THRIVING BY DESIGN II
ACHIEVING RURAL-URBAN ECONOMIC AND COMMUNITY HEALTH

FOOD SYSTEMS ACROSS SCALES

FRAMING AND DISCOVERY PANEL PRESENTATION
FOOD SYSTEMS ACROSS SCALES

PANEL PRESENTERS

• Rob Proulx — UM Crookston
• Noelle Harden — UM Extension
• Simone Senogles — Indigenous Environmental Networks
• Carol Ford — UMM & Deep Winter Greenhouse Project

MODERATOR

• Linda Kingery — UM NW Regional Sustainable Development Partnership

THRIVING BY DESIGN II
NATURE-BASED RECREATION AND TOURISM

CROPPING SYSTEMS AND ECOSYSTEM SERVICES

ROB PROULX

THRIVING BY DESIGN II
Land Cover

- Wetlands: 29.2%
- Forest: 15.8%
- Soybeans: 14.6%
- Spring Wheat: 8.3%
- Open Water: 8.3%
- Corn: 7.6%
- Developed: 3.9%
- Alfalfa: 2.6%
- Pasture/Grass: 2.5%
- Sugarbeets: 2.4%
- Other Hay/Non Alfalfa: 2.2%
- Dry Beans: 0.5%
- Shrubland: 0.4%
- Barley: 0.3%
- Fallow/Idle Cropland: 0.3%
- Sod/Grass Seed: 0.2%
- Sunflower: 0.2%
- Winter Wheat: 0.2%
- Potatoes: 0.1%
- Oats: 0.1%
- Canola: 0.1%
Figure 2. Ecosystem services from focal land. Seven ecosystem services derived from 16,727 hectares of focal land under continuous-corn (gray polygon at center) and perennial-grass (green polygon at center) bioenergy scenarios. Note that axes for phosphorus pollution and nitrous oxide emission are reversed so that the most positive environmental outcomes are consistently furthest from the origin.

Reference
Meehan et al., 2013
Mean normalized benefit-cost ratio

-1.03 - -0.53
-0.53 - -0.24
-0.24 - 0.06
0.06 - 0.34
0.34 - 3.17

Reference: Meehan et al., 2013
Questions/Issues

1) What ecosystem services are valuable to the community in question?

2) What is the best way to promote the vitality of these services (e.g. enticement vs. punitive action)?

3) How might a better system be designed and implemented?
NATURE-BASED RECREATION AND TOURISM

FOOD SYSTEM

ASSETS AND ACCESS

NOEL HARDEN

THRIVING BY DESIGN II
THREE CHALLENGES OF TODAY’S FOOD SYSTEM

Noelle Harden
ONE PERSPECTIVE
MONOCULTURE
FOOD DESERTS IN FARGO - MOORHEAD

Source: Metropolitan Food Systems Plan 2013

MONOFUNCTIONALITY
MULTIFUNCTIONALITY

http://www.cookwholegrains.com/growing-new-food-traditions/
MONOLOGUE
DIALOGUE

Minnesota
FOOD CHARTER
For Our Healthy Future

[Photos of people in a meeting and notes on a whiteboard discussing various topics related to food and health, such as 'Indian Country', 'Youth', 'Elders', 'Food Justice', 'Healthcare', 'Food Skills', and 'Distribution/Transportation'.]
The Northwest Region

Growing Forward Thief River Falls

Headwaters Food Sovereignty Council

Cass-Clay Food Systems Initiative

Detroit Lakes Community Food Partnership

Fergus Falls Community Food Partnership

Data Source:
USDA Cropland Data Layer
THANK YOU
NATURE-BASED RECREATION AND TOURISM

TRADITIONAL AND NATURAL FOODS

SIMONE SENOGLES

THRIVING BY DESIGN II
SIMONE SENOGLES
INDIGENOUS ENVIRONMENTAL NETWORK
FOOD SOVEREIGNTY PROGRAM
FOOD SYSTEMS - RELATIONSHIPS

- Food
- Self
- Family/community
- Environment
- plants and animals
WE ARE NOT ALWAYS HONORING THOSE ESSENTIAL RELATIONSHIPS, WHICH ARE NECESSARY FOR A HEALTHY FOOD SYSTEM

Photo courtesy of WaterLegacy
HOW DO WE USE/ABUSE FOOD SOURCES?
When we take care of the land, we take care of us. If we destroy this land, we destroy ourselves.

- Chief Jackie Thomas

speaking at #ForwardOnClimate on 2/17/2013
WHOA! LISTEN TO THIS:
"NATURE IS COMPLEX."
"INTERWOVEN."
"CONNECTED."

WHAT WILL THEY "DISCOVER"
NEXT?

NO WAY!
WHITE EARTH TRIBAL COLLEGE COMMUNITY GARDEN
INDIGENOUS RESISTANCE. ENVIRONMENTAL JUSTICE

DEAR ENBRIDGE,

FIRST NATIONS UNITED WILL NEVER BE Defeated!
Native and non-native alliances
BUILDING RELATIONSHIPS
LOCAL FOOD SYSTEMS PRODUCTION TO DELIVERY

CAROL FORD

THRIVING BY DESIGN II