* list) to supplies that are already set up in the View software (shown in the *Desktop Resources* list). To create a new supply, click **Create**:



10. Alternatively, if you leave the supply linked to *<New>* and then click **OK**, the program prompts you to set up a new supply. Use the *Supply Properties* dialog to enter information about the supply, including the *Units of Measure* and other information:



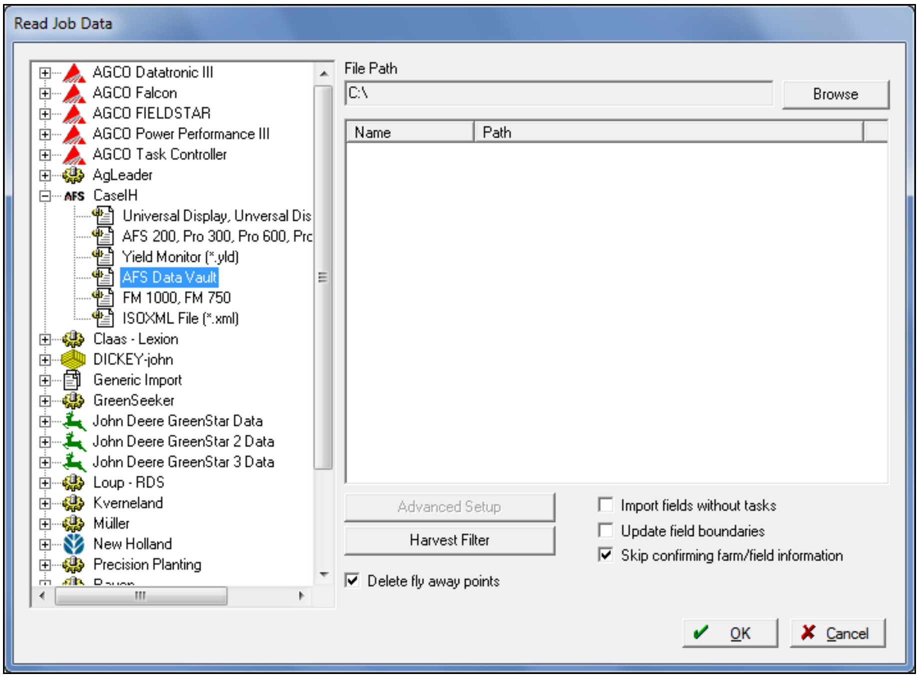
Importing CNH vault data

The program allows you to import CNH data from AFS or PLM software using the *Data Repository* option (from the *Read Job Data* screen).

***Note –** Depending on how much data there was previously this process may take a few minutes to several hours.*

1. Select *File / Read Job Data*, or click the Read Job Data icon on the *Job/Resource Tools* toolbar.

2. On the left of the *Read Job Data* dialog, click **+** to expand the *AFS CaseIH* or *New Holland* option and then select *AFS Data Vault* (if you have AFS CaseIH data) or *PLM Data Vault* (if you have New Holland PLM Data). This filters the files so that only the selected files appear in the right-hand side of the dialog.



3. Click **Browse** to locate the data:

   If you are running the Windows 7 or Windows Vista operating system, this data will most likely be at:

   C:\ProgramData\CaseIH AFS\AFS\Data, or

   C:\ProgramData\Ag Leader\SMS\Data

   If you are running the Windows XP operating system, this data will most likely be at:

   C:/Documents and Settings/All Users/Case IH /AFS/Data, or

   C:/Documents and Settings/All Users/ Ag Leader/SMS /Data

4. In the *Open* dialog, select the *Data* folder and then click **OK**.

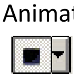
   Depending on the location selected, the program will find all the *.CN1 folders underneath it. This process can take from several minutes to several hours.

Viewing jobs on the Map tab

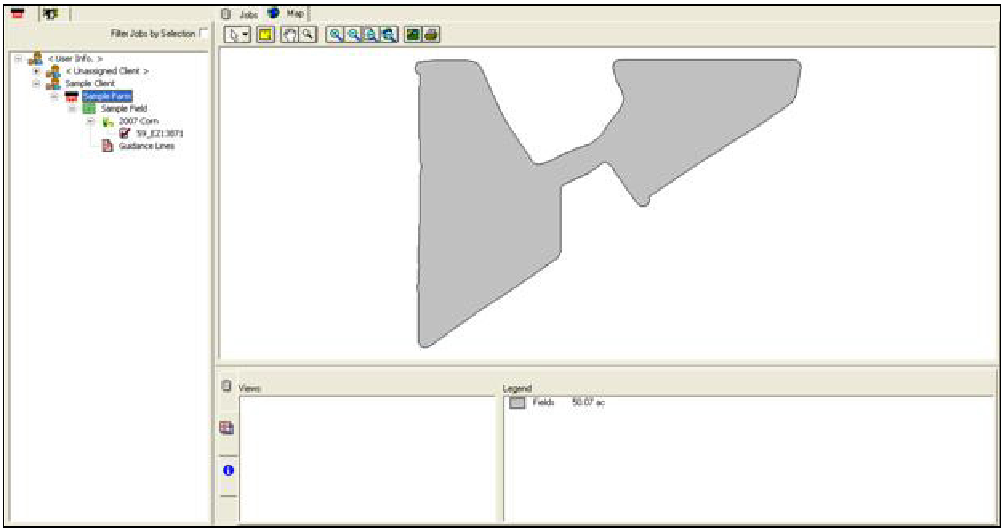
Once you have imported jobs into the program, you can view coverage data, yield maps, guidance lines, field boundaries, and other maps in the *Map* tab. You can also view the information tied to those maps on the *Information* tab at the bottom of the map screen.

Using the Map toolbar

Use the icons on the *Map* toolbar to change the views of maps of your fields.

Click this icon ...	To ...
 Select	Select objects in the *Map* field. Use this to select items by clicking and dragging or by single-clicking an object.
 Pan	Click and drag the map to view objects not on the screen.
 Zoom	Zoom in or out—left click to zoom in and right click to zoom out. The map centers where you click. You can also click and drag to zoom into a specifically sized area.
 Zoom in	Zooms closer without re-centering the map.
 Zoom out	Zooms out without re-centering the map.
 Zoom layer	Zooms the active layer into view.
 Zoom all	Zooms to the extent of all displayed layers on the map.
 Filter	Filter harvest data that is being displayed.
 Print	Prints the currently displayed map.
 Animation  Stop animation	Display a map in the order that it was created/driven. When you select the animation tool, the program starts to repaint the map on the screen. Click the Stop animation icon to stop this process at any time. Click the down arrow to select an option to speed up or slow down the replay of the map. 

If a field has a boundary that has been mapped, select the *Client*, *Farm*, or *Field* in the tree menu to the left to show all of the boundaries mapped during jobs. The size of the field boundary appears below the legend:

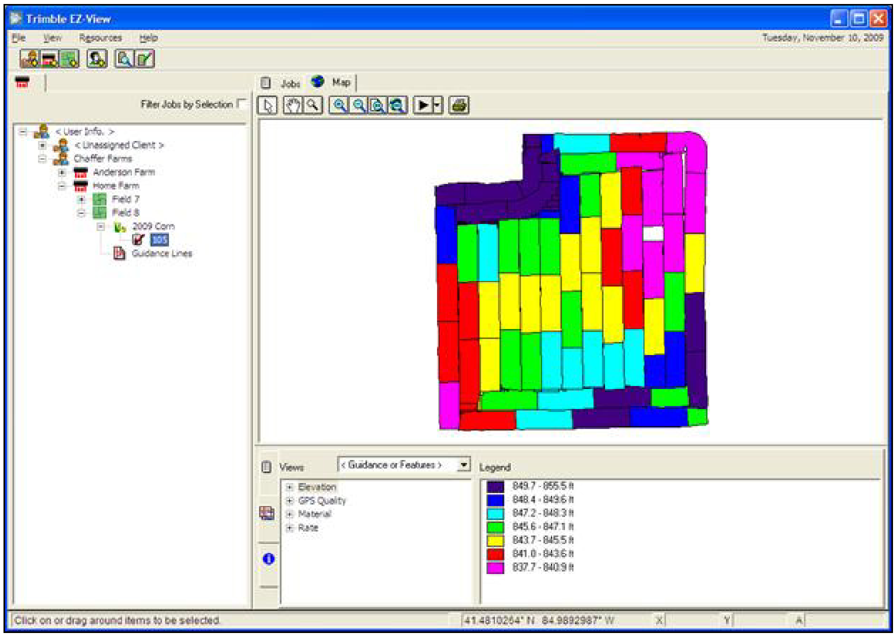


You can do the following in the *Map* tab:

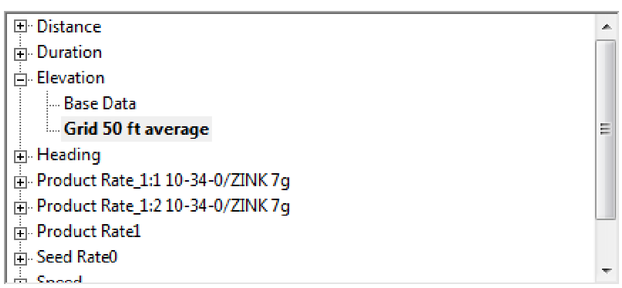
- To view a job map, do one of the following:
  – Locate the job in the *Farm* tab and then double-click it to display the job in the *Map* tab.
  – In the *Job* or *Map* tab, select the *View* column.

- In the *Layers* tab under *View*, select the attribute and the view to analyze. Attributes can include application rates, elevation and other details logged by the display. Different displays will record different attributes:
  – Some displays on some equipment (including select models made by CNH and Trimble) will log advanced planting data that will be listed in this area.

– Some displays on some equipment (including select models of CNH displays) will log engine details that will also be listed in this area:

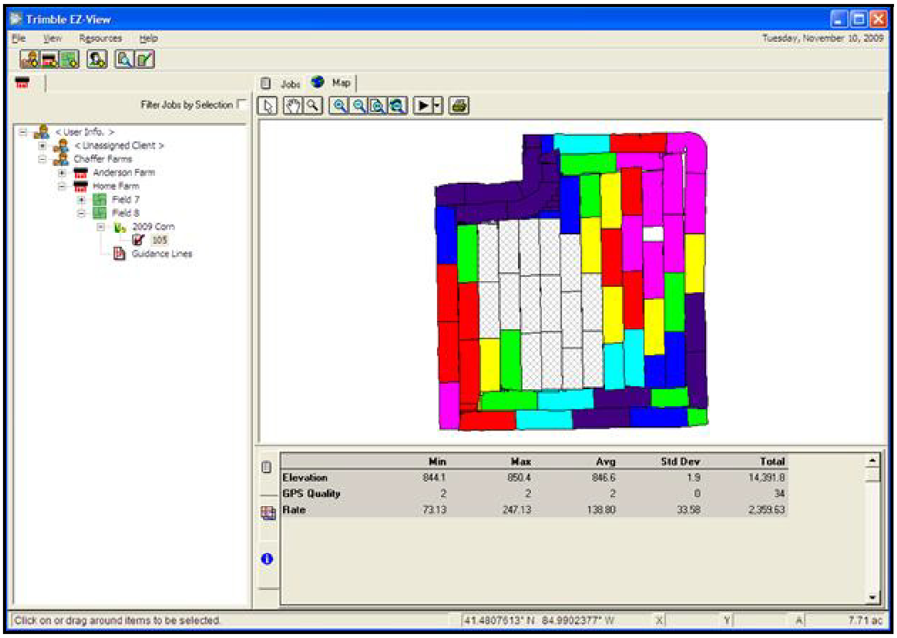


- For point-based data such as yield maps, the *Views* area enables you to choose between the *Base Data* and *Grid 50 ft Average* views. The *Base Data* is the raw point data; the *Grid 50 ft Average* data displays the data in 50 foot grids, where the data is averaged across each grid.

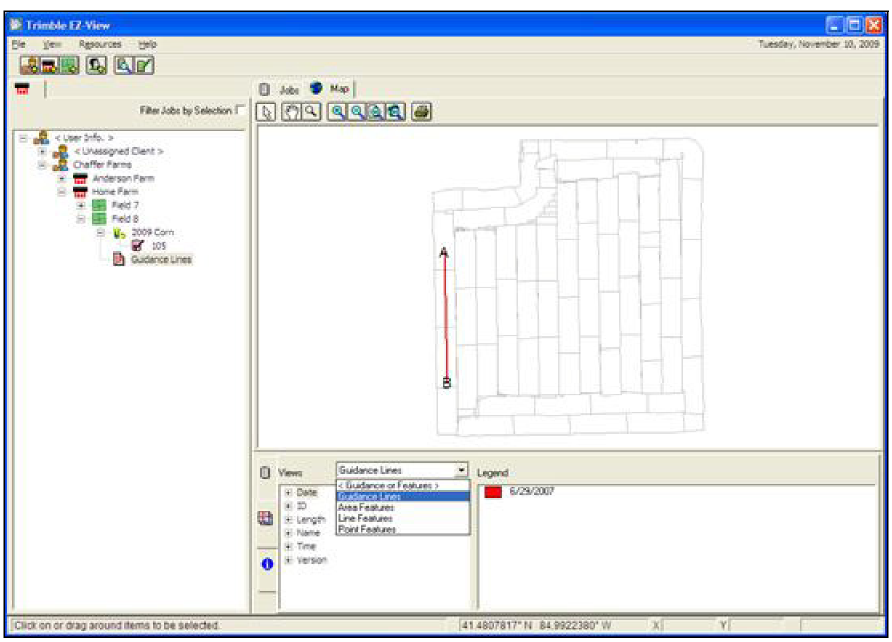


- To remove the job from the *Map* screen, clear the check box next to the field in the *View* column of the *Job* tab.

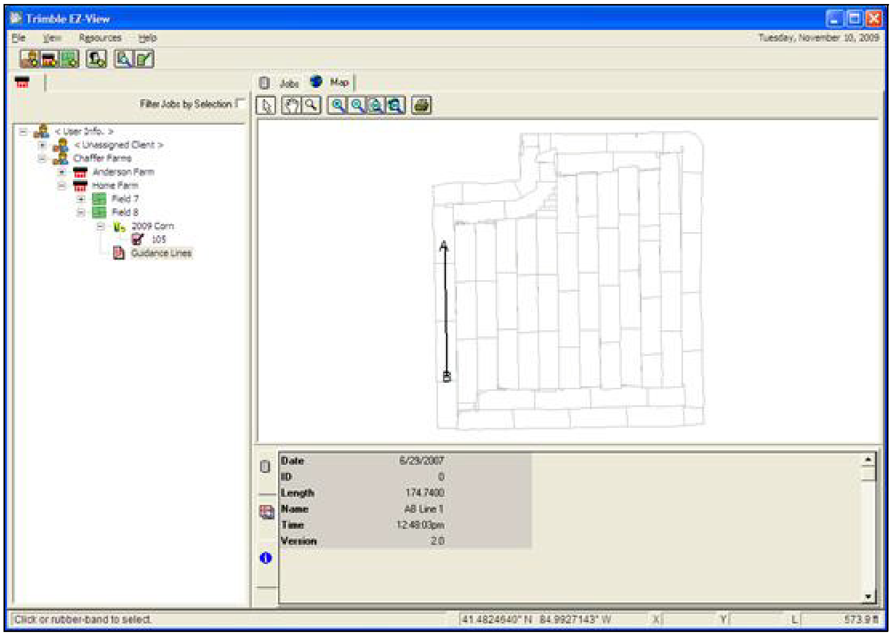
- To view data associated with the map, select an item(s) on the map and then go to the *Information* tab. If multiple items are selected, this tab shows the average, minimum, and maximum values:



- To view guidance lines or point, line, and area features that were created with the job, select the appropriate option from the drop-down list:



- To see information on a guidance line, select an individual line on the map and then view it in the *Information* tab:



Viewing guidance lines

Guidance lines can be read in from, and written to displays such as the Trimble FmX integrated display, the Trimble CFX-750 display, the CNH Pro 700 display, the New Holland IntelliView II display, and Ag Leader Integra and Versa displays. For specific guidance line types and their supported monitors, see the following chart.

***Note –** You can create guidance lines on a Trimble display and send them a New Holland or AFS display and the other way around.*

Guidance line type	Supported monitors
Curved Line	Trimble EZ-Guide® 250 & 500
Straight Line	Trimble FmX integrated display
	Trimble CFX-750 display
	FM-1000™ integrated display
	FM-750™ display
	AFS 200 display
	AFS Pro 300 display
	AFS Pro 600 display
	AFS Pro 700 display
	IntelliView II display
	IntelliView Plus II display
	Intelliview III display
	Intelliview IV display
	Ag Leader Integra display (*.agdata file format)
	Ag Leader Versa display (*.agdata file format)
A+ Line	Trimble EZ-Guide 250 & 500 display
	Trimble FmX integrated display
	Trimble CFX 750 display
	FM-1000 integrated display
	FM-750 display

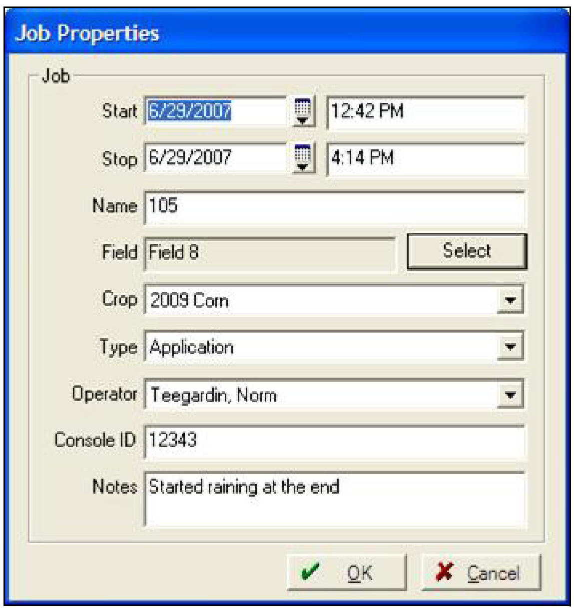
Modifying and Managing Jobs

Finding an existing job

- In the *Farm* tab, click + to open the client tree and navigate to the recorded job.
- In the *Jobs* tab, use the sorting and filtering options to display only the jobs that meet the criteria of the job for which you are searching.

Modifying a job

1. Once you have found a job, do one of the following:
   - In the *Farm* tab, right-click the job and then select *Properties*.
   - In the *Jobs* tab, click **Properties**:



2. In the *Job Properties* dialog, delete or change the required properties.

To delete an entire job, right-click it in the *Farm* or *Job* tab and then select *Delete*.

Using the Jobs tab

When you select the *Jobs* tab, all the jobs you have imported into the program are listed; there is a separate row for each job. The columns (including, the Job Name, Date, Client, and other columns) show specific information for each job.

You can do the following in the *Jobs* tab:

- Sort the listed jobs. To do this, select the appropriate column header, for example, click *Field* to sort the jobs by field name.

  To reverse the order of the jobs, select a column header a second time, for example, if you click the Date column once, the newest jobs are at the top; if you click it the second time, the oldest jobs are at the top.

- To widen or narrow a column, move your cursor over the space between the column header until it changes to a cursor with two arrows and then hold the left mouse button down as you drag your mouse to the left or right.

- Use the filter to display only certain jobs. To view the jobs for only one client, farm, or field:

  a. In the *Farm* tab, click the + next to the client or farm icon for the jobs you want to display.

  b. Select the *Filter Jobs by Farm* check box at the top of the Farm field to display only the jobs for that farm in the *Jobs* tab.

  c. If you select a specific field icon in the *Farm* tab, only the operations for that field appear in the *Jobs* tab.

  d. To remove the filter, clear the *Filter Jobs by Farm* check box. The program displays all of the jobs for all of the fields in the *Jobs* tab.

- To filter jobs by a date range, or by other criteria, click **Edit Filter** in the *Jobs* tab to open the *Job Filter* dialog. Select the check boxes for each property you want to add to the filter. You can filter jobs by different criteria and then click **OK** to display only those jobs that meet the criteria:

  – To filter jobs by a particular date range, select the *Date Range* check box and then enter the required dates in the *From* and *To* fields.

  – To filter jobs by any of the other criteria, select the check boxes beside the property and enter or select the values to filter.

  To remove criteria from the job filter, clear the check boxes.

- To edit filtered items, click **Edit Filter** and then make the required changes.

- To remove a filter, click **Clear Filter**.

Note – *It is possible to apply a filter that does not show any jobs in the list. If the job list is blank, click* ***Clear Filter*** *to show all of the jobs again.*

- To merge two or more different jobs, of the same type and crop and in the same Field, highlight all the jobs in the *Jobs* tab by holding down the **Ctrl** key and then clicking **Merge**. The multiple entries in the jobs list are now only listed as one. If you right-click the new job, it shows a separate column for each job that was merged, as well as a *Total* column.

- To delete a job, click **Delete**. ***Once a job has been removed, it cannot be recovered***

- To view or edit the details of a job, click **Properties**.

Using the View menu

Use the *View* menu to set your viewing preferences for the *Farm* and *Input* tabs—you can show or hide items such as retired land areas, retired machines, people, or supplies.

To show items, select the required item from the *View* menu—a checkmark appears next to the menu item, and an asterisk appears next to the item in the *Farm* tab:

To hide items, select the required item again—the checkmark disappears.

Creating polygon variety maps

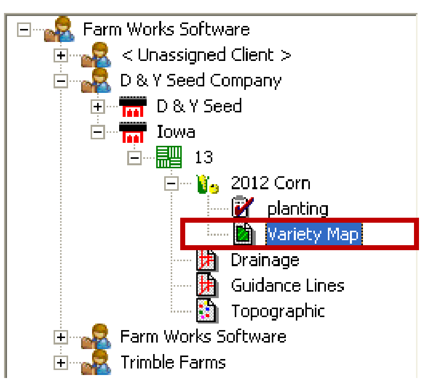
The program can automatically create a polygon variety map based on a planting job associated with a crop enterprise imported into the software using the *Read Job Data* option. These polygon variety maps can then be used for the variety locator on specific devices that are capable of variety locator features. The maps are included when you select a supported device (such as the FmX integrated display or the CNH Pro 700 display) in the *Write Job Data* field.

In addition, if you have yield maps, the program compares the varieties on this map to your yield maps and creates a yield by variety that is included on the *Yield Variety Report*.

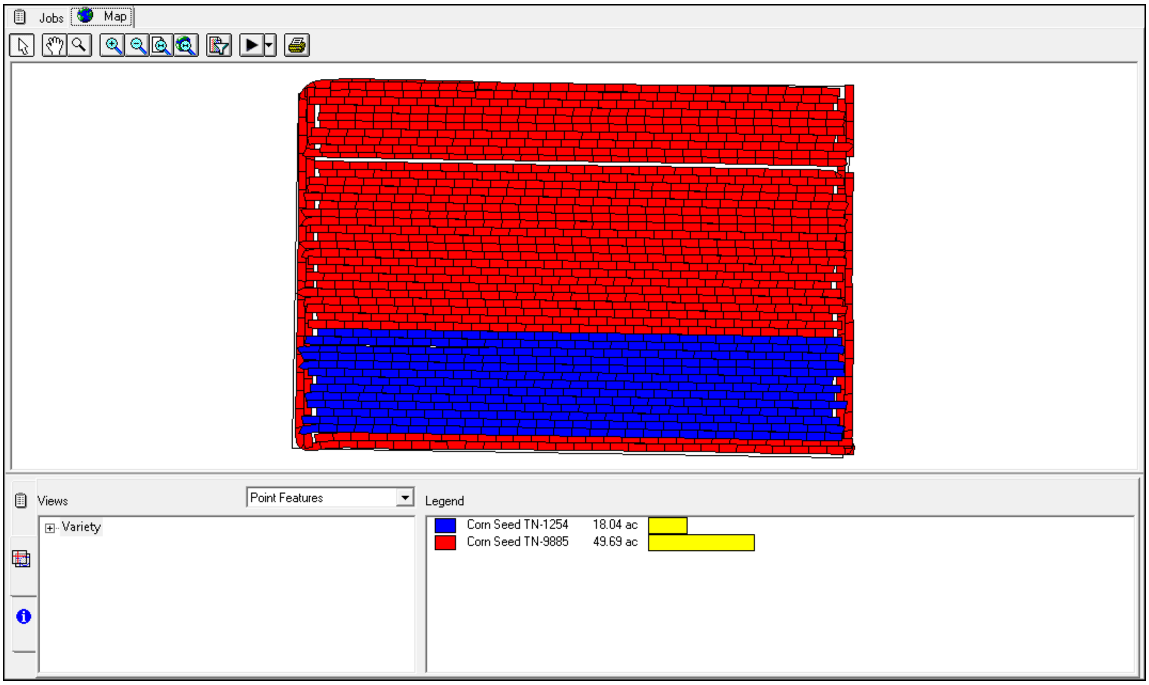
Adding polygon variety maps

1. In the *Farm* tab, right-click the enterprise containing the field for which you want to create a variety map (for example, *2012 Corn*), and then select *Add Layer/ Add Variety Layer.*

   The variety layer is listed under the enterprise.

2. Double click the *Variety Map* polygon layer to display it in the *Map* tab. It is displayed as a polygon/area map with the different varieties displayed in one map.

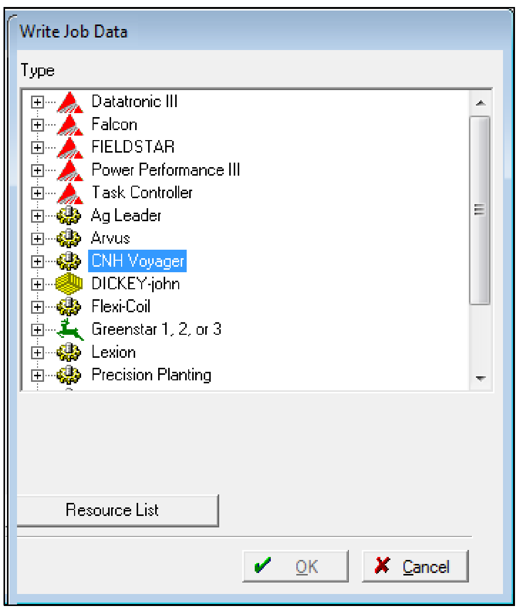


Writing Job Data

The program allows you to write (export) job data for use with different precision agriculture devices, for example, when setting up a device for the first time or when using multiple devices. Clients, Farms, and Fields are created on the device from the structure you have in the software. The software also exports any guidance lines and People that were imported so that you can share them with another unit. When you write job data, you can choose which items to export.

Writing job data to an external device

1. Click the Write Job Data icon :



2. Select the type of precision farming device you are writing job data to.
3. Insert a USB drive or other external storage device that you want to export the data to.
4. Click **Browse** and then choose the export location.
5. Click **Resource List** to limit the items that will be written.
6. Select each item to export: A check mark appears next to it in the list. This will create the Client, Farm, and Field structure on the device.
7. Click **OK**. The program creates the necessary files and folders that are required by the selected precision agriculture device. You can then import that data into a company device.

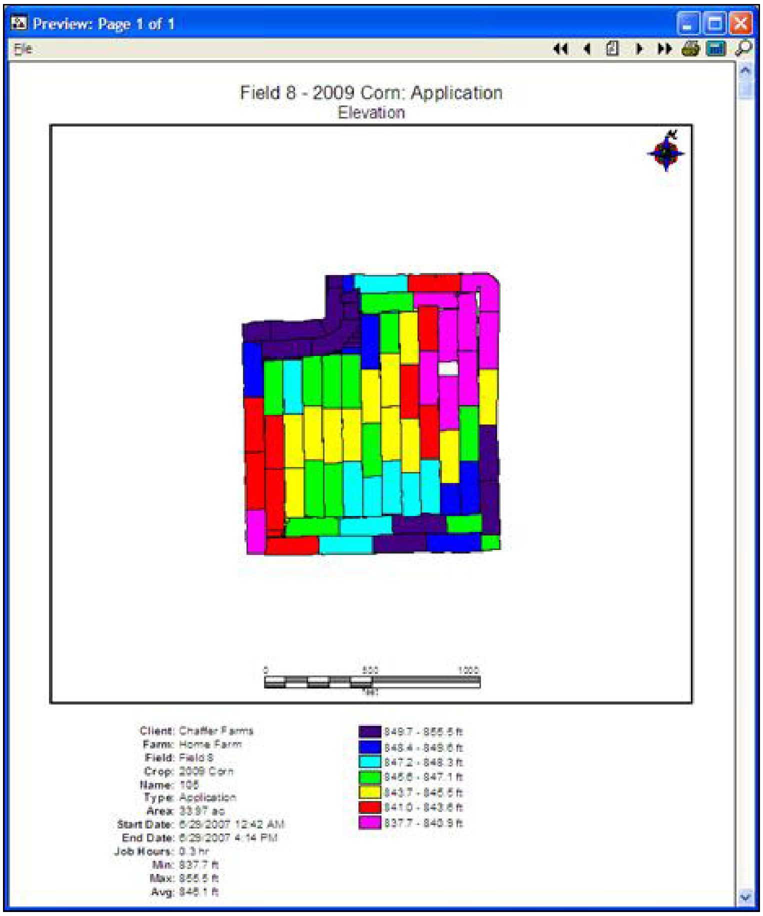
Writing Variety maps to a supported device

To write the variety maps to a supported device (such as the FmX integrated display or the CNH Pro 700 display), use the program's *Write Job Data* option.

1. From the *Write Job Data* screen, select the correct device and format.
2. If applicable, select **Advanced Setup**.
3. Make sure that *Export Varieties* is marked as *True* or *Yes*.
4. Click **OK**.

Printing Maps

In the *Map* tab, click the Map Report icon to preview the map as it appears. The Map Report includes basic summary information for any job that is displayed (including the Client, Farm, Field, and so on). In addition, the Map Report includes the legend that was used in the *Map* tab:



Click the print icon in the report preview to print the map.

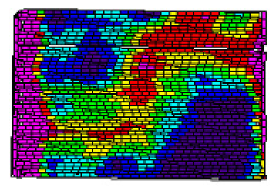
Printing a Job Report

In the *Job* tab, right-click a job and then select **Print** to display a Job Report.

The Job Report displays all the job details that were collected, including information on the field, supplies, people, and equipment. It also includes a map.

Job Report

Client	2010 Demo
Farm	home farm
Field	Scott#10
Crop	2011 Corn
Field Area	29.00 ac



Region 1 4/21/2011 12:04 PM - 4/21/2011 3:52 PM

	Area (ac)	Rate (/ac)	Quantity	Unit Cost	Total
Supplies					
DKC62-54	5.00ac	32,000.00 pop	2.00 bag	$300.00	$600.00
P35K01	5.00ac	32,000.00 pop	2.00 bag	$300.00	$600.00
				Total:	**$1,200.00**

Field and Weather Information

Growth Stage:	Bare Ground	**Soil Condition:**	Dry
Application Method:	Pre-emergence	**Soil Type:**	Clay
Sky Conditions:	Clear	**Gusting Speed:**	7 mph
Wind Direction:	West	**Temperature:**	50°
Wind Speed:	5 mph	**Humidity:**	70.00%

Index

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