Leave a lasting legacy Gifts of Retirement Funds, Life Insurance, and Bank Accounts

Naming this Scholarship as a beneficiary of your retirement plan, IRA, life insurance policy, or bank or brokerage account is a generous way to make a legacy gift 'outside' a will. Like a bequest, these gifts help ensure the future of this scholarship and its contribution to a sustainable future food and fiber supply.

Beneficiary designations are easy to implement, and giving retirement funds is tax-wise strategy for many donors.

For retirement and life insurance accounts, you will need to request a change of beneficiary form from your plan or policy administrator.

For bank or brokerage accounts, you will need to fill out the appropriate form.

The following information will help you in completing the beneficiary forms:

Legal Name:

Rochester Area Foundation Attn: Sustainable Agriculture & Forestry Fund

Address:

12 Elton Hills Drive NW Rochester, MN 55901

Telephone: 507-282-0203

Tax ID: 41-6017740

EPA Intercedes in SE MN Drinking Water Problems

Here is the Nov. 3, 2023 response from the USEPA to the request for action on SE MN drinking water pollution problems:

"In April 2023, EPA received a Safe **Drinking Water Act section 1431** emergency petition regarding Southeast Karst Region ("Karst Region") of Minnesota, which encompasses roughly eight counties (Dodge, Fillmore, Goodhue, Houston, Mower, Olmsted, Wabasha, and Winona). The Minnesota Center for **Environmental Advocacy and** several other community organizations claim that nitrate contamination in public water systems and underground sources of drinking water (i.e., private wells) is causing an imminent and substantial endangerment to public health. EPA began reviewing the petition immediately and collecting information, including data, from the Minnesota agencies regarding

actions they have been taking to investigate and address the nitrate situation.

"On November 3, 2023, EPA determined that further action is needed to protect public health. **EPA requested that Minnesota** develop a plan and provide education and outreach as well as alternative drinking water to residents with water above the maximum contaminant level (MCL) for nitrate. EPA is requesting a response from the State within 30 days of our request with a timeframe for the work plan and other actions outlined in the letter. The work plan will address how the state will identify, contact, test drinking water, and offer alternative water to all impacted persons in the Karst Region."

(The above text from the USEPA website.)

If you too are concerned about the indiscriminate use of chemicals which are killing our pollinators, polluting our water, and negatively effecting our food supply, then **JOINUS** by donating today. Contributions to the Fund are fully tax deductible.*

100% of your donation goes to build this endowment fund!*

The purpose of this scholarship is to provide financial aid to individuals growing up in southeast Minnesota who are committed to sustainability in the fields of agriculture and forestry, have demonstrated leadership and communication skills, and are interested in pursuing a career in fields related to and advancing practices of sustainable agriculture and/or forestry. Sustainable practices ensure clean water, healthy regenerative soils, and vibrant rural communities for future generations.

The scholarship fund seeks to find the next generation of professionals who will learn how to manage our environment on a completely sustainable basis, provide food, fiber and shelter for people, and in the process protect our precious natural resources for our children and those yet to come.

Methods of contributions are numerous:

- A check or credit card* is wonderful.
- Matching funds from your employer.
- ☆ Direct tax-free transfers from an IRA.¹
- Endowments through your Estate Plan, wills or life insurance policies.1

1) See website for method and be sure to contact your financial advisor, accountant or lawyer for advise.

The Scholarship Endowment Fund is structured such that only earnings from the invested capital are used to pay for scholarship(s) and Fund operating expenses. This rule assures that the Fund will operate in perpetuity. The Rochester Area Foundation (RAF) is the steward of the Fund. RAF's administrative fees are 1.25% of the annual fund balance and are amply covered by RAF's investment performance. Neither scholarships nor fees are reducing the endowment equity!

* There is a cost for credit card donations.



To access the website with all its references, current and past newsletters, scholarship information, donor list and more, use your smart phone to scan the QR code.

For more details and references related to articles in this newsletter, visit our website:

www.protectourresources.org

Printed on 100% post consumer recycled paper. Forest Stewardship and Rainforest Alliance Certified. Envelope made from 100% recycled fibers. Note that the postage stamp on the envelope contributes to saving vanishing species.

Kernza[®], a Perennial Grain, is Changing Agriculture Around the World

Perennial Agriculture is the solution to many challenges we face from grain production today. Perennials are plants that can be left in the field to return for several years without the annual tilling that kills topsoil and leads to erosion and nutrient losses. Perennials develop a deep root system that helps sequester carbon, filter water, and keep continuous living cover on the land. Their ecosystem services offer contrast to the greenhouse gas-intensive practices of modern annual agriculture. They produce nutritious food crops while protecting natural resources, a winwin for farmers, farming communities, food companies, and home cooks. Additionally, the Kernza® crop can be grazed spring and fall in addition to being harvested for grain and stalk mid summer.

By Protecting Our Resources

The Sustainable Agriculture & Forestry Scholarship Endowment Fund Newsletter

Your help is needed.

While it took 10,000+ years to develop the annual grains we have now, and it took 80+ years to develop soy beans to its current status, Kernza® needs a market and higher yields. Work is continuously done by the University of Minnesota and other organizations around the world to bring Kernza® up to be a financial success.

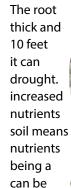
You can help by buying and using Kernza® grains in your family.

The 9th Year of the Sustainable **Agriculture & Forestry** Scholarship: **Application Portal** Opens on January 15, 2024.

Feel free to send us contacts to whom we can send information. The scholarship is for \$5,000 and recipients are free to apply again in following years. The purpose of this scholarship is to provide financial aid to individuals growing up in southeast Minnesota who are committed to sustainability in the fields of agriculture and forestry, and have demonstrated leadership and communication skills.

Details are available on our website: www.protectourresources.org

The extensive root system reduces nitrate leaching by up to 95% over that absorbed by corn plants (for ex.) and therefore protects the groundwater.



year after

disturbing the soil.

The

Grain

system is can go down which means handle Having access to found in the less added needed, and, perennial, it harvested year without

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Lots of Products to From Which to Choose

Kernza® Cinnamon Pancake Mix Sturdiwheat.com in Red Wing, MN



Kernza® Whole Grain is perfect for grain bowls or home brewing. \$9.25

High in fiber, protein and antioxidants

Wheat **Kernza®** Grain type Annual Perennial 18 g/100g Protein 10.8 g/100g Fiber 9.2 g/100g 19.2 g/100g Antioxidants Low High Insoluble fibers 8x Gluten Less than wheat

Because of its ability to take up nitrogen Kernza® is recommended as a crop on municipal water source areas in order to reduce/eliminate nitrate pollution.

Read interview with the inventor at https://modernfarmer.com/2017/03/wes-jacksonthe-land-institute-kernza/

Prepared and distributed by Deirdre Flesche and Dag Knudsen, Founding Contributors. Contact at dag@dagknudsen.com

Water Issues Are National AND Local

"America Is Using Up Its Groundwater Like There's No Tomorrow"

Minnesota has Drinking Water Problems

Newspaper Headlines tell the story:

"State finds 56% of Minnesota's lakes and streams are 'impaired'"

Little action so far on plan to enlist farmers to clean up polluted groundwater in Minnesota

vital to our
health than the
safety of the
food and water
we put into our
bodies

Groundwater loss is hurting breadbasket states like Kansas, where the major aquifer beneath 2.6 million acres of land can no longer support industrial-scale agriculture. Corn yields have plummeted. If that decline were to spread, it could threaten America's status as a food superpower.

A naturally occurring, cancer-causing heavy metal, arsenic is often trapped in clay, a common soil type. But it can be released into drinking water supplies when aquifers are over pumped.

In general, as people drill deeper wells, the likelihood of arsenic contamination increases. And as shallower groundwater supplies are depleted, he said, more people are drilling deeper wells.

In late 1990s, Wichita County farmers produced 165 to 175 bushels of corn per acre. But it came at a cost, in order to irrigate their crops farmers drained the aquifer. The area gets less than 20 inches of rain a year, on average, about one-third less than the continental United States as a whole — not nearly enough to replace the water being pumped from the ground. That change is reflected in corn yields. Last year, corn growers nationwide produced an average of 173 bushels per acre. But for Wichita County, the yield was just 70.6 bushels, the lowest in more than six decades.

Southeast Minnesota's Serious Drinking Water Problems

Another Newspaper Headline tells the story:

Nitrate levels in 8 southeast Minnesota counties near crisis point

From a report by the Minnesota Center for Environmental Advocacy:

Nitrate pollution and the public health crisis in SE Minnesota

Contaminated drinking water is linked to cancer, birth defects and pregnancy complications

- 1. Over 500,000 Minnesotans face a drinking water crisis fueled largely by agricultural nitrate pollution from fertilizer and manure seeping into surface and groundwater sources.
- 2. The problem has reached crisis proportions in Southeastern Minnesota, where industrial agricultural practices like Concentrated Animal Feedlot Operations (CAFOs) combined with the region's porous geography leave water supplies particularly vulnerable to nitrate pollution.
- Consuming nitrate-contaminated drinking water is linked to a host of concerning health harms, including some cancers, birth defects and pregnancy complications.

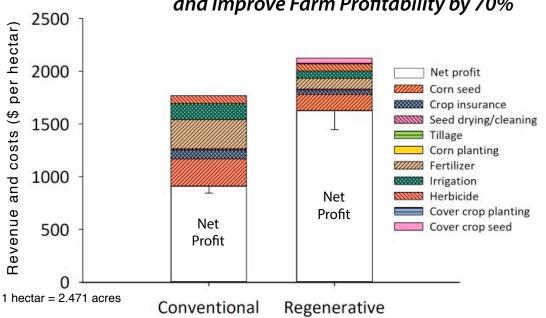
See last page for latest news from US Environmental Protection Agency

In 2016, the US Environmental Protection Agency (EPA) identified phosphorus and nitrogen discharges from U.S. farmland as "the single greatest challenge to our nation's water quality."

Regenerative Farming is the Solution to Nitrate Pollution:

The 6-step Regenerative Farming Process Conserves Soil and Water Resources,
Improves Soil Health, Minimizes Pollution, and Displaces Input-Intensive Agricultural Practices,
all While Enhancing Farm Profitability.

Research Shows Regenerative Practices Solve Environmental Problems and Improve Farm Profitability by 70%



Regenerative corn fields generated nearly twice the profit of conventionally managed corn fields.

The heights of the bars represent average gross profits across all 40 fields [studied] (in each treatment). Profit was calculated using direct costs and revenues for each field and excludes any overhead and indirect expenses. Regenerative cornfields implemented three or more practices such as planting a multi species cover mix, eliminating pesticide use, abandoning tillage, and

integrating livestock onto the crop ground. Conventional cornfields used fewer than two of these practices. The regenerative systems had 70% higher profit than conventional cornfields ($\alpha = 0.05$; n = 36 fields in each system). Seed drying, corn planting, and cover crop planting are present on the graphs, but were negligible costs.

Source: Regenerative agriculture: merging farming and natural resource conservation profitably by Claire E. LaCanne 1 and Jonathan G. Lundgren.

Case Studies Show that Regenerative Farm Practices Solve Financial, Social and Environmental Problems

Example 1: Rick Clark farms 7,000 acres organically in Indiana as reported in *The Furrow* Sept/Oct 2023. And he is profitable while farming without dependence on tilling, applied fertilizer, herbicides, nitrogen, lime, insecticides, fungicides, crop insurance nor other subsidies.

Example 2: Gabe Brown farms 5,000+ acres in North Dakota. In his book, Dirt to Soil, One Family's Journey into Regenerative Agriculture, he describes how farming without dependence on farm chemicals, operating without tilling the soil, and

incorporating multi species cover crops has become a profitable venture. He describes how conversion to regenerative practices after four straight years of crop failures under the "conventional" farming practices saved his farm. And this without dependence on crop insurance and federal programs. Living in an area with limited rain he experienced a more than three fold increase in soil organic matter and a resultant increase from 40,000 to 100,000 gallons of water storage capacity per acre. Droughts are not a problem for his operation any more—even in an area with very low precipitation.

Example 3: The Stoney Creek Farm in Redwood Falls, MN: "The financial performance and position of Stoney Creek

Farm has been strengthening since they began the transition to regenerative agriculture."
Their story is a worthwhile and interesting read. Find it at https://soilhealthacademy.org/casestudy/stoney-creek-farm/

Examples 4 – 32: Sustainable
Farming Association has so far
published three volumes of case
studies covering 28 farmers
practicing regenerative practices
and experiencing improved
financial and environmental results.
https://sfa-mn.org/resourcelibrary/ Volume III is specific to
Southeast Minnesota.

References to sources can be found on the web site: www.protectourresources.org