#### ...Flexibility, from page 14

up and got started. I'm really optimistic about what the future holds as we expand and diversify the operation and improve the soil health."

- → Romano: How does your off-farm job as a bank examiner influence the way you view farm profitability?
- ◆ Knutson: "One of the big things has been learning from the financial statements of a wide variety of farmers and just getting the exposure to seeing that the average return on assets on beef cattle is notoriously low. It really depends on your area and your farming practices, but in my unprofessional opinion, I would say that 2% is a common return on assets. So, when you are making an investment on the farm and considering whether or not you want to buy that piece of machinery and whether you want to make or buy hay, it's really about considering where you put your capital investments to try and maximize that return on assets. It gives a different perspective on borrowing money. Borrowing money can definitely be a good tool. There are certain circumstance where it pencils out and certain circumstances where it doesn't.

"To me, there's a lot of thought that goes into what enterprises I want to bring into the whole diversity of the operation and which ones I don't. I personally lean towards having the minimal amount of machinery around to get the job done, particularly when it comes to mechanically harvesting forage. I know there are a lot of people around that make hay, and it can certainly be economically viable, but I prefer to let the cattle do the majority of harvesting. I am working out how we can extend the availability of forages that the cattle can harvest throughout the year so that we can just avoid needing that machinery, and whatever hay that we do bring in I look at as bringing in soil nutrition. If you compare opportunity costs between a haymaking enterprise and using machinery versus letting the cattle harvest it, you may be able to harvest more pounds with the machinery but is it really getting more than that 2% return on assets?

"I think if you look at what the cattle are able to harvest when you already got the investment into the land and you've already got the investment into the cattle, letting them do the harvesting instead of a machine has a really big influence on changing that return on assets value.

"It doesn't make sense for my operation to borrow money to buy equipment that can make hay, especially when I'm just getting started. If you are borrowing money, is that borrowed money working for you or are you working for the entity you borrowed it from?"

- → Romano: What are looking to try in the future that gets you excited?
- ♦ Knutson: "One thing that I tried this year was at home we had some ground that a piece of a tin shed roof had collapsed on and it laid out there for a full summer and through the winter. There was just a bunch of dead grass out there, so I planted some pepper plants into it and didn't weed it just to see what would happen. I personally don't like weeding gardens it's a lot of labor and it takes all the fun out of it. I'd much rather just walk out there, pick the crop, and call it good.

"The cool season grasses did not seem to compete with those pepper plants we put in there. They grew up and covered the soil around the pepper plants, but when we got into July and August the grass stopped growing just like we see in our pastures and that was when the pepper plants took off. This is something I would like to try in our sacrifice paddocks where we can plant higher value summer annual plants — peppers, tomatoes — and see if we can't get an extra source of revenue off that ground while also giving it an opportunity to rest and re-set.

"Going back to the marginal costs, some

### Join the Soil Builders' Network

Join the Land Stewardship Project's Soil Builders' Network to get regular updates on workshops, field days, and on-farm demonstrations, as well as the latest soil health and cover crop research. For more information on joining, see the Soil Builders web page at www.landstewardshipproject.org/lspsoilbuilders, or call 507-523-3366.

On the Soil Builders web page, you'll also find fact sheets, videos, podcasts, and other resources related to creating healthy soil profitably.

people would argue if you weed it you get a better crop. There's a reason people went to weeding, but if you look at the value of your time, does the marginal return equal the marginal cost? So, I want to kind of experiment in the future when we have these sacrifice paddocks with these cattle, areas that really get beat up by the cattle. I think we should consider applying the same principles of planting summer annual vegetable crops in that ground. In the heat of summer, they are going to be thriving, giving you food for your family and potentially providing crops to sell at a farmers' market."

# LSP Releases Reports on Soil Health Initiatives

In October, two reports were released that summarize ways the Land Stewardship Project has been bringing together farmers and others around agricultural practices that build soil health profitably. The reports' purpose is to provide insights to others who might want to borrow or adapt some of the approaches LSP has used. It's hoped these reports inspire others to develop their own ideas and share them with the rest of

the regenerative farming community.

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## 10% Project

The Chippewa 10% Project was launched in 2010 to help farmers adopt practices that can reduce pollution in the Chippewa River watershed in west-central Minnesota. By the

time it wrapped up in 2018, the initiative had utilized cutting-edge research, kitchen table conversations, field days, and farmer-to-farmer education to successfully promote soil friendly practices in the basin.

The 10% Solution in Minnesota's Chippewa River Basin: Why 10%?—Context,

Approaches & Impacts, which was written by George Boody, is at www.landstewardshipproject.org/stewardshipfood/chippewal0project.

### **Bridge to Soil Health**

LSP's Bridge to Soil Health Program was launched in 2015 in southeastern Minnesota to significantly scale-up the number

of crop and livestock farmers in the Upper Midwest implementing soil building farming methods and talking publicly about what they are doing. Five years later, the program has become a model for how to utilize extensive farmer-to-farmer networks and innovations in crop and livestock production to expand soil-friendly

farming practices that are practical and profitable.

Building the Bridge to Soil Health: The Power of Organizing Farmer-to-Farmer Engagement was written by Doug Nopar. It's at www.landstewardshipproject.org/soilbridge.



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