

For: State and County Offices

Preparations for Deploying and Using the CRP General Signup Common Computing Environment (CCE) Geographical Information Systems (GIS) Tool

Approved by: Acting Deputy Administrator, Farm Programs



1 Overview

A Background

CRP policies, systems, and databases are being re-engineered to support the use of GIS systems for CRP offer and contract processing. CEPD, ITSD, and PECD staff are developing a CRP GIS Tool (Tool) to be used by suitable County Offices during the next general signup to help process offers. This Tool is being programmed as an ArcView GIS Extension and is designed to operate with ArcView 3.2 or 3.3 using GIS shapefiles and CRP databases that are already in existence or currently under development.

The Tool is intended to be used interactively by County Offices working with producers during signup for developing possible CRP offer scenarios. Using the software will substantially enhance the accuracy and reduce the time required to make CRP determinations compared to manual processes. The primary function of the Tool is the generation of an ArcView GIS Layout (map) with the offered area delineated and related determinations and calculations provided on the map. See Exhibit 1 an example of a GIS layout map.

B Purpose

This notice provides GIS and related CRP information to State and County Offices to prepare for and use the Tool.

Note: A forthcoming CM notice will provide procedure for managing files produced by the Tool.

<p>Disposal Date</p> <p>August 1, 2003</p>	<p>Distribution</p> <p>State Offices; State Offices relay to County Offices and NRCS State Offices</p>
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Notice CRP-432

2 Tool Use

A Supporting General Signup With the Tool

The following CRP business rules and GIS features are about the Tool.

This current Tool is being developed to support 2003 general signup only. Future enhancements are being planned to support continuous, Conservation Reserve Enhancement Program (CREP), and Farmable Wetland Program (FWP) signups.

The Tool is primarily designed to help County Offices make soils and related determinations that include identifying/determining for an offer scenario area:

- Soil Map Unit Symbols (soil types) and Soil Acreages
- Soil Rental Rates and Maximum Payment Rates
- Erodibility Index ≥ 8 Land Eligibility.

The Tool is intended to be used primarily as an interactive aid for both the County Office and producers to develop CRP scenarios for possible CRP offers during signup. County Offices may use the Tool to make soils determinations for offers after producers have left the office, however, the ability to quickly develop alternative scenarios is lost when this is done.

Using the Tool by suitable County Offices to support the next general signup is voluntary but strongly encouraged where suitable. Using manual soils determinations is the standard policy for CRP administration. County Offices that choose not to use the tool for some or all offers received will be required to make soils determinations using non-GIS methods for those offers. There may be some offers for which manual soils determinations are quicker and more practical, such as those with clearly only 1 soil type.

For those States where the Tool is to be used, SED's, CRP program specialists, and State GIS Coordinators shall facilitate and manage Tool deployment and use by County Offices.

2 Tool Use (Continued)

B CRP GIS-Suitable County Offices

Those County Office locations that **are suitable** to make soils and related determinations with the Tool, as outlined for processing “Levels B and C” as described in subparagraph C, are those with the following:

- ArcView GIS 3.2 (or higher) software and GIS/CRP Tool use training
- NRCS’s SSURGO II soils shape file (or other soils shapefile approved according to subparagraph 3 A)
- CRP Soils Database
- Mosaick Digital Ortho Quad (MDOQ) or similar aerial imagery.

Those County Office locations which **are not suitable** to make soils determinations with the Tool may be able to use the Tool to determine total acreage and create layout maps for offer scenario areas using processing “Level A” as described in subparagraph C. These locations require the following:

- ArcView GIS 3.2 (or higher) software and Tool use training
- MDOQ or similar aerial imagery.

Note: This more basic level Tool use does not use any soils shapefile, soils databases, or any other soils information.

2 Tool Use (Continued)

C Processing Levels

The Tool is designed with the following 3 different processing levels, the use of which depends on the GIS data available and the needs of the County Office.

- (Level A) **Simplified Feature/Determine Total Acres** – The Tool can be used by those County Offices that only have a digital orthophoto, but do not have NRCS’s SSURGO II soils shape files, (or other approved soils shape file), available. The Tool produces a GIS layout (map) containing the area selected or drawn and displays the total acreage of that area. Administrative data is also recorded in the layout heading.
- (Level B) **Soils Determination/Determine Soils & Rents** - The Tool provides the same features of (Level A), but also determines soil types, soil acreages, and the Maximum Payment Rate. (Level B) requires NRCS’s SSURGO II soils shape file and the new CRP Soils Database. This level is intended to be used for counties where $EI \geq 8$ land eligibility determinations are not needed because users know that the cropland is already eligible under Conservation Priority Area or other criteria. All soils delineated in the layout are listed on the output table with the corresponding Soil Rental Rates (SRR’s).

(Level B) can be used to provide applicants with the Maximum Payment Rates for alternate offer scenarios.

- (Level C) **Soils Determination/Determine Soils, Rents, and EI Eligibility** – The Tool provides the same features of (Level B) and requires the same SSURGO II and CRP Soils Database. The Tool also calculates $EI \geq 8$ for land eligibility determinations. The land eligibility determinations, which output the calculated EI rates for wind and water erosion and a “YES/NO” eligibility statement, require the verifications of default Rainfall (R) and Climate (C) erosion factors.

(Level C) can be used to provide applicants both the Maximum Payment Rate and $EI \geq 8$ land eligibility information to help producers qualify acreage using alternate scenarios.

Note: The Tool only allows 1 processing level to be used for each scenario. County Offices should use the appropriate level for all scenarios.

2 Tool Use (Continued)

D Other GIS/CRP Rules and Guidelines

The Tool will not function for those farms outside the county boundaries unless the County Office also has SSURGO II shape file coverage and digital aerial photography for these areas. Offers for land on these farms will usually require planimeter-based or manual soils determinations.

The Tool functions as a “stand-alone” desk-top application for developing possible offer scenarios. Information from the scenarios, developed with the producers, must be manually entered into the Access General Signup System (AGSS) offer system to become actual CRP offers. Offer information, generated by the Tool, cannot be transferred digitally into the offer system.

In addition to this Tool, the new offer system, AGSS, which is being developed by CEPD and KC-ISTDO, will be used by FSA County Offices staff during signup to help make Maximum Payment Rate, Land Eligibility, Environmental Benefits Index, and related calculations. AGSS and the Tool software processes will both read the same CRP soils database. CEPD and KC-ITSDO will mail a copy of all 3 on compact disc (CD) to County Offices before the beginning of the next general signup.

NRCS will be available during signup for extraordinary technical assistance needs. If all local parties agree, GIS-trained NRCS staff may use the Tool to support signup.

The Tool supports scenario development by automatically recording scenario numbers, which are unique for each tract whenever a layout (map) is created. County Offices can develop multiple offer scenarios for a tract so applicants can submit 1 or more offers. When no offers are submitted, scenarios may be deleted to help keep records more organized; however, users who delete scenarios must keep a count of the total number deleted for workload recording purposes.

Some of the acreage delineated for a potential offer may have inclusions or borders with non-cropped land that needs to be excluded before scenarios are processed. In some cases, fields delineated in the Common Land Unit (CLU) layer include non-cropped areas. In addition, some CRP offers require soils determinations for the entire offered area and for subportion of the offered area.

Notes: See the Tool’s User Guide for instructions for handling subportion processing.

A copy of the Tool’s User Guide is available through Internet Explorer at <http://fsagis.usda.gov/fsagis/>. Highlight “**Tools**” and “**User Documentation**”. Click on “**CRP GIS Tool General Signup 26 v 1.0**”.

3 Tool Support Files

A SSURGO II Soils Theme (Required for Soils Determinations)

The soils theme for Tool use is the NRCS SSURGO II shapefile maintained for suitable County Offices on a shared drive on the County Office file server.

Notes: Counties with land in multiple soil surveys may need to use more than one SSURGO II shape file depending on the area in the county where scenarios are to be processed.

The tabular data deployed with NRCS's SSURGO II shape files is not used by the Tool.

Refer to the **Manual for Managing Geospatial Datasets in Service Centers Version 4.0** for the specific directory tree, file naming convention, and managing the data.

State CRP Program Specialists shall review SSURGO II deployment with NRCS State Offices and identify and notify applicable County Offices that currently have, or will have no later than May 2, 2003, NRCS's SSURGO II, or other approved soils shapefile, deployed and available for Tool use.

FSA State Offices may also contact Ken Lubich, NRCS National Soil Survey Digitizing & DMF Coordinator at 608-276-8732, extension 248, for additional assistance about SSURGO II deployment plans.

For County Office locations without SSURGO II, other soils shapefiles may be available, which include SSURGO (I) and/or locally-developed soils shape files. Soils shapefiles other than SSURGO II are approved for use with this Tool by GIS-trained County Offices if all the following are met.

- The NRCS State Office approves using soils layer and certifies that the boundaries of the soils polygons are correct and suitable for CRP soils determinations.

3 Tool Support Files (Continued)

A SSURGO II Soils Theme (Required for Soils Determinations) (Continued)

- The soils shapefile identifies the soil map unit symbol in the attribute table with the field name "MUSYM" and the soil MUSYM's developed in the shapefile layer are consistent with those maintained on the National CRP Soils Database for cropped soils.
- The State Geodata Managers approves using the layer.
- Using the layers with the Tool is tested by the FSA State Office to verify that the Tool functions correctly.

Note: For matching to the CRP Soils Database and Layout title line output, the Tool obtains the Soil Survey Area ID Number from the soils shapefile name. All soils layers used with this Tool must use file names with the format of "soil_a_nd079.shp". The "nd079" reflects the NRCS's Soil Survey Area ID Number. This GIS shapefile, if available, should already be stored on the computer server in the County Office in folder **F:\geodata\soils**.

B CRP Soils Database (Required for Soils Determinations)

To support both Tool processing and CRP AGSS offer software, soils data must be maintained by FSA and NRCS State Offices in the Soils Database Management System as described in Notice CRP-425. A copy of this:

- Intranet database will be used by the Tool for rental rate and land eligibility calculations
- complete soils file for the entire United States will be distributed with the Tool to each County Office before the next general signup begins.

The Intranet database is maintained by FSA and NRCS State Offices only for cropped soils, including those soils on which continuous hay is grown. For this reason, for some counties there may be fewer soils types (MUSYM's) listed in the database than reflected in SSURGO II shapefiles.

The CRP Soil Database Management System is located at <http://fsatpws2.fsa.usda.gov/SoilDbMgnt/Main.jsp>.

3 Tool Support Files (Continued)

B CRP Soils Database (Required for Soils Determinations) (Continued)

An InstallShield will be released with AGSS and the tool software that will automatically load a copy of this database from CD to the hard drive on a PC.

This file will be copied to the hard drive on the PC with file name

C:\program files\USDA\Ags26\crp_tables.mdb.

Note: This Microsoft Access Database contains both a CRP soils file, and an additional county-level file with default RUSLE Rainfall “R” factors and WEQ Climate “C” factors used by the Tool and AGSS to support Erodibility Index calculations.

For GIS layouts processed with missing soils records, an error message will be provided and SRR will be listed as “ERR” for the applicable soil “MUSYM”. To have missing soils records added or incorrect soils data adjusted, County Offices must contact the FSA State Offices for record updating.

Distributing updated soils files to County Offices for both AGSS and the Tool processing is supported by a “Download Soils” website feature that generates a copy of the current records for saving on a comma delimited PC file. The records in the saved comma delimited PC file then must be imported into the Access Database file using AGSS’s “Import Soil Data File” option to complete the updating of the soils records by a county.

3 Tool Support Files (Continued)

C CLU Theme (Optional)

The Tool is designed to function with or without the CLU theme. Uncertified CLU can be used with the Tool.

The CLU theme, if available, should always be loaded before scenarios are processed. Having CLU loaded provides the following capabilities:

- supports the following:
 - “FIND” tool feature to help users search and zoom to a specific farm/tract
 - automatic loading of Farm/Tract/CLU-Field numbers to the layout map
 - using the split-field feature
 - error messages for individual scenarios that cover multiple tracts
- orients users to the area of interest
- existing whole fields can be easily and accurately selected rather than using the draw tool.

The GIS shapefile, if available, should already be stored on the computer server in the County Office in folder **F:\geodata\common_land_unit\fsa_clu**.

Notes: Refer to the **Manual for Managing Geospatial Datasets in Service Centers Version 4.0** for the specific directory tree, file naming convention, and managing the data.

D Digital Aerial Photography Theme (Required)

MDOQ imagery received from APFO should be used with the Tool, if available. If the County Office does not have this GIS layer, they are authorized to use NRCS’s MDOQ or other suitable imagery layer approved by the State Geospatial Data Team.

This GIS file, if available, should already be stored on the computer server in the County Office in folder **F:\geodata\ortho_imagery**.

Note: Refer to the **Manual for Managing Geospatial Datasets in Service Centers Version 4.0** for the specific directory tree, file naming convention, and managing the data.

Request NRCS assistance for identifying the local file if NRCS MDOQ is used.

3 Tool Support Files (Continued)

E HUC-8 Theme (Optional)

The Tool is designed to support HUC-8 level USGS watershed determinations. Including this layer allows the tool to determine the applicable HUC for a given delineated area, which is printed on the title line of the layout.

State Geodata managers are responsible for correctly projecting HUC into the correct UTM zone applicable to their County Office and distributing copies of the projected HUC-8 layers to County Offices.

This GIS file, when received from State Geodata managers, should be stored on the computer server in County Offices in folder **F:\geodata\hydrologic_units**.

Note: For some counties, CRP policies require that HUC determinations larger than 8 digits be used for CRP offers. For these sites, additional HUC digits will need to be identified locally for CRP offer processing with AGSS.

F Public Lands Survey System (PLSS) Theme (Optional)

The PLSS layer provides the township/section/range grids to support the “FIND” tool.

PLSS is not available to all County Offices.

This GIS file, if available, should already be stored on the computer server in the County Office in folder **F:\geodata\cadastral**.

Note: Refer to the **Manual for Managing Geospatial Datasets in Service Centers Version 4.0** for the specific directory tree, file naming convention, and managing the data.

G Other Themes (Optional)

The Tool also allows County Offices to load other existing GIS themes that are correctly projected and have been distributed by the State Geospatial Data Team. The optional use of these layers is supported to help users spatially orient locations in their counties. Only 1 additional layer may be used at a time, the file location/name which must be determined locally.

GIS layer files not issued by State Geospatial data teams, or not in the correct projections, may not be used with the Tool.

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4 Tool Deployment Preparations and Installation/Setup

A Tool Use Preparations

County Offices shall prepare for using the Tool according to the following.

Step	Action
1	<p>State CRP and GIS staff shall, by May 2, 2003, assess and notify County Offices, for which use of the Tool is sought, about the availability of the following:</p> <ul style="list-style-type: none"> • NRCS's SSURGO II, or other acceptable soils shapefiles • MDOQ or other digital aerial photography • CLU shapefiles.
2	<p>State Geodata administrators must process the HUC shapefile into proper UTM zone projections for their counties and distribute to County Offices. Distribution must occur before May 2, 2003, to support using the HUC-8 layer for the next general signup.</p> <p>State Offices shall issue projected HUC-8 layers to County Offices using the file name "huc250K_a_us".</p>
3	<p>Before the loading the Tool from CD, County Offices shall uninstall any existing training/test versions of the Tool extension software and support files from all PC's.</p> <p>Note: Administrative privileges are required to remove the Tool.</p> <p>The application has no unattended uninstallation options. County Offices shall uninstall the application according to the following:</p> <ul style="list-style-type: none"> • open "Add/Remove Program Properties" <p style="padding-left: 40px;">Note: Click "Start", "Settings", "Control Panel", and "Add/Remove Programs".</p> <ul style="list-style-type: none"> • from the scroll down list, highlight "CRP Soils Determination Tool vX" <p style="padding-left: 40px;">Note: "X" is the version number.</p> <ul style="list-style-type: none"> • click "Add/Remove" • click "OK" • click "No" to save all shared files, if applicable. <p>The user documentation is not removed from the installation directories but subsequent installations of the Tool extension will overwrite any existing user documentation.</p> <p>Important: The approved version provides an ArcView button with the letters "CRP G26" and all training/test versions generate an ArcView button with the letter "C".</p>

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4 Tool Deployment Preparations and Installation/Setup

A Tool Use Preparations (Continued)

Step	Action
4	<p data-bbox="394 394 1027 426">Identify PC's to be used for any CRP offer processing.</p> <p data-bbox="394 468 1442 531">The County Office IT Administrator shall run the InstallShield and load the Tool from CD for all applicable FSA PC's.</p> <p data-bbox="394 573 1433 636">Note: After installing on FSA PC's, make CD available to NRCS for loading on NRCS PC's.</p>
5	<p data-bbox="818 667 1040 699" style="text-align: center;">Step 5 is Optional</p> <p data-bbox="394 730 1463 898">After the Tool is loaded from CD, County Offices may conduct a MUSYM consistency review before using the Tool to support signup operations by developing and comparing printed listings of Soil MUSYM's from both the SSURGO II shapefile, (or other approved GIS soils layer), and the CRP Soils Database file copied into a Microsoft Access file format and distributed with CD.</p> <p data-bbox="394 940 1455 1066">County Offices should contact the State CRP Program Specialist to have soil records added or modified as outlined in subparagraph 3 B for cropped soil MUSYM's listed with the SSURGO II, or other approved soils shapefile layer, but missing from the CRP Soils Database.</p> <p data-bbox="394 1108 1406 1213">Request assistance from the local NRCS office to identify MUSYM's printed from the SSURGO II soils shapefile records that are not cropped and need not be included in the CRP Soils Database.</p> <p data-bbox="394 1255 1170 1287">See subparagraph B for optional printing of Soil MUSYM's.</p>

4 Tool Deployment Preparations and Installation/Setup (Continued)

B Printing Soil MUSYM's (Optional)

Print a listing of the Soil MUSYM's:

- in the soils shapefiles according to the User Guide released with the Tool for instructions
- from the Microsoft Access table file on CD according to the following.

Step	Action	Result
1	Click "Start".	
2	Select "Run".	
3	ENTER "c:\program files\usda\ags26\CRP_tables.mdb" and PRESS "Enter".	The Microsoft Access database listing data tables will be displayed.
4	Select "USSoil" and double click on the table/file.	The data table will be displayed. Important: Make sure the data table is open.
5	PRESS "Alt" plus "R" simultaneously.	Record Menu will be displayed.
6	PRESS: <ul style="list-style-type: none"> • "Enter" • "A". 	The filter window will be displayed with the following 4 columns: <ul style="list-style-type: none"> • StateFIPS • CountyFIPS • SSAID • MUSYM.

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4 Tool Deployment Preparations and Installation/Setup (Continued)

B Printing Soil MUSYM's (Optional) (Continued)

Step	Action	Result
7	<p>In:</p> <ul style="list-style-type: none"> • “StateFIPS” column, enter the State FIPS code embedded in double quotes <p>Example: ENTER “01” for Alabama</p> <ul style="list-style-type: none"> • “CountyFIPS” column, enter the county FIPS code embedded in double quotes. <p>Example: ENTER “001” for Autauga County.</p> <p>PRESS “Enter”.</p>	
8	<p>PRESS:</p> <ul style="list-style-type: none"> • “Alt” plus “R” simultaneously • “Y”. 	<p>All soil records for the selected State and county will be displayed.</p> <p>Compare this data with the GIS Shape files.</p>

Notes: Repeat steps 5 through 9 for soil records for a different State and county.

Once the comparison task has been completed, close Microsoft Access **without saving the data.**

4 Tool Deployment Preparations and Installation/Setup (Continued)

C Installation/Setup

The Tool will be released with an install program that will copy the following files from CD to the “C” drive on PC:

- **c:\esri\av_gis30\arcview\ext32\crp_determinationtool.avx**

Note: The install process will copy this file to the correct ArcView directory, which may be at “d:\”, or other location.

- **c:\program files\usda\G26\user_guides\CRP_User_Guide.doc**
- **c:\program files\usda\G26\backup\CRP_User_Guide.doc**
- **c:\program files\usda\G26\backup\CRPDeterminationTool.avx**
- **c:\program files\usda\G26\backup\Read.**

Notes: The install program will also copy the Tool User Guide which will be available by clicking the following:

- “Start”
- “Programs”
- “USDA Applications”
- “CRP”
- “CRP Determination Tool User Guide”.

To obtain assistance loading or using the Tool software, contact the USDA Help Desk.

All CCE PC software must be installed onto PC’s by users with administrative privileges.

5 Handling GIS Projects and Scenarios

A GIS Projects and Scenarios

A separate GIS project should be established on the “F” drive on the server for each PC that will be using the Tool. Save projects to the “F” drive using the applicable unique CCE workstation name, such as “The PC Number”, as part of the file name, at the end of each day when the Tool is used, as shown below.

In addition, each GIS users should establish one GIS project for each county the Tool is used for on a PC. Include the physical location State and county codes in the file names to distinguish separate county projects.

Save the projects on all PC’s to the “F” drive using filename format “**F:\geodata\project_data\fsa\crp\01001username.apr**”.

Note: Insert:

- State and county physical location code in place of “01001”
- logon ID name of the user in place of “username”.

Process scenarios within a GIS project according to the Tool’s User Guide and the following guidelines.

- Users should zoom to the maximum extent suitable before delineating scenario acreage.
- Users are encouraged to display only the MDOQ imagery and CLU layers in ArcView before delineating the acreage for a scenario.
- Layout maps of scenarios should be printed in landscape format. Using color printers is recommended if colors are displayed in the map.
- Copies of all CRP offer scenarios layout maps that may become CRP offers should be provided to CRP applicants and kept in the applicants’ CRP folder. When maps are provided, applicants should be reminded that CRP offers require both a signed CRP-2 and CRP-1, and that eligible scenarios become offers only if requested by applicants.
- For GIS scenarios that become offers, County Offices shall attach a copy of the layout map to either the CRP-2 or CRP-1 offer in the producers’ CRP file.

5 Handling GIS Projects and Scenarios

A GIS Projects and Scenarios (Continued)

The Tool will automatically save shapefiles and windows bitmap files for each scenario/layout map. The tract number and scenario numbers are embedded in the file names, and files are stored in folder **F:\Geodata\Project_Data\FSA\CRPScenarios\layout_T####_1**.

Notes: Insert the applicable tract number in place of “T####”.

The scenario number for the tract is “1”.

If this file directory does not exist, or cannot be created, the scenarios will instead be automatically saved to **C:\CRPScenarios\layout_T####_1**.

County Offices:

- with substantial CRP activity may find that scenario/layout records may quickly become numerous and burdensome to manage
- may delete scenarios for which applicants clearly indicate they do not wish to submit as offers.

Note: See subparagraph 2 D for workload record keeping requirements for deleted scenarios.

B CRP Acreage Measurement and CRP GIS Tool Acreage Determinations

Many offers that become CRP contracts require paid measurement services to determine the correct total acreage.

All CRP GIS scenarios provide the total offer acreage rounded to the nearest tenth of an acre. The total acreage amounts produced in GIS layouts developed by trained County Office Tool users do not require additional paid measurement service.

C Subsequent CLU File Maintenance

CRP contracts/fields are recorded in the CLU layer, however, the Tool does not update the CLU layer for scenarios that become CRP contracts. CLU users are required to manually update the CLU layer with CRP contracts according 2-CP and 8-CM.

County Offices are encouraged to maintain the Tool scenario layouts and files for offers that become CRP contracts to help facilitate this later CLU layer updating.

Note: A forthcoming CM notice will provide procedure for managing files produced by the Tool.

6 Tool Enhancements Developed After Training Provided

A Features and “Alt-Left Click” Requirements

To provide for the best features possible before the next general signup, additional features have been added that may not have been available to all locations during Tool training. These late features include the following.

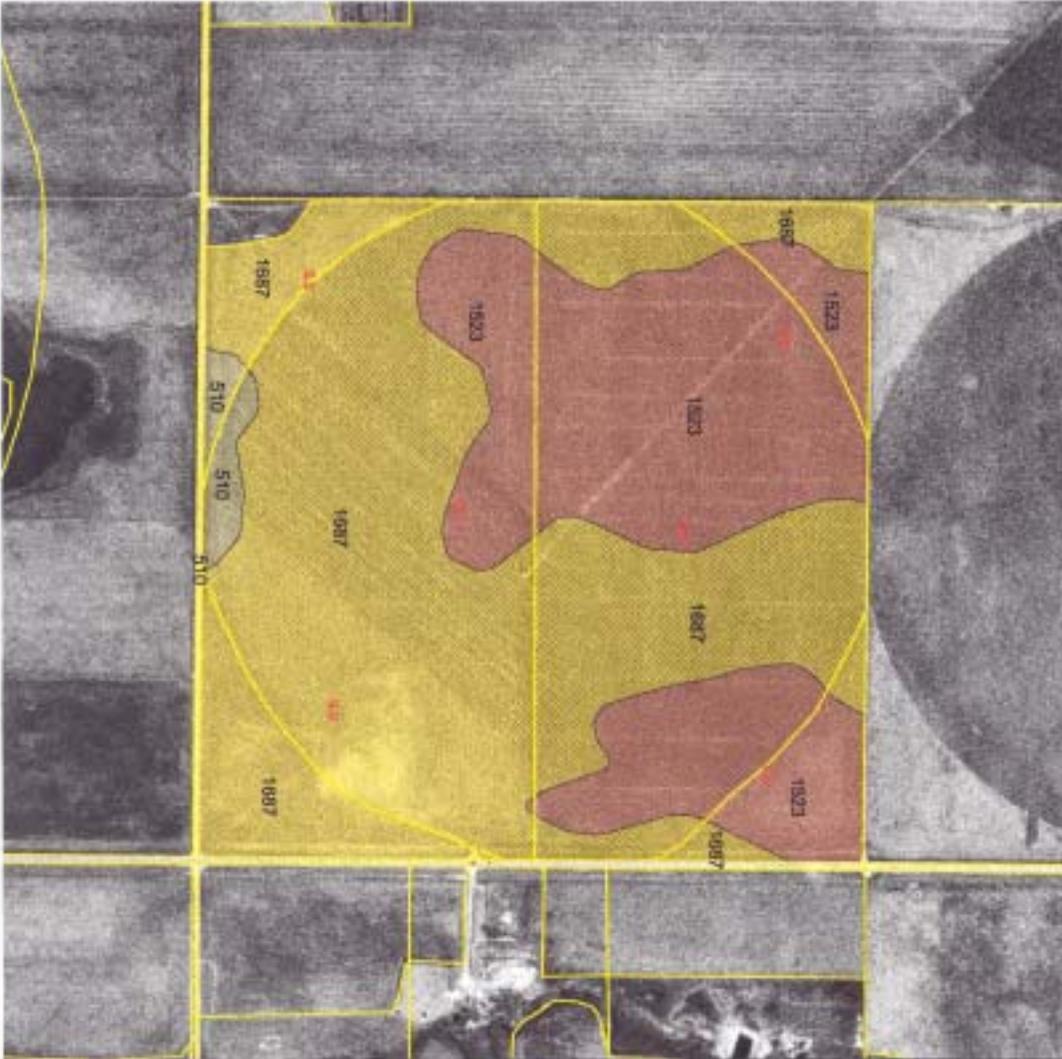
- “Field Measurement” feature that measures distances in feet.
- “Inclusions” feature that allows users to easily remove 1 or more inclusions from a selected or drawn area.
- “Vertex Editing” feature that allows users to modify the shape of a drawn or split field delineated area.

County Offices that did not receive training on these features should review their use in the Tool User Guide.

To support these late features all users of the Tool are required, when using the delineating an area for a scenario, after using the Select button along with the CLU layer, to enter “ALT-Left Click” using the keyboard and the mouse to process a scenario. Scenarios delineated with the split field tool button or the draw tool button do not require this function.

GIS Sample Layout Map

**CRP SCENARIO #1 ST/CNTY 38079, SOIL SURVEY AREA ID ND079
 FARM NO. 0 TRACT NO. 3110 HUC-8 09010004**



CLU/Field Number(s)	SOIL MUSYM CODE	SOIL ACREAGE	SOIL REN-TAL RATE
1			
3			
2			
4			
6			
5			

SOIL MUSYM CODE	SOIL ACREAGE	SOIL REN-TAL RATE
1687	96.1	\$22
1523	57.4	\$25
510	3.0	\$30

HIGH-3 156.5
 TOTAL 156.5

WEIGHTED AVG. SRR: \$23.25
MAINTENANCE RATE: \$ 5.00
MAX. PAYMENT RATE: \$28.25*

*Not applicable for Waterbank Program offers.

Avg. Water EI = 2
Avg. Wind EI = 13
Land Meets EI >= 8 Eligibility: YES*
Rainfall Factor (R) = 40
Climate Factor (C) = 55

*Offers with expiring CRP acreage require separate EI calculations for new land only.

PREPARED: 03/28/03 03:12 PM