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Contact us:

Phone (701) 772-2321 extension 3
www.gfscd.org

Grand Forks County Soil Conservation District 2018 Fall Newsletter

The Jodock Family-2018 Achievement Award Winners

The Grand Forks County Soil Conservation District is proud to announce the Jodock family as our 2018 Conservation Achievement Award winners. Karl, Alyssa, and their son, Soren, along with Karl's parents, Brian and Alane, own and operate a 4,400 acre farm southwest of Northwood, ND.

Karl's great-great grandfather homesteaded the current Jodock farmstead in the 1880's.

Brian took over the farming operation in 1975. Years later, Karl rented farmland from his grandmother and uncle while in high school and continued farming through college. Karl achieved his master's degree in agriculture economics from NDSU while working part-time for Progressive Ag and farming in the summers.



The Jodocks grow wheat, barley, edible beans, soybeans, and corn.

They began no-tilling highly erodible land in 2006 and currently have over 1,500 acres that are no-tilled. The Jodocks continue to increase their no-till acres every year. Karl is building on existing conservation efforts through enrollment in the Conservation Stewardship Program. CSP is helping the Jodocks meet their conservation goals with enhancements including: no-till to increase soil health, cover crops to minimize compaction, nutrient management to increase uptake efficiency and reduce nutrient runoff, and conservation crop rotation to reduce their concentration of salts.



Karl feels that some of the most significant changes in farming include the advancements of herbicides and equipment. Equipment used for seeding and spraying is larger and more practical, while also allowing for variable rate technology to increase its efficiency. Congratulations goes out to the Jodock family on this great accomplishment! We look forward to continued collaboration in the future!

ATTENTION LANDOWNERS

By Kevin Gietzen
NRCS District Conservationist

One thing that holds true with many producers in Grand Forks County is that often, the land that they are farming is not owned by them or their family. That land is likely owned by someone such who is not actively involved in the farm or may not even live in the region.

For decades, NRCS has been working with farmers in the area to increase soil health. One hurdle that we run into is the fact that many landowners still feel that the way people farmed in the past is how it needs to be done today. Landowners may not be aware of the tools we have at our disposal in today's agricultural world. No-till air seeders, which make it possible to farm ground that has been minimally tilled or not tilled at all, are now common on the landscape. Cover crops are not so scary to our producers anymore. Thousands of acres of cover crops are being planted in this area on a regular basis, and our resources/producers are seeing the benefits. We are learning more as each year passes, and we have seen that no-till and cover cropping are two practices that can and are building soils here in the Red River Valley.



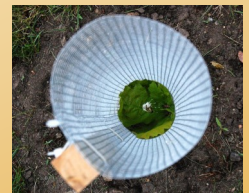
The winter of 2017/18 was one more reminder that we have a long way to go in our battle with wind erosion. The soil that ended up in the ditches stuck out like, well... black soil on a snowbank. The amount of precious, nutrient-dense topsoil that we are losing into our ditches and streams should be causing a major concern for all of us.

If you are a landowner and would like to know more about how we can help you and your operator(s) build healthier soils, give us a call at the Grand Forks Service Center. We would be more than happy to introduce you to several proven conservation practices. I challenge you to take a closer look at your land and ask yourself "is my land truly going to be left better than it was found?" The best time to make positive change is now.

USDA is an equal opportunity provider, employer and lender.

Fall Tree Care

Fall is a great time of year to get your tree orders in. Even though our deadline is in February, orders are sent to the nurseries months before then. Certain species tend to run out early, so early ordering can be essential. We offer half price on replacement trees for first year plantings if you plant them yourself.



Now is also a great time to check your fabric and tubes to make sure trees are in good shape going into winter. If fabric is too close to the trunk, it can cause girdling and ultimately kill the tree. Over the summer, tubes may have tipped over, or trees, especially Princeton Elm, may have caught the edge of the tube and started curling. After leaf drop, you may have to pull your tubes off to clean out leaf matter that is stuck. Budding trees have a hard time getting sunlight if the leaves from the last year are plugging the tube.

If you have rabbit or deer problems, you can apply Plantskydd deterrent (available at our office) in late fall and early spring.

2018 FIELD TOURS



Jay Fuhrer demonstrating water infiltration rates and talking about the 5 principles soil health.



Jay Fuhrer - Soil Health Specialist

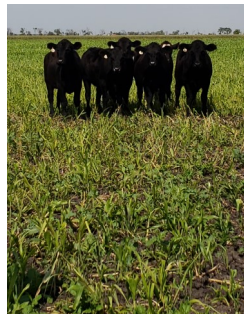
Local farmers and staff from NRCS/SCD got together for a one-day field tour to discuss soil health. Simulations on wind erosion and water infiltration rates were made with discussion on the 5 principles of soil health. Local farmers spoke about their operations and the changes they are making to improve soil health on their land.



Nick Vinje Cover Crop Field Tour

Staff from GFSCD attended a field tour lead by Nick Vinje and Cass Co. SCD/ NRCS. Nick spoke about the challenges that came along with transitioning to no-till across most of his operation. Nick has tried a variety of multi-species cover crop mixes on his farmland and multi-species covers with his cattle operation. He believes in trying new things and being observant and willing to adapt to change. He was very impressed with his infiltration rates on his ground when compared to conventionally tilled fields. He said, "My boots don't get muddy anymore." He is a strong believer in ryegrass in all his mixes within his crop rotations.

Nick has a rotation and a system that is working for him. He said it takes patience during the transition to this type of system, but the benefits are worth the effort.



Soybeans planted into high residue demonstrating great infiltration rates and soil health.



Multi-species mix planted for rotational cell grazing on Vinje farm.

Regional Conservation Partnership Program Field Tour

We're taking applications for 2019 funding! Contact the Grand Forks Field Office to set up a site visit today!

The first field tour for the Regional Conservation Partnership Program (RCPP) was held on Aug 7, 2018. This tour gave producers and partner agencies and organizations an opportunity to see firsthand the effects of installing conservation practices. The first stop was to Dale Benson's field of soybeans in rye cover crop. Dale will be adopting no-tillage residue management starting in 2019. Ben Draxton is currently installing pipeline and tanks to facilitate rotational grazing management. Along with NRCS assisted cross-fence, Ben is installing perimeter fence with assistance from Audubon Dakota and USFWS.



- Funding: 2018 to 2022
- Provides financial & technical assistance to install conservation practices
- Partners: USDA-NRCS, Grand Forks County SCD, UND, Audubon Dakota, ND Natural Resources Trust
- Practices: Conservation Cover, Forage Harvest Management, Forage & Biomass Planting, Cover Crop, Grazing Management, Cross Fence, Pipeline, Watering Facility, Water Pump, Well, No-tillage and Reduced Tillage Residue Management



ECO-ED CAMP PROVIDES OUTDOOR EDUCATION



The 19th year of Eco-Ed camps was held at Turtle River State Park. This year was a 6-day event that reached 550, 7th grade students. Students had hands-on learning opportunities on subjects such as soils, wetlands, prairies, wildlife, water quality, and forestry. They were out at the park when the leaves were just starting to turn, and without any rain for 6 days, it was an excellent time to be at the Park.

Schools attending included: Valley Middle School, Schroeder Middle School, Thompson, Home School, Riverside Christian, Northwood, Midway, and Hatton. Prior to the event, students were asked to take a pre-test. After the event, students took a post-test to gauge their progress. Each year, the event shows an improvement in test scores!

The camps success is based on the instructors teaching each class. The camp would not be possible without the support of these individuals and the organizations that allow their participation. THANK YOU to all who assisted at the camp.

Presenters included:

- Forestry Session: Erika Kolbow, Lesley Lubenow, Liz Mars, and Josh Wolk.
- Soils: Lorilie Atkinson, Sam Haugen, and Naeem Kalwar.
- Wetlands: Amanda Brinkman Parker, Paul Bjorg, Josh Moe, Jim Job, and Erika Kolbow.
- Water Quality/Rivers: Schroeder Schools, Ryan Thorson, and Erika Kolbow.
- Wildlife: UND Graduate Students, Jeff Miller, and Zach Anderson.
- Prairies: Zach Anderson and Justin Parks.



ENGLISH COULEE WATERSHED UPDATE

The English Coulee Watershed project has funding available for management practices to improve water quality within the English Coulee Watershed. Funding is available for practices including: Cover Crops, Septic Systems, Streambank Stabilization, Nutrient Management (Windbreak Panels), Riparian Tree Plantings, Field Boarders, and Grazing Assistance.

The most recently adopted management practice is Septic System Renovation. Failing septic systems can be harmful to water quality as they contaminate the water with excess nutrients and infectious bacteria. If eligible, homeowners will be assisted with cost share to update their system.

Eligibility criteria include:

1. Septic must be failing to operate efficiently and be determined detrimental to water quality.
2. System must have been installed prior to January 1, 2000.
3. Site must be located within one mile of the English Coulee or tributary of the English Coulee.



All management practices will receive 60% cost share from 319 grant funding, meaning our program will cover 60% of the total cost of the practice. Please pass on the word with your neighbors and landowners of Grand Forks County. In the future, we will be conducting a landowner survey to gauge the interest in such practices within the Turtle River Watershed. This will help direct future plans for the 319 program.

If there any questions on the English Coulee Watershed project, please contact Justin Parks with the Grand Forks County Soil Conservation District. Phone: 701-772-2321.



English Coulee during low flow



Panels used for windbreaks

Tree Order Form 2019					
\$2 each #	Shrubs (Minimum 5 per variety)	\$2 ea. #	Shrubs (Minimum 5 per variety)	\$2 ea. #	Med. to Lg. Trees (Minimum 5 per variety)
	Buffaloberry		Seaberry		Boxelder
	Caragana		Silverberry		Buckeye (Ohio)
	Cherry (Nanking)		Sumac (Smooth)		Cottonwood (Native)
	Cherry (Sand)		Willow (Sandbar)		Cottonwood (Male)
	Chokeberry (Black)		Willow, Flame		Cottonwood (Siouxland)
	Chokeberry (Common)		Winterberry, Euonymus		Green Ash
	Cotoneaster	\$2 ea. #	Small Trees to Med. (Minimum 5 per variety)		Elm (Siberian)
	Cranberry (Highbush)		Apricot (Hardy)		Hackberry (Common)
	Currant (Golden)		Crabapple (Red Splendor)		Linden (American)
	Dogwood (Redosier)		Crabapple (Siberian)		Linden (Littleleaf)
	Elderberry		Hawthorn (Arnold)		Maple (Freeman)
	False Indigo		Maple (Amur)		Maple (Silver)
	Honeysuckle (Freedom)		Olive (Russian)		Maple (Red)
	Juneberry		Pear (Ussurian)		Bur Oak
	Lilac (Common)		Plum (Native)		Bur-Gambel Oak
	Lilac (Late)		Birch (Paper)		Poplar (Hybrid)
	Rose (Woods)				Quaking Aspen
					Walnut (Black)
					Willow (Golden)
					Willow (Laurel)
\$2 each #	Conifers/Evergreens (Minimum 5 per variety)	\$2 ea. #	Conifers/Evergreens (Minimum 5 per variety)	\$5 each (Minimum 5 per variety)	
	Cedar (Eastern Red)		Spruce (Black Hills)		Princeton Elm
	Juniper (Rocky Mountain)		Spruce (Colorado Blue)		Boyer Raspberry
	Pine (Ponderosa)		Spruce (Meyers)	\$5 each	No Minimum
	Pine (Scotch)	\$14 ea	2 Gallon Potted Spruce		Prairie Yellow Apple 2-3'
	Siberian Larch		Spruce (Black Hills)		
			Spruce (Colorado Blue)		
Quantity				Deadline for tree orders is February 22, 2019.	
0	Regular stock trees	x	\$ 2.00	\$	-
0	Raspberry/Prtn Elm/Apple	x	\$ 5.00	\$	-
0	2 Gallon Potted Spruce	x	\$ 14.00	\$	-
	Bundle Discount	x	\$ 10.00	\$	-
	3'x3' Fabric Mat	x	\$ 2.00	\$	-
	4' Tree Tubes	x	\$ 3.50	\$	-
	Stakes	x	\$ 1.00	\$	-
	Fabric per LF	x	\$ 1.00	\$	-
	1 qt. Plantskydd	x	\$ 22.00	\$	-
	1.32 gallon Plantskydd	x	\$ 55.00	\$	-
	1 lb Plantskydd concentrate	x	\$ 25.00	\$	-
	2.2 lb Plantskydd concentra	x	\$ 40.00	\$	-
	Plantskydd-Granular for ga	x	\$ 15.00	\$	-
Subtotal				\$	-
Sales Tax (Total x .0725)				\$	-
Balance Due (100% required on orders < \$500.00)					
Deposit (50% required on orders ≥ \$500.00)					
Balance Due (\$0.00 if paid in full)				\$	-
(Enter Last name below)				(Enter First name below)	
Address		City		ST	Zip
				ND	
Bundle discount is offered on all trees except Princeton, Boyer Raspberry and Apple trees. By ordering in quantities of 25 (25, 50, 75, 100, etc.) of the SAME tree, you get a discounted price of \$40.00 per bundle, saving you \$10.00. No minimum on potted spruce or apple trees.					

TREE DESCRIPTIONS FOR SPRING 2019 LIST

Mature Height	Species	Description	Salinity Tolerance	Drought Tolerance	Water Tolerance	Edible Fruit	Comments
6'-14'	Buffaloberry	Shrub-Lg.	Good	Fair	Poor	Yes	Silver leaf, thorns, fruit for jelly
6'-14'	Caragana	Shrub-Lg.	Fair	Fair	Poor	No	Bright yellow May flowers
6'-10'	Cherry, Nanking	Shrub-Med.	Fair	Fair	Poor	Yes	Fast growing, short lived, pink flowers
3'-6'	Cherry, Sand	Shrub-Sm.	Fair	Fair	Poor	Yes	White flowers-fruit makes good jelly
3'-6'	Chokeberry, Black	Shrub-Sm.	Fair	Good	Good	Yes	Green foliage turns red/purple in fall
12'-25'	Chokecherry, Common	Shrub-Lg.	Fair	Fair	Good	Yes	Fruit used in jams, jellies, wines Seeds, branches, and leaves are toxic
4'-8'	Cotoneaster	Shrub-Med	Poor	Poor	Fair	Wildlife	Pink flowers, berries not edible
15'	Cranberry, Highbush	Shrub-Lg.	Poor	Fair	Fair	Yes	White flowers, moist well-drained sites
3'-6'	Currant, Golden	Shrub-Sm.	Fair	Fair	Poor	Yes	Yellow flowers, red leaves in fall
7'-10'	Dogwood, Redosier	Shrub-Med.	Fair	Fair	Good	Wildlife	White flowers and red bark
6'-12'	Elderberry	Shrub-Lg.	Poor	Fair	Fair	Yes	Native, white flowers, full sun
10'-15'	Euonymus Winterberry	Shrub-Lg.	Poor	Poor	Fair	No	Pink fruit is toxic if eaten Pink leaves in fall; Not very cold-hardy
8'-12'	False Indigo	Shrub-Med.	Good	Poor	Good	No	Fibrous deep roots good for river banks
6'-9'	Honeysuckle, Freedom	Shrub-Med.	Good	Fair	Fair	Wildlife	Adaptable to a wide variety of soils
6'-15'	Juneberry	Shrub-Lg.	Fair	Fair	Poor	Yes	Native, berries for canning and baking
8'-12'	Lilac, Common	Shrub-Lg.	Fair	Fair	Poor	No	Suckers, fragrant purple flowers
6'-10'	Lilac, Late	Shrub-Med.	Fair	Fair	Poor	No	No suckers, later blooming
3'-5'	Rose, Woods	Shrub-Sm.	Fair	Fair	Fair	Yes	Pink flowers, small thorns
10'-15'	Seaberry/ Sea-Buckthorn	Shrub-Med.	Good	Good	Good	Yes	Fair number of thorns Berries have many different uses
5'-9'	Silverberry	Shrub-Med.	Good	Good	Good	Wildlife	Silver green foliage, suckers profusely
5'-15'	Sumac, Smooth	Shrub-Lg.	Good	Fair	Fair	Yes	Brilliant red leaves and berries in fall
5'-10'	Willow, Sandbar	Shrub-Med.	Poor	Poor	Good	No	Suckering, fast growing, riparian use
10'-15'	Apricot, Hardy	Small Tree	Poor	Poor	Fair	Yes	Fruit is good for making jam
15'-20'	Crabapple, Red Splendor	Small Tree	Poor	Fair	Poor	Yes	Pink flowers, green to red foliage, wildlife food
15'-25'	Crabapple, Siberian	Small Tree	Poor	Fair	Poor	Yes	White Flowers, fruit stays on all winter
15'-20'	Hawthorn, Arnold	Small Tree	Good	Fair	Fair	Yes	White flowers, red fruit, thorny stems
15'-20'	Maple, Amur	Small Tree	Poor	Fair	Poor	No	Red foliage in the fall
15'-25'	Olive, Russian	Small Tree	Good	Good	Fair	Wildlife	Silvery leaves with thorns
15'-25'	Pear, Ussurian	Small Tree	Poor	Fair	Poor	Yes	White flowers, small fruit
8'-10'	Plum, Native	Small Tree	Poor	Fair	Poor	Yes	White flowers, suckering
15'-20'	Willow, Flame	Small Tree	Fair	Poor-Fair	Good	No	Orange/Red branches all year

ALL the varieties on this page are available in bundles of 25 and eligible for the **bundle sale at \$40.00 per bundle**

Minimum quantity per variety is 5 and sold for \$2.00 each.

Proper site preparation and maintenance is the best insurance of tree survival.

All conservation trees are sold with no guarantee or warranty.

TREE DESCRIPTIONS FOR SPRING 2019 LIST

Mature Height	Species	Description	Salinity Tolerance	Drought Tolerance	Water Tolerance	Edible Fruit	Comments
25'-60'	Aspen, Quaking	Med.-Tall	Fair	Poor	Good	No	Browsed by deer; Yellow fall leaves
30'-60'	Birch, Paper	Med.-Tall	Fair	Poor	Good	No	Needs well drained soils
30'-50'	Boxelder	Medium	Fair	Good	Fair	No	Fast growth on clay or heavy soil
20'-40'	Buckeye, Ohio	Medium	Fair	Poor	Fair	Wildlife	Broad canopy, good fall colors
50'-100'	Cottonwood, Native	Tall	Fair	Fair	Good	No	Large fast growing, long lived (cotton)
50'-100'	Cottonwood, Male	Tall	Fair	Fair	Good	No	Same as cottonwood without cotton
50'-70'	Cottonwood, Siouland	Tall	Fair	Fair	Good	No	Fast growing, hybrid, without seed, shorter lived (25-30 years)
25'-50'	Elm, Siberian	Medium	Good	Good	Fair	No	Fast growing, produces a lot of seed
35'-65'	Green Ash	Med.-Tall	Good	Good	Fair	No	Host for the Emerald Ash Borer.
40'-60'	Hackberry	Med.-Tall	Fair	Fair	Fair	No	Slower growing, good for wildlife
50'-70'	Linden, American	Large	Poor	Poor	Good	No	Shade tolerant, moist, well-drained soil
35'-45'	Linden, Little leaf	Medium	Poor	Poor	Good	No	Dense leaves, good canopy
40'-60'	Maple, Freeman	Med.-Tall	Poor	Poor	Fair	No	Soil specific, needs iron, red fall color
40'-65'	Maple, Silver	Med.-Tall	Poor	Poor	Fair	No	Fast growing, leaves have silver underside
50'	Maple, Red	Med.-Tall	Poor	Poor	Fair	No	Fast growing with red flowers in the Spring and different shades in Fall.
40'-70'	Oak, Bur	Med.-Tall	Fair	Fair	Fair	Wildlife	Native, long lived, produces acorns
40'	Oak, Bur-Gambel	Medium	Fair	Good	Fair	Wildlife	Hybrid between Bur & Gambel Oaks Early acorn producer (3-6 years old)
40'-60'	Poplar, Hybrid	Tall	Fair	Fair	Fair	No	Rapid growth, lives 20-30 years
20'-30'	Walnut, Black	Med.-Tall	Poor	Fair	Fair	Wildlife	Needs shelter from wind to establish
40'-60'	Willow, Golden	Med.-Tall	Fair	Poor-Fair	Good	No	Good winter color, hanging branches
25'-40'	Willow, Laurel	Small-Med.	Poor	Poor-Fair	Good	No	Dark, glossy leaves

Conifers/Evergreens

30'-45'	Cedar, Eastern Red	Medium	Fair	Fair	Fair	No	Good wildlife cover, browns in winter
30'-60'	Larch, Siberian	Med. - Tall	Fair	Fair	Good	No	Deciduous conifer; yellow fall color
12'-15'	Juniper, Rocky Mtn.	Small	Fair	Good	Poor	No	Good for wildlife planting
50'-70'	Pine, Ponderosa	Tall	Fair-Poor	Good	Fair	No	Fast growing conifer with long needles
25'-50'	Pine, Scotch	Medium	Poor	Good	Poor	No	Fast growing conifer, narrow needles
30'-60'	Spruce, Black Hills	Med. - Tall	Poor	Good	Poor	No	Dense needled evergreen
30'-60'	Spruce, Colorado Blue	Med. - Tall	Poor	Good	Poor	No	Needles can be dark green to blue
40'	Spruce, Meyers	Med. - Tall	Poor	Good	Poor	No	More resistant to pests & disease

The trees above are conservation grade, 6"-24" bare root stock and are eligible for the **bundle sale at \$40.00/ bundle (1 bundle = 25 trees).**

Minimum quantity per variety is 5 and sold for \$2.00 each

Princeton Elms and Raspberries are \$5.00 per tree with a min. purchase of 5 per variety

60'-80'	Elm, Princeton	Tall	Good	Good	Good	No	Resistant to Dutch Elm Disease
3'-6'	Raspberries, Boyne	Small Shrub	Fair	Good	Fair	Yes	Suckering, resistant to disease
12'-25'	Apple, Prairie Yellow	Medium Tree	Fair	Fair	Fair	Yes	Grown from seed; sweet tasting fruit; needs another apple to pollinate

Grand Forks County Soil Conservation District
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Grand Forks ND58203

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February 22nd: Deadline for Tree Orders!

Zero Till Garden

Thanks to the partnership between the Grand Forks County Soil Conservation District, USDA-NRCS, NDSU Extension Service and the Grand Forks Public Health, the Zero Till Community Garden had a very successful year! From June 26 to Sep 26, we've harvested approximately 370 pounds of produce, including cucumbers, watermelon, peppers, cabbage, and tomatoes. Produce was donated to the Salvation Army Food Bank and the Northlands Rescue Mission.



Phone: 701-772-2321 Ext 3

Webpage: www.gfscd.org

November 11th-Veteran's Day (Office Closed Monday the 10th)

November 14th-SCD Board Meeting

November 18-20-NDASCD Annual Convention in Bismarck

November 22-Thanksgiving (Office closed)

December 12-Board meeting

December 25-Christmas (Office closed)

January 1-New Years Day (Office closed)



Mission:

To provide local leadership in the conservation of soil, water, and related natural resources through partnerships with individuals, businesses, organizations and government.

GF County SCD programs are available to all residence of Grand Forks County regardless of race, color, religion, sex, national origin, age, sexual orientation, mental or physical handicap. "The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion sexual orientation, genetic information, political beliefs, reprisal, or because all or part of an individual's income is derived from any public assistance program. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD). To file a complaint of discrimination write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410 or call (800) 795-3272 (voice) or (202) 720-6382 (TDD). USDA is an equal opportunity provider and employer."