Round River Farm
Producing Healthy Food While Protecting Our Planet

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Wolf Ridge Organic Farm
MOSES Board

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ENERGY
Windmill
Well Water
Household Tanks
2200 gallons
RainWater
Collection Tanks

About 60 gallons
Per 100 sq ft of roof
Per inch or rain

1100 gallons
Natural Ponds
Abazs Greywater System

From House:
Wastewater from shower, bath, sinks, and washing machine

Septic Tank:
Norwesco 500 gal. plastic sphere

Scum:
Floats to top

Solids:
Settle to bottom

Outlet:
Cleanest water is drawn from middle of tank

Float Switch:
Empties 30 gallons per cycle

Irrigation Line:
\( \frac{1}{2} \) inch plastic

Overflow drain:
Drain to prevent backup into house

Pod Filter Tank:
Norwesco 300 gal. plastic sphere

Sewage Pump:
Myers ME40, 0.4 hp at 48 VDC

Drain Tile:
20 inches diameter, 3 feet tall, fills from bottom up

Filter:
\( \frac{3}{4} \) inch rock

Greenhouse Irrigation Run:
\( \frac{1}{2} \) inch perforated plastic line inside of 3 inch drain tile

Orchard Irrigation Run:
\( \frac{1}{2} \) inch perforated plastic line inside of 3 inch drain tile

Lawn Irrigation Run:
\( \frac{1}{2} \) inch perforated plastic line inside of 3 inch drain tile

Clean-out Boxes:
Allow access to both ends of irrigation line for valve operation or line replacement

Valves:
Allow variation in greywater distribution

PVC Culvert:
20 inches diameter, 3 feet tall, fills from bottom up

Filter:
Pea gravel
Used Vegetable Oil Powered Car
50 miles/Gallon

Community Supported Agriculture
A Locally Adapted Food System Assessment

Can we grow the food we need to feed this region’s population? What is our carrying capacity?

Western Lake Superior Region
Landscape Assessment

35% open water, wetlands
9% on greater than 15% slope
9% protected and developed lands

Still ... 45% area left in MN
6,093,900 acres

70% area in WI
3,459,200 acres
Minnesota Counties
Aitkin (15,736)
Carlton (33,933)
Cook (5,437)
Itasca (44,512)
Koochiching (13,251)
Lake (10,609)
Pine (28,297)
St. Louis (196,864)

Wisconsin Counties
Ashland (16,295)
Bayfield (14,926)
Burnett (16,196)
Douglas (43,774)
Iron (6,197)
Sawyer (17,117)
Washburn (16,712)

Population
479,856
Regional Food Production

SAD FOOD PRODUCTION

100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%

17

76

7

NEVER PRODUCED LOCALLY
COULD BE PRODUCED LOCALLY
PRODUCED LOCALLY

Standard American Diet (SAD)
Create …a "regional pattern" diet model and look at the impacts a local foods eating shift would have on the collective physical and economic health of the community compared to a typical SAD diet…