

Assessment Tools and Mitigation Methods for Contaminant Losses to Wetlands – An NRCS Perspective

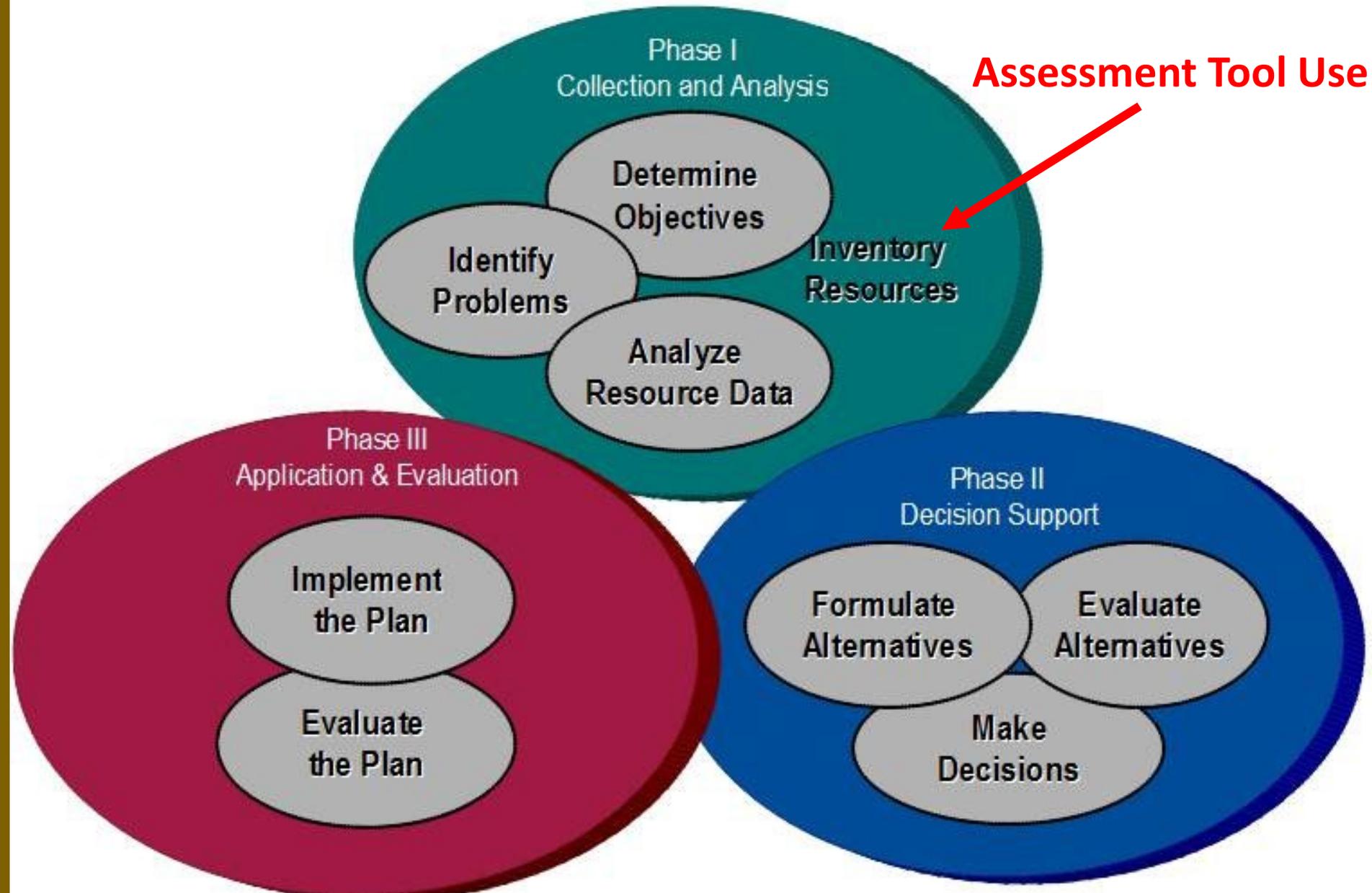


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Central National Technology Support Center – Ft. Worth, Texas

The Nine-Step Conservation Planning Process



NRCS Assessment Tools

Offsite Movement of Sediment, Pesticides, and Nutrients

- Conservation Assessment and Ranking Tool (**CART**)
- Stewardship Tool for Environmental Performance (**STEP**)
- Web Soil Survey
- Windows Pesticide Screening Tool (**WIN-PST**)
- Revised Universal Soil Loss Equation (**RUSLE2**)
- Water Erosion Prediction Program (**WEPP**)
- Wind Erosion Prediction System (**WEPS**)

NRCS Assessment Tools

Conservation Assessment and Ranking Tool (CART)



United States Department of Agriculture
Natural Resources Conservation Service

CART Version 2.0

Resource Concern Assessment

October 1, 2020

Document Version 2.1

NRCS Assessment Tools

CART

Assessment Summary: CSP 2020**

Assessment Date: 07-22-2020

Case Name:

Schedule Status:

Archived By:

Assessment Status:

Planner Name:

Archived Date:

Client Name:

Schedule Name:

Assessment Dashboard (archived)

Status for survey sections are shown below for each Tract/Land Unit

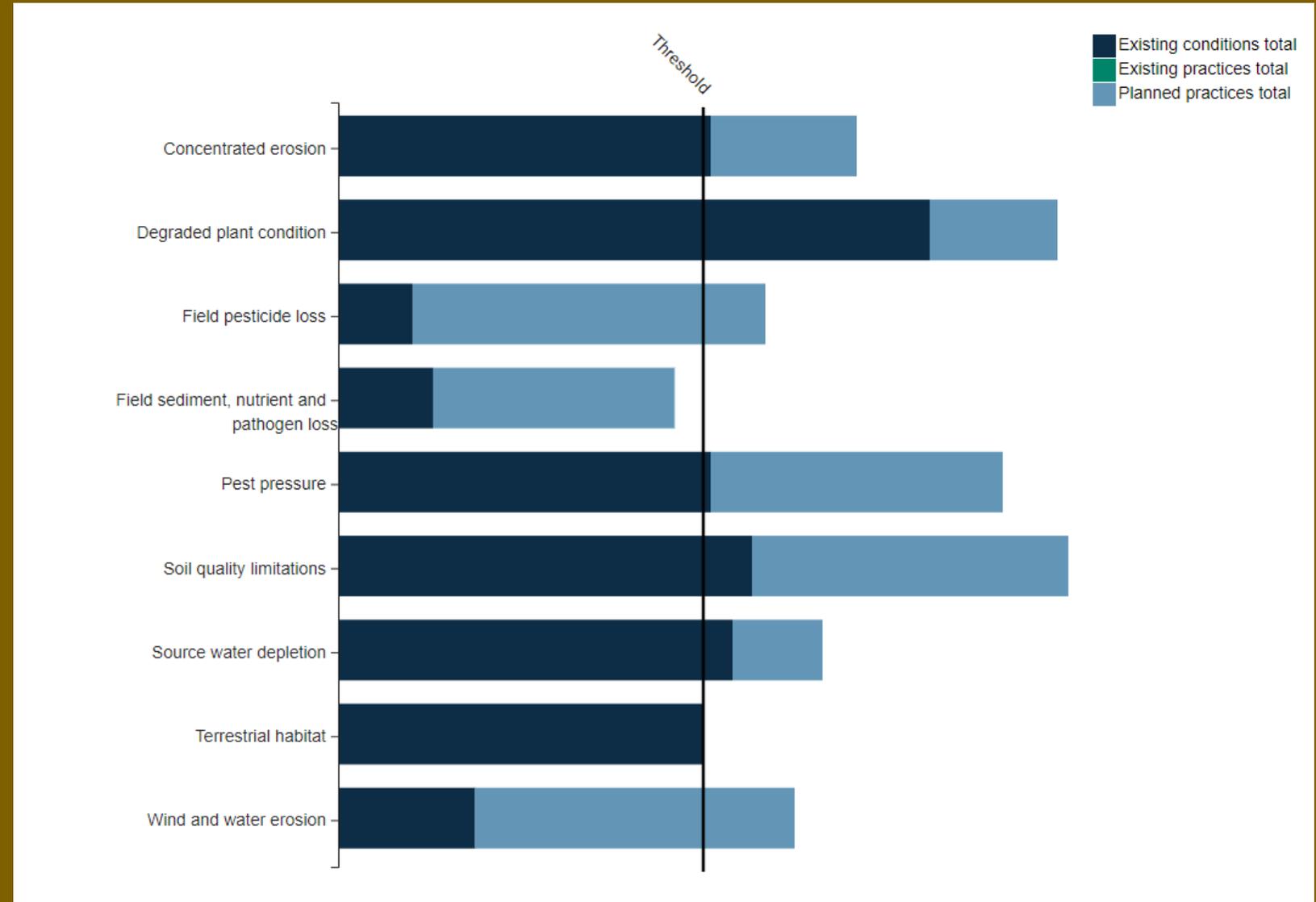
ACTION

Assessed Tract / Land Unit	Land Use	PLU Modifiers	Acres	Resource Concerns	Resource Inventory	Existing Practices	Planned Practices	Overall Status	Results
Land Unit 1	--	--	--	Complete	Complete	Complete	Complete	Complete	Not Met
Land Unit 2	Pasture	Grazed/ Water Feature	73.2	Complete	Complete	Complete	Complete	Complete	Not Met
Land Unit 3	Pasture	Grazed/ Water Feature	131.4	Complete	Complete	Complete	Complete	Complete	Not Met
Land Unit 4	Associated Ag Land	--	20.9	Complete	Complete	Complete	Complete	Complete	Not Met
Land Unit 5	Pasture	Grazed/ Water Feature	6.8	Complete	Complete	Complete	Complete	Complete	Not Met
	Pasture	Grazed	3.6	Complete	Complete	Complete	Complete	Complete	Not Met

NRCS Assessment Tools

CART

CART assists planners to analyze resource data captured in the inventory and compare against the threshold to determine if planning criteria is met. Planner override is allowed.



NRCS Assessment Tools

CART

Category	Resource Concerns	Components	Existing Conditions	Existing Practices	Existing Total	Existing Total Override	Planned Practices	Planned Total	Planned Total Override	Threshold	Actions
Concentrated erosion	Bank erosion from streams, shorelines or water conveyance channels	Bank erosion from streams, shorelines or water conveyance channels	0	0	0	---	0	0	---	50	⋮
	Classic gully erosion	Classic gully erosion	51	0	51	---	0	51	---	50	⋮
	Ephemeral gully erosion	Ephemeral gully erosion	51	0	51	---	0	51	---	50	⋮
Degraded plant condition	Plant productivity and health	Plant productivity and health	40	0	40	---	0	40	---	50	⋮
	Plant structure and composition	Plant structure and composition	102	0	102	---	0	102	---	50	⋮
Field pesticide loss	Pesticides transported to groundwater	Nonpoint pesticide leaching loss	50	0	50	---	30	80	---	60	⋮
	Pesticides transported to surface water	Nonpoint pesticide drift to surface water	71	0	71	---	50	121	---	50	⋮
	Pesticides transported to surface water	Nonpoint pesticide surface loss	55	0	55	---	35	90	---	30	⋮
	Nutrients transported to groundwater	Nonpoint nitrogen leaching loss	2	0	2	---	0	2	---	45	⋮

NRCS Assessment Tools

Stewardship Tool for Environmental Performance (STEP)

 RESOURCE STEWARDSHIP A CDSI Solution 

MENU Session Expires in 20 Minutes Welcome, CHRISTOPHER COREIL

Search Inventory

Client: JOHN EARL FONTENOT JR Land Unit: 2572/1 Evaluation Type: Benchmark

PLU Inventory

Online Help: Go to [Crop Inventory Help](#)

Note: All fields are required unless otherwise noted.

Desired Stewardship Level:

What is the maximum irrigation per year in.

Is the field artificially drained

Has gully erosion been controlled to the Field Office Technical Guide specification:

Bank Condition (streams, shorelines, or water conveyance channels):

Hydrologic Unit Codes

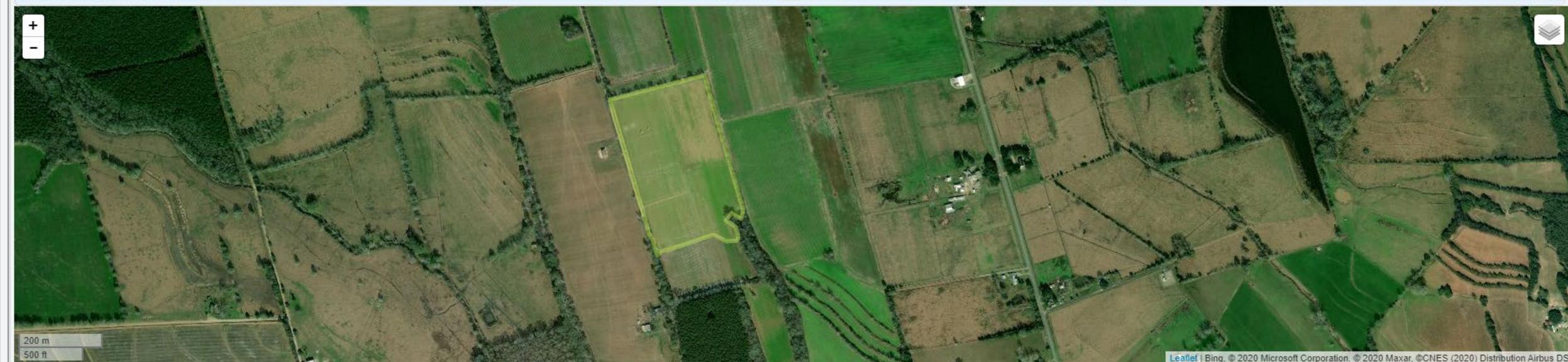
HUC	Region	Sub Region	Basin	Sub Basin	Watershed	Sub Watershed
080801020602	Lower Mississippi Region	Louisiana Coastal	Atchafalaya-Vermillion	Bayou Teche	Bayou Cocodrie-Bayou Teche	Bayou Petite Passe

NRCS Assessment Tools

Stewardship Tool for Environmental Performance (STEP)

Id		Eval?	Land Unit Name	County, State	Tract	Land Use
2490918		N	671/ 5	St. Landry, LA	671	Pasture
2588951		N	671/ 3	St. Landry, LA	671	Pasture
7168594		Y	2572/ 1	Evangeline, LA	2572	Crop
11611120		N	671/ 21	St. Landry, LA	671	Developed Land
11611165		N	671/ 19	St. Landry, LA	671	Pasture
11611166		N	671/ 20	St. Landry, LA	671	Associated Ag Land

Clear Selection Page 1 of 1 Found: 6



NRCS Assessment Tools - STEP

Client: JOHN EARL FONTENOT JR Land Unit: 2572/1 Evaluation Type: Benchmark

Crop Rotation Details

Online Help: Go to [Crop Rotation Help](#)

Note: All fields are required unless otherwise noted.

Number of years in rotation: years

Phosphorus Soil Test:

Are any crops grazed in this rotation:

1. Soybeans bu/ac +

Crop Details

Crop Name (if fallow, type of fallow):

Crop Yield ⓘ: bu/ac

Tillage Type:

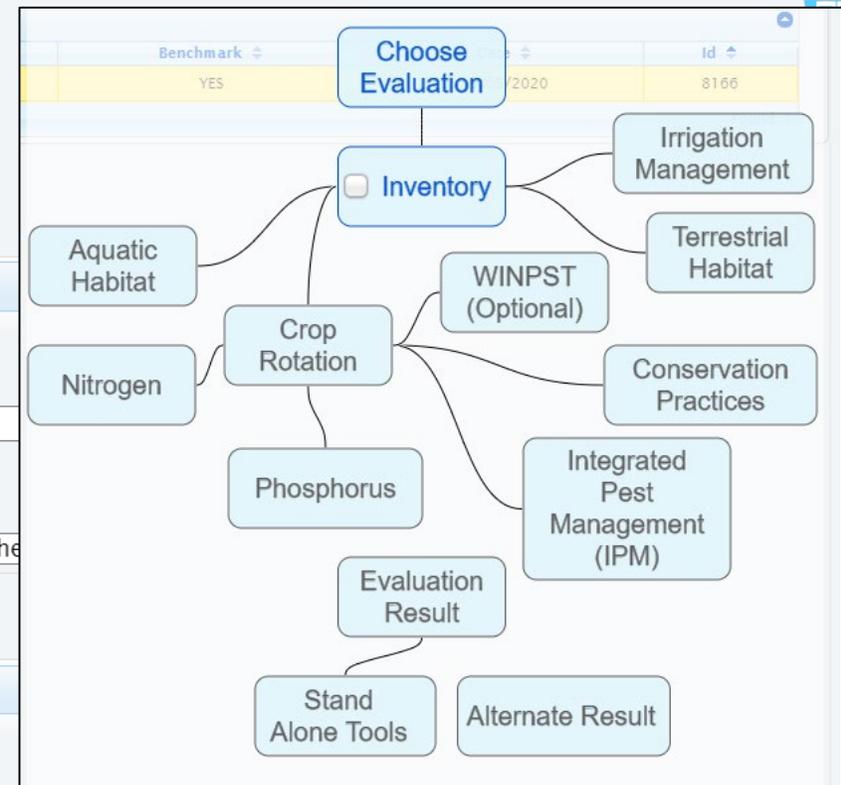
Cover type following this crop:

Save

1. Soybeans bu/ac

Management Points

Name	Points
Individual Residue - Water Erosion	30
Individual Residue - Wind Erosion	30

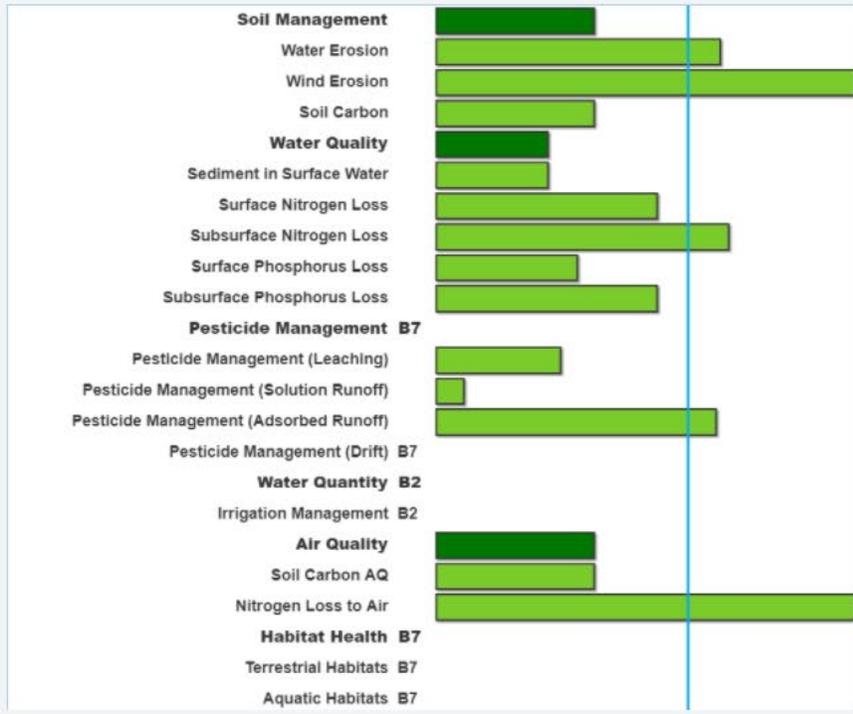


NRCS Assessment Tools - STEP

[Search](#) [Inventory](#) [Aquatic Habitat](#) [Terrestrial Habitat](#) [Crop Rotation](#) [WINPST](#) [Conservation Practices](#) [Nitrogen](#) [Phosphorus](#) [IPM](#) [Evaluation Result](#)



Cropland Stewardship Achievement



NRCS Assessment Tools - Web Soil Survey



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

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.

I Want To...

- [Start Web Soil Survey \(WSS\)](#)
- [Know Web Soil Survey Requirements](#)
- [Know Web Soil Survey operation hours](#)
- [Find what areas of the U.S. have soil data](#)
- [Find information by topic](#)
- [Know how to hyperlink from other documents to Web Soil Survey](#)
- [Know the SSURGO data structure](#)

Search

Enter Keyword

All NRCS Sites

Browse by Subject

- [Soils Home](#)
- [National Cooperative Soil Survey \(NCSS\)](#)
- [Archived Soil Surveys](#)
- [Status Maps](#)
- [Official Soil Series Descriptions \(OSD\)](#)
- [Series Extent Explorer](#)

NRCS Assessment Tools - Web Soil Survey

Search

Map Unit Legend

Garfield County Area, Washington (WA623)
Garfield County Area, Washington (WA623)

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
AID	Asotin silt loam, 7 to 25 percent slopes	4.9	0.9%
LcF	Licksillet extremely stony silt loam, 10 to 50 percent slopes	10.2	1.9%
OIB	Oliphant silt loam, 0 to 5 percent slopes	35.1	6.5%
OID	Oliphant silt loam, 5 to 25 percent slopes	17.8	3.3%
OIE	Oliphant silt loam, 25 to 40 percent slopes	13.3	2.5%
OnB	Oliphant silt loam, moderately shallow, 0 to 5 percent slopes	37.8	7.0%
OnD	Oliphant silt loam, moderately shallow, 5 to 25 percent slopes	23.7	4.4%
OpE2	Oliphant-Lance silt loam, 10 to 25 percent slopes	73.0	13.5%

Soil Map



NRCS Assessment Tools – Web Soil Survey

Intro to Soils | **Suitabilities and Limitations for Use** | Soil Properties and Qualities | Soil Reports

Search

Suitabilities and Limitations Ratings

Open All | Close All

- Building Site Development
- Construction Materials
- Disaster Recovery Planning
- Land Classifications
- Land Management**
- Chaining Suitability
- Compaction Potential (WA)
- Construction Limitations for Haul Roads and Log Landings
- Displacement Potential (WA)
- Erosion Hazard (Off-Road, Off-Trail)
- Erosion Hazard (Road, Trail)
- Fencing
- Fencing, Post Depth 24 Inches or Less
- Fencing, Post Depth 36 Inches or Less
- Fire Damage Susceptibility
- Fugitive Dust Resistance
- Ground Penetrating Radar Penetration
- Harvest Equipment Operability
- Hops Site Suitability (WA)
- Mechanical Site Preparation (Deep)
- Mechanical Site Preparation (Surface)
- Mechanical Treatment, Rolling Drum
- Mechanical Treatment, Shredder
- Medusahead Invasion Susceptibility
- Nitrate Leaching Potential, Irrigated
- Nitrate Leaching Potential, Nonirrigated**

View Description | View Rating

View Options

- Map
- Table
- Component Breakdown and Rating Reasons
- Numeric Values

Description of Rating

Map — Nitrate Leaching Potential, Nonirrigated

Scale (not to scale)

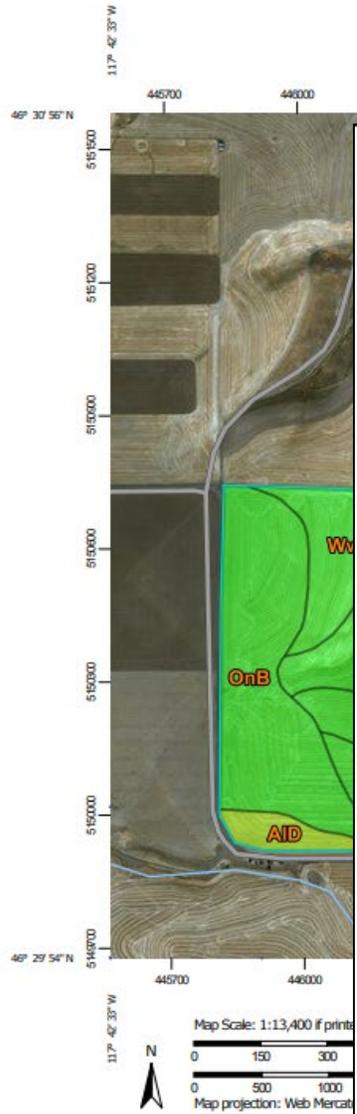
Kuhl Ridge Rd

New Year Garden Rd

Vannatton Grade Rd

Freeburn Rd

Nitrate Leaching Potential, Nonirrigated—Garfield County Area, Washington (Demo Site)



USDA Natural Resources Conservation Service

USDA Natural Resources Conservation Service

MAP LEGEND

- Area of Interest (AOI)**
 - Area of Interest (AOI)
- Soils**
 - Soil Rating Polygons**
 - High
 - Moderately high
 - Moderate
 - Low
 - Not rated or not available
 - Soil Rating Lines**
 - High
 - Moderately high
 - Moderate
 - Low
 - Not rated or not available
 - Soil Rating Points**
 - High
 - Moderately high
 - Moderate
 - Low
 - Not rated or not available
- Water Features**
 - Streams and Canals
- Transportation**
 - Rails
 - Interstate Highways
- Background**
 - Aerial Photography
- Roads**
 - US Routes
 - Major Roads
 - Local Roads

Nitrate Leaching Potential, Nonirrigated—Garfield County Area, Washington

Demo Site

Nitrate Leaching Potential, Nonirrigated

Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI
AID	Asotin silt loam, 7 to 25 percent slopes	Moderate	Asotin (80%)	Water travel time (1.00)	4.9	0.9%
				Water holding capacity (0.90)		
				Slope (0.05)		
				Water quantity available for leaching (0.01)		
LcF	Licksillet extremely stony silt loam, 10 to 50 percent slopes	Low	Licksillet (100%)	Water travel time (1.00)	10.2	1.9%
				Water holding capacity (0.93)		
				Slope (0.20)		
				Water quantity available for leaching (0.05)		
OIB	Oliphant silt loam, 0 to 5 percent slopes	Low	Oliphant (100%)	Water travel time (0.82)	35.1	6.5%
				Water quantity available for leaching (0.03)		
OID	Oliphant silt loam, 5 to 25 percent slopes	Low	Oliphant (80%)	Water travel time (0.82)	17.8	3.3%
				Water quantity available for leaching (0.03)		
				Slope (0.03)		

Web Soil Survey
National Cooperative

NRCS Assessment Tools

Windows Pesticide Screening Tool (WIN-PST)

Windows Pesticide Screening Tool - WIN-PST 3.1 - [Select Soils and Pesticides]

Open New Tools Window Help

Soils Als Products Scenarios Interactions

Survey Area: Clark County, Wisconsin: WI019 Ratings Properties Management

	MUSYM	PCT_COMP	COMP_NAM	TEXTURE	HYDRO	USER_OM	USER_DEP	KFACT	SLOPEGR1	CRACKSGR	HWT_LT_24	SLP	SSRP	SARP	H1_DEPTH	OM_H	OM_L
▶	AbcA	90	Absco	LS	A	0.75	4	0.05	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	HIGH	LOW	LOW	4	1.5	0.25
	AdcA	90	Adder	MUCK	D	65	22	0.02	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HIGH (The h	HIGH	LOW	22	80	50
	AdcA	90	Adder	MUCK	A	65	22	0.02	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	INTERMEDI	LOW	LOW	22	80	50
	AbB	100	Aftad	VFSL	C	2	7	0.49	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HIGH (The h	HIGH	HIGH	7	3	1
	AgA	84	Almena	SIL	D	8	4	0.43	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	VERY LOW	HIGH	HIGH	4	20	1.5
	AgA	84	Almena	SIL	B	8	4	0.43	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	INTERMEDI	INTERMEDI	INTERMEDI	4	20	1.5
	2099	89	Anthropic ps	MK-S	D	10	8	0.02	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HIGH (The h	HIGH	LOW	8	15	3
	2099	89	Anthropic ps	MK-S	A	10	8	0.02	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	INTERMEDI	LOW	LOW	8	15	3
	IzB	20	Arbutus	MPM	A	80	1	0.05	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	INTERMEDI	LOW	LOW	1	90	75
	AnA	55	Au Gres	S	A	3	13	0.02	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	INTERMEDI	LOW	LOW	13	4	2
	AnA	55	Au Gres	S	D	3	13	0.02	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HIGH (The h	HIGH	LOW	13	4	2
	Au	85	Au Gres	S	D	10	5	0.22	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	VERY LOW	HIGH	HIGH	5	20	1.5

Exclude: PCT_COMP <= 10

Locate Records Where: COMP_NAME Contains Begins With

Soils in Queue

MUSYM	Percent	SOIL	Texture	User OM	User Depth	Hydro	SLP	SSRP	SARP	Slope	Macropores	HWT	State	SSAID	SEQNUM	M
[Empty Queue]																

Pesticides in Queue

PESTICIDE	PC Code	Reg No	PLP	PSRP	PARP	Area	Method	Rate
[Empty Queue]								

Help Save Scenario [Save Icon] Reports [Print Icon] Close [Close Icon]

Status: Welcome to WIN-PST 3.1, Ready ... 10/7/2020 11:04 AM

NRCS Assessment Tools

WIN-PST

	COOPERATOR TestFarmer	TRACT 1	FIELD 1																								
10/7/2020 11:05AM Page 1 of 2																											
Soil / Pesticide Interaction Loss Potential and Hazard Rating Report																											
<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> BIB Bilson 100% SL Hydro: B Clark County, Wisconsin: WI019 OM% 1.5 H1 Depth: 8 </div>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> EIB Elevasil 100% SL Hydro: B Clark County, Wisconsin: WI019 OM% 2 H1 Depth: 8 </div>																										
F9114 EC INSECTICIDE <small>Reg No: 279-3426</small> 9.15% Zeta-Cypermethrin	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Loss Potential</th> <th>Human Hazard</th> <th>Fish Hazard</th> </tr> </thead> <tbody> <tr> <td>Leaching: L</td> <td style="color: red;">I</td> <td style="color: red;">H</td> </tr> <tr> <td>Solution: L</td> <td style="color: red;">I</td> <td style="color: red;">H</td> </tr> <tr> <td>Adsorbed: I</td> <td></td> <td>L</td> </tr> </tbody> </table>	Loss Potential	Human Hazard	Fish Hazard	Leaching: L	I	H	Solution: L	I	H	Adsorbed: I		L	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Loss Potential</th> <th>Human Hazard</th> <th>Fish Hazard</th> </tr> </thead> <tbody> <tr> <td>V</td> <td>L</td> <td style="color: red;">I</td> </tr> <tr> <td>L</td> <td style="color: red;">I</td> <td style="color: red;">H</td> </tr> <tr> <td>I</td> <td></td> <td>L</td> </tr> </tbody> </table>		Loss Potential	Human Hazard	Fish Hazard	V	L	I	L	I	H	I		L
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GF-3384 <small>Reg No: 62719-718</small> 6.87% Halauxifen-methyl	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Loss Potential</th> <th>Human Hazard</th> <th>Fish Hazard</th> </tr> </thead> <tbody> <tr> <td>Leaching: I</td> <td>V</td> <td style="color: red;">H</td> </tr> <tr> <td>Solution: H</td> <td>L</td> <td style="color: red;">H</td> </tr> <tr> <td>Adsorbed: H</td> <td></td> <td>L</td> </tr> </tbody> </table>	Loss Potential	Human Hazard	Fish Hazard	Leaching: I	V	H	Solution: H	L	H	Adsorbed: H		L	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Loss Potential</th> <th>Human Hazard</th> <th>Fish Hazard</th> </tr> </thead> <tbody> <tr> <td>L</td> <td>V</td> <td style="color: red;">I</td> </tr> <tr> <td>H</td> <td>L</td> <td style="color: red;">H</td> </tr> <tr> <td>H</td> <td></td> <td>L</td> </tr> </tbody> </table>		Loss Potential	Human Hazard	Fish Hazard	L	V	I	H	L	H	H		L
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H	L	H																									
H		L																									

NRCS Assessment Tools

WIN-PST



COOPERATOR
TestFarmer

TRACT
1

FIELD
1

10/7/2020

11:05AM

Page 2 of 2

Soil / Pesticide Interaction Loss Potential and Hazard Rating Report

LEGEND

X -- eXtra high
H -- High
I -- Intermediate
L -- Low
V -- Very low

Conditions that affect ratings:

(none) -- Broadcast application (default); applied to more than 1/2 the field
b -- Banded application; applied to 1/2 the field or less
p -- Spot application; applied to 1/10th of the field or less

(none) -- Surface applied (default); applied to the soil surface
i -- Soil incorporated; with light tillage or irrigation
f -- Foliar application; directed spray at nearly full crop/weed canopy

(none) -- Standard application rate (default); greater than 1/4 lb/acre
l -- Low rate of application; 1/10 to 1/4 lb/acre
 -- Ultra Low rate of application; 1/10 lb/acre or less

m -- There are surface connected macropores (cracks) that go at least 24 inches deep.
w -- The high water table comes within 24" of the surface during the growing season.
s -- The field slope is greater than 15%.

<none> -- Default condition for all climates that have rainfall/irrigation after pesticide application
<dry> -- Exception for arid climates that have a low probability of rainfall and no irrigation after pesticide application

SPISP II I-Ratings:

Leaching -- Soil / Pesticide Interaction Leaching Potential
Solution -- Soil / Pesticide Interaction Solution Runoff Potential
Adsorbed -- Soil / Pesticide Interaction Adsorbed Runoff Potential

NRCS Assessment Tools - WIN-PST



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Land Use

- [-] Cropland
 - Erosion
 - Nutrient & Pest Management**
 - Resources & Publications
- Farmland Protection Policy Act
- [-] Forestry
- [-] Range & Pasture
- Urban Agriculture

Windows Pesticide Screening Tool - WIN-PST

short url to this page: <http://go.usa.gov/Kok>

What is WIN-PST?

WIN-PST is a pesticide environmental risk screening tool that NRCS field office conservationists, extension agents, crop consultants, pesticide dealers and producers can use to evaluate the potential for pesticides to move with water and eroded soil/organic matter and affect non-target organisms... [More](#)

WIN-PST 3.1 Software

WIN-PST 3.1.3 is CCE Certified! **Patch Released 2-25-2014**

Fixes in WIN-PST 3.1.3 include:

- Screens now appear correctly on all screen text sizes (DPI)
- Fixed export issues with products with the same active ingredient.
- Additional error logging for soils imports.
- The website address has been changed to direct users to the current WIN-PST webpage.
- Additional fixes to exports allow more standard behavior in naming files.
- Additional decimal places have been added to the pesticide database which allows active ingredients with extremely low percentages to display properly on the Products tab.

Download and Installing WIN-PST 3.1:

Note: Version 3.1.3 is a patch to the current installed version 3.1.2. You must have version 3.1.2 installed before you can install this patch. WIN-PST 3.1.3 works on Windows 7, 8.1 and 10.

Inside NRCS:
For NRCS users that already have version 3.1.2, as of 2-25-14, WIN-PST will automatically updated to version 3.1.3. Submit a Remedy Help Desk Ticket to request WIN-PST 3.1.3 installation if it is not already installed.

NRCS Assessment Tools – RUSLE2

RUSLE2 Version 2.6.11.1 (Nov 7 2018)

File Database Edit View Options Tools Window Help

Management: CMZ 37\A.Single Year/Single Cro Profile: Corn Monoculture*

Graphic Rel. row grade, % 100

Add to this manager

View/edit rotation builder used to

Irrigation system no irrig

Operations Info

STEP 1: Choose location to set climate: Location USA\Louisiana\Acadia County

STEP 2: Choose soil type: Soil SSURGO\Acadia Parish, Louisiana\AdB Acadiana silt loam, 1 to 3 percent slopes\Acadiana Silt loam 85%

STEP 3: Set slope topography: Slope length (along slope), ft 150 Avg. slope steepness, % 1.0

STEP 4a: Select base management: Base management CMZ 37\A.Single Year/Single Crop Templates\Corn, grain with weeds; FD, Z37

STEP 4b: Modify/build man. sequence if desired: Rotation builder ope

STEP 4c: adjust management inputs if desired: Adjust yields ope Adjust ext. res. additions ope Rock cover, % 0

Fuel type for entire run ...

Energy use for entire simulation, BTU/ac 0

Equiv. diesel use for entire simulation, gal/ac ..

Fuel cost for entire simulation, US\$/ac 0

Adjust res. burial level Normal res. burial

STEP 5: Set supporting practices: Contouring a. rows up-and-down hill Relative row grade, % 100 Crit. slope length, ft 150

Strips/barriers (none)

Diversion/terrace, sediment basin (none)

Subsurface drainage (none)

Yrs offset from start year (MAN)

Segment	Yrs offset from start year, yr	
	+	-
1		0

Finished calculating

Results Additional Results Track Biomass

Soil loss for cons. plan, t/ac/yr 7.4

T value, t/ac/yr 5.0

Soil loss for cons. plan OK?

Info Corn Monoculture

NRCS Assessment Tools

Water Erosion Prediction Project (WEPP)

WEPP NRCS 9/18/2020 Project Results Analysis History Map Managements Help

Load	Name	County	Area(Ac)	Soil	Latitude	Longitude
	Field 1	ACADIA PARISH	20.0	CrA Crowley silt loam, 0 to 1 percent slopes Crowley(5.00T)	30.289997741289937	-92.42616748809814

Average Annual Precipitation(in/yr)	59.07	SCI FO Subfactor	0.23
Average Annual Irrigation(in/yr)	7.63	SCI ER Subfactor	-0.07
Average Annual Sediment Deposition(t/ac/yr)	0.00	Soil Loss T Factor	5

Note: Calibration factors above 2.0 or below 0.5 indicate a significant adjustment was made. The management inputs should be reviewed to be sure the yield is reasonable, and the growing season length is correct. Other inputs to check would be the climate and irrigation, is there enough water for successful plant growth.

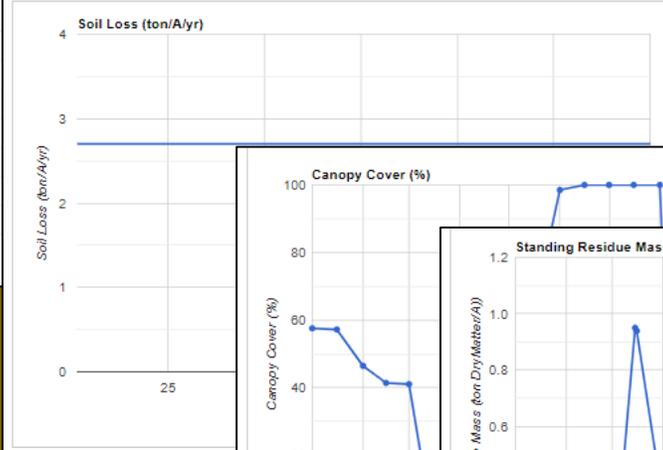
[PDF Summary of Simulation](#)

NRCS Assessment Tool - WEPP

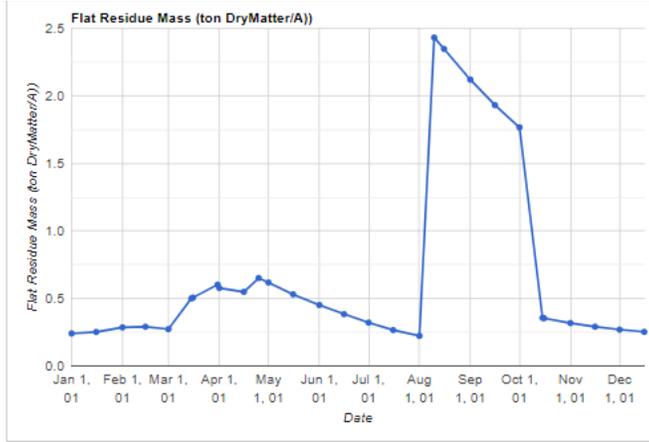
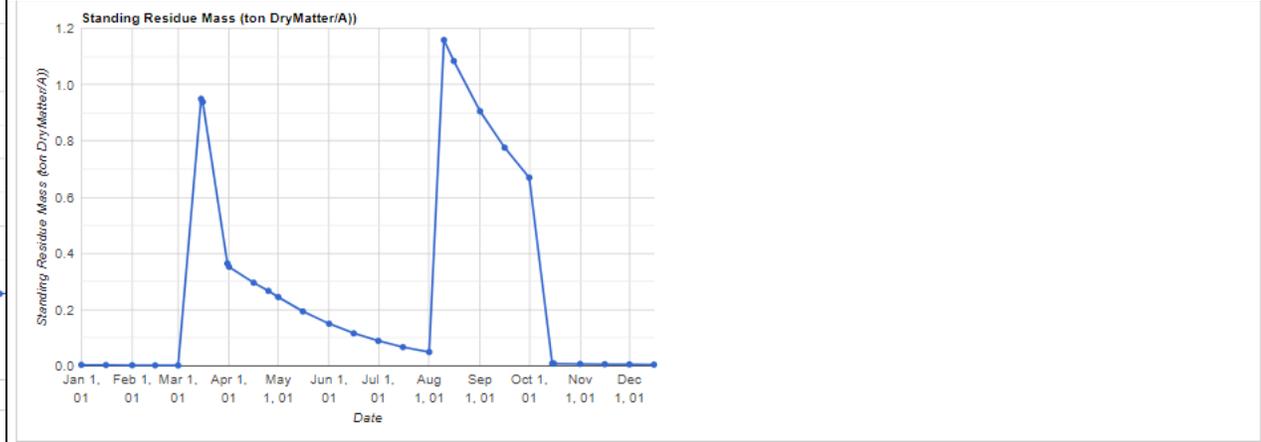
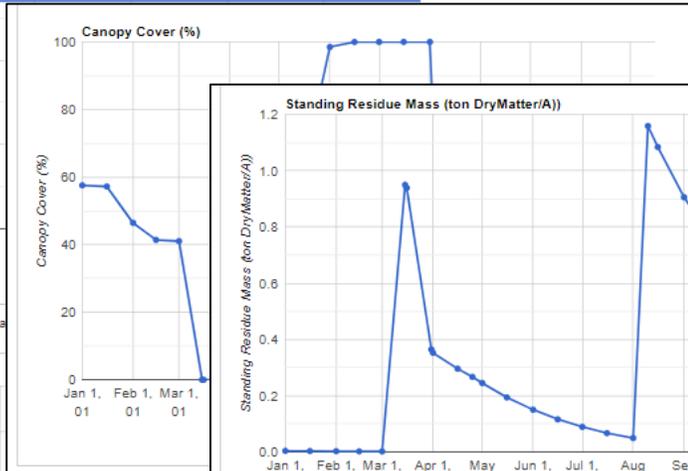
[Click here to show annual statistics for 100 years](#)

- Segment
- Hillslope
- Hillslope
- 1
- 1
- 1
- 1
- Hillslope

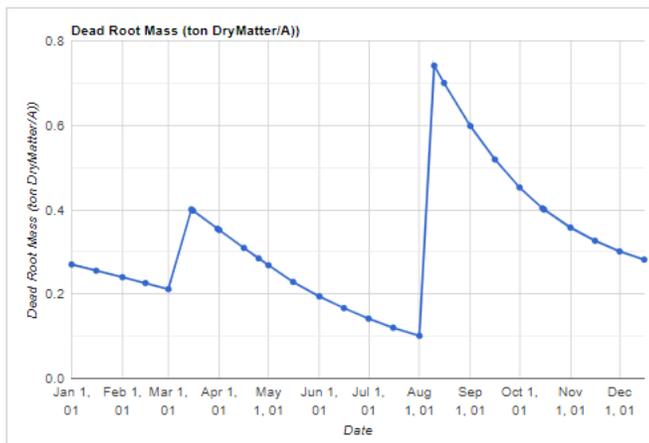
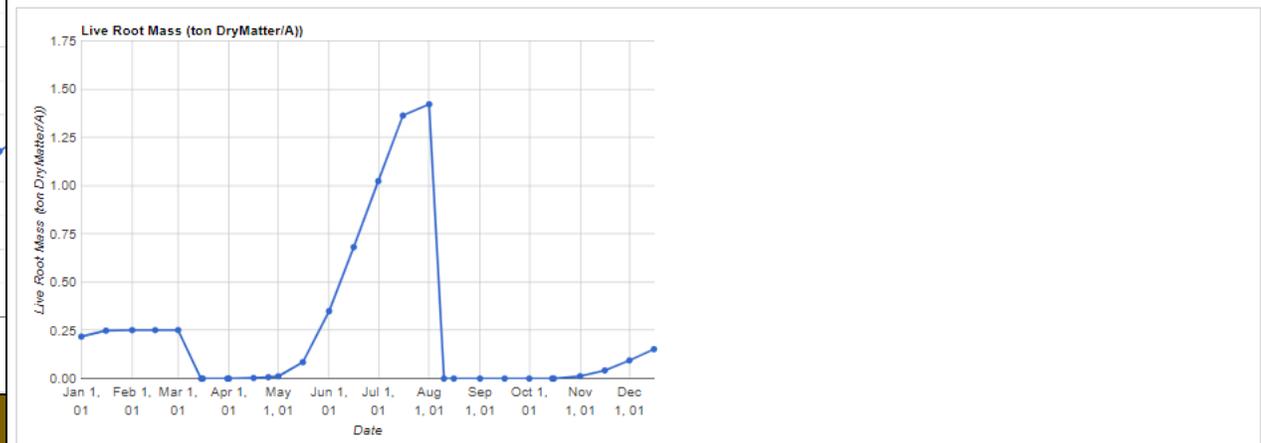
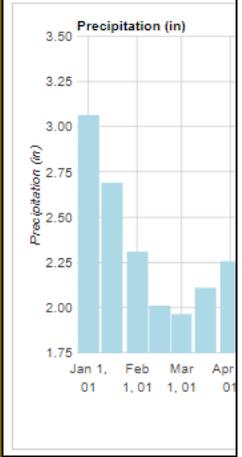
Print



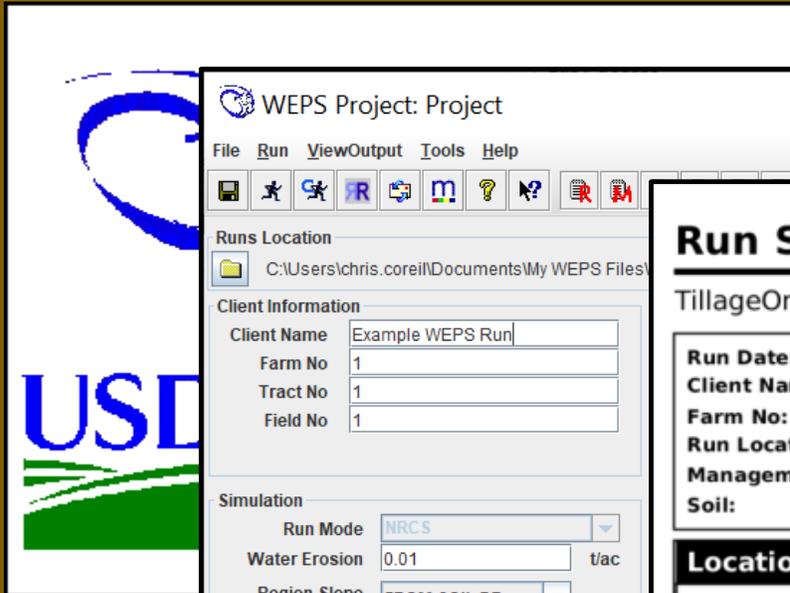
	Min	Max
	39.46	88.90
	0.09	1.70
	1.76	12.98
	4.82	34.92
		27.46
		19.10
		9.89



The following graphs for precipitation a



NRCS Assessment Tool - WEPS



WEPS Project: Project

File Run ViewOutput Tools Help

Runs Location: C:\Users\chris.coreil\Documents\My WEPS Files

Client Information

Client Name: Example WEPS Run
 Farm No: 1
 Tract No: 1
 Field No: 1

Simulation

Run Mode: NRCS
 Water Erosion: 0.01 t/ac
 Region Slope: FROM SOIL DB
 Soil DB Value: 0.07 ft/ft
 Rock Fragments: FROM SOIL DB
 Soil DB Value: 0.00 ft²/ft²

Notes

Example WEPS Run

Man: TillageOnlyX9.man
 Soil: Dickinson_175C2_90_FSL

Run Summary

TillageOnlyX9_DicksonTN_calib_3

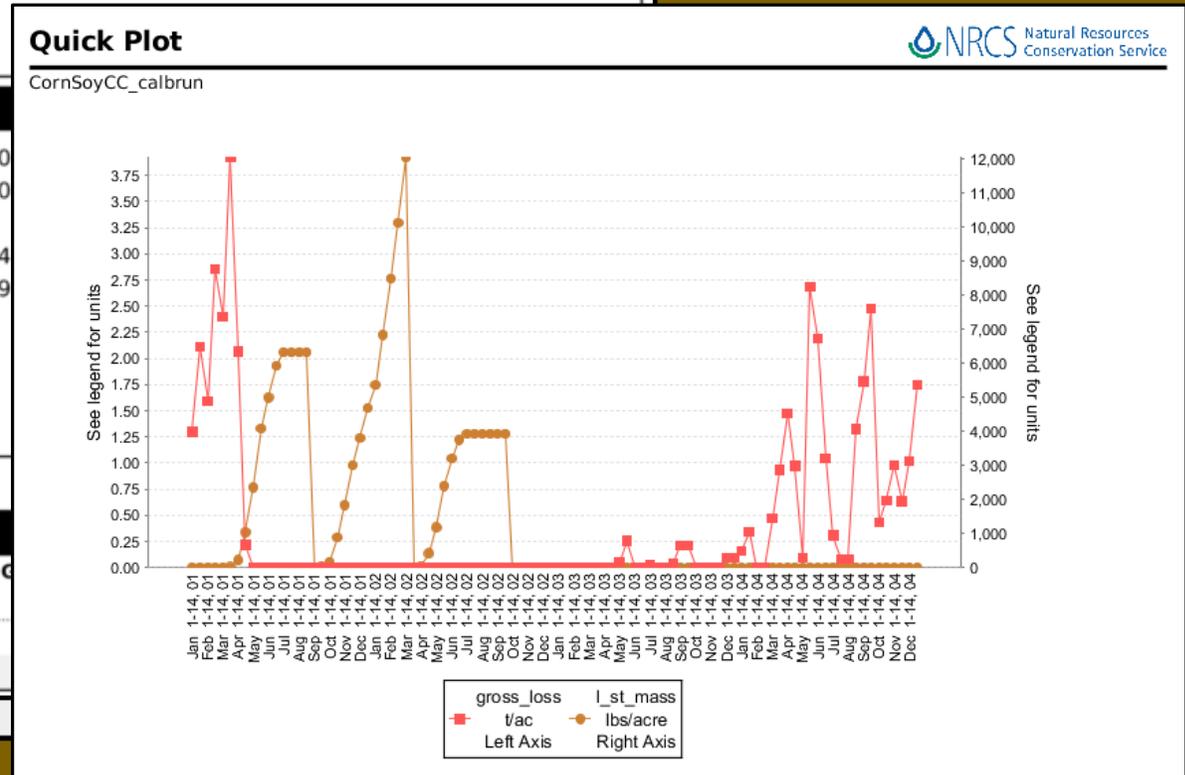
Run Date: Tuesday, October 13, 2020, 07:42 AM
 Client Name: Example WEPS Run
 Farm No: 1 Tract No: 1 Field No: 1
 Run Location: Runs
 Management: TillageOnlyX9.man
 Soil: Dickinson_175C2_90_FSL.ifc

Location Site Information

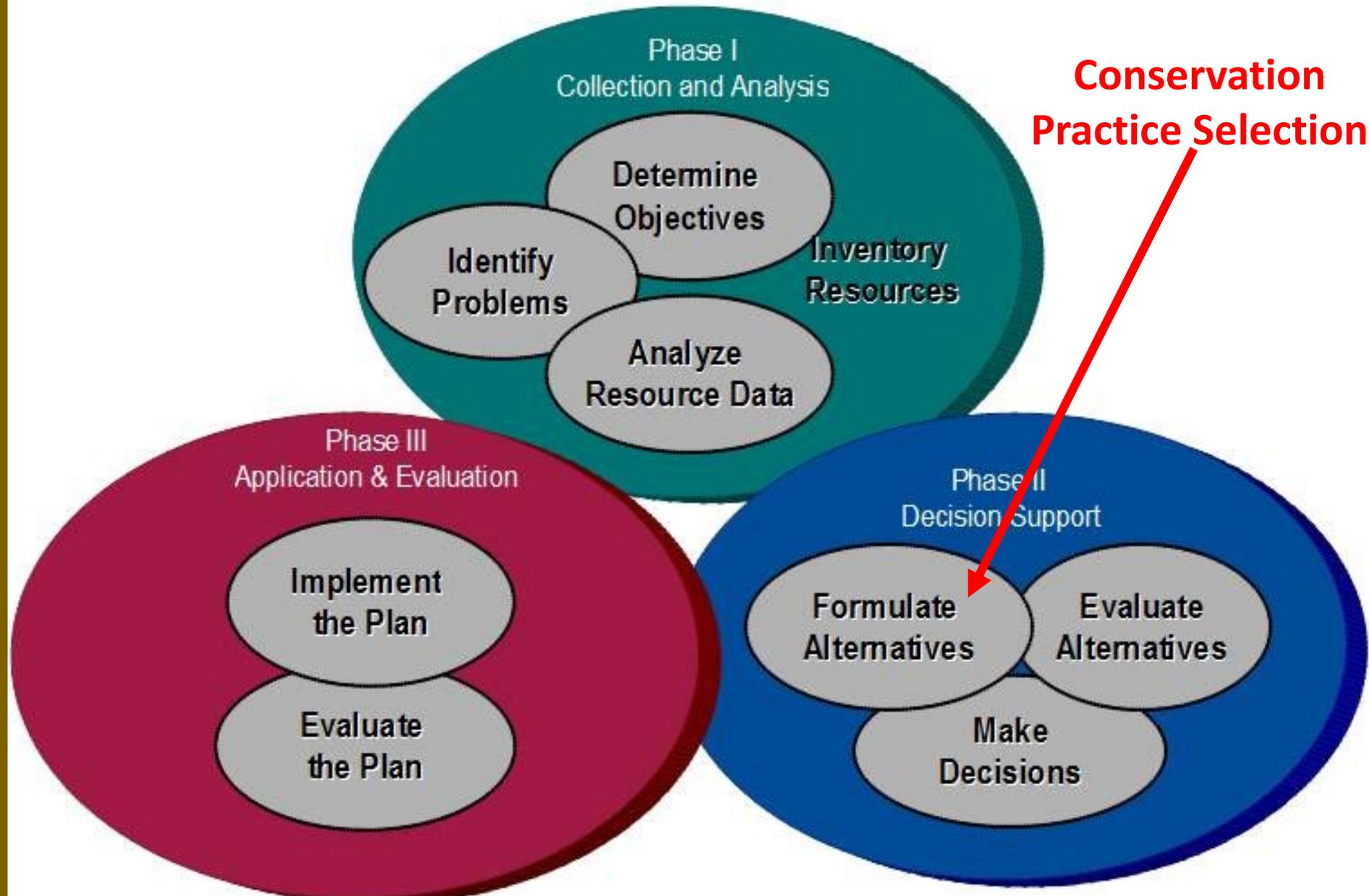
X-Length: 250
 Y-Length: 250
 Area: 14
 Elevation: 79
 Orientation:

Erosion

Period	Crop/Residue
Rot. year: 1	
Ave. Annual	



The Nine-Step Conservation Planning Process



Conservation Practice Selection

- CART internal logic, and NRCS Planning Criteria, guide conservation planners in deciding whether a resource concern exists.
- If there is a potential resource concern involving sediment, pesticides, or nutrient runoff to surface or groundwater resources, conservation measure(s) are suggested.
- Conservation practice selection choice lists are presented in CART. Also, all conservation planners are trained to recognize applicable conservation measures for each resource concern.
- Further guidance for conservation practice selection is provided in the individual conservation practice standards, specifications, and other guidance documents.





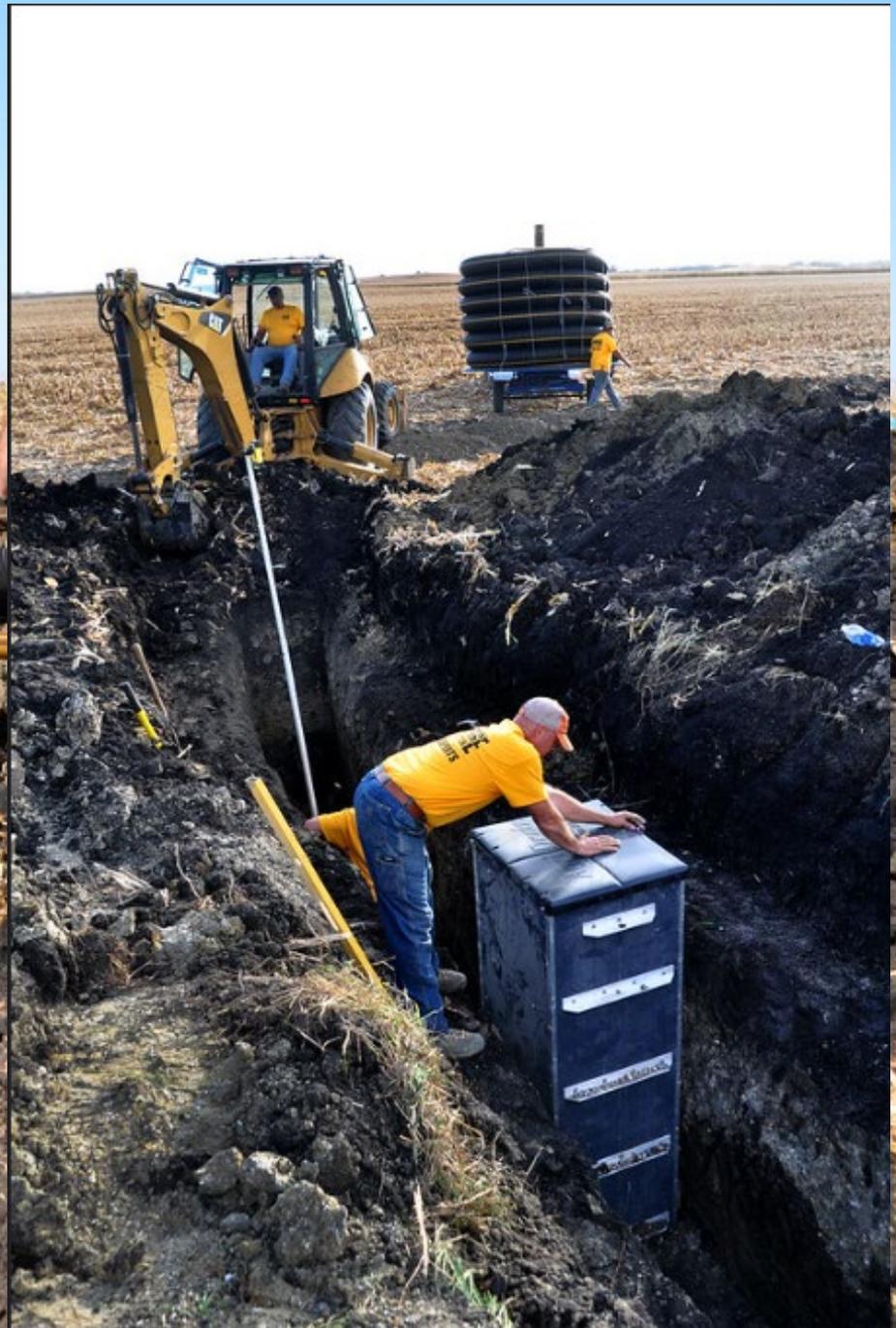












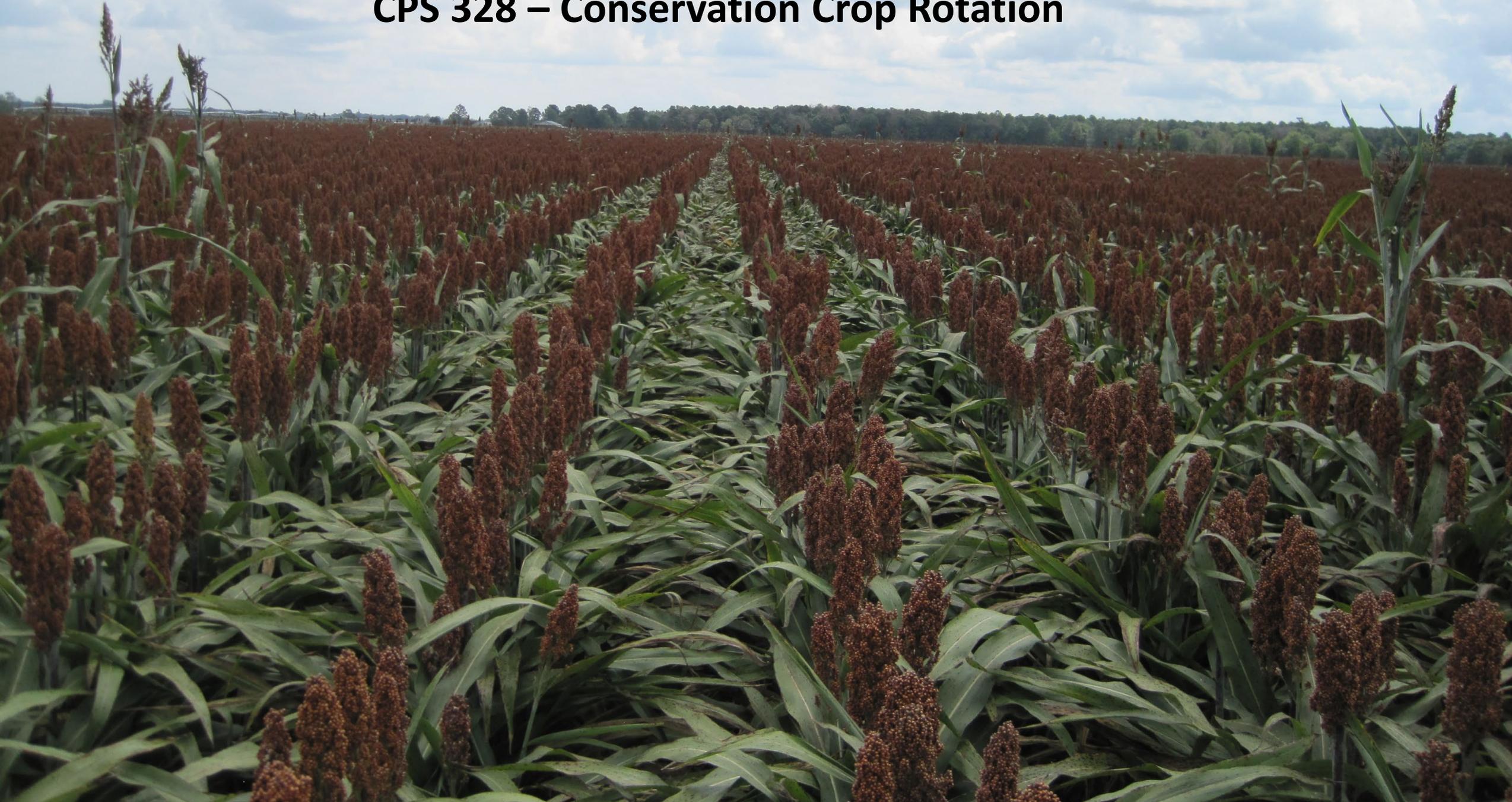
CPS 595 – Pest Management Conservation System



CPS 590 – Nutrient Management



CPS 328 – Conservation Crop Rotation



CPS 345 – Residue and Tillage Management, Reduced Till
CPS 329 – Residue and Tillage Management, No-Till









CPS 340 – Cover Crop



Sunflower

20 lb/ac

Pearl Millet

12 lb/ac







CPS 327 – Conservation Cover?





CPS 386 - Field Border



CPS 393 – Filter Strip





CPS 390 – Riparian Herbaceous Cover?



CPS 391 – Riparian Forest Buffer

CPS 449 – Irrigation Water Management



CPS 447 – Irrigation System, Tailwater Recovery

CPS 350 – Sediment Basin

CPS 656 – Constructed Wetland



Questions?





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