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ANNUAL 2017

REPORT

FAYETTE SOIL & WATER CONSERVATION

Mike & Pat Finnegan
2017 FCSW
Conservation Farmers of the Year

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precious, and
you only get
one chance to
take care of it."**

Mike Finnegan

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FayetteSoilandWaterConservationDistrict.org

**Ephemeral
Gullies**

"Fix it, Don't Disc it"
- Page 25

Finnegans win conservation award

By CHRIS DEBACK

cdeback@thefayettecountyunion.com

Michael and Pat Finnegan were recently announced as the 2017 Fayette County Soil and Water Conservation District winner for conservation practices on their family farm.

"Pat and I were very grateful to the Fayette County Soil and Water Conservation District for the award it gave us and to the Fayette County Farm Bureau for hosting a wonderful evening," Finnegan said of the awards ceremony. "We are truly honored to receive the award."

Their farm, named Mayo Knock, is located approximately seven miles north of Clermont. Finnegan called the farm Mayo Knock because Mayo is the county in Ireland from which his Finnegan ancestors come, and "Knock" means "hill" in Gaelic.

Conservation has always been very important to the 86-year-old man. He has employed a number of different conservation techniques, including buffer strips and terraces, over his farming career.

"Land is very precious; you only get one chance to take care of it," Finnegan said. "It takes 1,000 years to build an inch of topsoil. We lose a lot of topsoil every year due to careless erosion. We crop hard in this country, and corn is a big plant, which can have an effect on soil."

His farming career began in 1953, when he bought land from his father, John, after an honorable discharge from the military. That same year, Mike met his wife, Pat. He married her two years later in 1955.

"I was not as intense as I am today, because when I started farming I didn't have any soil knowledge, I really didn't," he said. "I didn't know the soil types, I didn't understand percentages of slope. I didn't understand the intense farming practices that took place which were violent to the nature of the soil. You know that you can lose an inch of topsoil in about one night with heavy rain and bad conservation practices."

Finnegan noted that he farmed corn and hay and owned a milking operation for 30 years. When no one in the family wanted to help take over the operation, he sold his cows in favor of a beef herd. After 15 years with a beef herd, he sold that off, as well. In 1986, he moved from his mother's home from the farm into Clermont and started a feeder pig operation. He turned around and sold that when he was ready to retire in the mid-1990s.

Today, Finnegan owns 320 acres of land. He said that he would call himself a conservationist. He has planted thousands of trees over the years. In fact, he said anywhere he could plant a tree that wasn't a field, he has. In 2017 alone, he has already planted 300 trees.

He also has 200 acres of CRP, 130 acres of which he seeded with native prairie grass in 2016. The other 70 acres is wildlife habitat where he planted his trees.

"The prairie grass is beautiful," he said. "It is the grass that was here before the settlers came. I think there were 18 different species of grass in that native grass seed. There are a lot of wildflowers, and the grass has

Michael and Pat Finnegan were recently announced as the 2017 Fayette County Soil and Water Conservation District winners for the conservation practices on their family farm, Mayo Knock. Michael and Pat have 200 acres in CRP, 130 of which are native prairie grass that was planted in 2016. (Chris DeBack photo)

These coneflowers are an example of the different wildflowers and prairie grasses that were planted on 130 acres of Michael and Pat Finnegan's family farm, Mayo Knock. The 130 acres were entered into the CRP program in 2016. (Chris DeBack photo)

CONSERVATION AWARD Cont. on Page 3

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CONSERVATION AWARD Cont. from Page 2

grown to approximately five feet tall in a lot of places."

Conservation is near and dear to the Finnegan's hearts, which is why they were a perfect selection to receive this year's district conservation award.

"We are honored to have this award," he closed. "It means a lot to us. I want you to know that my mantra to everyone every day is to save the land. Nothing would make me happier than to help some younger farmers with conservation. As I said before, land is precious, and we need to take care of the natural resource we have been given."



Fayette County Soil and Water District Commissioners are as follows: (front, l-r) Don Bahe, Stanley; Richard Jensen, Elgin; Paul Hoeger, Maynard; and Tim Bruhler, Hawkeye; (back) Eric Boehm, Wadena; Leon Deutsch, Wadena; and Rod Marlatt, Elgin.

MISSION STATEMENT FAYETTE SOIL & WATER CONSERVATION DISTRICT

Provide technical, financial, and educational assistance for natural resource conservation to our landusers to ecologically enhance, promote and perpetuate conservation of our landscape within the community.



The Natural Resource Conservation Service (NRCS) office staff includes (front, l-r) Halley Williams, NRCS soil conservationist; Aaron Anderson, NRCS district conservationist; Lori Kohlmeyer, IDALS conservation assistant; Devin Brincks, NRCS federal technician.

Become a soil and water conservation district commissioner

Commissioners may come from all walks of life; all you need is an interest in protecting our natural resources. If you are qualified to vote in a general election, you are eligible to be a candidate for election to the board of the Fayette Soil and Water Conservation District (SWCD). You must reside in Fayette County. Up to two commissioners may reside in any one township. All townships may have two candidates with the exception of Putnam and Windsor. Only one candidate from these two townships is eligible. Five commissioners are elected at the general election on a nonpartisan basis for staggered four year terms. There will be three terms culminating at the end of this year.

As a commissioner, you will help decide the direction of soil and water conservation programs in the county, and have an opportunity to influence state and national conservation programs. Your involvement will include activities approving soil conservation plans, assisting in the management of district funds and personnel, publishing an annual report, establishing acceptable soil loss limits, and assisting with soil loss complaints.

You are reimbursed for expenses and protected from personal liability. Commissioners are expected to take part in regular monthly meetings, become knowledgeable of the SWCD laws and programs, develop and carry out soil and water resource conservation plans, and help direct financial incentive programs.

Nominating petitions can be picked up from the Fayette SWCD office located at the USDA Service Center, 120 N Industrial Pkwy #2, West Union IA or at the Fayette County Auditor's Office located in the courthouse. The next general election is November 6, 2018. Nomination papers need to be signed by 25 electors and filed with the Fayette County Auditor, West Union, IA by 4 pm on Wednesday, August 29, 2018.

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Educating our youth about the natural world and how it works

Ron Lenth, ISU Extension

Teaching our youth about nature and how it works can be both fun and educational for both you and them.... and someday they may be our future leaders and landowners. Whenever they choose to live, you can give them a deeper appreciation and bond with the land.

Let's think of some ways you can share your knowledge...it's simpler than you think.

• Take them fishing. Whether it is in a local stream to catch some bullheads, the Mississippi, or to one of many great NE IA trout streams, this gives you the opportunity to talk about the importance of water and water quality. Or take

them to one of our three area DNR trout facilities at Decorah, Manchester, or Elkader. Explain how trout need very cold and clear water.

• When in a field together... pick up a handful of soil and explain that millions of tiny microbes are in there working to build soil quality.

• Take a Sunday picnic and go to one of our many fine county parks. Teach them the difference between a maple and oak tree. Today's smartphones can help...have them show you how to find pictures of each for identification.

• This spring when driving somewhere with the family and notice a field with a green cover crop growing, explain what it is and why the farmer uses them.

• Get them involved with youth programs like Scouts, 4-H, TAKO, and others who help educate them on many topics about nature.

• Decide to plant a few trees... and have them help. How many

families have a tree in their yard that was barely a twig 40-50 years ago, and today is a key feature in the yard or farm.

• Looking for a family project....build some bird houses.

• Teach them about archery, or

take them to an event on it.

• Next time you're on a family trip to grandma's for dinner and you see a grassed waterway....ask them what it is and how it protects the land.

• Take them to the Gilbertson

Nature Center by Elgin to learn about the many fine mounted animals and have them identify them. During or after a rainfall, show them some examples where conservation practices serve to protect soil erosion and how waterways increase water infiltration versus runoff.

And some other ways are.....



Thanks to all our area landowners for your conservation efforts!



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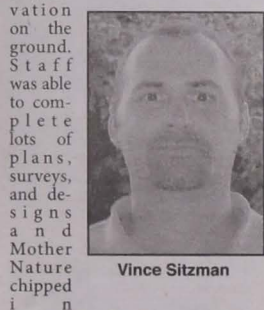
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Another successful year

By: Vince Sitzman
IDALS Field Services
Bureau Chief

State Fiscal Year 2017 was another successful year for getting



Vince Sitzman

conservation on the ground. Staff was able to complete lots of plans, surveys, and designs and Mother Nature chipped in

which made for productive spring and fall construction seasons.

Each year, when the state fiscal year wraps up, we evaluate our programs and find out what kind of a year it's been; and each year, when the evaluation is complete, I'm always surprised at how much money is spent on conservation. I'm not just talking about how much money the state contributes through our programs, I'm talking about your investment in conservation. Even when margins are as tight as they are today, the demand for conservation outweighs supply.

The dollars reflected in the graph represent the state's contribution to our programs only, not the landowners share. Keep in mind that these figures only represent a small portion of the overall

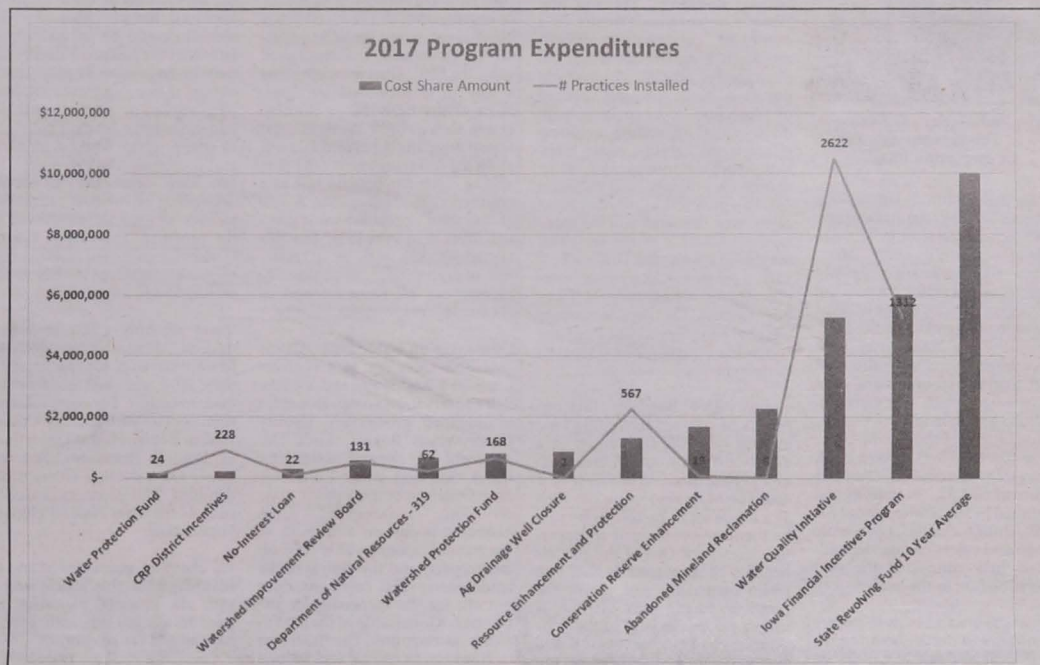
investment in conservation across the state. The graph does not take into account any federal programs such as CRP or EQIP, nor does it take into account the work that is done by private landowners without state or federal assistance.

I want to take a moment to highlight the State Revolving Fund

(SRF) in the bar chart as it is our most popular program in terms of funding utilized by landowners. SRF is a loan program that can fund 100% of a practice or can be used in conjunction with other state or federal programs. Farmers are borrowing an average of \$10 million annually to install

conservation practices on their farms. These low-interest loans can be used for a number of different conservation practices; however our most common include terraces, ponds and livestock facilities. Loan amounts can range from \$5,000 to \$500,000 and must be paid back over a 10-year period.

If you have been thinking about installing a practice on your farm I would encourage you to stop into your local Soil and Water Conservation District office and talk to the staff. As always, thank you for your conservation and land stewardship efforts.



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Now What? A Landowners Guide to Options



By: Rod Marlatt, Director,
Fayette County
Conservation Board

As the age of Iowa's landowners continues to rise, the uncertainty of the future stewardship of those lands comes into question. Many farmers and landowners do not have the opportunity to pass on their legacy to anyone or at least to anyone who will work the land. Many of these landowners have toiled diligently to leave the land better than they found it and have implemented their conservation ideals upon that land.

Not to put too blunt a point on it, but do we want to assume that our hard work will be recognized and continued by those who inherit the land? Things change, economies change and values change depending on how connected the next generations are to the land.

This article is an attempt to inspire landowners to think about the future of their land and to scratch the surface of several options available

to landowners in Iowa to permanently protect their conservation efforts and legacy.

Land Donations: You can simply donate your land to a qualified conservation organization such as the County Conservation Board, the Iowa Department of Natural Resources, the Soil and Water Conservation District or a non-profit conservation organization such as the Iowa Natural Heritage Foundation. An outright donation is the simplest method of protection and can carry with it substantial tax savings including property tax liability, estate taxes, and possible future income tax liability. An outright land donation can also give you substantial input as to how the land will be managed if agreeable to the recipient. Maybe you want the land to be a park, a public forest, a public hunting area of a multitude of other possibilities. The Fayette County Conservation Board has been the recipient of many of these types of donations.

Conservation Bequest: This option is of course leaving the land in your will. The land could be a quality natural resource area such as a prairie, wetland or forest or it could be of no resource value such as a house lot to be able to be sold by the recipient to fund conservation elsewhere. One of the greatest benefits of a bequest is that you retain ownership and use of the property during your lifetime. It simply passes the land to the public after you have borrowed it and nurtured it for a while. Though you can bequest the land without the

recipient's knowledge, it is best to discuss it with the potential recipient so that your desires and intent are clear and expected. This can be done discreetly and kept confidential if that is the desire of the donor

Bargain Sale: Instead of an outright land donation, you can sell your land to a conservation agency or organization at a reduced price. Most agencies are limited by statute to pay no more than appraised value for land. They must also find a way to finance that purchase. Most of the time this is through grants such as the Wildlife Habitat Stamp program. A bargain sale will assist the receiving agency in being able to claim the bargain sale as a required cost share match. A sale of less than appraised value gives the seller a multitude of possible tax advantages such as a reduction of capital gains, some possible income tax adjustments, and of course, less property tax liability.

Conservation Easements: A conservation easement is a contract between a landowner and a qualified conservation group. Examples of qualified groups are County Conservation Boards, Iowa Department of Natural Resources, Cities, Soil and Water Conservation Districts or non-profit conservation organizations. Each easement is custom written to fit the natural resources that exist on the property and the desires of the landowners. The easement does not change the ownership or the transfer of ownership of the land to future generations. The easement is, however, perpetual and follows the transfer of ownership. The

easement simply spells out what can and cannot be done on the land and gives the responsibility of the enforcement of the covenants on to the "grantee." An example could be a forest owner may want to ensure that the timber values of a property be preserved forever and that any management (including harvesting) be done under an approved forestry plan. Another scenario could be an agricultural farm that the easement simply says that the farm must be perpetually farmed under a conservation compliance plan or similar plans that may exist in the future. In addition to ensuring the land be managed and preserved, the easement itself can have significant tax savings depending on what it encumbers as uses allowed or disallowed on the property. The Fayette County Conservation Board holds several of these easements and is always willing to add more.

These are only a few landowner options that can be considered for those who wish for the legacy of their land and their conservation ethic to endure. For more information, contact your County Conservation Board, Iowa Department of Natural Resources, Soil and Water Conservation District, or a qualified non-profit organization such as the Iowa Natural Heritage Foundation.

We claim no guarantee of any tax advantages in this article and as with any financial planning, you need to discuss this with your financial and tax advisor.

Fayette County Pheasants Forever Habitat Report

by Rod Marlatt

Fayette County Pheasants Forever just completed its 33rd year of creating, restoring and preserving wildlife habitat in Fayette County.

Fayette County Pheasants Forever documented \$533,424 in habitat expenditures for the year 2017 and ranked #1 nationwide out of 740 Pheasants Forever and Quail Forever Chapters.

Since its inception in 1985, the chapter has documented a state record of \$2,750,000 for the establishment of wildlife habitat and public land acquisition.

These accomplishments could not have been achieved without the support of our members and partners, including the Fayette County Conservation Board, Natural Resources Conservation Service, Farm Service Agency, Fayette County Soil and Water Conservation District, and the Iowa Natural Heritage Foundation.

The Pheasants Forever model is unique to all other conservation organizations in that all of the net funds raised are retained by the Chapter to be used for projects in Fayette County.

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Conservation Systems Plans (no)

Planned	Applied
186	236

Conservation System Acres (ac)

Planned	Applied
10,219	11,514

Performance Summary-Field Measures

Conservation Plans Written (ac)
 Stewardship plans written (ac)
 Cropland with conservation applied to improve soil quality (ac)
 Cropland with conservation applied to improve soil health and sustainability (ac)
 Cropland with an applied Soil Health Management System (SHMS) (ac)
 Land with conservation applied to improve water quality (ac)
 CNMP written (no)
 Grazing land with a conservation applied to protect and improve the resource base (ac)
 Non-Federal land with conservation applied to improve fish and wildlife habitat quality (ac)
 Conservation applied on land being actively managed for wildlife habitat (ac)
 Forest land with conservation applied to protect and improve vegetative condition (ac)
 Conservation Applied to improve Environmental Quality (ac)

Summary Conservation Practices	Planned	Applied
Access Control (472) (ac)	1,679	1,897
Brush Management (314) (ac)	8	14
Comprehensive Nutrient Management Plan - Written (102) (no)		1
Conservation Cover (327) (ac)	2,274	2,492
Conservation Crop Rotation (328) (ac)	3,073	3,218
Contour Buffer Strips (332) (ac)	9	9
Contour Farming (330) (ac)	2,270	2,361
Cover Crop (340) (ac)	1,896	1,460
Critical Area Planting (342) (ac)	31	29
Early Successional Habitat Development/Management (647) (ac)	33	62
Farmstead Energy Improvement (374) (no)	3	11
Fence (382) (ft)	6,194	4,263
Filter Strip (393) (ac)	111	55
Forage and Biomass Planting (512) (ac)	41	63
Forest Stand Improvement (666) (ac)	126	120
Grassed Waterway (412) (ac)	54	54
Herbaceous Weed Control (315) (ac)	1,729	1,879
Integrated Pest Management (IPM) (595) (ac)	95	
Lighting System Improvement (670) (no)	2	39
Nutrient Management (590) (ac)	787	689
Prescribed Grazing (528) (ac)	37	24
Residue and Tillage Management, No-Till (329) (ac)	1,203	1,173
Residue and Tillage Management, Reduced Till (345) (ac)	1,697	1,744
Riparian Forest Buffer (391) (ac)	2	2
Streambank Protection	338	338
Subsurface Drain (606) (ft)	730	
Terrace (600) (ft)	1,170	1,170
Tree/Shrub Establishment (612) (ac)	7	10
Tree/Shrub Site Preparation (490) (ac)	25	31
Underground Outlet (620) (ft)	746	747
Upland Wildlife Habitat Management (645) (ac)	1,975	1,001
Waste Storage Facility (313) (no)	1	
Wetland Restoration (657) (ac)		9
Windbreak/Shelterbelt Establishment (380) (ft)		490

ProgramsConservation Reserve Program

Program Eligibility Determinations (no)	304 no
Status Reviews Performed (no)	204 no
Plans Developed for new contracts (no)	97 no
Plans Developed for re-enrollments (no)	110 no

Environmental Quality Incentive Program (EQIP)

Number of Contracts (no)	17
Dollars Obligated	\$166,480

Conservation Stewardship Program (CSP)

Number of Contracts (no)	9 no
Dollars Obligated	\$183,041
Acres Enrolled	3,744 ac

**FAYETTE SOIL & WATER CONSERVATION DISTRICT
 ANNUAL FINANCIAL STATEMENT
 JULY 1, 2016 through JUNE 30, 2017**

Technical Account

Beginning Balance	\$ 7,788.60
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Receipts

District Buffer Initiative - Division	\$ 1,150.00
Farm Bill 13 Funds - Division	4,818.60
Farm Bill 13B Funds - Division	343.38
Farm Bill 14 Funds - Division	4,644.45
Farm Bill 13B Funds - CDI	2,302.20
Transfer from Watershed Account	1,737.89
Supervisors	2,000.00
SWCD Foundation	10,111.50
Volga Lake Grant	5,097.70

Total Receipts	\$ 32,205.72
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TOTAL

\$ 39,994.32

Expenses

Accounting Services	375.00
Bank Charge	4.28
Health Insurance	3,193.77
Payroll	22,050.00
Unused District Buffer Initiative Funds	650.00
Transfers to Payroll Savings	
Federal Taxes	6,801.78
IPERS	3,992.37
State Taxes	1,242.00
Unemployment	164.40

Total Expenses	\$ 38,473.60
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Ending Balance 6/30/17

\$ 1,520.72

**FAYETTE SOIL & WATER CONSERVATION DISTRICT
 ANNUAL FINANCIAL STATEMENT
 JULY 1, 2016 through JUNE 30, 2017**

Checking Account

Beginning Balance	\$ 1,810.98
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Receipts

CRP FB Biologist Option 6	5,000.00
Margroff Memorial	51,343.46
Money Market Transfers	2,188.25
Regional Meeting Registration	650.00
SWCD Foundation	2,691.37

Total Receipts	\$ 61,873.08
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TOTAL

\$ 63,684.06

Expenses

Education	590.54
IM Commissioner	1,887.70
Margroff Memorial to SWCD Foundation	51,343.46
Office Supplies	91.59
Pheasants Forever (CRP FB Biologist Option 6)	5,000.00
Postage	246.79
Regional Meeting Expense	876.18
Unused Farm Bill 14 Funds	2,044.58

Total Expenses	\$ 62,080.84
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Ending Balance 6/30/17

\$ 1,603.22

**FAYETTE SOIL & WATER CONSERVATION DISTRICT
ANNUAL FINANCIAL STATEMENT
JULY 1, 2016 through JUNE 30, 2017**

Money Market Savings Account

Beginning Balance \$ 12,616.10

Receipts

District Buffer Initiative - IDALS	1,150.00
Farm Bill PF Opt 6 - IDALS	5,000.00
Farm Bill 13B - IDALS	4,644.45
IM Allocation & Supplemental	2,000.00
Interest	10.50

Total Receipts \$ 12,804.95

TOTAL \$ 25,421.05

Expenses

Bank Charge	12.84
IM Transfers to Checking	2,000.00
Transfers to Checking	5,188.25
Transfers to Technical Account	16,054.13

Total Expenses \$ 23,255.22

Ending Balance 6/30/17 \$ 2,165.83

**FAYETTE SOIL & WATER CONSERVATION DISTRICT
ANNUAL FINANCIAL STATEMENT
JULY 1, 2016 through JUNE 30, 2017**

Payroll Savings Account

Beginning Balance \$ 1,604.99

Receipts

Interest	\$ 1.10
Transfers from Technical Account	12,476.50

Total Receipts \$ 12,477.60

TOTAL \$ 14,082.59

Expenses

Federal Taxes	7,421.78
IPERS	4,914.93
State Taxes	1,242.00
Unemployment	225.16
Transfers to Technical Account	275.95

Total Expenses \$ 14,079.82

Ending Balance 6/30/17 \$ 2.77

**FAYETTE SOIL & WATER CONSERVATION DISTRICT
ANNUAL FINANCIAL STATEMENT
JULY 1, 2016 through JUNE 30, 2017**

Watershed Account

Beginning Balance \$ 1,737.89

TOTAL \$ 1,737.89

Expenses

Transfer to Technical Account (closed account) 1,737.89

Total Expenses \$ 1,737.89

Ending Balance 6/30/17 \$ 0.00

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**FAYETTE COUNTY
SOIL AND WATER CONSERVATION DISTRICT FOUNDATION
ANNUAL FINANCIAL STATEMENTS**

**FAYETTE COUNTY
SOIL AND WATER CONSERVATION DISTRICT FOUNDATION
ANNUAL FINANCIAL STATEMENT'S**

ACCOUNT BALANCE	July 2015 / June 2016	July 2016 / June 2017
Beginning Balance	\$ 1,853	\$ 12,269
RECEIPTS:		
Transfer from Savings	\$ 5,000	
Supporters Club	\$ 12,078	\$ 15,010
Proceeds From Robert Margroff Estate		\$ 51,344
Scraper Rental proceeds	\$ -	\$ 100
TOTAL RECEIPTS	\$ 17,078	\$ 66,454
TOTAL CASH AVAILABLE	\$ 18,931	\$ 78,723
EXPENSES:		
CDI Dues	\$ 850	\$ 850
National Assoc of Conservation Districts		\$ 775
Retirement Sponsorship		\$ 1,726
Bank Charges		\$ 24
Purchase of New RTV (Ranger)		\$ 10,887
Friends of Wapsi Valley FFA		\$ 2,500
Loan to SWCD Fayette County		\$ 2,045
SWCD Technical Account Support		\$ 111
Houg Farm Land Taxes	\$ 186	\$ 188
Field Day Expenses Food	\$ 543	
Office Supplies		\$ 740
Office Help	\$ 220	\$ 50
Payroll		\$ 10,175
Pheasants Forever Donation	\$ 500	\$ 500
Soil and Water Conservation Scholarship	\$ 500	\$ 500
Building Repairs		\$ 350
Foundation Insurance	\$ 445	\$ 650
Printing of Support Letters	\$ 928	\$ 539
Postage for Support Letters	\$ 574	\$ 1,967
Annual Report	\$ 1,691	\$ 125
USPS Mailing Permit	\$ 225	\$ 265
Income Taxes for Foundation / Sales Tax	\$ -	\$ 1,773
TOTAL EXPENSES:	\$ 6,662	\$ 36,740
Period Ending balance per Bank Statement	\$ 12,269	\$ 41,983

Hello from the Acting Director



Susan Kozak

Let me introduce myself: I am Susan Kozak and I am currently the Acting Director for the Division. I have about 12 years of experience in the Division (20 in conservation and mining) and am happy to be asked to step up and take a leadership role until a new director is in place. My usual job is Mines and Minerals Bureau Chief and I love the reclamation work we do in that program. I have a geology degree from the University of Iowa and am originally from Ottumwa.

Enough about me! I want to take this opportunity to thank Jim Gillespie for all his years of commitment to our mission of conservation. He was a great mentor to all of us and he will be missed. I loved reading his Director's Thoughts and the history of why the Districts were organized. It is wonderful to see all the 75th Anniversary celebrations and to appreciate all the dedicated people in the field getting the work done. It makes me wonder what our work and structure will look like in the next 75 years. An article I read this morning said: this is the season to focus on projects that serve the greater good and to ask yourself "What am I doing to help the collective?". While the article was not focused on conservation, I think in light of all the water quality talk in the news, this is a good way to frame our conversations for the future and what we want to accomplish. I look forward to working with everyone in the months to come to make sure the Division remains a leader in conservation.

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Don't Treat Your Soil Like Dirt: Take the 1% Challenge

Many of the benefits from improving soil health don't happen overnight. They build over time, as farmers consistently implement soil health practices like no-till, cover crops and crop rotations. But there is a way to monitor your progress: measuring the amount of organic matter in your soil.

First conceived by the late District Conservationist Brad Harrison from Adel, The 1% Challenge encourages farmers to commit to a long-term plan to increase their soil's organic matter by 1 percent. Soil organic matter is decomposed plant and animal material in your soil. This material gives your soil good tilth, a dark color, better water holding capacity, improved water infiltration rates, and it contributes to your overall soil fertility. And it happens to be a very good indicator of improved soil health.

How much will it take to increase my soil organic matter by 1%? Soil organic matter is increased through substantial increases in organic materials, like roots, residue, compost, and manure in the soil. Only 10% of the organic material added each year actually remains in the soil. Because of this, building a 1% organic matter increase will require 200,000 pounds of material, or the equivalent of 167 round bales of cornstalks per acre.

Sound impossible? It's not!

Depending on your original organic matter levels, soil types, and crop rotations, it is possible to increase organic matter at an average rate of 0.1% per acre per year through no-till farming and planting a mixed cover crop each fall. After 10 years, that's a 1% increase.

Why is it worth it?

While each operation's expenses are unique, we've put together these estimates to illustrate the economic impact of improving soil organic matter:

Each year, 1% of soil organic matter per acre releases \$15.70 worth of nutrients.

Eliminating tillage will save approximately \$3.50 in fuel costs per acre per year.

Utilizing cover crops may reduce the need for herbicides by about \$16.20 per acre per year.

An average increase of 5 bu./ac. in soybean yields following cover crops can earn an additional \$50 per acre per year.

Based on these calculations, in an average year of a corn/soybean rotation, your bottom line could improve by more than \$60 per acre. PLUS, this significant increase in organic matter can hold 9/10" of plant-available water, reducing the potential for erosion due to runoff by 15%.

So, how do you get started?

Establish a baseline by completing a routine soil test with an organic matter calculation. In addition, conduct a soil health assessment in your field by recording soil temperatures, counting earthworms, calculating water infiltration rates, and testing for compaction. We also recommend having a certified lab conduct a soil health analysis, such as the Haney test or the Cornell Soil Health Test.

The next step is to develop a soil health management plan, and that's where NRCS can help. After discussing your goals and evaluating your current operation plan, we can recommend the types of practices and changes in management that will help you improve soil health and build organic matter.

And finally, monitor and document your progress each year. Items to record include crops planted, fertilizer and pesticides applied, weed pressure, yield, and soil health assessments results (temperature, earthworm counts, infiltration rates, etc.). Then in year four or five, conduct another soil test. Did your soil organic matter increase by a half percent? If so, you are on the right track. If not, take time to evaluate your management (NRCS can help) and make adjustments if necessary.

Interested in taking The 1% Challenge? You can find more resources, fact sheets and soil assessment worksheets on the Iowa NRCS website at www.ia.nrcs.usda.gov.

Kurt Simon
Iowa NRCS State Conservationist



DIRECTOR'S THOUGHTS

A lot of Soil and Water Conservation Districts are celebrating their 75th Anniversaries around the state. What great accomplishments they have to share with the farmers and landowners in their counties. It is definitely something they should be proud of and take time to reflect on what has been done.

It is a time to think back to when the district was organized and why. We were just coming out of a serious economic depression and were in the midst of World War II. The Iowa Experiment Station, now Iowa State University Extension had done a study that showed that we had eroded 25% of our top soil on average across the state. Something needed to be done to stop this erosion and start improving our agriculture management in order to reverse this unsustainable degradation. Iowa has been blessed with some of the richest soils in the world and they have been very productive.

Along came the Soil and Water

Conservation Districts that started organizing in 1940 and the last district organized in 1952. The leadership of those first commissioners that set the stage for how the districts could help farmers, landowners, and everyone in the county and the state took off. If you fly over the state on a clear day, look out the window of the plane or as you drive around the state you will see the practices (marks on the land) that the districts have helped those farmers, landowners and others install to protect and improve all of our natural resources. Isn't it a beautiful tapestry to behold? That leadership by the districts and the commissioners and field office staff continue to this day and I believe our fathers and mothers would be proud of what has been done.

Is our job done? I don't think so. We continue to utilize and need those precious resources every day and will into the future. We should be of a mindset that we are going to be in an ever improving pro-

cess for those resources. More than just protecting them but making them better.

Yours and my challenges are what can we do every day to improve our soil health and water quality? So what are we (there is no "I" in team) going to do to take care of the resources we have been blessed with and how are we going to make them better for those who will follow us, like those who organized the Soil and Water Conservation Districts years ago? I believe they were thinking about us and this great state when they organized the districts. We can't let them down!



Jim Gillespie
Outgoing
IDALS Director

Jensen receives conservation award

Richard "Dick" Jensen, Soil and Water Conservation District (SWCD) commissioner in Fayette County, has received the Outstanding Soil and Water Conservation District Commissioner Award.

Jensen was honored on July 17 at the 71st Annual Iowa Soil and Water Conservation District Commissioners Conference, which was held in conjunction with the National Association of Conservation Districts Summer Forum and Tour at Prairie Meadows Conference Center in Altoona.

Jensen's enthusiasm for practicing and promoting conservation extends into all aspects of his life. He leads by example by hosting a field day for third-graders at his farm since 1993, reaching over 8,800 students in Fayette County. He has also hosted interns from Upper Iowa University, so that they can gain farm experience and do research trials.

He has manned, promoted and helped set up the Fayette SWCD booth at the fair for many years and is dedicated to educating the younger generations. Dick founded Take a Kid Outdoors (TAKO) in Fayette County, which began in 2006 with the mission to connect youth to nature. He was a leader in maintaining and preserving the Echo Valley Environmental



Richard "Dick" Jensen (left), Fayette County Soil and Water Conservation District commissioner, recently received the Outstanding Soil and Water Conservation District Commissioner Award from Rod Swoboda of Wallace's Farmer. (submitted photo)

Nature Trail (EVENT) and wrote two grants that helped fund it. He also initiated the Forest of Memories in West Union, which plants trees in remembrance of loved ones from the community.

Jensen worked with the Iowa Department of Natural Resources

and Fayette County Conservation Board to recreate 5.2 acres of prairie adjacent to North Fayette Valley High School. The Elgin resident has contributed to or led many other initiatives and is considered "a rock star" in promoting conservation in northeast Iowa.

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ELGIN IS 2018 RIVER TOWN OF THE YEAR

Each year, Iowa Rivers Revival presents the "River Town of the Year" Award to an Iowa river community that demonstrates a commitment "to reclaiming the waterfront as an anchor for economic development, recreation, and ecological practices, as well as addressing some of the challenges and solutions related to water quality."

Elgin's collaboration with other communities and entities in the Turkey River Watershed has grabbed our attention.

Elgin is an active participant in the Turkey River Watershed Management Authority.

The rural community of Elgin considers the Turkey River a "central resource." The Turkey River Watershed Management Authority (WMA) was formed in June 2012. The collaboration is accomplished by a board of directors from twenty-three cities, five counties, and seven soil and water conservation districts in the Turkey River Watershed that have voluntarily agreed to work together in order to:

- Assess and reduce flood risks
- Assess and improve water quality
- Work with the Iowa Flood Center to model flood reduction strategies
- Educate and engage residents of the watershed regarding flood risks and water quality
- Develop a Turkey River Watershed Plan for flood reduction and water quality management
- Help partners secure funding for flood reduction and water quality projects

Elgin has collaborated with the Iowa Flood Center, Northeast Iowa RC&D, and Fayette County Soil & Water Conservation in a pilot project in the Otter Creek Watershed, part of the larger Turkey River Watershed, to reduce flood impacts. Some of their activities include:

- Approved installation of Iowa Flood Center bridge sensors which automatically relay realtime stage data for use by emergency personnel in Clayton and Fayette Counties.
- Installed permeable pavers in parking along Center Street to better manage storm water runoff and improve water quality
- Installed a rain and soil moisture gauge (1 of 20 in the Turkey River Watershed)
- Installed a wetland to address surface water drainage issues in the community

Elgin is an active partner and member of the Turkey River Recreational Corridor (TRRC).

The TRRC is an Iowa Great Place that brings together the communities of Clermont, Elgin, Elkader, and Clayton and Fayette Counties in northeast Iowa in a formal 28E Agreement. The mission of the TRRC is to develop and enhance the existing natural resource base through the creation of land and water trails to serve as a catalyst for economic growth and development.

Elgin, along with the TRRC, was successful in designating the Turkey River as a State Water Trail. The water trail has fostered an increase in tourism and economic development in Elgin and Fayette and Clayton Counties. The Turkey River and City of Elgin are now con-

sidered a significant state tourist destination. The Turkey River Water Trail Map & Guide is available online, and print copies are available in Elgin. River accesses in Elgin are excellent and provide safe and easy access on both sides of the river adjacent to Gilbertson Conservation & Education Area and Campground. Signage from area roads supports river users and outfitters



Fayette County Conservation completed a bank stabilization project along the Turkey River at Gilbertson Conservation & Education Area in early 2017 following the two federally-declared floods of 2016. In addition, the conservation board partnered with Iowa DNR to acquire more than 200 acres of conservation easement greenbelt for the protection of the Turkey River Watershed and associated riparian habitat and species.

Elgin and other TRRC partners participated in Project AWARE in July 2011; 429 volunteers removed 32 tons of trash from the Turkey River near Elgin.

TRRC developed a pedestrian trail between Elgin and Clermont. Recently, \$1.4 million in grant funding was raised to expand the pedestrian trail across the Turkey River to other recreational, historic and cultural amenities. The new segment will start on the east side of Elgin, cross the Turkey River to connect to Gilbertson Conservation & Education Area and Turkey River accesses and allow pedestrians and bicycle users to move freely between Elgin and Gilbertson Park. The TRRC hosts events featuring pedestrian trails along the Turkey River,

including triathlons and 5K runs.

A Fayette County Trout Fishing Guide was developed and provides information about the Turkey River and Fayette County's ten spring-fed creeks that offer 13+ miles of fishable water, plus pertinent fishing regulations.

The TRRC developed the Elgin Community Guide featuring local businesses and accommodations for river enthusiasts along the multi-use trail route.

Elgin and other Fayette and Clayton County in the River Bluffs Scenic Byway Corridor.

The Byway Corridor Board is made up of representatives from Elgin and other communities in Fayette and Clayton Counties. The Scenic Byway's mission is to guide development of the Corridor Management Plan and oversee its implementation through outreach, education, marketing and enhancement of the corridor to and for stakeholders and visitors. The corridor's board works to enhance the experience of visitors, quality of life for residents, and economic vitality of the Scenic Byway community by preserving and promoting the corridor's resources, including the Turkey River.

Article courtesy of Iowa Rivers Revival

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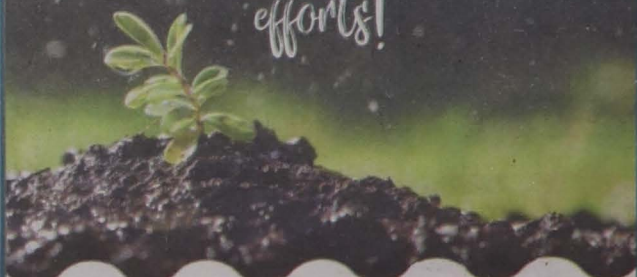
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Otter Creek Turkey River Watershed

Otter Creek

The Turkey River Watershed Management Improvement Authority selected the Otter Creek HUC 12 for the design and construction of 19 farm ponds, five roadside detention structures, and five water and sediment control basins. Volunteer landowners received 90% cost share assistance to construct the projects.

These flood mitigation projects increase the storage capacity of the landscape, reducing flooding and protecting both people and infrastructure. They significantly reduce federal, state, and local road and bridge maintenance costs by managing runoff and reducing flood risk.

The effectiveness of these small-scale flood mitigation projects in reducing downstream flood peaks is shown in results from hydrologic models using the 50-year return period:

- Average peak flow reduction of 4.3% measured at the outlet of Otter Creek at OTTRCRK01 steam-stage sensor
- Greatest average peak flow reduction of 6.3% measured on the main stem of Otter Creek above Tributary 13
- Tributary 5, with two flood control ponds, has the largest peak reduction of 45.8%
- Tributary 14, with the largest on-road pond, has a peak reduction of 32.4%

Turkey River WMA

Formed in June 2012, the Turkey River Watershed Management Authority (WMA) is a board of directors with members from 23 cities, five counties, and seven soil and water conservation districts (SWCDs) in the Turkey River Watershed. They work together

to address water-quantity and -quality challenges. For more information about the Turkey River WMA, visit: <http://turkeyriver.org/watershed-management-authority>

About the Iowa Watersheds Project

In 2010, the U.S. Department of Housing and Urban Development awarded the Iowa Flood Center \$8.8M for the Iowa Watersheds Project (IWP). The IWP provided funding to five watersheds across the state to restore and enhance Iowa's drainage infrastructure to create more reliable flood protection.

The specific goals of the project were to:

- Maximize soil water holding capacity
- Minimize severe erosion and sand deposition
- Manage water runoff
- Reduce and mitigate flood damages

Each watershed formed a Watershed Management Authority (WMA), developed a hydrologic assessment, and created a watershed plan to guide future decision-making across the watershed. The WMAs selected three pilot sub-watersheds that each received \$1.5M to construct and implement demonstration projects to reduce flooding and improve water quality.

The IWP was a five-year project that ended in September 2016 with the completion of more than 100 constructed projects, including ponds, terraces and wetlands.

As the Iowa Watersheds Project ended, the state of Iowa was awarded \$96.9M for a new watershed project, *The Iowa Watershed Approach*. The IWA will work in nine new watersheds across the state and is built upon the framework developed by the IWP.

Begin Conservation Planning for Financial Assistance Programs Now

DES MOINES, IOWA — Iowa farmers seeking conservation planning and financial assistance should contact their local USDA-Natural Resources Conservation Service (NRCS) office soon about help with implementing conservation practices on their land.

Iowa NRCS has program sign-up cutoff dates coming soon for the Conservation Stewardship Program (CSP) and the Environmental Quality Incentives Program (EQIP). NRCS accepts conservation program applications on a continuous basis, but periodically makes application selections as funding allows.

NRCS has at least one office in every Iowa county, located at the USDA Service Center.

In 2017, NRCS obligated more than \$30 million to Iowa farmers through CSP and EQIP. NRCS helps private landowners build their business through CSP, while implementing conservation practices that help ensure the sustainability of their operation.

CSP also encourages the adoption of cutting-edge technologies and new management techniques such as precision agriculture applications, on-site carbon storage and planting for high carbon sequestration rate, and new soil amendments to improve water quality.

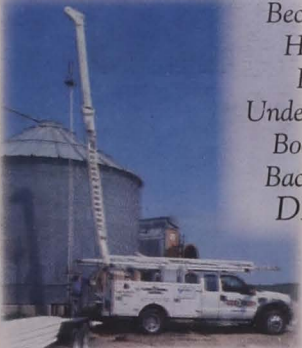
Through EQIP, farmers can adopt structural and management practices that optimize environmental benefits. Along with traditional conservation practices such as terraces, grassed waterways and buffer strips, farmers can use EQIP to help implement practices that improve manure, nutrient, and pasture management. EQIP can also assist with organic transition, adding pollinator habitat, building a high tunnel system, or to construct a denitrifying bioreactor.

NRCS sets aside 10 percent of EQIP funding for the historically underserved, which include beginning farmers socially disadvantaged farmers, limited resource producers, Tribal farmers and veterans.

Interested producers should contact their local USDA service center or visit www.nrcs.usda.gov/GetStarted.

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Pat Hunsberger honored with Woodland Award

By Vicki Rowland
Contributing Writer

Pat Hunsberger of rural Elgin has been selected for the Woodland Owner of the Year Award for Forest District 2, Fayette County. Hunsberger was nominated by District Forester Greg Heidebrink of Charles City and notified of her selection by Dick Jensen of the Fayette County Soil and Water Conservation District.

Pat and her late husband, Ben, farm just south of Elgin, with almost half of their farm pastured timberland. Before his death, Ben had advised Pat that there were some mature walnut trees that should be logged.

Meanwhile, Pat walked the timberland on the east side of the road, a farm they purchased before the turn of the century. That stand of timber appeared unhealthy to her, with a dense stand of weed trees vying for sunlight amongst the mature oaks and shagbarks. So the former Valley and North Fayette educator, who had additional conservation background experience as UNI Conservation Club president and Iowa Teachers Conservation Camp staffer, decided to immerse herself in learning more.

When she contacted John Olds of One-Step Forestry for assistance, the decision was made to conduct a full logging of mature trees. John agreed that the timber east of the road needed attention to become a healthy

stand of trees. Pat then contacted District Forester Greg Heidebrink. Together they walked the 70 acres of timber, and Heidebrink helped her create a Tree Plan. This is a major commitment, a 20-year contract with multiple steps for improving the timber stand.

The first step was to take the timber out of pasture production. Cattle tend to graze the undergrowth, gathering in singular areas under trees, and stomping the ground. The objective became improving the quality of the property for wildlife and recreational opportunities, as well as an investment for the future.

In order to implement the multistep plan, Pat hired private forester Kevin Franzen. He continues to work on timber stand improvement by removing weed species. He has conducted a prescribed burn (a second method sometimes utilized to eradicate the undesirable undergrowth, which proved to be hard work if the fuel on the ground was not dense enough), and maintained the seedling plantings.

Each step of improvement involves an estimate from the district forester, which Pat can take to the NRCS office to inquire about cost-share assistance. Partial funding helps manage the costs of the 20-year plan.

Hunsberger hired a commercial group, Pinters of Cresco, to plant the tree seedlings. When Heidebrink mapped out her Tree Plan, Pat had indicated that a

mature forest stand, consisting of oaks and shagbark hickory, was her personal preference. Evergreen seedlings – cedar, spruce and pine – are interspersed among the oak seedlings to help deter deer from grazing on the young growth. Plastic tubing is also placed on the young hardwood trees to protect them from the deer.

An amendment to Hunsberger's Tree Plan was added two years ago with the inclusion of a maple stand on the west side of the road. The native maples create a "sugar bush," which can be tapped in the spring to make maple syrup, an activity Pat's son Andy has enjoyed.

The rural Elgin woman will have to be patient to see results from her efforts. Trees, especially oak trees, grow very slowly, but already she has seen an increase in wildlife activity. Andy has trail cams that have recorded turkey, pheasants, skunks, woodchucks, coyotes and, of course, deer. Hunsberger notes that her conservation plan is "never done." Timber stand improvement is an ongoing activity.

When asked to advise others who might be interested, Pat recommended that they take the Woodland Masters class from Iowa State Extension, as well as attend the Forestry Field Days of-



Pat Hunsberger of rural Elgin has been selected as the Woodland Owner of the Year.

WOODLAND AWARD
See Page 15

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Greg Heidebrink, District 2 Forester, presents a certified tree farm sign to Pat Hunsberger.

WOODLAND AWARD Continued from Page 14

fered by Iowa DNR and ISU Extension. She also encourages everyone to support the effort to restore funding for the Iowa Forestry Division, noting that the district forester's territory has doubled in size. Hunsberger has personally become a member of the Iowa Tree Farm Committee to advocate for Iowa's forestry maintenance.

The Woodland Owner of the Year honoree expressed her appreciation and gratitude to the following individuals for their advice and assistance: Greg Heidebrink, District 2 forester; Aaron Anderson, NRCS; area tree farmers Jim Schneider, Bill Ogle, and Louis Christen; Fayette County Soil and Water Conservation District, Eric Boehm and Rod Marlatt.

In his nomination letter, District Forester Heidebrink said of Hunsberger, "Pat is passionate about her property and always wants to do the 'right thing.' It is enjoyable to work with enthusiastic, dedicated people, wanting to do the best for future generations. Pat is doing this by slowly working through her plan and always looking for new projects to take on. Pat would make a great Woodland Owner of the Year."

Fund Iowa's Natural Resources & Outdoor Recreation Trust Fund

By: Rod Marlatt, Director, Fayette County Conservation Board

It's a question that has been pondered, discussed and debated for decades. How does Iowa create a sustainable funding source for the natural resources needs of the state? How do we actually tackle our water quality issues, habitat needs, and soil health, and increase the recreational opportunities throughout Iowa?

That question has actually been answered. It was answered, vetted, and voted upon by the citizens of Iowa. After two consecutive years of required legislative approval, the citizens of Iowa were given the opportunity to vote upon the addition of a constitutional amendment called the Natural Resources and Outdoor Recreation Trust Fund. This amendment also referred to as "Iowa's Water and Land Legacy" was passed in the general election of 2010 by 63%. The amendment and its formula says that the next time a sales tax increase is implemented in Iowa, the first 3/8 of a cent goes into the Trust Fund. The legislature could also modify the existing sales tax spending methods to fund the Trust.

Incredibly, recent local conversations and polling has shown that many voters actually thought that the Trust was funded when they voted for it. When asked if they still supported a sales tax increase to fund the Trust, almost all voters said yes.

Fully funding the Natural Resources and Outdoor Recreation Trust Fund would mean around \$150 million each year. Not over time, but each year. Sixty to seventy percent of those funds will go to projects that directly and positively affect improvements to Iowa's water quality issues; issues that nearly all Iowan and legislators agree must be addressed. Every year the legislature wrestles with ideas and methods to fund water quality improvement. This is frustrating given the fact that the voters in Iowa have already approved the vehicle to do so with an actual amendment to our constitution.

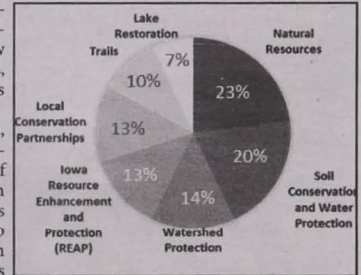
This concept is not new to the Midwest. Both Missouri and Minnesota have implemented this funding and are lightyears ahead of us in this regard. Let's not tell our children and grandchildren that if you want to recreate to go to Missouri and/or Minnesota.

Incidentally, Iowa ranks 50th in the nation for public land opportunities. Admittedly, we are an agricultural state and probably won't be #1, but surely we can do better than that.

This is an opportunity for all Iowans, visitors, and tourist to share in the critical investment needed to enhance Iowa's natural resource future. The majority of Iowans still support funding the Trust and many don't realize that it still has not been funded. Hundreds of organizations, including most of our producer groups, support funding the Trust.

You can help shape the future of conservation in Iowa by contacting your legislators and letting them know that you not only support funding the Trust, but that "yes," you also support a sales tax increase or modification to do so!

To find out more, go to: www.iowaswaterandlandlegacy.org



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Hamlett named FCSWCD scholarship recipient

By CHRIS DEBACK

cdeback@thefayettecountyunion.com

Cynthia Hamlett of Aurora was the recipient of the Class of 2017 Fayette County Soil and Water Conservation District Scholarship that was awarded last spring by the Conservation Districts of Iowa.

A 2017 graduate of Starmont High School, Hamlett currently attends Iowa State University, where she is majoring in animal science with the hope of becoming an animal feed nutritionist. Originally wanting to go into the field of agriculture communication, Hamlett changed her mind when she realized she enjoyed working with animals more.

The scholarship is open to students from Iowa schools who plan on pursuing programs of study in any field of conservation or agriculture.

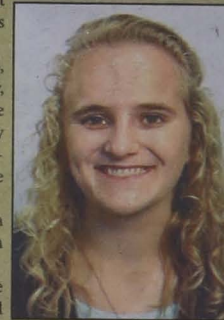
"Working on a dairy farm and participating in the Dairy Quiz Bowl has given me a lot of knowledge and experience dealing with nutrition," Hamlett noted on her scholarship application. "I think these two prime reasons are what made me lean toward my potential career. I enjoy learning about the way cattle react to eating feed, and the way things work in that field."

The daughter of Mark and Jennifer Hamlett was very active during her time in high school. She was voted vice-president and then president of the Starmont FFA, was a team captain for the Stars' cross country team, and a member of Student Council, choir, track, basketball individual and group speech, and National Honor Society. In her community she was club president and secretary for Scott Hot Shots 4-H Club, Fayette County Youth Council secretary, Fayette County Dairy Princess, and involved in the Lutheran Youth Organization and the Iowa Holstein Association.

"Soil and water conservation are extremely important within the agricultural field," Hamlett stated on the application. "Both are substantially important for living species on earth...[and] to sustain and continue with a prospering environment."

Hamlett's older sister, Sally, won the scholarship for the Class of 2016.

Fayette County SWCD is currently considering the applicants for the class of 2018, who submitted their applications in mid-February. Members look forward to selecting a scholarship winner for this year, as well as for future years in an effort to encourage soil and water conservation in future generations.



Cynthia Hamlett

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Managing Prairie with Prescribed Fire to Control Brome

Allie Rath (319) 330-6015
arath@pheasantsforever.org

Prescribed fire is a great tool we can utilize to manage native prairie areas. A well-timed fire will invigorate prairie species and help suppress introduced cool-season grasses and woody vegetation. The recommendation is to burn a site on a 3- to 4-year rotation and to split your site, if it's big enough, into at least 2 burn units to maintain cover/refuge for wildlife. With spring upon us, and prescribed burns already being implemented let's remember what role objectives play in when we burn.

First, let's remember the importance of firebreaks. Establishing a green firebreak planted to introduced legumes and non-aggressive introduced grasses is encouraged when establishing a native prairie planting. That could include for grasses: 0.5lb Timothy, 0.6lb Red top, 1lb Perennial Rye grass, and for legumes: Alfalfa 0.5lb, Ladino clover 1lb, Koppu II white clover 0.5lb, Red clover 1lb, Alsike clover 1lb, and Partridge Pea 0.1lb per acre. Typically the firebreak should be



20' to 30' wide around the perimeter. If you have a green (planted) firebreak around your natives, it is recommended that you mow the break at least once before the primary nesting season (May 15 – August 1 is the primary nesting period) and once after. This will help keep the vegetation in the firebreak in good shape and help prevent woody vegetation from encroaching into the break. If you were unable to establish a green firebreak when the site was seeded, I would still encourage mowing a 20' to 30' wide firebreak the fall before you plan to burn and spring of, as stated above. If you haven't created your firebreak yet and you plan on burning this spring you will want to rake the mowed residue AWAY from the burn unit so the fire doesn't sit there and smolder near the fireline, making someone babysit it the whole time.

With many landowners conducting burns around the county already it's getting others pumped up to implement their burn. However, we must remember our objectives. Do you have any introduced, cool-season grasses, like brome, creeping into your native CRP field or prairie? This brome could be coming from a road ditch, waterway, neighbors or from an old CRP you've transitioned into a native cover type. As a deep-rooted rhizomatous perennial, brome can outcompete natives. Controlling/reducing brome will help increase your native species. The best time to burn your native CRP or prairie

to reduce brome is when its growing point is up out of the ground and susceptible to damage. Most of the time this happens in late spring (early to mid-May) but this plant stage can fluctuate each spring, depending on temperature and moisture. Finding the perfect date to burn to reduce brome can be difficult so it's best to use the plant's physical growth to tell us when to burn. According to Willson's research (National Park Service – Omaha, NE), burning when the tiller is elongated could reduce the regrowth by about 50%. Willson found that tiller elongation happened when there were five or more green leaves on the tiller (stem). So, if you have brome creeping into your CRP or prairie, make sure you have five leaves or more on the brome before you burn, otherwise you'll just be stimulating it. If you're in CRP then you have restrictions on your timeline for burning. You will need to get your burn completed before May 15. A good timeline to shoot for is late, late April through May 14 and then keep checking your brome leaves to see when you should actually burn. This late spring burn will also help control

some woody species. Once you have your brome under control you will want to change up the season in which you burn.

If maintaining the forb component in your seeding is important then performing a dormant burn in the fall or early spring prior to April 1st will help you meet this objective. Another way to look at it is if you have a diverse prairie with a lot of forbs then a dormant burn is the best option while waiting until late April or early May will tend to favor grasses. Knowing what you have and what type of native vegetation stand you would like to achieve should be considered before you complete the burn. If you are unsure of what you have please call to set-up a site visit.

Fire is an important tool used

to maintain and invigorate native prairie. Conducting them safely and effectively will help everyone see the benefits to prescribed burning. Always contact the county dispatch to let them know you're intending to start a prescribed burn and where the location will be. Additionally, it is courteous to call dispatch back when the burn is completed to let them know it is done.

If you have any questions about how to conduct a prescribed burn, when you should burn, or to line up a site visit, please contact Allie Rath, Farm Bill Wildlife Biologist with Pheasants Forever at (319) 330-6015 or arath@pheasantsforever.org or contact your local Natural Resources Conservation Service office for assistance.

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Iowa farmer contribution \$8.6 million
Total investment \$15.6 million

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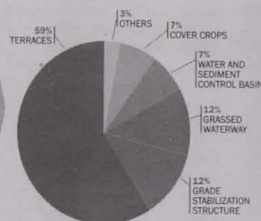
Why so many terraces? They are an effective, long term conservation practice and trap up to 95% of the sediment and phosphorus from a field.

DID YOU KNOW? There were 297 miles of terraces installed using state cost share in SFY 2017. As a crow flies, this is the distance from Sioux City to Dubuque!



"The cost-share program is a partnership between the local landowners and state to help get conservation practices on the land that prevent erosion and improve water quality. These funds are a great investment by the state, with farmers historically contributing \$1.50 or more for each dollar invested by the state."

- Bill Northey, Iowa Secretary of Agriculture



TODAY we have 34 Technicians and 84 Conservation Assistants covering 100 offices. Staff work in multiple districts to ensure work gets done across Iowa.

FUNDING
85% of the funds directly benefit the land
15% used for administration

SOIL CONSERVATION COST SHARE SFY 2017 ANNUAL REPORT

- 4 The five Soil & Water Conservation District Commissioners approve applications in their own SWCD.

WHAT'S A Commissioner?

Someone elected to promote conservation in their county, helps administer state and federal programs, and directs activities such as field days, water quality projects, educational meetings, contests, and awards programs.

Humboldt County Commissioner & former Conservation District of Iowa (CDI) President Bob Lynch



- 5 Next, farmers hire a local contractor and get to work! Conservation practice plans are developed by staff working with landowners and local contractors.

Modern survey and design tools help in the design, customizing practices for each field.

- 6 Practices are installed and the soil conservation and water quality benefits begin!

Investing in soil conservation not only improves productivity on the farm by keeping soil in our fields, it also helps keep soil and nutrients out of the water.

PRACTICE EXAMPLES:



THE IMPORTANCE OF PARTNERSHIPS

Our technicians and conservation assistants are a part of the 100 Soil & Water Conservation Districts (SWCD), which are housed within federal USDA-Natural Resources Conservation (NRCS) Service Centers. They use federal equipment and other resources. Therefore, the partnership between IDALS, SWCDs, and NRCS is critical.

Other partners working together include the Conservation Districts of Iowa (CDI), USDA Farm Services Agency (FSA), USDA Rural Development, State Soil Conservation and Water Quality Committee (SSWCQC), ISU Cooperative Extension Service, county conservation boards, county board of supervisors, drainage districts, levee districts, and other local groups.

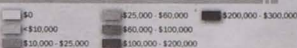
SOIL CONSERVATION COST SHARE SFY 2017 ANNUAL REPORT

For over four decades, Iowa's conservation cost share program has encouraged the adoption of land stewardship and conservation practices that sustain agriculture and preserve our state's natural resources.

HOW COST SHARE WORKS

- 1 Iowa Department of Agriculture & Land Stewardship (IDALS) receives appropriation from the Legislature.

Diverse landforms across Iowa directly affect the cost and type of conservation practice best for each field. Therefore, location affects the amount of funding a county needs and receives.



- 2 Funds are distributed to Iowa's 100 SWCDs based on land use, soil erodibility, and landowner demand.

WHAT'S A SWCD?

A SWCD is a Soil & Water Conservation District, made up of State, District, and Federal staff, plus five elected Commissioners.

State staff in some field offices include:

TECHNICIANS:

Work with landowners/contractors. Provide technical support, develop surveys, and layout and design conservation practices.

CONSERVATION ASSISTANTS:

Work with commissioners and landowners. Provide assistance and support for district activities and outreach, and process cost-share applications and claims.



Districts and local groups partner to host educational events and field days in their communities throughout the year.

- 3 Then, farmers and landowners apply for cost share by visiting their local SWCDs.



Applications are accepted year round.

Cost share can be used for both management practices and permanent conservation practices.

SOIL CONSERVATION COST SHARE SFY 2017 ANNUAL REPORT

THE IMPACT OF COST SHARE

- 1 Cost Share allows more conservation practices to be installed.

Benefits

- reduce erosion, soil loss, and nutrient runoff
- improve soil health and water quality
- reduce storm water impact on private property and infrastructure

WATER QUALITY

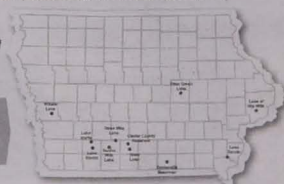
The cost share program was established to protect the production of Iowa's agriculture land. It originally concentrated on soil erosion, but every conservation practice installed also protects Iowa's water quality by reducing sedimentation and keeping phosphorus out of the water.



- 2 5% of each year's cost-share appropriation goes toward protecting the water quality of public-owned lakes in Iowa.

Local SWCDs submit applications to the Iowa Department of Natural Resources to become a designated lake.

This map shows eligible lakes for SFY2017. Farmers living within the selected lakes' watersheds can apply for up to 75% cost share in order to establish practices to protect water quality.



- 3 It's good for Iowa's economy. Money gets reinvested in Iowa's local economies benefiting local communities.



Terry Willhoit farms corn and soybeans with his brother Mark in both Wapello and Jefferson Counties around the Batavia area. They participate in the WQI Cedar Creek Partnership Watershed Project, as well as the Compete Creek Watershed Project. Their farms are all no till and they apply nitrogen with the planter in the spring. They lead by example by using multiple conservation practices, including terraces, waterways, filter strips, turn strips, and cover crops. The Willhoits say they use the conservation practices because they make sense economically, but also because of the many benefits, including controlling erosion.

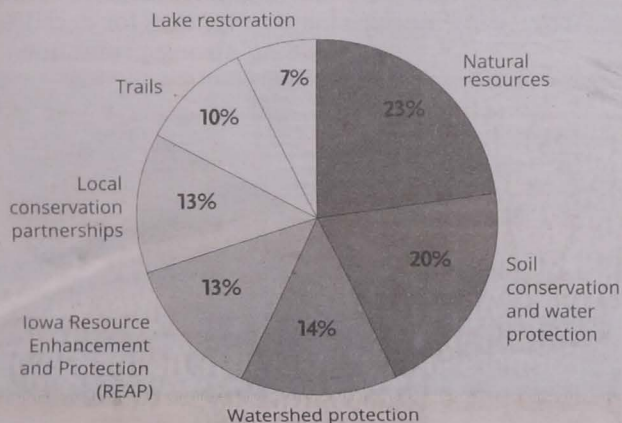
Iowa's Water & Land Legacy

The biggest conservation funding opportunity to ever come to Iowa - even in our lifetime!

In 2010, 65% of Iowans voted for a constitutional amendment to create a permanent and protected funding source fully dedicated to conservation, wildlife habitat, improving water quality, protecting soil, and increasing outdoor recreation opportunities throughout Iowa. The problem is, six years later, the Trust Fund sits empty because it requires a sales tax increase or modification of 3/8 of a cent for funding. The estimated revenue for natural resources and outdoor recreation is \$150 million each year! Historically, hunters and anglers have footed nearly all the cost of natural resource funding. This is an opportunity for all Iowans, visitors, and tourists to share in the critical investment needed to enhance Iowa's natural resource future. Everything ultimately comes from the land, yet we invest little back in return... an investment not only in the land, but in our kids' outdoor future.

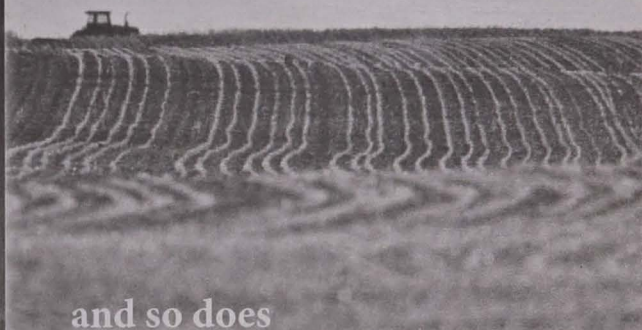
The majority of Iowa residents still support funding the trust. Many don't even realize it was never funded. Hundreds of organizations, including Pheasants Forever, also support funding the trust and urge our political leaders to fund the 3/8 of a cent sales tax increase and to keep the funding formula to the right. To find out more, go to: www.iowaswaterandlandlegacy.org

You can help shape the future of conservation in Iowa by contacting your legislative representatives and letting them know you support funding the trust, and by passing this information on to others.



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Iowa's Habitat and Access Program in Eastern Iowa

West Union, IA - Hunters in Eastern Iowa have increased opportunities to take to the field thanks to a program administered by the Iowa Department of Natural Resources. Iowa's Habitat and Access Program (IHAP) has been around since 2012. It is a cooperative effort between private landowners and the Iowa DNR that improves properties for wildlife in return for walk-in access to hunt.



Greg Schmitt

Through grant money from Federal Farm Bills, the Iowa DNR private lands staff and partners develop and implement a wildlife management plan with landowners voluntarily enrolled in the program.

Management plans for IHAPs are designed to be the Cadillac of habitat improvement and a showcase of quality wildlife habitat. Landowners are paid an incentive to plant diverse grassland seedings and food plots, implement practices to improve timber stands like crop

tree release and brush management.

There are currently 156 sites open across Iowa totaling 22,646 acres for the 17/18 hunting season.

In Eastern Iowa, there are 20 sites open totalling 2,785 acres.

Fayette County 5 IHAPs - 651 acres, Winnebago County 3 IHAPs - 366 acres

Clayton 1 IHAP - 86 acres, Allamakee 1 IHAP - 145 acres

Buchanan 1 IHAP - 183 acres, Delaware 1 IHAP - 118 acres

Tama 1 IHAP - 93 acres, Benton 1 IHAP - 156 acres

Jackson 3 IHAPs - 581 acres, Jones 2 IHAPs - 271 acres

Clinton 1 IHAP - 135 acres

For more information on individual IHAPs, consult the Iowa DNR webpage: <http://www.iowadnr.gov/Hunting/Places-to-Hunt-Shoot/Habitat-Access-Program>

To help maintain the success of IHAP, hunters are asked to respect private property when hunting and follow these IHAP tips and guidelines. Walk-in public hunting through IHAP is available between September 1 and May 31st.

Areas are posted with signs (to the right), and are regularly patrolled by Iowa DNR conservation officers. Safety zones also are clearly marked. Learn more about the IHAP program and benefits to landowners and hunters. **Hunter Guidelines and TIPS for IHAP Tracts:**

- Hunt only on IHAP property. Do not walk or hunt on adjacent property. Allow a buffer around livestock and buildings. IHAP tracts are for walk-in hunting only. Do not enter properties with vehicles. Do not open gates. Avoid stretching fences when crossing them.

- IHAP tracts are for hunting only. Other activities such as target shooting, camping, horseback riding, or professional dog training are NOT included in the contracts and, therefore, are prohibited.

- Obey all Iowa hunting regulations and respect the rights of the landowners when using the area. Treat the land as if it were your own and act responsibly. Current IHAP contracts are only for three to ten years. Hunter behavior may decide the future enrollment of these areas.

- Take all your trash with you when you leave an area. Make an effort to pick up any trash left by others.

- IHAP tracts are open from **September 1 through May 31st.**

- The maps that are provided are intended to assist users in identifying the locations of Iowa Habitat & Access Program properties. While every effort is made to ensure the accuracy of these maps, they are intended for use as a general reference. Signs will mark the actual IHAP boundary. **Use posted signs as the true boundaries.**

- At each IHAP site you will find checkout cards and drop box. When you are ready to leave, please complete a checkout card documenting your hunt and place in the drop box. Your feedback helps maintain good relationships with IHAP landowners.

At this time, there are no funds for any new IHAP projects. There is potential for funding in the 2018 Farmbill that Congress is currently working to complete.

Contact Information: Greg Schmitt, Iowa DNR Private Lands Biologist, 563-380-0373.

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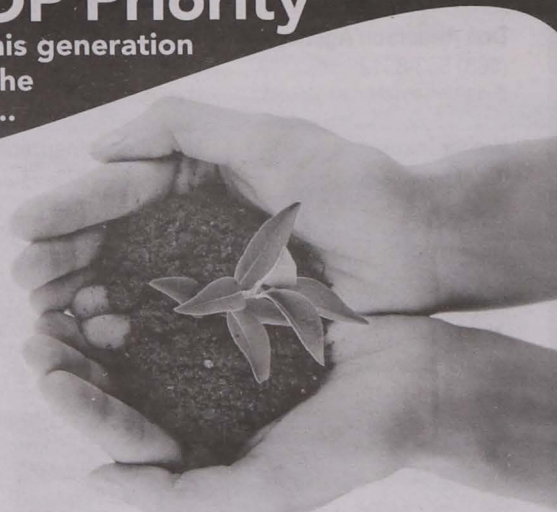
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Prescribed Burn Workshop Recently Conducted in Fayette County

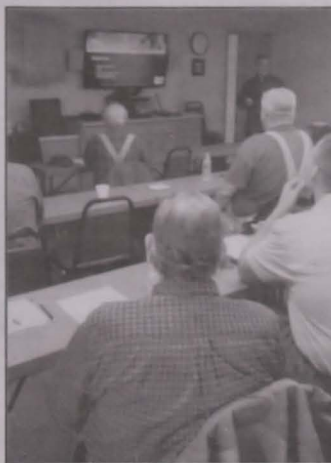
Allie Rath (319) 330-6015
arath@pheasantsforever.org



With more and more CRP participants choosing prescribed burning as their mid-contract management activity and the lack of burning contractors available, we wanted to increase the confidence of landowners to burn their own CRP safely and effectively. I partnered with many agencies (DNR, NRCS, Iowa Natural

Heritage Foundation - INHF, County Roadside/Conservation, National Weather Service, Volunteer Fire Department, and FSA) to deliver a Prescribed Burn Workshop that would inform landowners on all the important topics and factors when planning and conducting a prescribed burn on their ground. Not only did we have 14 landowners attend this 6-hour workshop, we were also able to strengthen partner relationships and elevate the topic of educational needs for private landowners in the state of Iowa. The workshop was influential enough to convince some landowners to implement firebreaks for their burns this spring.

A couple days after the workshop, one of the landowners invited me to come discuss the need for firebreaks. First, I went to the field which was planned to be burned this spring to make my notes. Then, I set up a time to sit down with the landowners. Over several cups of coffee I discussed with the husband/wife duo about where the firebreaks should go, how to clean them up, and when they should try to conduct the burn. They made several comments about how appreciative they were that they attended the prescribed burn workshop. The husband said, "It was very informative. The retired fire depart-



Brian Fankhauser, INHF, presenting on safety and smoke management at the burn workshop.

ment chief said it made a lot of sense to me. I'm excited for my first burn; the native grasses will really come and it'll be beautiful!" The workshop certainly seemed to be a success and something we will roll out annually and move around to other counties.

If you have any questions about how to conduct a prescribed burn, when you should burn, or to line up a site visit, please contact Allie Rath, Farm Bill Wildlife Biologist with Pheasants Forever at (319) 330-6015 or arath@pheasantsforever.org or contact your local Natural Resources Conservation Service office for assistance.

Changing Minds & Changing Soils

By Don Bahe, Commissioner



I hope this article will be approached with an invitation to explore a mind changing practice of no-till farming. Converting from conventional tillage to no-till can be such a radical change of mind-set that it is more like changing religions than changing churches.

Our venture into this paradigm shift started about 18 years ago. In 1999, we experienced two 5" gully washing downpours within seven days. Our existing tillage practice could not handle that volume of rain which resulted in severe erosion. The waterways were repaired, the ditches were filled in, but a large amount the productive black top soil was gone.

Our first no-till trial was a 67-acre field. The NRCS supported us with a program to help us get launched. I would like to say that everything worked great, but there was a steep learning curve (which accompanies most changes). In the end, the success, knowledge, and soil health gained were worth the risk.

It is now 2018, and we know so much more than we did then. When it comes to soil health, we often only looked on top and don't realize the complex biological activity going on underground. Part of no-till includes cover crops which is the seeding and growth of different cereal grains, brassicas & legumes. They offer two advantages. First, their roots help to hold the soil in place and prevented the soil from washing away. Second, no-till & cover crops improved water infiltration instead of running on the top of the soil. Third, and more important, is that cover crops provide food for the fungi, nematodes, and other beneficial organisms such as worms (aka night crawlers). Healthy soils can have populations of 500,000 worms per acre. Their job is to eat the corn leaves and some of the stalks of 30,000 to 40,000 corn plants per acre which then provides food for other soil organisms.

When given the opportunity, night crawlers can burrow six to seven feet into the soil and can live to be six years old. These burrows help to establish a natural drainage system. Instead of torrential rains running off and carrying soil with it, the rain water is able to filter down through these worm burrows. The ability to absorb rain water and reduce run off, is simply another benefit of no-till.

Today our farm tillage practice is 100% no-till. As with most changes, change cannot occur successfully overnight. To embrace such a change, it takes time, understanding, and a passion for your soil's health.

With cover crops and no-till, the conversion can be done in as little as 3 to 4 years, cost of cover crop seed and planting is \$25 to \$30 per acre. The benefits greatly outweigh the cost in the race for efficiency, sustainability, & profitability.

I hope this article give you some insight & hope into no-till farming.

The Iowa Soybean Association (ISA) develops policies and programs that help farmers expand profit opportunities while promoting environmentally sensitive production using the

Soybean Checkoff and other resources. The Association is governed by an elected board of 21 volunteer farmers and serves more than 11,000 members throughout the state.

ISA was organized in 1964 by a group of Iowa farmers who came together with a common goal - to increase the profitability of soybean production in the state. At that time, the U.S. grew 701 million bushels of soybeans at a price of \$2.62 per bushel. In 2004, the U.S. grew nearly 3.2 million bushels of soybeans at a price of \$5.65 per bushel. Iowa is always a top soybean-producing state, and in 2004 it grew 497 million bushels of the total U.S. crop.

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The Iowa Corn Growers Association (ICGA) is a membership organization lobbying on agricultural issues on behalf of its 8,000 members.

Both organizations work on the joint mission to create opportunities for long-term Iowa corn grower profitability.

We are now accepting new members! For more information, please visit us online at www.iowacorn.org.

Running on 'Low'

Richard E. Jensen, chairman
Fayette Soil and Water Conservation District

We understand that the land you operate is special to you and your family, but do you know that your land is special to us as well? All land is special to us, and we think it deserves to be treated with respect and appreciation. We are all obligated to be responsible caregivers of this most fragile and vital natural resources on Earth – our soil.

Because of this, we are encouraging every land-user in Fayette County to participate with us in making 2018 the "Responsible Land-User Year." Just request a farm visit to discuss and view your conservation concerns. We can offer free helpful information, technical assistance, and cost-share for a wide selection of conservation practices.

Following appropriate land-use recommendations will result in a healthy relationship with your soil, plant, animal, and human community. The loss of topsoil from your fields could be considered as a cost of production or expense similar to taxes, interest and depreciation. This is a loss that cannot be recovered or replaced. The movement of soil, known as erosion, by the natural force of wind and water is constant. Ethical land-users understand the consequence

of lost topsoil.

The most simple, humble, but vital device attached to all machines is the ordinary oil dipstick. The importance of an

inch or two below the "Add" indicator shows an unhealthy machine in need of attention from a responsible operator.

Likewise, the depletion of topsoil from the land cannot be ignored. If there were a "soil dipstick," many acres in Fayette County would indicate a need to "add" topsoil, which is impossible. Lost soil, like lost time, cannot be replaced; it can only be remembered as it once was.

The depletion of topsoil can be so slow and subtle that only the most "Responsible Land-User" recognizes that vanishing depth of this fertile soil.

Your signature as a land-user is written in your fields and testifies to your attitude of respectable and responsible land use. Our goal is to keep your soil healthy and in place for generations to come.

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Got a Gully? *Fix It, Don't Disc It!*

Conservation Compliance Change Requires Treating Ephemeral Gully Erosion on Highly Erodible Land

If you discover areas of ephemeral gully erosion this fall, visit your local Natural Resources Conservation Service office before disking any areas of highly erodible fields. Iowa farmers who participate in USDA programs will now be required to provide additional control of ephemeral gully erosion on their highly erodible fields after recent changes in conservation compliance requirements, State Conservationist Kurt Simon said.

This change is in response to a recent Office of Inspector General (OIG) report comparing compliance review procedures in several states. OIG recommended modifications to NRCS' compliance review procedures to provide more consistency across the nation. Thus, Iowa NRCS has made compliance review procedure adjustments that might impact farmers.

Since the passage of the 1985 Farm Bill, farmers have been required to control erosion on fields that are classified as highly erodible. Each spring, NRCS conducts compliance reviews on a random selection of highly erodible fields to determine if erosion has been adequately controlled. A

non-compliance ruling can affect benefits that farmers receive from USDA agencies in a number of ways—from Conservation Reserve program payments to Price Loss Coverage.

"Affected farmers will need to consider installing additional conservation practices to better control ephemeral gully erosion," Simon said.

Typical practices used to control ephemeral gullies include no-till farming, cover crops, grassed waterways, and terraces. Simon said NRCS employees will work closely with farmers to help them meet erosion-control requirements.

"We are available to help farmers identify ephemeral erosion in their fields or where it may occur in the future, and assist them with

applying the conservation practices that best fit their farming operations," he said.

If erosion control issues are identified during compliance reviews, producers may be given time to make adjustments and install needed conservation practices. He said Iowa NRCS offers financial assistance to help farmers install or implement conservation practices across the state. Landowners can sign up for voluntary Farm Bill conservation programs on a continual basis.

When in doubt, visit your local NRCS office before performing any tillage that is not part of your conservation plan on any land classified as HEL. For more information, visit NRCS at your local USDA Service Center.



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Soil Stewardship

Dr. Jennifer Stoffel, Associate Professor of Biology, Upper Iowa University

We are very fortunate to live in an area of the world where our soils are productive. In northeast Iowa the soils of the region developed under forest vegetation while the rest of the state developed under prairie vegetation. As landowners, we have inherited the right to be the steward of a piece of land that has been changing for thousands of years due to natural processes (e.g., wind and water erosion, leaching, decomposition). The end result is that our soils tend to be very productive for plant growth which is evidenced by our high corn suitability ratings.

While soil has been developing for thousands of years, as landowners we can facilitate natural processes or be drivers that can change the soil system and its productive capacity for better or worse. The top layers of the soil are the most productive due to the higher inputs of organic matter from dead plant material. Prairie plants have very deep root systems which have facilitated the development of soils with a lot of humus, the stable fraction of organic matter. Forest soils generally have a bit less humus that is at shallower depths.

The amount of humus found in the soil is tightly linked to the productive capacity of the soil because it can help soil hold and exchange nutrients. Soils with more humus tend to have less leaching of nutrients out of the plant profile. Humus also increases the ability of soils to infiltrate water during heavy rains, and store water during droughts. Soils with more humus tend to have more aggregates, structural units of soil, which provide

an important habitat for many soil organisms that help to recycle nutrients needed for plant growth. Soil productivity can be greatly changed by our decisions as land stewards. The top horizons of soil are the most productive because of the greater amount of humus.

Unfortunately, as humans, we can accelerate soil erosion through soil disruption and lack of soil protection. Soils are susceptible to wind and water erosion that cause the most productive horizons of the soil to be lost first. As we think about preserving our existing organic matter, we should explore mechanisms that minimize soil disruption. For example, considering conservation tillage instead of conventional plowing, or considering no-till instead of conservation tillage.

In the prairie and forest systems that developed our soils, there was much input of dead plant material from the forest or prairie system helping to feed the process of decomposition that helps increase soil humus. If we consider management practices to increase the input of organic matter we are helping to improve at least an aspect of soil health. In our agricultural systems we can help feed the soil by leaving crop residue on the field or by considering the use of cover crops. Cover crops increase the amount of residue that is integrated into the system while stabilizing the soil and reducing the impact of raindrop splash and decreasing the likelihood that soil will become airborne during wind erosion.

Our legacy of land stewardship will be paved by repeatedly

demonstrating through our actions that we can keep learning about improving soil health and water quality, and that we are willing to grow and change with the times. These dedicated efforts will be evident to future generations in the region's improved soil health and water quality.

Upper Iowa University Associate Professor of Biology Jennifer Stoffel (right) is pictured instructing a group of her soil and water conservation students during a 2017 field day at Jensen Farm near Elgin, Iowa.



NRCS Offers Assistance for Monarch Butterfly Habitat

Iowa landowners statewide have opportunities to receive planning and financial assistance of nearly \$600,000 through two USDA programs to implement habitat for Monarch butterflies on their land.

Monarch populations have declined markedly over the past 20 years. The loss of habitat, such as milkweed, that associated with changes in agricultural systems has emerged as a major factor in their decline.

To address Monarch habitat concerns, the Natural Resources Conservation Service (NRCS) is offering Iowa landowners assistance through the Environmental Quality Incentives Program (EQIP) and the Conservation Stewardship Program (CSP).

Through the EQIP Monarch Butterfly Habitat Development Project, landowners can add soil and water conservation practices on their farms such as conservation cover, contour buffer strips, and field borders that also help attract Monarchs.

Your local Natural Resources Conservation Service (NRCS) office can help develop a plan to address Monarch habitat or other resource concerns, and assist with financial assistance.

NRCS is also working with a group of conservation partners led by the National Fish and Wildlife Foundation through a Regional Conservation Partnership Program (RCPP) project called "Improving Working Lands for Monarch Butterflies." This project uses both CSP and EQIP funds. Iowa is one of eight states included in the project.

Additional practices such as grassed waterways, prescribed grazing, and conservation crop rotations are included as eligible practices in the RCPP project. The next application cutoff deadline for funding is March 2 for CSP and March 16 for EQIP. Both projects offer higher payment rates on conservation practices compared to many other USDA conservation programs.

To learn more about ways to implement Monarch habitat on your land, visit your local NRCS office or go to www.ia.nrcs.usda.gov.



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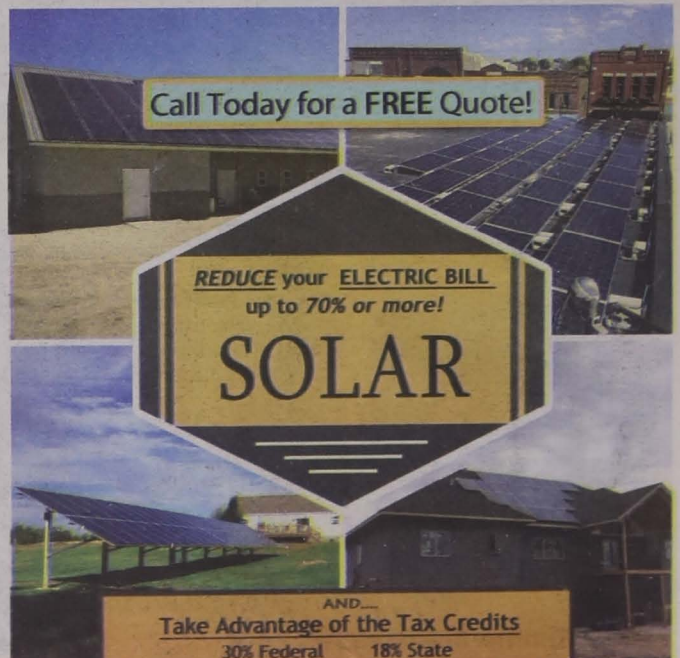


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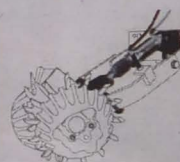
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