

APRIL TRANSACTIONS

District Checking Account Balance 3-30-18 \$241,776.37

RECEIPTS: (since last board meeting)

Bank of the West - March Interest - Checking Account	\$2.64
Trees	\$285.51
Southwest Prairie TSA - 1st Quarter	\$6,972.60
RCRCA - WRAPs Meeting - Reimbursement	\$480.00
MCIT - Insurance Payment - Embezzlement	\$5,000.00
GBERBA - Coordinators, Financial Coordinator, Watonwan Technician and Area 6 Certification Specialist - February	\$27,999.13
Cottonwood County - 2nd Quarter Allocation	\$13,000.00

TOTAL RECEIPTS \$53,739.88

DISBURSEMENTS: (since last board meeting)

23674-78 Supervisor Comp & Expenses 1-1-18 to 3-30-18 Including DCP, MN Dept of Revenue and FICA/MC (EFT's)	\$3,027.27
1447 Murray SWCD - Southwest Prairie TSA - Financial Coordinator - 1st Quarter	\$4,422.08
1448 Sun Life Financial	\$64.00
1449 Kathy Smith - GBERB Financial Coordinator - March	\$480.00
23679 Cottonwood County - April Insurance	\$2,730.30
23680-85 Payroll - 4-1-18 to 4-14-18 Including PERA, MN Dept of Revenue and FICA/MC (EFT's)	\$11,863.67
23686 Hwy 71 Storage of Windom	\$45.00
23687 The Hartford	\$124.06
23688 B-N-C Community Health	\$500.00
EFT4132018 MN Department of Revenue - Sales Tax - 1st Quarter	\$665.00

TOTAL DISBURSEMENTS \$23,921.38

BALANCE BEFORE BOARD MEETING \$271,594.87

ACCOUNTS PAYABLE

3/30/2018

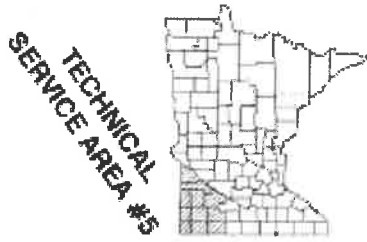
(to be approved at this board meeting)

<u>Check#</u>	<u>Payable</u>	<u>Amount</u>
23689	Cottonwood Cattle Producers Tour - Booth and 3 Participants - Certainty Funding	\$350.00
23690	SWMACDE Environmental Fair	\$500.00
23691	Higley Ford - Lube, Oil and Filter for Expedition	\$46.99
23692	City of Windom - Internet	\$79.00
23693	Citizen Publishing - Site Host and Domain Name	\$65.00
23694	Expressway Windom - Gas	\$155.23
23695	Windom Quick Print - Planning and Zoning - Envelopes	\$155.90
23696	Minn-Kota Properties - Rent	\$2,491.85
23697	Fidelity Security Life - Vision Insurance	\$21.06
23698	Sun Life Financial - Short Term Disability Insurance	\$64.00
23699	Delta Dental - Dental Insurance	\$160.10
23700	Schwalbach Hardware - Tree Barn - Refrigeration Check	\$46.38
23701	Card Member Services - Hotel-Legislative Day; Post Office - Stamps, Abstract Return; Hotel-Tree Course	\$668.48
23702	Plantra - Protectors, Stakes, Mats and Staples	\$511.55
23703	Office of MN.IT Services - March Fax Line	\$27.72
23704	Herman Bartsch - Area 6 Certification Specialist - Mileage, Cell Phone, Meal	\$144.80
23705	Rebecca Alexander - Cell Phone Expense, Mileage - CREP Mtg	\$73.16
23706	Kay Gross - Cell Phone, CrashPro and District Cell Phone	\$64.49
23707	Ratwik, Roszak and Maloney - Attorneys	\$8,176.50
23708	Regents of The University of MN-SSTS 7 soils Training-Hannah	575.00
	TOTAL ACCOUNTS PAYABLE	\$14,377.21

District Checking Account Balance 4-26-18 \$257,217.66

Balances as of 4-26-18:

SAVINGS (Included in District Fund Balance)	\$0.00
PETTY CASH (Included in District Fund Balance)	\$50.00



SOUTHWEST PRAIRIE TECHNICAL SERVICE AREA

339 9th Avenue
Phone: 507-831-1153 Ext. 3

Windom, MN 56101
Fax: 507-831-2928

DATE: APRIL 26, 2018
TO: SOUTHWEST PRAIRIE TSA MEMBERS
FROM: KAY GROSS, ADMINSTRATIVE COORDINATOR
SUBJECT: COORDINATOR REPORT

Contract Training and Soil Health Program

Dawn Madison, Technical/Soil Health Contractor, is continuing to work with Area staff in assessing training needs and working to make trainings available. Two Technical Training/Meeting have been held for Area staff, with a third scheduled (weather has been a factor).

TSA Website

Beginning of 2018 we will be working with Shelly Lewis and Ben Matthys to take over the TSA website maintenance.

Update of the Southwest Prairie TSA Personnel and Operational Policies

Ann Goering has provided a redline draft document for our Meeting; I would suggest authorizing another face-to-face meeting with Ann to discuss the document and ask questions and receive clarification. We should then have a more concise document to review.

Biennial Budget Review

BBR creation and submission were submitted by the due date.

NACD Grant – Technical Assistant Grant

Grant has been approved with the TSA receiving \$125,000 with \$25,000 of match. Work has started with a letter going to Gary Watson informing of the grant; meetings with SWCDs to talk workload and the possibility of hiring local TSP through contract to help with implementation of grant objectives.

NACD Grant – Collaboration

The Southwest TSA has also submitted a grant totaling \$56,680 for efforts to promote Soil Health through cover crops. Thank you to Becky Alexander (our resident worksmith) and Doug Bos for their help completing this application!!!!

County Buffer Cost-Share Policy

Purpose: To outline the use of the Buffer Cost-Share monies provided by Cottonwood County to the Cottonwood SWCD to assist landowners with buffer law compliance and establishing filter strips (i.e. buffers).

- 1. Cost-share shall be used only to establish grassed filter strip practices, NRCS practice code 393 Filter Strips.**
- 2. Cost-share shall not be used for alternative practices at this time due to limited fund dollars.**
- 3. Landowners that receive a Notice of Violation, Corrective Action Plan, and/or Administrative Penalty Order from the county for enforcement shall not be eligible for Cost-Share.**
- 4. Cost-Share will be 75% reimbursement of associated establishment costs.**
- 5. Priority will be given to landowners with a waiver for public water extensions as allowed under the Buffer Law (103F.48).**
- 6. Cost-Share may be used to achieve compliance for public ditches not required to have 16.5 feet under Statute 103E (Public Drainage Law). Those public drainage ditches required to have 16.5 feet buffer under statute 103E shall not be eligible for cost-share.**



**COTTONWOOD
SOIL AND WATER CONSERVATION DISTRICT**

339 9th Street
Windom, MN 56101

Phone: 507-831-1153 Ext. #3
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Cottonwood SWCD Technician Report for April 26, 2018.

1) Minnesota Wetlands Conservation Act update.

There is ongoing work in Cottonwood and Watonwan Counties. The new regional BWSR WCA staff person John Hansel stopped and introduced himself to the office staff. He will be out of the Marshal office.

2) GBERBA.

The Watonwan One Watershed One Plan effort is moving along very well. A

Steering Committee was held on Wednesday April 25. The MOA has been to all boards for signatures.

New GBERBA grant opportunities are being looked into. New drainage dollars are a priority.

3) Tree Program.

Most of the trees are in the tree barn. Pick up day is tomorrow Friday the 27th of April. For 2018 there are 75 tree orders so far with about 5500 trees on order.

We have 10 projects that have requested planting assistance.

4) We are participating in the Township Well testing Program in 2018. We will be testing wells in Germantown, Amboy, Dale, and Southbrook Townships for nitrates.

5) On the 19th of April I attended a Cottonwood/Redwood Watershed WRAPS meeting in Marshal and a CREP meeting in the afternoon, to possibly modify CREP to get more sign ups.

David Bucklin,
Cottonwood SWCD



**COTTONWOOD
SOIL AND WATER CONSERVATION DISTRICT**

339 9th Street
Windom, MN 56101

Phone: 507-831-1153 Ext. #3
Fax: 507-831-2928

Date: April 23, 2018

Name: Becky Alexander (Farm Bill Assistant/Program Technician)

Topics: Past Events, Upcoming Events, Farm Bill Assistance, SSTS, Buffers, Feedlots, Planning and Zoning

Past Events:

- March 27, 2018 – Area V Employees meeting in Slayton
- March 28, 2018 – PTMapp Heron Lake
- March 30, 2018 – SWCD board meeting
- April 2, 2018 – RUSLE2 refresher focus on buffers in Marshall
- April 9, 2018 – Tech meeting in Adrian - Postponed

Upcoming Events:

- April 19, 2018 – CREP meeting in Marshall MN
- April 30 – May 4, 2018 – Service Provider certification course

Farm Bill Assistance:

- CRP is still on hold.
- Submitted one application for CREP, three more in the hopper.
- Walk In Access (WIA) enrollment ends April 27th.

SSTS:

- Continuing to send out letters as septic disclosure forms come in and as property transfers occur. I have registered for two classes to obtain my intermediate level inspector certification.
 - I passed the Intermediate Design & Inspection test from February
- 9 Notice of Violations were issued to homeowners past due for their system replacement.

Feedlots:

- This year starts the new 4 year registration cycle. Due to the new system the State changed over to, we are going to have to re-evaluate how to send out the registration update forms. The new system does not auto-populate the fields like it did under the previous system.
 - We have not sent out the first quarter because the State is over two months behind in the database to enter registrations in

Buffers:

- I spoke with the County Commissioners about using some of the Riparian State Aid they received as cost-share to help landowners install buffers. We were given \$5,000 to use as cost-share for buffer installation.



COTTONWOOD SOIL AND WATER CONSERVATION DISTRICT

Date: April 26, 2018

Name: Hannah Herzfeld (Cottonwood Resource Technician)

Topics: Past Events, Upcoming Events, Project Updates, Working on

Past Events:

- April 9th – Technical training

Upcoming Events:

- June – SSTS training

Project Updates:

A final list of Buffers was made to send to the county for enforcement. Another Buffer letter will be sent out to landowners who have signed waiver B as a reminder that the deadline is July 1st 2018 and that there is some cost-share available. Bee Boxes have been set up and inspections have begun. The RIM spot-check list was delivered and letters will be sent out to notify landowners of site visits.

Working on:

- Developing an alternative practices list, and making site visits to determine alternative practices for individual landowners.
- Working with Becky Alexander and occasionally going into the field to correct maps made in the office or working on individual buffer maps for landowners.
- Tracking buffer compliance using the BWSR BuffCAT tool is a continual process.
- Continuing SSTS classes
- Working on cost-share database
- Working on Bee Atlas
- Planning for Adopt a Highway clean up



Alex Schultz
Planning and Zoning Technician

339 9th Street
Windom, MN 56101

Phone: 507-831-1153 Ext. #3
Fax: 507-831-2928

COTTONWOOD SOIL AND WATER CONSERVATION DISTRICT

Date: April 26, 2018

Name: Alex Schultz

Topics: Past Events, Upcoming Events, Planning and Zoning, and Ag. Inspecting

Past Events:

- April 10th – 12th MPCA Nutrient Management Training
- April 20th MACPZA Meeting

Upcoming Events:

- April 25th GBERBA Tech Meeting
- April 26th Board of Adjustments Meeting
- May 22nd Planning Commission Meeting

Planning and Zoning:

- **Planning Commission Meeting**
 - Upcoming: Muecke Inc- Expansion of Sand Pit, Neil Stevens- Cold Storage in Shoreland, Trent Hoek- Shop in Shoreland
- **Board of Adjustments**
 - Upcoming- New Vision- Grain Bin and Dump Pit
- **Permits**
 - Setback Permits, 7 Issued
 - CUP, 0 Issued
 - Variance, Issued 0

Feedlots

Permitting Clausen Feedlot in Rose Hill Township on May 3rd



**COTTONWOOD
SOIL AND WATER
CONSERVATION
DISTRICT**



**Cottonwood
County
Information
Systems**

Date: April 25, 2018

Name: Marty Mollenhauer, GIS Specialist / IT Assistant

Subject: SWCD Board Meeting Report

Current Projects:

- Address & Driveway Permit process improvements
- Zuercher Mapping GIS & IT support: Sheriff's Office
- Subdivision & Plat Map printing
- Cottonwood / Jackson Co GIS server setup & configuration
- Cottonwood / Jackson Co GIS data merge project
- Panic button testing and research
- QuickBooks setup and troubleshooting: Hwy / Public Works Dept.
- Ongoing survey reviews
- SWCD parcel data update
- GIS data requests: Apex Clean Energy, Great River Energy, Bolton & Menk

Upcoming Projects:

- UMGECON GIS Conference: La Crosse, WI May 23-25
- South Central GIS user group meeting planning
- Culvert GIS data collection
- SWCD Invasive Species Interactive Map



Greater Blue Earth River Basin

April 19, 2018



DANIELLE EVERS

AREA 5 MAWQCP CERTIFICATION SPECIALIST

Serving the Counties of: Cottonwood, Jackson, Lac Qui Parle, Lincoln, Lyon, Murray, Nobles, Pipestone, Redwood, Rock, & Yellow Medicine

Projects and Events:

- Continuing to meet with producers for assessments, create maps, & upload documents for state verification
- Assisting producers in submitting MAWQCP Cost-Share Grant Applications
- Working on scheduling training for new personnel
- **April 9th** - Tech. meeting/training soil health (**postponed**)
- **April 13th** - Eligibility and Screening deadline for RCPP EQIP
- **April 25th** - ACS Meeting -St. Paul
- **April 27th** - Integrated Erosion Tool (IET) Training - Marshall

Program Updates and Information:

- Water quality inlets are still available for interested farmers pursuing certifications (2 free for each applicant)
- **\$6,000** of Additional funding is still available through GBERBA for districts to continue working on the MAWQCP
- MAWQCP has certified over **541 farms**, including over **335,924 acres** with **1,021 new BMP's**
- Estimated benefits include: **14,429 tons** of TSS reduced per year, **32,685 tons** soil reduced per year, **17,432 lbs** Phosphorous reduced per year
- Grant applications still available for up to **\$5,000 75%** cost-share through the MDA for producers

YEAR TO DATE NUMBERS

Area 5	Applications	Assessments Completed	Actively Pursuing Cert.	Certifications
Cottonwood SWCD	30	28	1	14
Jackson SWCD	28	27	13	10
Lac Qui Parle SWCD	5	5	0	3
Lincoln SWCD	16	16	0	5
Lyon SWCD	7	6	0	4
Murray SWCD	11	10	0	7
Nobles SWCD	13	13	6	5
Pipestone SWCD	29	27	4	12
Redwood SWCD	25	24	1	17
Rock SWCD	18	15	2	6
Yellow Medicine SWCD	18	14	1	6
Totals	199	185	27	89

DANIELLE EVERS:
Area 5 Certification Specialist
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Danielle.Evers@co.pipestone.mn.us



Minnesota Agricultural Water Quality Certification Program

South Central MAWQCP Certification Specialist

Serving the Counties of: Blue Earth, Brown, Faribault, LeSueur, Martin, McLeod, Nicollet, Renville, Sibley, Waseca, Watonwan



Greater Blue Earth River Basin Alliance



Herman Bartsch
 AREA 6 MAWQCP CERTIFICATION SPECIALIST
 April 25th, 2018

Workload:

- Working with producers and SWCDs to complete assessments and certifications
- Assisting producers and NRCS staff with RCPP sign-up
- Working with Brown, Watonwan, and Faribault County District staff on cover crop plans for producers
- ACS Meeting in St. Paul – 4/25/18

AREA 6	Applications	Assessments	Certifications
Blue Earth SWCD	12	11	6
Brown SWCD	8	6	3
Faribault SWCD	19	12	5
LeSueur SWCD	3	2	2
Martin SWCD	8	5	5
McLeod SWCD	7	5	3
Nicollet SWCD	0	0	0
Renville SWCD	6	6	4
Sibley SWCD	3	2	2
Waseca SWCD	8	7	0
Watonwan SWCD	10	6	5
Total	84	62	35

I have been working with staff in Brown, Faribault, and Watonwan counties on cover crop plans to utilize the GBERBA cover crop cost share grant. District staff have been completing the plans, and I have provided guidance as needed and technical sign-off. Currently there are 12 applicants. Many of them are already certified through MAWQCP. Some are working towards certification.

MAWQCP Numbers as of 4-16-18

- 552 producers certified
- 350,276 acres certified
- 1,032 new practices installed or planned to be installed
- Sediment delivery to surface waters reduced by 14,501 tons per year (29,002,923 lbs.)
- Soil loss reduced by 32,765 tons per year (65,529,373 lbs.)
- Phosphorus loss reduced by 17,513 lbs. of P per year

Herman Bartsch:
 Area 6 Certification Specialist
 422 Belgrade Ave, Suite 104
 North Mankato, MN 56003

Office: (507) 344-3210
 Cell: (507) 380-9134

E-MAIL:
 hermanbartsch@outlook.com



Minnesota Agricultural Water Quality Certification Program

Agriculture and Water Outreach Corpsmember
Conservation Corps of MN & IA
Matthew Remer



Greater Blue Earth River Basin Alliance



April 25th 2018

Workload:

- Assisting Herman and Danielle with mapping assessed fields in the MAWQCP mapping tool and assessment tool
- Entering producer fields into Web Soil Survey to check for sensitive soils
- Assisting Herman with filling in soil and nutrient management information for applicant's fields
- Reading through the MAWQCP binder and other information about the program
- Attended producer meetings with Herman and Danielle

Projects and Events:

- Assisted Dave at the Children's Water Festival in Mankato on 3/7/2018
- Attended the GBERBA Technical/Executive meeting at the Armory in Mankato on 3/9/2018
- Attended 2 producer meetings with Herman in Brown County on 3/20/2018
- Performed 3 well readings in Cottonwood County on 3/21/2018
- Attended a Weed Meeting in Windom on 3/30
- Assisted Alex with a landowner meeting concerning Hurricane Lake on 4/5
- Assisted Hannah and Becky with the placement of bee boxes on 4/6
- Assisted Dave with prepping the tree barn for tree deliveries on 4/12 and 4/17

Upcoming Events:

- Tree Delivery and Handout Week 4/23-4/27
- GBERBA Tech in Mankato on 4/25
- MDA ACS Meeting on 4/25
- Conservation Corps Retreat 4/30- 5/2

Matthew Remer
Agriculture and Water Outreach Corpsmember
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Windom MN 56101

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COTTONWOOD COUNTY LOCAL LISTENING SESSION
WINDOM USDA SERVICE CENTER
Thursday April 26th, 2018 11:00am

AGENDA

- Introduction
- Purpose
- Review of county Surveys and Suggestions
- Prioritize Natural Resource Concerns in the County
- Purposed Program Change Recommendations
- Technical Practice Recommendations
- Open Discussion
- Adjourn

Stakeholders Prioritization

	Air Quality	Erosion Control	Forest Mgmt	Grazing	Water Resource Protection	Wildlife Habitat Improv.	Other			
Total ranked as resource concerns	4	20	3	3	23	14	0			

Total Amount of Survey's Returned: 35

Comments: SEE ATTACHED FOR COMMENTS FROM SURVEYS

Comments Received on Cottonwood County Resource Concern Survey

Local Work Group for EQIP 2019

April 26, 2018

Survey Question:

What do you feel are some of the road blocks to installing Practices? (e.g. funding, not enough staff, user friendly programs)

*Money

*Funding (9 total surveys listed this)

Comments on Funding:

1). "Funding is always a huge issue. Land owners do not always like to give up crop land."

2). "I am assuming funding is an issue. Either not enough provided annually or the payments are too low."

3). "Funding-sharing my concerns & having a mandated response."

*User Friendly Programs (listed twice)

*Complicated Programs

*Cost-share funding

*Lack of Education

*Proven viability of cover crops (too many failures vs. success stories)

* "I am in favor of common sense to work with landowners. I don't think it's right to mandate buffer strips & compensate via government programs. If state of MN wants this, should pay going rental rates, like (for corn & soybeans) that way landowner is compensated fairly while landowner still control his property rights instead of surrendering some of them via mandate. Read MN State Constitution!"

* "Water=the one thing not listed is tiling. Moves water off the land before it can get to aquifers."

* "In light of last weeks requests by our Governor to change the buffer enforcement laws, people do not trust gov't programs."

* "Landowners are not aware or encouraged enough to consider conservation alternatives. Availability of cost-share/incentives for buffer strips appear limited."

(over)

Survey Question:

What can the Cottonwood NRCS and SWCD do to serve you better?

(e.g. meetings, trainings, demonstrations, groups, field days)

*Demonstrations (listed twice)

*Field Days

*Trainings

* "Hold more meetings to help us with what qualifies as water problems that you will take care of."

* "Keeping CRP land programs going on land & water ways."

* "Being a city resident, you are doing a great job."

* "Cottonwood SWCD & NRCS does a fantastic job at these items-keep up the promotion, especially for cover crops & soil health."

* "Keep up the training & information given out to the public. Keeping public informed is very important."

* "I think you are doing what you can. Case studies by local producers sharing the economics & their experience is important & will carry more weight than 'Big Government' saying you 'should'."

* "Proactively advocate for permanent grass & water easements including other agency programs. Expiring CRP contracts should be a priority for outreach."

* "Look at the whole picture, everything you do raises the cost of food!"

Instructions:

For Fiscal Year 2019, Local Work Group (LWG) Chair will seek input and recommendations on all Financial Assistance and Easement Programs and activities within their county or work area.

DC's are asked to review their responsibilities and assist the Conservation Districts in convening the LWG. The LWGs are advisory in nature and NRCS uses their input and recommendation to identify conservation planning needs, prioritize resource concerns and develop ranking questions.

The LWG's input specific to prioritized resource concerns, proposed program changes and technical practice recommendations will be presented to the State Technical Committee for consideration.

This year, each LWG will identify their TOP FIVE resource concern causes. **NOTE the highest priority should be marked as 5, with the lowest priority as a 1.In other words, each LWG has 15 points they can assign and distribute to their top five selected Resource Concern Causes, but must identify five resource concern causes. Enter the points on the "priority resource concern tab" of this spreadsheets. Additionally, each LWG will select ONE 12 digit Priority Watershed and provide the HUC number on the Priority Resource Concern Tab. Do not select more than five resource concern causes and do not select more than one 12 digit HUC. See "Example Priority RCC" tab on this spreadsheet. Under this example, the LWG has selected Inadequate Habitat-fish & wildlife habitat degradation as their top priority, with Inadequate Production - Inadequate Feed & Forage as their second priority, etc.**

AREA OFFICE INSTRUCTIONS: Do not change any of the formulas or cells. Enter office names in the top row (under office 1, 2, ect). Then enter the top five selected priority resource concern causes under the applicable office and the worksheet will tally the total counts. Once all offices in the area have been completed send spreadsheet back to Nick.Vira@MN.usda.gog

Identify the top FIVE Resource Concerns Causes and Assign Points (1-5, with 5 being the highest priority)

Soil Erosion, sheet, rill, & wind	Water Quality Degradation - Pesticides transported to surface & ground waters	4	Livestock Production Limitation - Inadequate feed & forage
Soil Erosion, concentrated flow	Water Quality Degradation - Excess pathogens		Livestock Production Limitation - Inadequate livestock shelter
Soil Erosion, Excessive bank erosion from shorelines or water	Water Quality Degradation - Excessive salts in surface & ground water		Livestock Production - Inadequate livestock water
Soil Quality Degradation - Subsidence	Water Quality Degradation - Petroleum, heavy metals and other pollutants transported to receiving waters	3	Inefficient Energy Use - Equipment & facilities
Soil Quality Degradation - Compaction	Water Quality Degradation - Elevated water temperature		Inefficient Energy Use - Farming/ranching practices & field operations
Soil Quality Degradation - Organic matter depletion	Degraded Plant Condition - Undesirable plant productivity & health		Air Quality Impacts - Emissions of particulate matter - PM - and PM precursors
Soil Quality Degradation - Concentration of salts or other	Degraded Plant Condition - Inadequate structure and composition		Air Quality Impacts - Emissions of greenhouse gasses - GHGs
Excessive Water - Ponding, flooding, seasonal high water	Degraded Plant Condition - Excessive plant pest pressure	1	Air Quality Impacts - Emissions of ozone precursors
Insufficient Water - inefficient moisture management	Degraded Plant Condition - Wildfire hazard, excessive biomass accumulation		Air Quality Impacts - Objectionable odors
Insufficient Water - inefficient use of irrigation water	Inadequate Habitat for Fish & Wildlife - Habitat Degradation		
Water Quality Degradation - Excess nutrients in surface and		5	

Reason for Selections Above.

What are the top 2 Conservation Practices that need to be implemented and why?

What is the top priority Geographical Areas? (Identify only one 12 digit HUC)

Enter 12 Digit HUC number here. Ex: HUC 123456789101 & Enter Watershed Name

What are the roadblocks for producers to install conservation practices?

Resource Concerns – Quick Reference Guide

SOIL EROSION

- Sheet, Rill, & Wind Erosion
 - Sheet and Rill
 - Wind
- Concentrated Flow Erosion
 - Classic Gully
 - Ephemeral Erosion
- Excessive bank erosion from streams, shorelines or water conveyance channels

SOIL QUALITY DEGRADATION

- Subsidence
- Compaction
- Organic Matter Depletion
- Concentration of Salts and other Chemicals

EXCESS / INSUFFICIENT WATER

- Ponding, Flooding, Seasonal High Water Table, Seeps and Drifted Snow
 - Seep
 - Runoff, Flooding or Ponding
 - Seasonal high water table
 - Drifted Snow
- Inefficient Moisture Management
- Inefficient Use of Irrigation Water

WATER QUALITY DEGRADATION

- Excess nutrients in surface and ground waters
 - Ground water
 - Surface waters
- Pesticides transported to surface and ground waters
 - Ground waters
 - Surface waters
- Excess pathogens and chemicals from manure, bio-solids or compost applications in surface waters and ground waters
 - Surface Water
 - Groundwater

- Excessive Salts in surface waters and ground waters
 - Surface waters
 - Ground waters
- Petroleum, Heavy Metal and other pollutants transported to waters
 - Surface waters
 - Ground waters
- Excessive Sediment in surface waters
- Elevated Water Temperature

DEGRADED PLANT CONDITION

- Undesirable Plant Productivity and Health
- Inadequate Structure and Composition
- Excessive Plant Pest Pressure
- Wildfire Hazard, Excessive Biomass Accumulation

INADEQUATE HABITAT FOR FISH AND WILDLIFE

- Habitat Degradation
 - Food
 - Water
 - Cover/Shelter
 - Habitat Continuity / Space

LIVESTOCK PRODUCTION LIMITATION

- Inadequate Feed and Forage
- Inadequate Livestock Shelter
- Inadequate Livestock Water

AIR QUALITY IMPACTS

- Emissions of Particulate Matter (PM) and PM Precursors
- Emission of Greenhouse Gases (GHGs)
- Emissions of Ozone Precursors
- Objectionable Odors

INEFFICIENT ENERGY USE

- Equipment and Facilities
- Farming/Ranching Practices and Field Operations