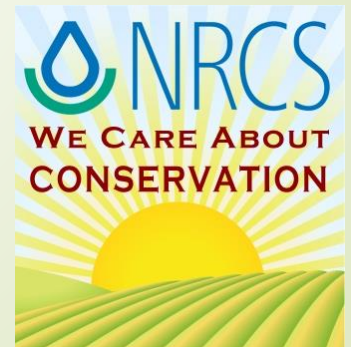


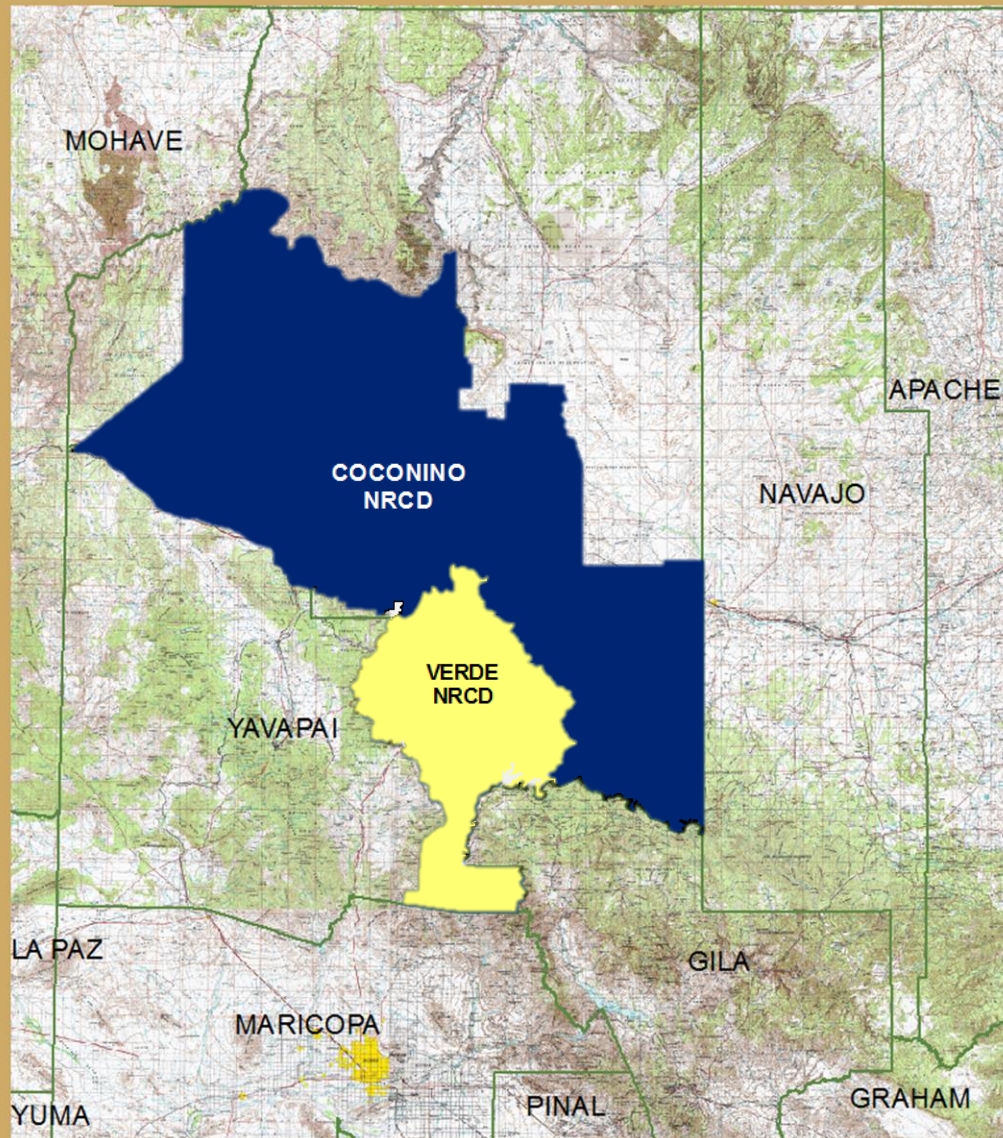
NRCS Conservation Programs

*VNRCD LWG
2/26/2016*

Shai A. Schendel
District Conservationist
Flagstaff Field Office

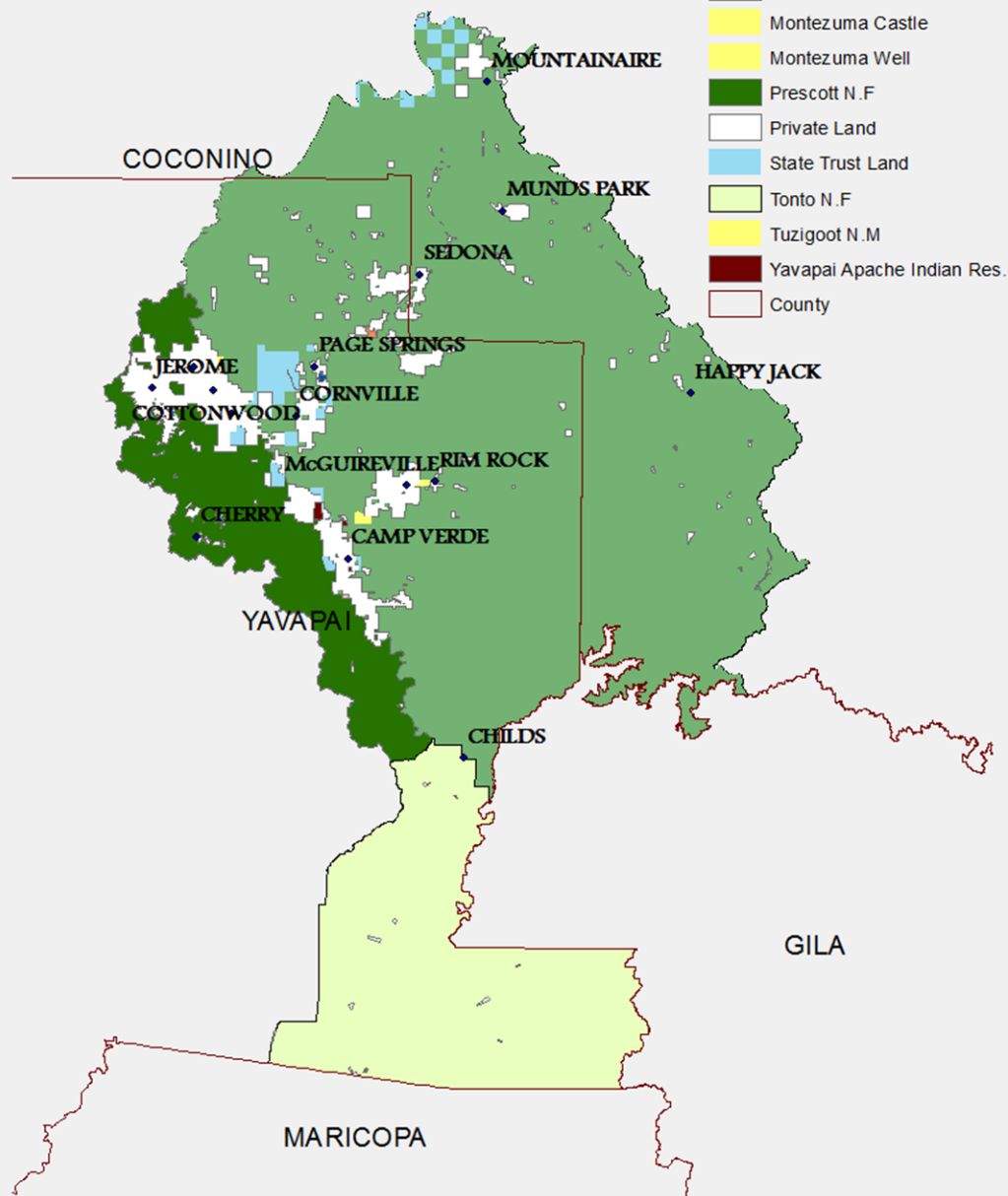


FLAGSTAFF FIELD OFFICE SERVICE AREA



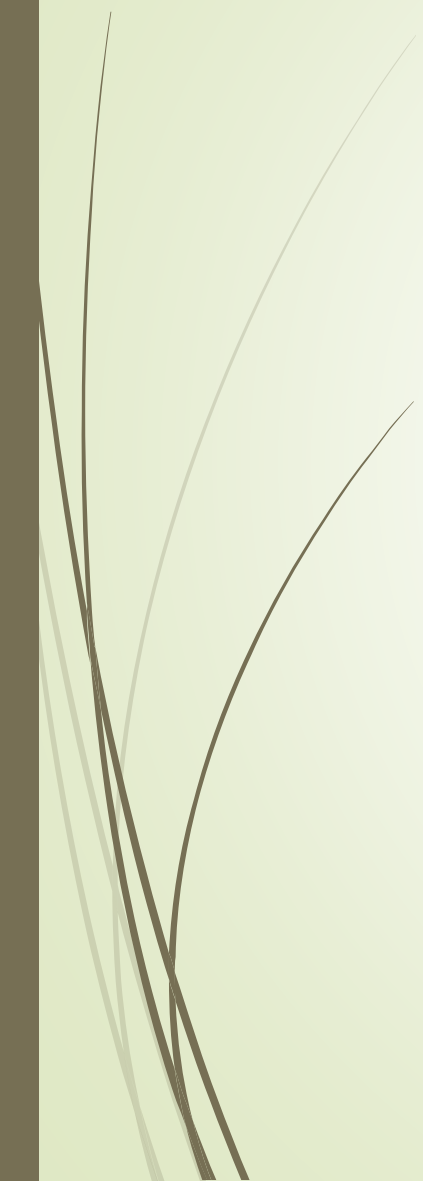
Ownership	Acres	Percentage
Coconino N.F	844,214	64.38%
Prescott N.F	121,613	9.27%
Private Land	88,743	6.77%
State Trust Land	16,839	1.28%
Tonto N.F	237,619	18.12%
Other	2,257	0.17%
Total Acres	1,311,285	

VNRCD Land Ownership



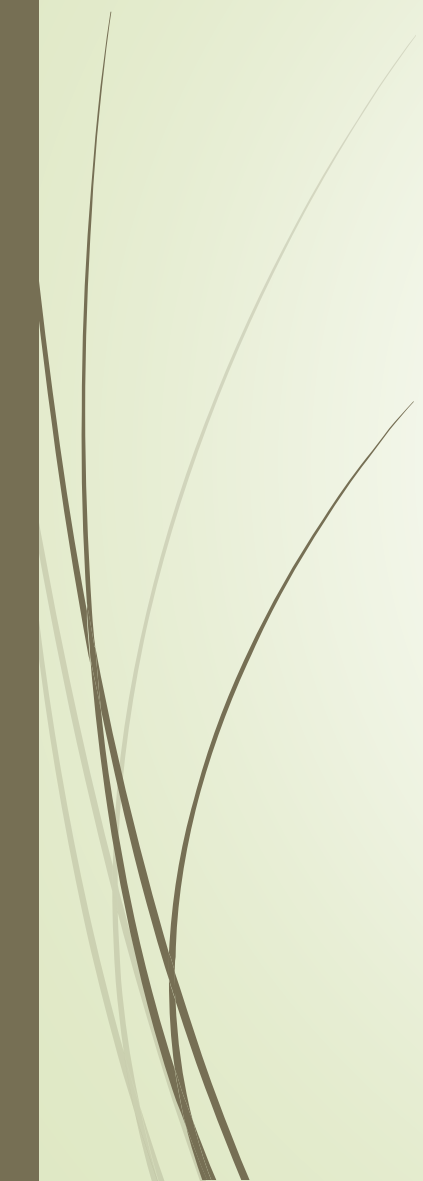


Natural Resources Conservation Service (NRCS)

- Originally established by Congress in 1935 as the Soil Conservation Service (SCS)
 - NRCS works with landowners through conservation planning and assistance designed to benefit the soil, water, air, plants, and animals that result in productive lands and healthy ecosystems.
- 



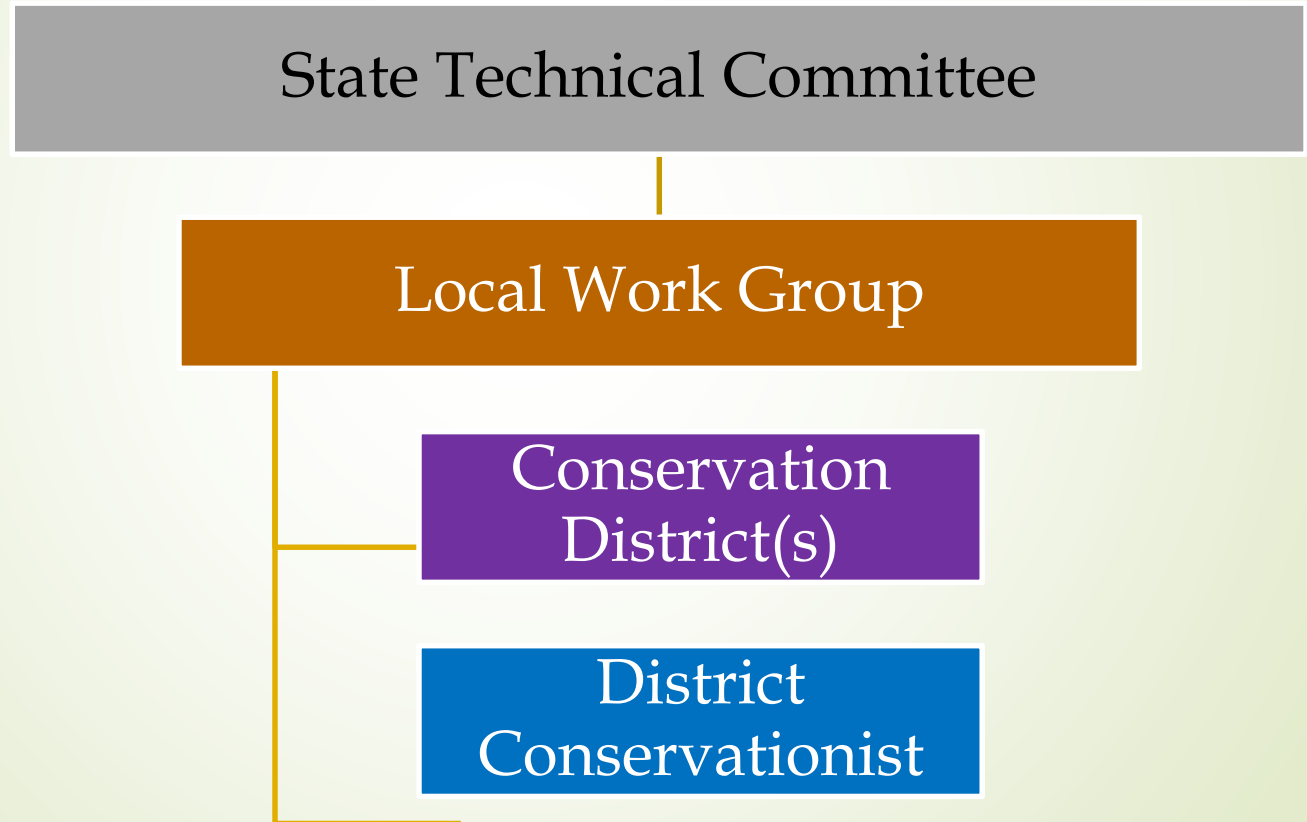
Local Work Groups



- Subcommittee of the State Technical Committee
- Provide recommendations to NRCS on local and state natural resource priorities and criteria for conservation activities and programs
- Utilize information from the LWG when ranking applications



Local work group recommendations will be submitted to State Technical Committee and the District Conservationist



```
graph TD; A[State Technical Committee] --- B[Local Work Group]; B --- C[Conservation District(s)]; B --- D[District Conservationist];
```

State Technical Committee

Local Work Group

Conservation
District(s)

District
Conservationist

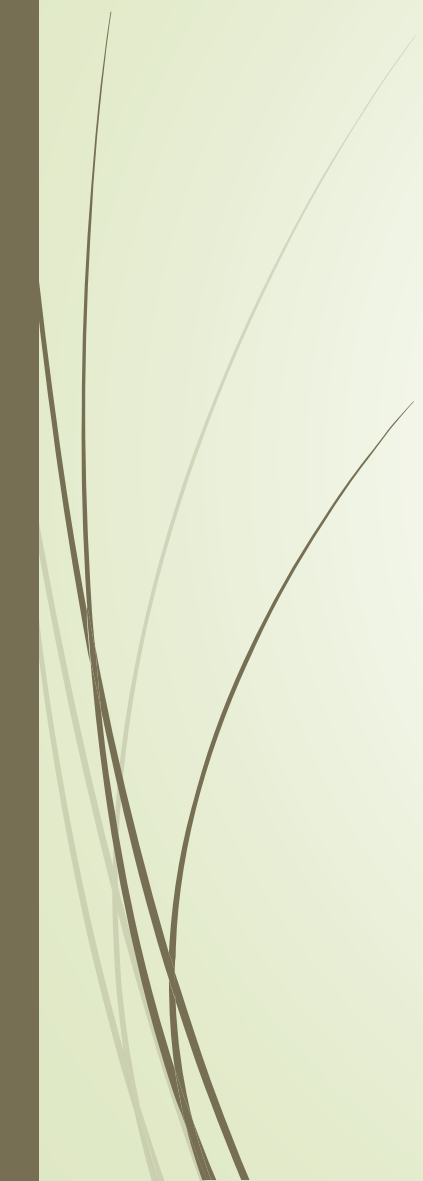
Funding Opportunities with the NRCS

- EQIP-Environmental Quality Incentives Program
- CSP-Conservation Stewardship Program
- RCPP- Regional Conservation Partnership Program
- ACEP- Agricultural Conservation Easement Program
- CIG-Conservation Innovation Grants



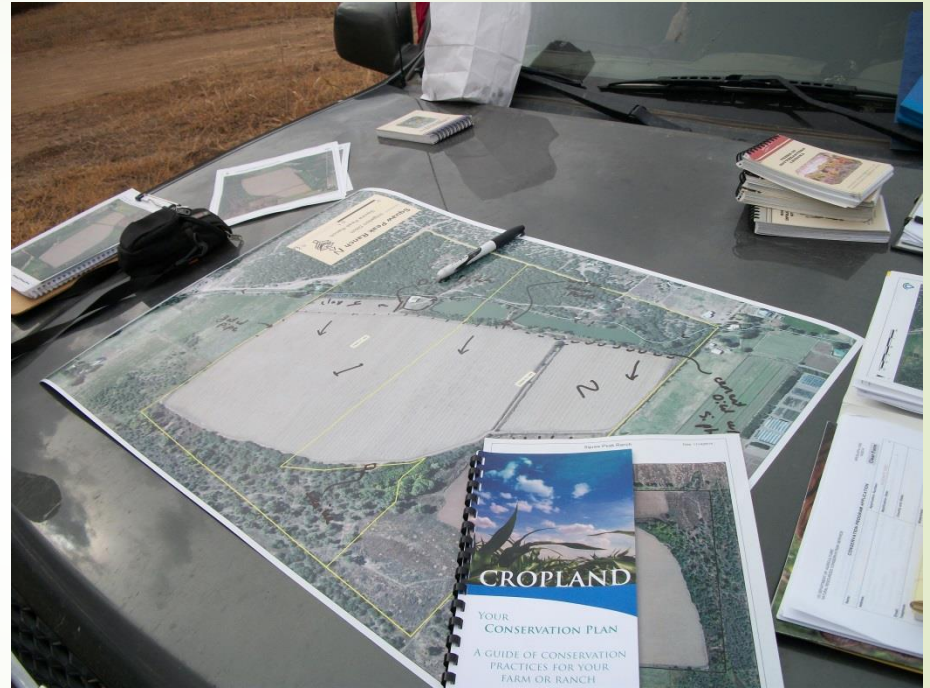


What is a Conservation Plan?

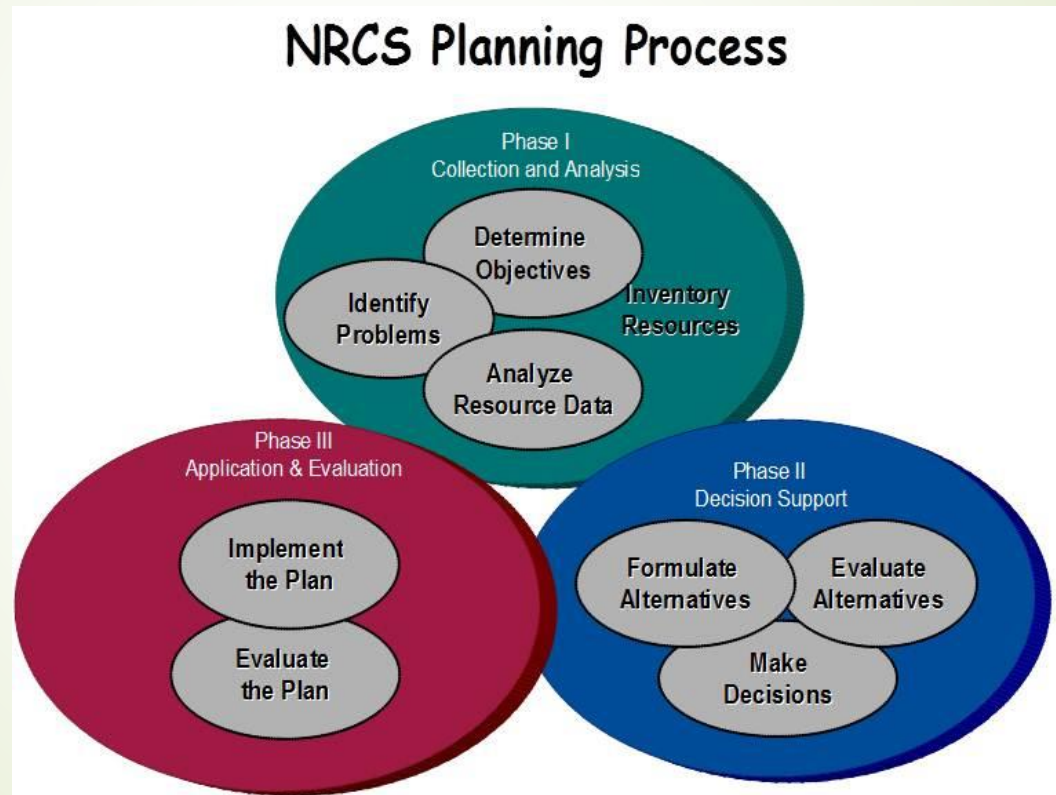
- Record of decisions and supporting information for treatment on a land unit
 - Identifies natural resource concerns
 - Describes the schedule of implementation for practices and activities needed to solve identified resource concerns
 - Takes advantage of opportunities available
 - Developed & implemented to protect, conserve &/or enhance natural resources within the client's social and economic interests & abilities.
- 

How Conservation Planning Works

- Consider the needs and capabilities of each acre within the plan
- Consider the client's facilities, machinery, and economic situation
- Incorporate the client's willingness to try new practices
- Consider the land's relationship to the entire farm, ranch, or watershed



NRCS Planning Process



Phase 1: Inventory

1. Identify Problems & Opportunities
2. Determine Objectives
3. Inventory Resources
4. Analyze Resource Data



Phase 2: Make Decisions

5. Formulate Alternatives
6. Evaluate Alternatives
7. Make Decisions



Phase 3: Implement the Plan

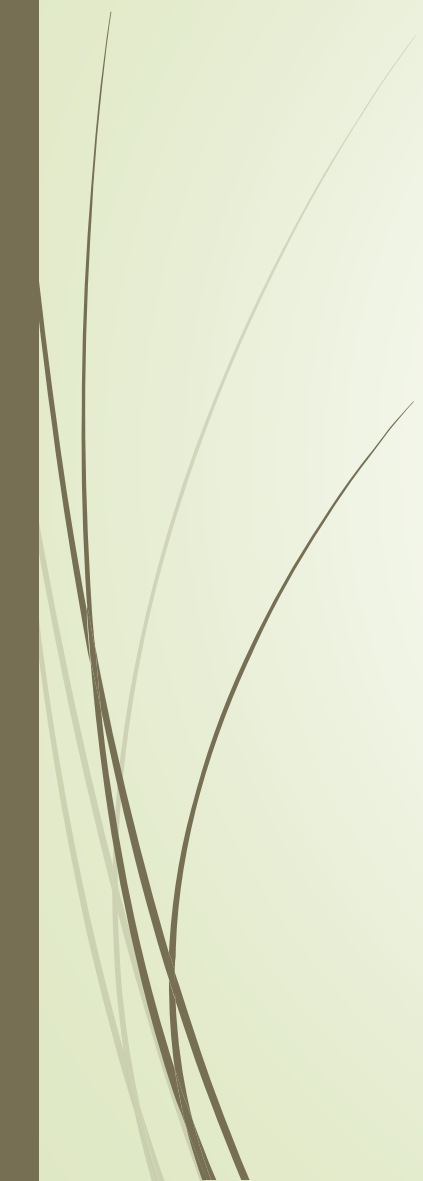
8. Implement Plan
9. Evaluate the Plan



- Apply for financial assistance programs
- Design conservation practices in the plan
- Monitor plan implementation



Inefficient Use of Irrigation Water

- Conservation Practices
 - Irrigation System, Micro-Irrigation
 - Irrigation System, Surface/Subsurface
 - Irrigation Water Management
 - Structure for Water Control
 - Cover Crop
 - Irrigation Pipeline
- 

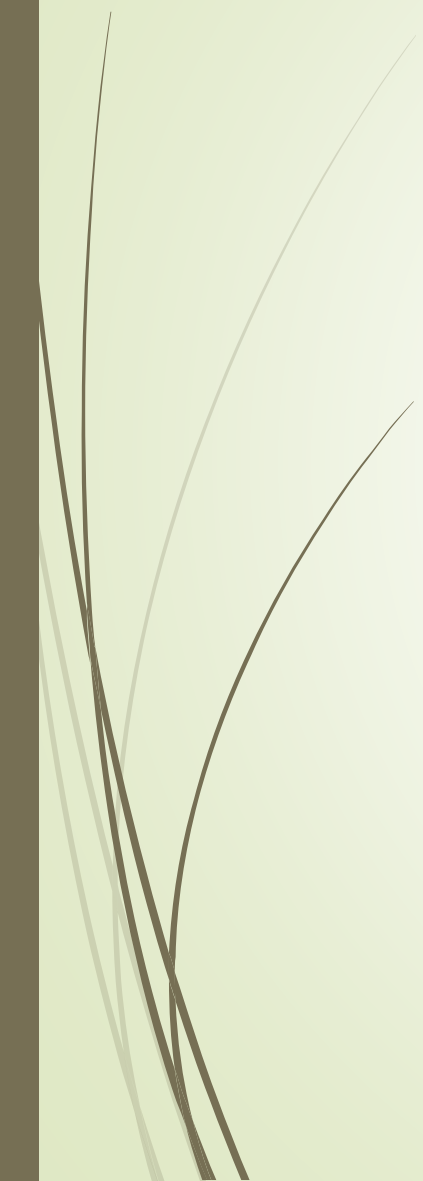


AZ Farm Bill Program Deadlines for FY 2016

Land Treatment Programs	Application Deadline
EQIP-Funding Cycle 3	April 1, 2016
EQIP-Funding Cycle 4	July 1, 2016
Land Stewardship Program	Application Deadline
CSP	March 31, 2016



Eligibility



- Evidence that you are an Ag. Producer
- Irrigation history (if applicable), 2 out of the last 5 years
- Register your land with Farm Service Agency (FSA)
- Proof of control of the land where the practice is being installed
 - Deed
 - Lease
- Proof of signature authority (shows you can enter into contact for an entity)

How to Apply



Interactive tools for Soil Information

◉ Internet

- Web Soil Survey

<http://websoilsurvey.nrcs.usda.gov/app/>

- Soil Web Application



- Plant Database

<http://plants.usda.gov/java/>

Plants Database

Welcome to the PLANTS Database | USDA PLANTS - Windows Internet Explorer

http://plants.usda.gov/java/

File Edit View Favorites Tools Help

Welcome to the PLANTS Database | USDA PLANTS

USDA United States Department of Agriculture
Natural Resources Conservation Service

PLANTS Database

Home About PLANTS Team Partners What's New NPDC Help Contact Us

You are here: Home/

The PLANTS Database provides standardized information about the vascular plants, mosses, liverworts, hornworts, and lichens of the U.S. and its territories.

Search
Name Search
sagebrush
Common Name Go
State Search
Advanced Search
Search Help

PLANTS Topics

- Alternative Crops
- Characteristics
- Classification
- Cover Crops
- Culturally Significant
- Distribution Update
- Fact Sheets & Plant Guides
- Invasive and Noxious Weeds
- Links
- Threatened & Endangered
- Wetland Indicator Status

Image Gallery

- 40,000+ Plant Images
- Submit Your Digital Images

Download

- Complete PLANTS Checklist
- State PLANTS Checklist
- Advanced Search Download
- Symbols for Unknown Plants
- NRCS State GSAT Lists
- NRCS State Plants Lists

Related Tools

- Crop Nutrient Tool

Plant of the Week

 Virginia spiderwort
Tradescantia virginiana L.
Click on the photo for a full plant profile.

Spotlights

Cover Crops
Cover crops are a diverse group of plants that can be used on farmland for soil protection and health. We now offer a sortable list, linking to profile pages, of over 70 species used for cover crops in North America.

Gymnosperms updated
Scientific names of all the gymnosperms in PLANTS are now updated to match the latest research. Oregon State University and the National Plant Data Team reviewed almost 700 names in this important group of plants.

PLANTS recommended as a GIS standard.
A recently published article has recommended using the PLANTS database as a standard to make GIS forestry databases more mutually compatible. **Clark, T. 2011. Standardizing species codes using the NRCS PLANTS database. The Forestry Source 16: 14--16.**

New state maps
We now provide larger, detailed maps for each of the 50 U.S. states, with county names indicated. Our standard state maps remain the same, but if you click on them a much more

I Want To...

- See a list of the plants in my state
- Learn about the wetland plants in my region
- Learn about all the endangered plants of the U.S.
- Learn about noxious and invasive plants
- Search for and view images of plants
- Read and print abstracts about important conservation plants
- Download data or posters
- Contribute plant distribution information to PLANTS
- Get ecological descriptions of sites from around the country

I Want Help

- Introduction to PLANTS
- Frequently Asked Questions
- Citing the PLANTS Database
- Conditions of Image and Data Use
- Contribute Your Photos to PLANTS

Local intranet 100%

Web Soil Survey

Web Soil Survey - Home - Windows Internet Explorer

http://websoilsurvey.nrcs.usda.gov/app/

File Edit View Favorites Tools Help

Web Soil Survey - Home

USDA United States Department of Agriculture Natural Resources Conservation Service

Web Soil Survey

Home About Soils Help Contact Us

You are here: Web Soil Survey Home

Search

Enter Keywords

All NRCS Sites

Browse by Subject

- Soils Home
- National Cooperative Soil Survey (NCSS)
- Archived Soil Surveys
- Status Maps
- Official Soil Series Descriptions (OSD)
- Soil Series Extent Mapping Tool
- Soil Data Mart
- Geospatial Data Gateway
- eFOTG
- National Soil Characterization Data
- Soil Geochemistry Spatial Database
- Soil Quality
- Soil Geography
- Geospatial One Stop

The simple yet powerful way to access and use soil data.

START WSS

Welcome to Web Soil Survey (WSS)

Web Soil Survey (WSS) provides soil data and information produced by the National Cooperative Soil Survey. It is operated by the USDA Natural Resources Conservation Service (NRCS) and provides access to the largest natural resource information system in the world. NRCS has soil maps and data available online for more than 95 percent of the nation's counties and anticipates having 100 percent in the near future. The site is updated and maintained online as the single authoritative source of soil survey information.

Four Basic Steps

- 1 Define...**

Area of Interest (AOI) Use the Area of Interest tab to define your area of interest.



Click to view larger image.
- 2 View...**

Soil Map Click the Soil Map tab to view or print a soil map, and detailed descriptions of the soils in your Area of Interest.



I Want To...

- Start Web Soil Survey (WSS)
- Know the requirements for running Web Soil Survey - will Web Soil Survey work in my web browser?
- Know the Web Soil Survey hours of operation
- Find what areas of the U.S. have soil data

Announcements/Events

- Web Soil Survey 2.3 has been released! View description of new features.
- Web Soil Survey Release History

I Want Help With...

- How to use Web Soil Survey
- How to use Web Soil Survey Online Help
- Known Problems and Workarounds
- Frequently Asked Questions
- Citing Web Soil Survey as a source of soils data



Web Soil Survey Area of Interest

- Define the Area of Interest

Area of Interest (AOI)

Soil Map

Soil Data Explorer

Shopping Cart (Free)

Search

Area of Interest

Import AOI

Quick Navigation

Address

State and County

Soil Survey Area

Latitude and Longitude

PLSS (Section, Township, Range)

Bureau of Land Management

Department of Defense

Forest Service

National Park Service

Hydrologic Unit

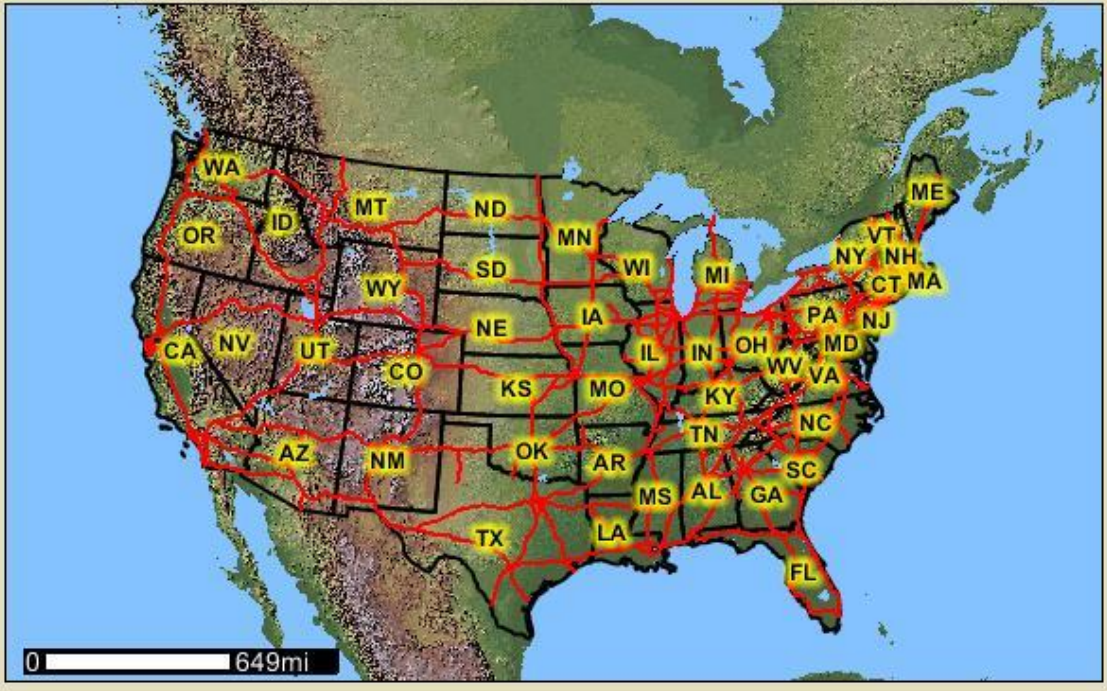
Area of Interest Interactive Map

View Extent

Contiguous U.S.

Scale

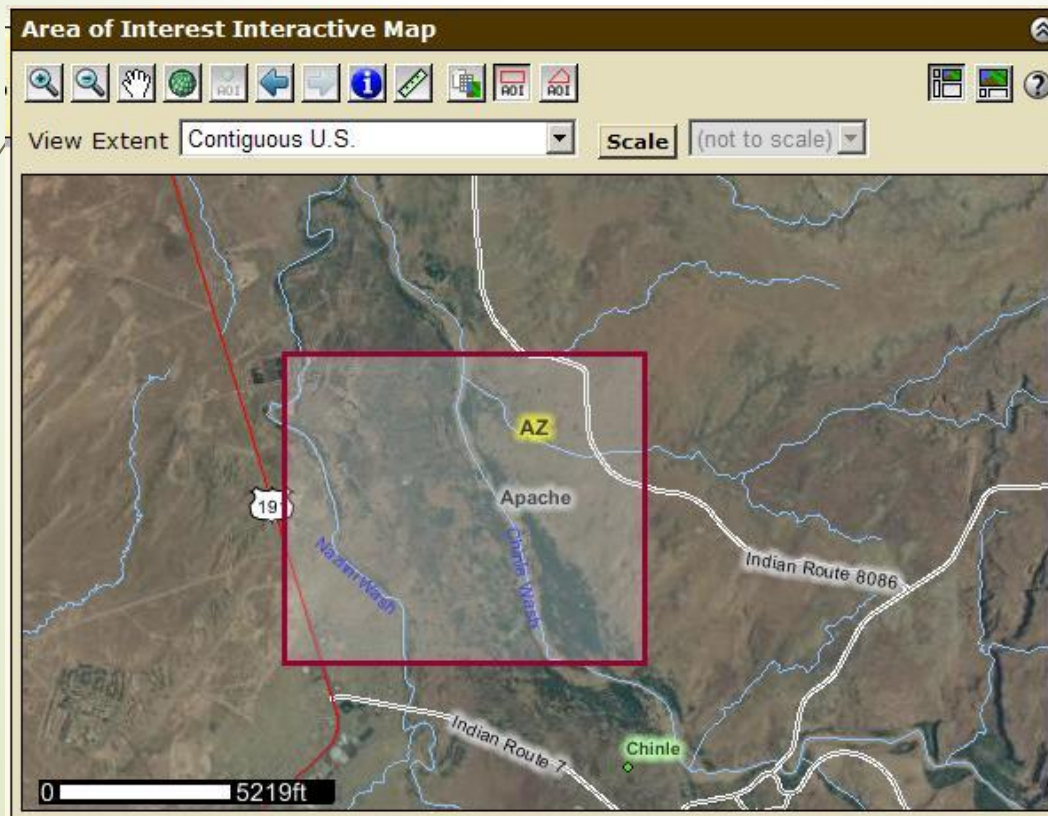
(not to scale)



0 649mi

Web Soil Survey Area of Interest

- Select the general area
- Zoom into specific area desired
- Use AOI tool to define specific area of interest



Web Soil Survey Soil Map

Area of Interest (AOI)

Soil Map

Soil Data Explorer

Shopping Cart (Free)

[Printable Version](#)

[Add to Shopping Cart](#)

Search

Map Unit Legend

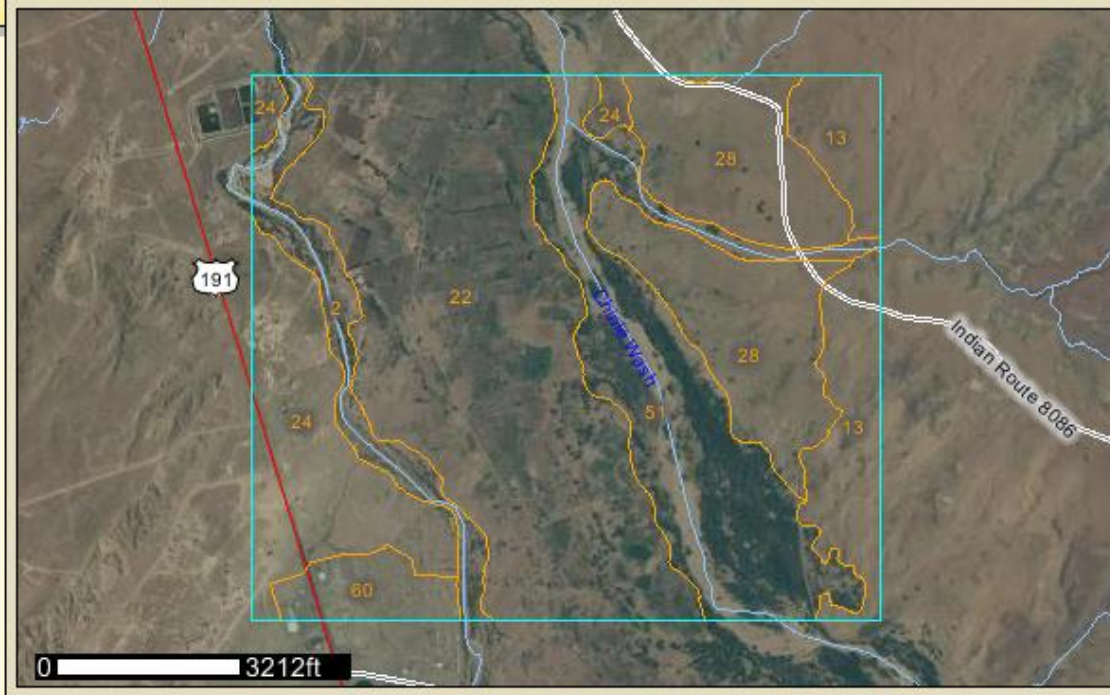
Chinle Area, Parts of Apache and Navajo Counties, Arizona, and San Juan County, New Mexico (AZ713)

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
2	Aneth-Naha-Sheppard family complex, 0 to 2 percent slopes	125.2	5.3%
13	Claysprings-Lithic Torriorthents-Typic Torriorthents complex, badlands, 1 to 60 percent slopes	211.7	9.0%
22	Jocity-Nazlini complex, sodic, 0 to 4 percent slopes	838.8	35.7%
24	Jocity-Tezinie-Nazlini complex, sodic, 0 to 5 percent slopes	279.7	11.9%
28	Marcou-Claysprings	406.3	17.3%

Soil Map



Scale (not to scale)



Explore the Soil Information

The screenshot shows a GIS application window. The map area displays a topographic view of the Ganado region. A red line, likely representing a proposed or specific route, is overlaid on the terrain. Key features include:

- Map Elements:** Topographic contours (yellow/orange lines), roads (black lines), and a prominent red line. A label 'Ganado' is placed near a cluster of buildings.
- Scale:** A scale bar at the bottom left indicates a distance of 0 to 3673 feet.
- Interface:** A toolbar at the top contains various GIS tools (e.g., pan, zoom, measure). A legend at the top right shows symbols for different data layers. A status bar at the bottom right displays the text 'Scale (not to scale)'.
- Labels:** 'Indian Rte 27' is labeled on a road to the right, and '191' is labeled on a road to the left.

Web Soil Survey Soil Information

Explore the Soil Information

Area of Interest (AOI)

Soil Map

Soil Data Explorer

Shopping Cart (Free)

View Soil Information By Use:

[Printable Version](#)

[Add to Shopping Cart](#)

Intro to
Soils

Suitabilities and
Limitations for Use

Soil Properties and
Qualities

Ecological Site
Assessment

**Soil
Reports**

Search

Soil Reports

[Open All](#)

[Close All](#)

AOI Inventory

Building Site Development

Construction Materials

Disaster Recovery Planning

Land Classifications

Land Management

Recreational Development

Sanitary Facilities

Soil Chemical Properties

Soil Erosion

Soil Physical Properties

Soil Qualities and Features

Vegetative Productivity

Waste Management

Water Features

Water Management

Soil Map



Scale (not to scale)



Web Soil Survey Custom Report

Create a custom soil report for the AOI

Area of Interest (AOI)

Soil Map

Soil Data Explorer

Shopping Cart (Free)

Check Out



Search



Report Properties



Title

Title Custom Soil Resource Report for Fort Defiance Area, Parts of Apache and Navajo Counties, Arizona and McKinley and San Juan Counties, New Mexico

Subtitle

☐ Area of Interest Name: (none defined)

☒ Custom Subtitle:

☐ None

Size

Total Size 1,030 KB (1.0 MB)

Map Options

Map Scale

Printed Sheet Size

Show UTM Coordinate Ticks ☒

Web Soil Survey Custom Report



A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

Custom Soil Resource Report for Fort Defiance Area, Parts of Apache and Navajo Counties, Arizona and McKinley and San Juan Counties, New Mexico Ganado



February 8, 2012

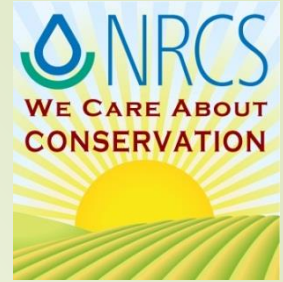
Custom Soil Resource Report

Absence of an entry indicates that the data were not estimated. The asterisk "*" denotes the representative texture; other possible textures follow the dash.

Engineering Properties— Fort Defiance Area, Parts of Apache and Navajo Counties, Arizona and McKinley and San Juan Counties, New Mexico												
Map unit symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number—				Liquid limit	Plasticity Index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				Pct	Pct					Pct	
2—Aquima-Hawekuh silt loams, 1 to 5 percent slopes												
Aquima	0-3	*Silt loam	SC-SM	A-4	0	0	100	100	86-96	68-78	20-30	4-7
	3-8	*Silt loam	CL-ML	A-4	0	0	100	100	89-100	73-85	25-30	4-7
	8-20	*Silt loam	CL-ML	A-4	0	0	100	100	89-100	73-85	25-30	4-7
	20-48	*Silt loam	CL-ML	A-4	0	0	100	100	86-98	74-88	25-30	4-7
	48-52	*Loam	CL	A-6	0	0	100	100	83-100	58-75	25-40	10-25
	52-70	*Silt loam	CL-ML	A-4	0	0	100	100	89-100	73-85	25-30	4-7
Hawekuh	0-2	*Silt loam	CL-ML	A-4	0	0	100	100	89-100	73-85	25-30	4-7
	2-11	*Silty clay	CL	A-7	0	0	100	100	94-100	40-50	15-25	
	11-20	*Clay loam	CL	A-6, A-7	0	0	100	100	89-100	70-82	35-50	15-25
	20-25	*Clay loam	CL	A-6, A-7	0	0	100	100	89-100	70-82	35-50	15-25
	25-50	*Silty clay loam	CL	A-6	0	0	100	100	97-100	87-94	35-45	15-25
	50-70	*Silty clay	CL	A-7	0	0	100	100	94-100	95-100	40-50	15-25

Map Unit Legend

Fort Defiance Area, Parts of Apache and Navajo Counties, Arizona and McKinley and San Juan Counties, New Mexico (AZ716)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
2	Aquima-Hawekuh silt loams, 1 to 5 percent slopes	1,025.2	41.5%
15	Betonnite-Pinevetas family complex, 3 to 10 percent slopes	7.3	0.3%
74	Parkdale family, 1 to 8 percent slopes	240.4	9.7%
84	Pinevetas family-Begay complex, 10 to 80 percent slopes	701.4	28.4%
88	Plumasano-Parkdale family complex, 1 to 15 percent slopes	0.6	0.0%
99	Rizno-Tekapo family-Rock outcrop complex, 2 to 45 percent slopes	318.9	12.9%
104	San Mateo-Wenote-Radnik complex, 0 to 5 percent slopes	98.7	3.9%
122	Trail-Riverwash association, 0 to 1 percent slopes	78.4	3.2%
Totals for Area of Interest		2,468.8	100.0%



Questions?

928-774-2401 ext. 111

shai.schendel@az.usda.gov

www.az.nrcs.usda.gov

