

Ausborn Farm Organic Transition Field Day

July 11th, 2017



Agenda / Overview

- Quick review of organic agriculture
- Steps to get certified
- Transitional and organic rotations
- Benefits of small grains
- Budgets and Marketing options
- Paul Mugge and Seth Smith
- Tour oat field
- Tour equipment

Organic Overview: Iowa

2014 Organic Survey

- 6th in the nation for total number of organic farms: 612
- Roughly 100,000 acres certified organic
- Over 102 million in organic sales
- Organic grain corn: #1 with over 25,000 acres (15% nationally)
- Organic Soybeans: #1 with over 15,000 acres (18 % nationally)
- #1 in organic hogs
- 8.6 million organic eggs



Organic Rules

- 36 months with no application of prohibited materials prior to first harvest of organic crops
 - No use of prohibited synthetic fertilizers, pesticides, or GMO's
- Implementation of an Organic System Plan
- Choose a certification agency
- Submit application before the first year of organic (Feb-April 2018)
- Organic Inspection
- Review and certification, payment to accredited agency

Ausborn Farm



Ausborn Farm History

- Started farming in Iowa 1985
- Moved to current location 1988
- Purchased this farm in 1996
- Started transition in summer of 2015 (50 acres)
- Additional 10 acres added to transition summer of 2016



#1 Decision: Why Organic

- It's FUN: brings joy and fulfillment
- It's not the convention ag cycle
- Believe in the process and the product
- Network of resources: farmers, universities, associations
- Ability to provide with less acres
- Sustainability and resource management
- Knowledge of organic farming methods
- Equipment inventory / access to land
- Storage

Ausborn Farm Transition Plan: What fields to convert

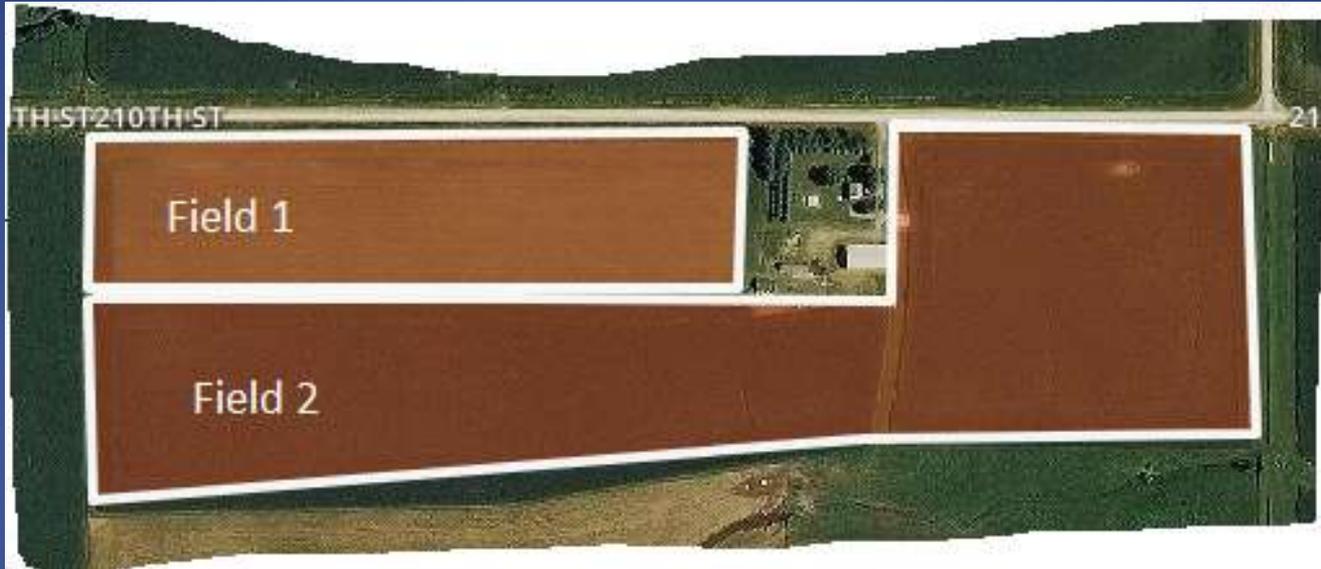


Ausborn Farm Transition Plan:

What fields to convert

- Owned or rented
- Topography
- Crop history and management techniques
- Location and previous crop
- Workload
- Access to livestock
- Field border and isolation
- Proximity to house

Rotation and Transition Plan



Field 1

2015 crop – Corn (cnv)
2016 crop – Alfalfa/oats (T)
2017 crop – alfalfa (T)
2018 crop – Organic Corn

Field 2

2015 crop – Corn (cnv)
2016 crop – Soybeans (T)
2017 crop – oats/alfalfa/rc (T)
2018 crop – Organic Corn

Field 1- Oats/Alfalfa transition

- 2016
 - March 18- Applied 1 ton turkey manure
 - March 22- Seeded oats and alfalfa
 - July 10- Direct cut oats
 - July 14- Baled straw, small square and large round
 - August 25- Cut and bale hay/straw stubble, large rounds
 - November 21 – Applied 1.5 ton turkey manure
- 2017
 - May 27- Cut hay
 - May 30- Bale hay, large rounds























Benefits of Small Grains

- Rotational diversity
 - Helps compete against summer weeds, uses less chemicals
 - Decrease in root diseases and pest cycles
 - Increases soil health
- Improve water quality
 - Capture water and nitrates in the spring and fall
 - More roots in the ground more often
- Help to establish cover crop
- Breaks the weed cycle in organics, required in the rotation









Field 2- Soybean transition

- 2016
 - May 7- Disc
 - May 19- Field Cultivate
 - May 20- Plant Soybeans
 - May 22 and June 2- Rotary Hoe
 - June 12 and June 27- Cultivate
 - July 16, August 8, August 23- Walk beans
 - October 13- Harvest
 - October 14- Seeded cover crops
 - December 2- Applied 1 ton turkey manure
- 2017
 - March 10- Field cultivate west half
 - March 19- Field cultivate east half
 - March 19- Seeded oats. Underseed alfalfa east, red clover west



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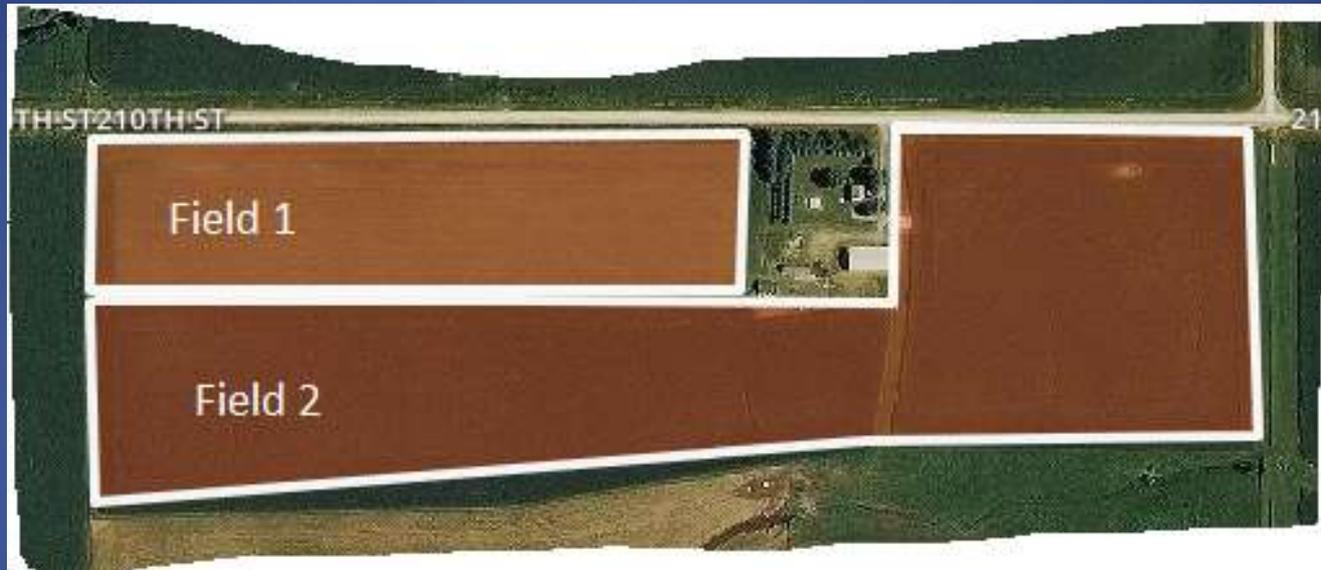
Bullet Note

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Tentative Organic Rotation



Field 1

2018- Organic Corn
2019- Organic Soybeans
2020- Organic Corn
2021- Organic Oats/Alfalfa
2022- Organic Alfalfa or Corn

Field 2

2018- Organic Corn
2019- Organic Soybeans
2020- Organic Small Grain
2021- Organic Corn
2022- Organic Soybeans

Transitional Markets

- USDA Certified Transitional Program
- Soybeans- look at non-GMO and food grade markets
- Oats- milling quality above 36 TW
- Straw- small squares, possibly certified weed free markets
- Corn- small premium for Non-GMO
- Hay- not known
- USDA- NRCS- EQIP- CAP138- Transition to Organic Plan

Organic Grain Markets

- Feed processors
- Food processors
- Direct market to feeders
- MOSES Resource Directory-
<http://directory.mosesorganic.org/>
- Iowa Organic Association
 - Organic Farmer Resources and Services
http://www.iowaorganic.org/organic_farmer_resources_services

Organic Soybeans

Ag Decision Maker A1-18 -- Iowa State University Extension and Outreach

For more information, see Information File, A1-18 [Organic Crop Production Enterprise Budgets](#).

Place the cursor over cells with red triangles to read comments.

Enter your input values in shaded cells.

	Quantity		\$/Unit	Total per Acre	
Receipts					
Organic soybean sales (cleaned)	56	bu	\$12.21	\$680.03	1,791 bushels sold total
Organic soybean sales (screened)	0	bu	\$0.00	\$0.00	
Total Receipts	56			\$21,761.08	21, 868 / 32 = \$683.37
Income Per Acre					
				\$680.03	
Preharvest					
Fall - disk stalks			\$3.80	\$2.60	\$6.40
Fall - plant rye			\$2.90	\$1.50	\$4.40
Spring- disk stalks			\$3.80	\$2.60	\$6.40
Field cultivate			\$2.70	\$2.40	\$5.10
Plant			\$6.20	\$4.90	\$11.10
Rotary hoe (2x)			\$3.60	\$2.00	\$5.60
Row cultivate (2x)			\$5.20	\$4.60	\$9.80
Other			\$0.00	\$0.00	\$0.00
Total Machinery Costs			\$28.20	\$20.60	\$48.80 Per Acre
Soybean seed (price per bushel)				\$1,914.00	\$59.81 Per Acre
Quantity	66.0				
\$/Unit	\$29.00				
Ryegrass seed (price per bag)				\$175.00	\$5.47 Per Acre
Quantity	5.0				
\$/Unit	\$35.00				
Crop insurance				\$5.00	\$5.00 Per Acre
Misc. expenses				\$0.00	\$0.00
Interest on preharvest variable costs				\$0.00	\$0.00
length of period (months)	0				
interest rate	0.0%				
Harvest					
Combine			\$15.90	\$6.80	\$22.70 Per Acre
Haul (per bushel)			\$2.40	\$2.40	\$4.80 Per Acre at 60 Bushel
Fixed- price per bushel	\$0.04				
Variable- price per bushel	\$0.04				
Handle (per bushel)			\$1.20	\$1.20	\$2.40 Per Acre at 60 Bushel
Fixed- price per bushel	\$0.02				
Variable- price per bushel	\$0.02				
Total Harvest Costs			\$19.50	\$10.40	\$29.90 Per Acre
Labor (hours per acre)			\$0.00		\$0.00
Hours	0				
Rate	\$13.00				
Land (cash rent equivalent)			\$0.00		\$0.00
Total Costs Per acre				\$148.98	Machinery + Seed + Insu + Harv
Net Profit Per Acre				\$531.05	
Total Income				\$21,761.08	
Total Equipment Costs				\$2,518.40	\$48.80 + \$31.10 = \$79.90 x 32 ac
Total Seed Costs				\$2,089.00	Soybean and Rye seed
Crop Insurance				\$160.00	
Total Costs without trucking				\$4,767.40	pay to Jack
Total Trucking Cost		\$0.68/bushel		\$1,222.64	1,798 bushels Total
Total Net Profit				\$15,771.04	

Organic Oats

Ag Decision Maker A1-18 -- Iowa State University Extension and Outreach

For more information, see Information File, A1-18 [Organic Crop Production Enterprise Budgets](#).

Place the cursor over cells with red triangles to read comments.

Enter your input values in shaded cells.

	Quantity	\$/Unit	Total per Acre	
Receipts				
Organic oat sales	97	bu	\$2.50	\$242.50
Straw sales small square	31.0	bales/acre	\$4.00	\$124.00
Organic alfalfa sales large round	1.5	bales/acre	\$60.00	\$90.00
Total Receipts				\$456.50
				1,360 bushels Total = \$3,400 428 bales sold= \$1,709 (no rounds) 21 round bales / 14 acres
Establishment				
		Fixed Cost	Variable Cost	
Field cultivate		\$2.60	\$2.30	\$4.90
Harrow		\$2.00	\$1.30	\$3.30
Drill oats		\$4.40	\$3.70	\$8.10
Cultipack		\$2.60	\$2.30	\$4.90
Other		\$0.00	\$0.00	\$0.00
Total Machinery Costs		\$11.60	\$9.60	\$21.20
Oat Seed (unit price per bushel)			\$280.00	\$20.00
Quantity	30.0			
\$/Unit	\$9.33			
Alfalfa mix (unit price per pound)			\$1,026.00	\$73.30
Quantity	5.0			
\$/Unit	\$205.20			
Crop Insurance			\$0.00	\$0.00
Turkey Manure (1 ton per acre)		Total	\$564.00	\$47.00
Interest on preharvest variable cost			\$0.00	\$0.00
length of period (months)	0			
interest rate	0.0%			
				\$35 + \$12/ton haul= \$47 per ton
Total Seed and Manure Cost Per Acre				\$140.30
				Per Acre
Harvest				
Combined		\$11.70	\$4.30	\$16.00
Haul oats		\$0.00	\$0.00	\$0.00
Fixed- price per bushel	\$0.04			
Variable- price per bushel	\$0.03			
Handle oats		\$0.00	\$0.00	\$0.00
Fixed- price per bushel	\$0.02			
Variable- price per bushel	\$0.02			
Baled oat straw (large round)		\$11.50	\$7.00	\$18.50
Haul oat straw		\$0.00	\$0.00	\$0.00
Fixed- price per ton	\$0.00			
Variable- price per ton	\$0.00			
Mowed alfalfa mix		\$6.20	\$3.60	\$9.80
Raked alfalfa mix		\$3.50	\$2.10	\$5.60
Baled alfalfa mix (large round)		\$11.50	\$7.00	\$18.50
Haul alfalfa mix		\$0.00	\$0.00	\$0.00
Fixed- price per ton	\$1.87			
Variable- price per ton	\$2.47			
Total Harvest Costs		\$44.40	\$24.00	\$68.40
Labor (hours per acre)		\$0.00		\$0.00
Hours	0			
Rate	\$13.00			
Land (cash rent equivalent)		\$0.00		\$0.00
Total Costs per Acre				\$229.90
				Machinery + Seed/Manure + Harvest
Net Profit per Acre				\$226.60
Total Income				\$6,369.00
				\$3,400 oats + \$1,709 straw + 1,260 hay
Total Equipment Costs			\$1,302.00	\$21.20 + \$71.80 = \$93 x 14 acres
Total Seed and Manure Cost			\$1,870.00	Oat and Alfalfa and Manure cost
Total Equipment and seed cost			\$3,172.00	pay to Jack
Total Net Profit			\$3,197.00	

Take Home Points

- Better understanding of organic farming
- Utilization of conservation techniques
- Diversifying rotations with small grains and cover crops
- New ideas for weed control
- Community engagement



Thank You and God Bless
Ausborn Family









