

United States Department of Agriculture





Conservation Connections:

A Beginning Farmers Guide to Conservation Support, Funding & Resources

Natural Resources Conservation Service

nrcs.usda.gov/

Agenda



- Conservation Connections: Project overview
- Introductions: NRCS staff & Farmer Connectors
- NRCS overview
- Program & resource basics
- Farmers share NRCS experiences
- Upcoming Events
- Questions and Conversations with NRCS Staff





Conservation Connections 🕒 🛆 🔷 🔷 🔾

































Beginning Farmer and Rancher

Not operated a farm/ranch for more than 10 years

Limited Resource Farmer

- With direct or indirect gross farm sales not more than the current indexed value in each of the previous two years, and
- Who has a total household income at or below the national poverty level for a family of four, or less than 50 percent of county median household income in each of the previous two years.

Socially Disadvantaged

- American Indians or Alaskan Natives
- Asians \bigcirc
- Blacks or African Americans
- Native Hawaiians or other Pacific Islanders \bigcirc
- Hispanics 0

Veteran





Introductions: NRCS Agency Staff & Farmer Connectors



Moses Momanyi



Brett Olson



Sarah Lindblom



Noreen Thomas



Kathy Zeman



Dan Zimmerli



John Beaton

Natural Resources Conservation Service

nrcs.usda.gov/





What is the Natural Resources Conservation Service?

The Natural Resources
Conservation Service (NRCS) is
the primary federal agency
authorized to work on private
lands to help landowners protect
their soil, water and other natural
resources.





- · Technical agency of USDA
- Voluntary technical and financial assistance for farmers
 and landowners



In 1933, the Soil Erosion Service (SES) was established to fight soil and wind erosion, dust storms, and loss of cropland. In September 1935, the

wind erosion, dust storms, and loss of cropland. In September 1935, the name was changed to the Soil Conservation Service (SCS), and later became the Natural Resources Conservation Service in 1994.

Dr. Hugh Hammond Bennett, "father of Soil Conservation" and first Chief of SCS is pictured below with Herbert A. Flueck, Minnesota's first

State Conservationist for NRCS.



M.M. Keliher



H.A. Flueck





USDA

NRCS and **USDA**



In 1935, the Soil Conservation Service became an agency of USDA to work with farmers on new ways to farm that would save the soil.

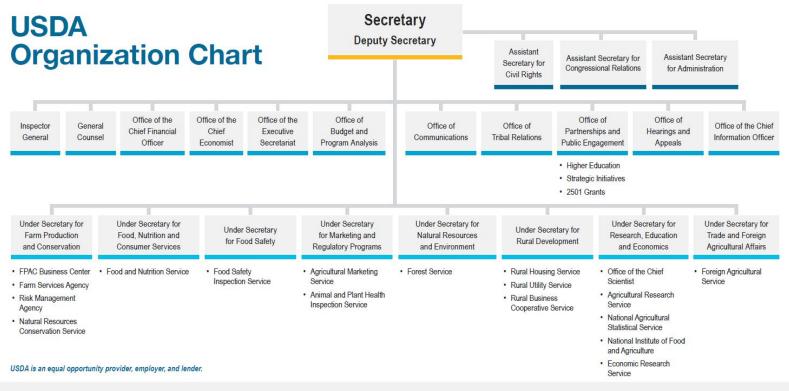
Civilian Conservation Corps camp in Coon Valley, Wisconsin





USDA

U.S. DEPARTMENT OF AGRICULTURE



UPDATED 10/01/20 This organization chart displays the names of USDA offices, agencies, and mission areas. Each office, agency, and mission area is placed within a cell connected by lines to show the structure and hierarchy (Under Secretary, Deputy Secretary, or Secretary) for which they fall under. An HTML version that lists <u>USDA Agencies and Offices</u> and <u>USDA Mission Areas</u> is also available on usda.gov. The <u>Secretary's Memorandum 1076-031</u> was signed August 12, 2019 effectuating a change to Rural Development.









Natural Resources Conservation Service





















Associate Chief (acting) **Ron Alvarado**



Regional Conservationist (Central) **Salvador Salinas**





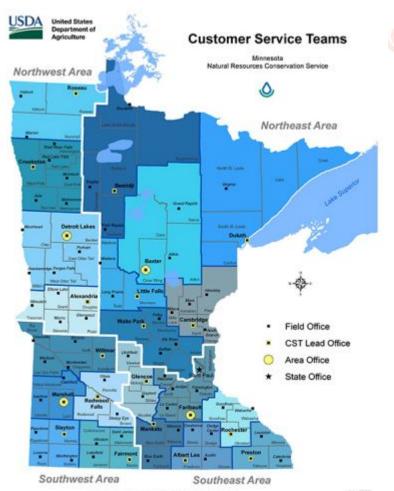


State Conservationist Minnesota Troy Daniell













NRCS MN



Glencoe Customer Service Team



Servicing McLeod, Meeker, Nicollet, & Sibley Counties





State Conservationist

Assistant State Conservationist-Field Operations

Customer Service

Team Lead

Soil

Conservationist





Soil

Conservation

Technician









TROY DANIELL



STEVEN COLE



JACOB STICH

Natural Resources Conservation Service

nrcs.usda.gov/



Farm Bill Legislation

Basis for most USDA and NRCS conservation programs and policies.





Current Farm BillEnacted on December 20, 2018



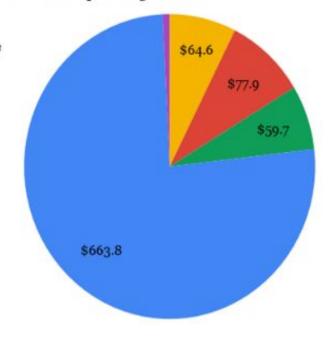






Projected 10 Year Farm Bill Spending in Billions

- Title I: Commodity Programs
- Title XI: Crop Insurance Subsidies
- Title II: Conservation Programs
- Title IV: Nutrition
- Everything Else: \$6.7B



Natural Resources Conservation Service

nrcs.usda.gov/





FY2020 Annual Report - MN



CSP GCI ACEP WRE RCPP EQIP RCPP CSP CSP EQIP PROGRAM Closed 27 62 223 611 CONTRACTS SIGNED 44 ACRES ENROLLED 1,076 486.9 5,010.5 45,445.7 190,558.40 119,291.80 \$96.905.00 \$1,612,672.66 \$1,548,756.77 \$6,638,803.00 \$22,605,385.10 \$27,543,383.76 \$ OBLIGATED

Natural Resources Conservation Service



FY2020 ANNUAL REPORT



NRCS Mission & Vision Statement









Our Vision: A world of clean and abundant water, healthy soils, resilient landscapes, and thriving agricultural communities through voluntary conservation.

















Priorities

- Streamline our processes and program delivery to best serve our customers.
- Better understand our customer needs and improve overall customer service.
- Increase internal mentoring, training opportunities, and experiences that collectively involve staff, customers and partners.
- Expand focused outreach efforts to increase agency awareness among populations of Young, Beginning, Small, Veteran and Historically Underserved Farmers and Ranchers.
- Elevate the importance of soil health across our agency's outreach and communication efforts to further enhance and promote the delivery of soil health principles to staff, customers and partners.







Soil health matters because:

- Healthy soils are high-performing, productive soils.
- Healthy soils can reduce production costs and improve profits.
- Healthy soils protect natural resources on and off the farm.
- Franklin Roosevelt's statement, "The nation that destroys its soil destroys itself," is as true today as it was 75 years ago.
- Healthy soils can reduce nutrient loading and sediment runoff, increase efficiencies, and improve pollinator and wildlife habitat.







The Five Principles Of Soil Health



SOIL COVER: Keep plant residues on the soil surface. Look down, what percentage of your soil is protected by residue? Erosion needs to be minimized before you can start building soil health.



LIMITED DISTURBANCE: Minimize tillage as much as possible. You will start building soil aggregates, pore spaces, soil biology, and organic matter.



LIVING ROOTS: Keep plants growing throughout the year to feed the soil. Cover crops can add carbon to the soil, providing a great food source for micro-organisms. Start small to find the best fit for your operation.



DIVERSITY: Try to mimic nature. Use cool and warm season grasses and broad leaf plants as much as possible, with three or more crops and cover crops in rotation. Grassland and cropland plant diversity increases soil and animal health.



INTEGRATING LIVESTOCK:





First Step: Connect with your local NRCS office

- Phone call or email to office
- Anyone can help you
- Site visit and walk your land





Program and Resource Basics

- **Financial and Technical Assistance**
- **Voluntary**
- Competitive
- Method of implementing is through contracts
- **Primarily on working lands**
- Practices must have conservation benefit, not just increased production production



Natural Conservation

nrcs.usda.gov



Environmental Quality Incentives Program

Overview/Goals

 Voluntary program that provides financial and technical assistance to agricultural producers to plan and implement conservation practices that improve soil, water, plant, animal, air and related natural resources on agricultural land and non-industrial private forestland.







- Addresses resource concerns on private lands through implementation of conservation practices
 - Technical assistance key
- Program involving the most conservation partners
- During Farm Bill 2018, NRCS MN is averaging over 950 new contracts with an average of \$26.8M over the last 2 yrs.



Natural Resources Conservation

EQIP: Common Activities related to:







- **Energy Energy Efficient Lighting System, Farmstead Energy Improvement & MORE**
- Pollinator & Wildlife Plantings Upland Wildlife Habitat Management, Conservation Cover & MORE
- Livestock & Grazing Watering Facilities, Prescribed Grazing, Fence, Forage Harvest Management, Forage and Biomass Planting & MORE Resources



Conservation

EQIP: Common Activities related to: (a) (b)









- Conservation Activity Plans (CAP) Energy, Nutrient, Pest, Pollinator, Organic Transition, Grazing, **Prescribed Burning & MORE**
- Soil Erosion

Reduced Tillage, Cover Crops, Contour Farming, Structural **Erosion Control & MORE**

Water Quality

Field borders, Filter Strips, Tree Plantings, & MORE

Soil Health & Plant Health

Cover Crops, Crop Rotations, Nutrient and Pest Management & MORE



Resources Conservation

Conservation Stewardship Program ()









- Rewards existing conservation on and requires additional conservation activities be adopted
 - Includes cropland, pasture, farmstead and forestland
- •5-year contracts with payments for benchmark conditions and practices and enhancements contracted
- •223 contracts covering 190,558 acres enrolled during FY2020



Natural Resources Conservation

Conservation Stewardship Program ()









- Program builds upon conservation practices available in EQIP
- Offers practices, enhancements and bundles of enhancements

Example

- Practice: Cover Crop
- Enhancement: Planting deep-rooted cover crop for soil health
- Bundle: Multiple Enhancements that complement each other.
- **Entire Operation Included**

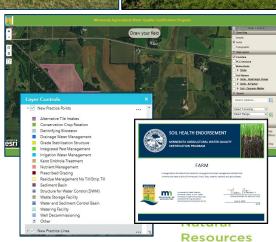




• MAWQCP offers producers:

- Recognition
- Financial/Technical assistance
- Regulatory certainty for 10 years
- Branding/Marketing opportunity
- Check-up/Validation for growers
- Originally Established with MOU between State of Minnesota, USDA and US-EPA
 - Developed by stakeholder committee
 - Authorizing statute
 - Certification awarded with a 10-year contract







Conservation Service



- 978 certified producers
- 687,123 certified acres
 - 1,999 new practices
 - 108,114 tons of soil saved per year
 - 38,081 tons of sediment reduced per year
 - 47,878 pounds of P prevented per year
 - As much as 49% reduction in nitrogen loss



- 23 Soil Health
- 20 Integrated Pest Management















Access Control

Alternative Drain Tile Intakes (rock, pattern, Agri Drain H20 Quality Intakes/no perforated risers)

Channel Bed Stabilization

Conservation Cover

Constructed Wetland

Contour Buffer Strips

Cover Crop

Critical Area Planting

Denitrifying Bioreactor

Diversion

Drainage Water Management

Feedlot/Wastewater Filter Strip

Fence

Field Border

Filter Strip

Forage and Biomass Planting

Grade Stabilization Structure

Grassed Waterway

Heavy Use Area Protection

Integrated Pest Management

Irrigation System, Sprinkler

Irrigation Water Management

Karst Sinkhole Treatment

Lined Waterway or Outlet

Mulching

Nutrient Management (plan development)

Obstruction Removal

Open Channel Pipeline Pond

Prescribed Grazing

Pumping Plant

Residue and Tillage Management - No-Till/ Strip Till/

Direct Seed

Residue and Tillage Management - Ridge Till

Riparian Forest Buffer

Roof Runoff Control (feedlot)

Sediment Basin

Spring Development

Stream Crossing

Streambank and Shoreline Protection

Strip cropping

Structure for Water Control

Subsurface Drain

Terrace

Trails and Walkways

Tree & Shrub Site Preparation

Underground Outlet

Vegetated Subsurface Drain Outlet (Saturated

Buffer)

Vegetative Barriers

Waste Storage Facility

Water & Sediment Control Basin

Water Well

Water Well Decommissioning

Watering Facility

Wetland Restoration









Farmer Share: John Beaton









Natural Resources Conservation Service

nrcs.usda.gov

Farmer Share: Kathy Zeman















Farmer Share: Noreen Thomas 🔾 🔾 🔾 🔾









	ton Thomas Co			PROPER DATA					
	Lee Thomas Fr 506 25th St N. I		d, ran S	0580		Program: Contract &	50P 6903	92192YY	9
Field No.:	Su You	vnehio:	101	Range		ot Hem No.:	20		
release the decision		-	_			_			
	educe Sroeion fr							ne & break pest o	
	prove Soil Mais				7.7			organic malter oo	
	nimbe Sali Con			-	7.17				
-	renses san Con	decine.		_		utrienta.	A celeanania.	by utilizing excess	SAVE .
		_			-				
eeding Method:		Dancoup	cristic tee	4	®tion incorpora	med Swed			
Souther	Window: T15	b 3/15		Ter	mination Hethod:	Harbirita			
	Applied: NA		-	-		ry Crop Flan	ted Say	beans	
Management 1	Waste will be con	recorns w	e caps	d is laster year	rodes as seeded folio	wing product is	nel directors en		1
Considerations: Tensinana cover orops					erial (*) require Atequa de for propose correcti	MAIN ROQUES	Λ.		
Charles and the Control of the Contr	STATE OF STREET	(5)(5)		STATE OF THE PARTY	THE RESIDENCE AND ADDRESS.				1
Single species only or	mos will generally	2708.08	10mm 2000	bomes than o	over once mines conta	ining multiple o	nop types.		1
					A				•
			,	fanned Cover	Crop Mixture				_
Cover Crop Spr	Rate	Deed of PLS	Acres	Percent of Full		Total PL9	Cree Type	Seading Depth (Inches)	Seeds po
Rye, Winter Care of	ocies s	of PLB Mec 83	Acres 29	Percent of Full Mate of PLS 42%	Rate of PLS false 30.30	8m 664	Cree Type	0.75-1.5	5g7t
Rye, Writer Core at Lendls*	ocies s	67 PLB 5/80 83 75	Acres 29 39	Percent of Full Malo of PLR 42% 33%	Rate of PLS ficted 33.33 22.60	8m 664 480	CB CB	0.75 - 1.5 1 - 1.5	5g7t
Rye, Winter Care of	ocies s	of PLB Mec 83	Acres 29	Percent of Full Mate of PLS 42%	Rate of PLS false 30.30	8m 664	CG	0.75-1.5	5 g/Yt 13.84 7.75 2.34 0.00
Rye, Writer Core at Lendls*	ocies s	67 PLB 5/80 83 75	Acres 29 39	Percent of Full Malo of PLR 42% 33%	Rate of PLS ficted 33.33 22.60	8m 664 480	CB CB	0.75 - 1.5 1 - 1.6 0.5 - 0.75	5-g/Ft 13-8H 7-75 2-54 2-00 0-00
Rye, Writer Core at Lendls*	ocies s	67 PLB 50ec 83 75 6	Acres 29 39	Percent of Full Malo of PLR 42% 33%	Rate of PLS ficted 33.33 22.60	8m 664 480	CB CB	0.75-1.5 1-1.6 0.5-0.75	5gFt 13.84 7.75 2.54 0.00 0.00 0.00
Rye, Writer Core at Lendls*	ocies s	67 PLB 50ec 83 75 6	Acres 29 39	Percent of Full Malo of PLR 42% 33%	Rate of PLS ficted 33.33 22.60	8m 664 480	CB CB	0.75-1.5 1-1.6 0.5-0.75	5g71 13.84 7.75 2.34 0.00 0.00 0.00 0.00
Rye, Writer Core at Lendls*	ocies s	67 PLB 50ec 83 75 6	Acres 29 39	Percent of Full Malo of PLR 42% 33%	Rate of PLS ficted 33.33 22.60	8m 664 480	CB CB	0.75-1.5 1-1.6 0.5-0.75	5971 13.84 7.75 2.34 2.00 0.00 0.00 0.00 0.00 0.00
Rye, Writer Core at Lendls*	ocies s	67 PLB 50ec 83 75 6	Acres 29 39	Percent of Full Malo of PLR 42% 33%	Rate of PLS ficted 33.33 22.60	8m 664 480	CB CB	0.75-1.5 1-1.6 0.5-0.75	5g71 13.84 7.75 2.34 0.00 0.00 0.00 0.00
Rye, Writer Core at Lendls*	ocies s	67 PLB 50ec 83 75 6	Acres 29 39	Percent of Full Malo of PLR 42% 33%	Rate of PLS ficted 33.33 22.60	8m 664 480	CB CB	0.75-1.5 1-1.6 0.5-0.75	5971 13.84 7.75 2.34 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.0
Rye, Writer Core at Lendls*	ocies s	67 PLB 50ec 83 75 6	Acres 29 39	Percent of Full Malo of PLR 42% 33%	Rate of PLS ficted 33.33 22.60	8m 664 480	CG CB CB	0.75-1.5 1-1.6 0.5-0.75	5g71 13.84 7.75 2.34 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0
Rye, Writer Core at Lendls*	ocies s	67 PLB 50ec 83 75 6	Acres 29 39	Percent of Full Malo of PLR 42% 33%	Rate of PLS ficted 33.33 22.60	8m 664 480	CG CB CB	0.75-1.5 1-1.6 0.5-0.75	5g71 13.64 7.75 2.54 1.00 2.00 2.00 2.00 2.00 0.00 0.00 0.00
Rye, Writer Core at Lendls*	ocies s	67 PLB 50ec 83 75 6	Acres 29 39	Percent of Full Malo of PLR 42% 33%	Rate of PLS ficted 33.33 22.60	8m 664 480	CG CB CB	0.75-1.5 1-1.6 0.5-0.75	5g71 13.64 7.75 2.54 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.0
Rye, Writer Core at Lendls*	ocies s	67 PLB 50ec 83 75 6	Acres 29 39	Percent of Full Malo of PLR 42% 33%	Rate of PLS ficted 33.33 22.60	8m 664 480	CG CB CB	0.75-1.5 1-1.6 0.5-0.75	5g71 13.84 7.75 2.34 1.99 0.00 0.00 0.00 0.00 0.00 0.00 0.00
Rye, Writer Core at Lendls*	ocies s	67 PLB 50ec 83 75 6	Acres 29 39	Percent of Full Malo of PLR 42% 33%	Rate of PLS ficted 33.33 22.60	8m 664 480	CG CB CB	0:cheq 0:75-1:5 1-1:5 0:5-0:75	5g71 13.84 7.75 2.55 1.93 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0
Rye, Writer Core at Lendls*	ocies s	67 PLB 50ec 83 75 6	Acres 29 39	Percent of Full Malo of PLR 42% 33%	Rate of PLS ficted 33.33 22.60	8m 664 480	CG CB CB	0:cheq 0:75-1:5 1-1:5 0:5-0:75	5g71 13.84 7.75 2.34 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0
Rye, Writer Core at Lendls*	ocies s	el PLS Mes 83 76 6	Acres 29 39	Percent of Full Malo of PLR 42% 33%	Rate of PLS ficted 33.33 22.60	8m 664 480	CG CB CB 	0:dest 0:75-15 1-10 0:5-075	5gT1 13.84 7 75 2 34 1 93 2 30 2 30 2 30 2 30 2 30 3 30 3 30 3 3
Rye, Writer Core at Lendls*	ocies s	67 PLB 50ec 83 75 6	Acres 29 39	Percent of Full Malo of PLR 42% 33%	Rate of PLS ficted 33.33 22.60	8m 664 480	CG CB CB	0:0000 0:75-15 1-15 0:5-0:75	5gT1 13.84 7.75 2.34 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0
Rye, Writer Core at Lendls*	ocies s	el PLS Mes 83 76 6	Acres 29 39	Percent of Full Malo of PLR 42% 33%	Rate of PLS ficted 33.33 22.60	8xe 664 645 600	GG	0:dest 0:75-15 1-10 0:5-075	5gT1 13.84 7.75 2.54 1.99 4.99 4.99 4.99 4.99 4.99 4.99 4.9



Upcoming Events





- Economics of Silvopasture
- Agriculture in the Metro
- Farm to Rural Grocery
- Farm Side Hustles
- Many More

March 9-11: Midwest Soil Health Summit

- Gabe Brown: Gab with Gabe
- Sara Keough: Soil Health and Human Health
- Jared Luhman, Sarah Lindblom, Doug Voss & Kent Solberg: Practical Applications for Soil Health



Questions?



Put your email in the chat box if you are would like to have a local connector reach out to you!







United States Department of Agriculture

