

# Data Manager

The Data Manager module is the backbone of AgFleet. This module is designed to allow the user to setup grower profiles, and assign various classes of data to those profiles. It also gives the user an interface for the editing and manipulation of GIS field boundaries via the embedded boundary editor.

The Data Manager module has the following components: Setup, Tools, and Products. The Setup component is for virtual land management. This includes the naming of managed pieces of land, along with the uploading of associated base data to the field level or below. In Tools, a number of functions are available for the moving and conversion of data in the AgFleet system. The Products component is where maps and summaries of input land usage may be viewed.



Throughout the module, the page header is used as a navigation bar to select location and the desired Data Manager component.

## Setup

In the Setup component, land is broken down in the order of Grower, Farm, Field, Season, and Zone. For analysis purposes in other AgFleet Modules, the field level will be the minimum required unit.

Adding, deleting and renaming of any Grower, Farm, Field, Season or Zone is done by clicking the desired edit button (*Add, Delete, Rename*). Adding a Season requires entering a season name and selecting a start date for the season. An end date for the season may be selected by clicking on *End Season*.

Grower:	--	Add	Delete	Rename	
Farm:	--	Add	Delete	Rename	
Field:	--	Add	Delete	Rename	
Season:	--	Add	Delete	Rename	End Season
Zone:	--	Add	Delete	Rename	

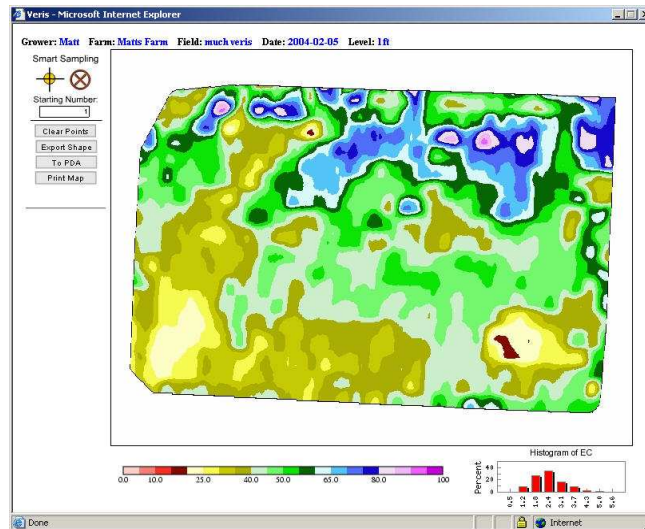
Where applicable, Boundary, Attribute, Veris, Aerial Imagery, Yield, and Evaluator data can be uploaded for fields by selecting the appropriate Upload Type. Enter the file name to upload, and click on *Upload File*. Once uploaded, this plotted data can be viewed and edited by clicking on the links that appear in the left frame after the upload has occurred.

The screenshot shows the 'Data Manager' interface in a Microsoft Internet Explorer browser. The main content area contains a form for field management. At the top, there's a 'Location' dropdown set to 'Zedex'. Below that are several rows of dropdown menus for 'Grower', 'Farm', 'Field', 'Season', and 'Zone'. Each dropdown menu has three buttons: 'Add', 'Delete', and 'Rename'. The 'Season' dropdown also has an 'End Season' button. Below these dropdowns is an 'Upload Type' dropdown menu with a 'Browse...' button next to it. The 'Upload Type' dropdown is currently open, showing options: 'Boundary', 'Attribute', 'Yield', 'Veris', 'Aerial Imagery', and 'Evaluator'. The left sidebar contains a tree view with the following items: 'Blends (1 Available)', 'Field Notes (03-24 - 03-24)', 'Satellite Imagery', and 'Saved PDF'. The top of the browser window shows the title 'Data Manager - Microsoft Internet Explorer' and the address bar contains 'Location: Zedex'. The bottom of the browser window shows the status bar with 'Done' and 'Internet'.

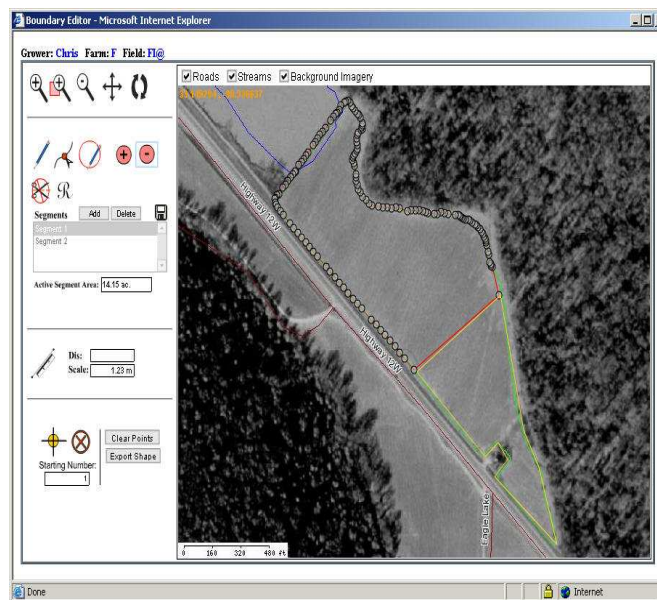
Boundaries with multiple segments should be uploaded into the system in one complete file. If there are areas in a boundary file that should be excluded, they can be removed from the field by uploading an exempted boundary as an attribute. Examples of these attributes are roads, sink holes, wet lands, trees, and water.

In the Data Manager Setup page, acres are displayed in the left frame next to the boundary edit icon. If there is no boundary for the field, one may be created by clicking on the boundary area, or acres may be entered by clicking on the *Edit* button in the left frame. Acres cannot be edited for fields that have an existing boundary. A field may be set to Active or Inactive by clicking on the *Set Active* button in the left frame.

This is the Veris “View/Edit” screen. By clicking on the *Points* button, data points can be viewed, added, deleted, and renamed. This is the same as the Yield “View/Edit” screen. Zooming on these maps can be accomplished by clicking the right mouse button and selecting “Zoom In”. Unzooming is accomplished by the same process, but by selecting “Zoom Out” or “Show All”.



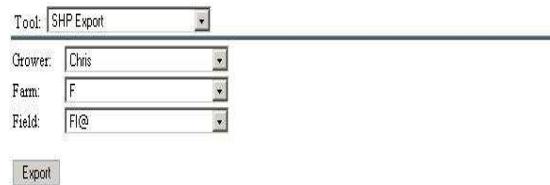
This is the Boundary “View/Edit” screen. This is where the boundary itself can be created or adjusted. For further information on boundary editing, refer to the ZedX Boundary Editor documentation.



# Tools

In the Tools component, there are currently two tools. The tools are as follows: SHP Export and SHP to GPL.

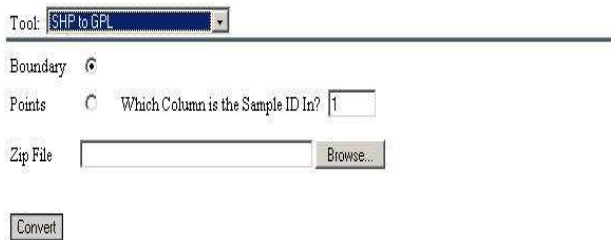
## 1. SHP Export



The screenshot shows the 'SHP Export' tool interface. It features a 'Tool:' dropdown menu set to 'SHP Export'. Below it are three dropdown menus: 'Grower:' with 'Chris', 'Farm:' with 'F', and 'Field:' with 'F1@'. At the bottom is an 'Export' button.

The SHP Export tool returns a boundary shape file to your computer for a specified field. This shape file can be used for additional boundary uploads or for third party programs. Select Grower, Farm and Field and click on the *Export* button to perform the export function.

## 2. SHP to GPL



The screenshot shows the 'SHP to GPL' tool interface. It features a 'Tool:' dropdown menu set to 'SHP to GPL'. Below it are two radio buttons: 'Boundary' (selected) and 'Points'. The 'Points' option has a sub-label 'Which Column is the Sample ID In?' followed by a text input field containing '1'. Below these is a 'Zip File' label followed by a text input field and a 'Browse...' button. At the bottom is a 'Convert' button.

The SHP to GPL function is used to convert a boundary or points shape file into a GPL standard file. These files are used in the AgFleet system, or for other third party programs. If this is a point file conversion, the sample ID column must be specified correctly since shape files may be constructed differently. Enter a Zip File name and click on *Convert* to perform the conversion.

# Products

There are currently four products under the Data Manager Products component. These products are as follows: Activity Report, Farm/Field Map, Zone Map and Farm/Field Summary.

## 1. Activity Report

The Activity Report is a product to display active and inactive fields for the Grower and Farm selected. Also displayed is the number of acres per field and total number of acres for the Grower and Farm. The product format may be selected from the Format select box and currently includes PDF and CSV. There are radio buttons to select either All Fields, Only Active Fields, or Only Inactive Fields. Click on the *Enter* button to display the Activity Report in the format selected. See below for an example of the Activity Report setup and the Activity Report product.

The screenshot shows the 'Data Manager' web application in a Microsoft Internet Explorer browser window. The interface includes a navigation menu with 'Setup', 'Tools', and 'Products'. The 'Products' menu is active, showing a dropdown for 'Product' set to 'Activity Report'. Below this are dropdown menus for 'Format' (set to 'PDF'), 'Grower' (set to 'Chris'), and 'Farm' (set to 'F'). There are three radio buttons: 'All Fields' (selected), 'Only Active Fields', and 'Only Inactive Fields'. A 'Field:' section contains a table of checkboxes for field names: asdf, cdf, FI, FI@, TestT, and Test2. 'Select All' and 'Clear All' buttons are above the table, and an 'Enter' button is to the right. The browser status bar at the bottom shows 'Done' and 'Internet'.

The screenshot shows the 'Activity Report' output from the Data Manager application. It includes a legend for 'Active Field' (green) and 'Inactive Field' (red). The main table displays data for Grower, Farm, Field, and Acres. The table is as follows:

Grower	Farm	Field	Acres
Chris	F	asdf	21.04
Chris	F	cdf	14.32
Chris	F	FI	39.06
Chris	F	FI@	2.30
Chris	F	TestT	64.18
Chris	F	Test2	24.12
F TOTAL			369.55
Chris TOTAL			369.55

At the bottom of the report, it says 'Page 1' and 'ISSUED: 9:55am EDT Jan 1, 2004 A Product of AgNet Version 3.00'. Copyright information is also present: 'Copyright: 2004 ZeRF Inc. All Rights Reserved.'

## 2. Farm/Field Map

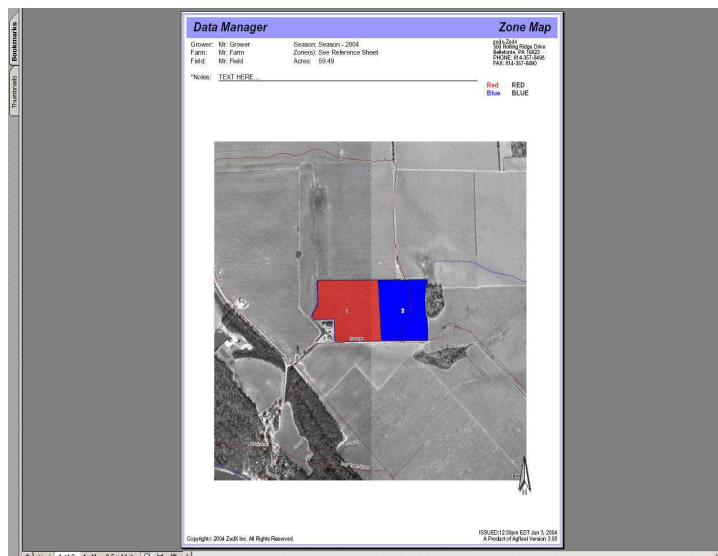
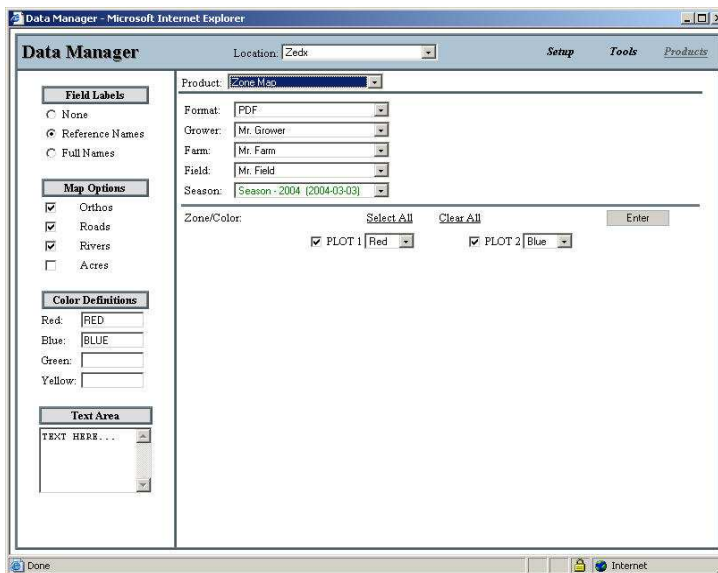
The Farm/Field Map is a customizable product to display any combination of field boundaries, orthographic backgrounds, roads, rivers, names, and personalized information. There are radio buttons for Field Labels to select either Reference Names, Full Names or None. To place field names directly on the map, select the "Full Names" checkbox. Using the "Reference Names" checkbox places a reference number on each field which corresponds to the number on the attached map reference page. There are also checkboxes to select one or more Map Options (Ortho, Roads, Rivers, Acres, Attributes). Color definitions and text may also be entered in the left frame. Choose the Format for the product, either PDF or View and Save PDF. Both will return a viewable PDF, but the Save selection prompts for the file name and saves this file to the AgFleet system so growers can view this data via the Data Viewer module (also viewable in Data Manager). Select Grower and Farm and then click on the checkboxes for the fields desired and select a color (red, blue, yellow or green). Click on *Enter* to display the Farm/Field Map for the field(s) and color(s) selected. See below for an example of the Farm/Field Map setup and the Farm/Field Map product.

The screenshot shows the 'Data Manager' web application in a Microsoft Internet Explorer browser window. The page title is 'Data Manager' and the location is set to 'Zedx'. The 'Product' dropdown is set to 'Farm/Field Map'. The 'Format' dropdown is set to 'PDF'. The 'Grower' dropdown is set to 'Mr. Grower' and the 'Farm' dropdown is set to 'Mr. Farm'. Under 'Field/Color', there are two rows of checkboxes and dropdown menus. The first row has a checked box for 'Mr. Field' with a dropdown set to 'Red', and an unchecked box for 'Mrup' with a dropdown set to '--'. The second row has an unchecked box for 'test me' with a dropdown set to '--'. There are 'Select All', 'Clear All', and 'Enter' buttons. On the left side, there are sections for 'Field Labels' (radio buttons for None, Reference Names, Full Names), 'Map Options' (checkboxes for Ortho, Roads, Rivers, Acres, Attributes), 'Color Definitions' (input fields for Red, Blue, Green, Yellow), and 'Text Area' (a text input field with 'TEXT HERE...').



### 3. Zone Map

The Zone Map is a customizable product to display any combination of zone boundaries, orthographic backgrounds, roads, rivers, names, and personalized information. There are radio buttons for Field Labels to select either Reference Names, Full Names or None. To place field names directly on the map, select the "Full Names" checkbox. Using the "Reference Names" checkbox places a reference number on each field which corresponds to the number on the attached map reference page. There are also checkboxes to select one or more Map Options (Ortho, Roads, Rivers, Acres, Attributes). Color definitions and text may also be entered in the left frame. Choose the Format for the product, either PDF or View and Save PDF. Both will return a viewable PDF, but the Save selection prompts for the file name and saves this file to the AgFleet system so growers can view this data via the Data Viewer module (also viewable in Data Manager). Select Grower and Farm and then click on the checkboxes for the fields desired and select a color (red, blue, yellow or green). Click on *Enter* to display the Zone Map for the field(s) and color(s) selected. See below for an example of the Zone Map setup and the Zone Map product.



#### 4. Farm/Field Summary

The Farm/Field Summary is an acre reference sheet like that which comes attached to the Farm/Field Map. To setup this product, select the Grower, Farm, and Format of the product as either PDF or CSV. Next, click on the checkboxes associated with the fields you wish to be listed in the summary. Click on *Enter* to display the Farm/Field Summary product. See below for an example of the Farm/Field Summary setup and the Farm/Field Summary product.

The screenshot shows the 'Data Manager' web application in Microsoft Internet Explorer. The 'Location' is set to 'Zedex'. The 'Product' is 'Farm/Field Summary', 'Format' is 'PDF', 'Grower' is 'Mr. Grower', and 'Farm' is 'Mr. Farm'. Under the 'Field' section, there are buttons for 'Select All', 'Clear All', and 'Enter'. Four checkboxes are checked: 'Mr. Field', 'Mrp', 'test me', and 'Wana'.

The screenshot shows the 'Grower Summary' report. It includes contact information for 'Mr. Grower' and a table with the following data:

Grower	Farm	Field	Acres
Mr. Grower	Mr. Farm	Mr. Field	55.33
Mr. Grower	Mr. Farm	Mrp	135.17
Mr. Grower	Mr. Farm	test me	55.33
Mr. Grower	Mr. Farm	Wana	55.33
Mr. Farm TOTAL	244.15		
Mr. Grower TOTAL	244.15		

At the bottom of the page, it says 'Page 1' and 'Copyright 2004 Zedex Inc. All Rights Reserved'. The footer also includes 'RIS/SD 12/09/00 EDT Jun 1, 2004 A Product of Agrium Version 3.00'.