

# Ausborn Farm Organic Transition Field Day

## July 11<sup>th</sup>, 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

- 6<sup>th</sup> 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

An aerial photograph of a watershed area, with sub-catchments outlined in green and numbered. The numbers are: 12, 32, 80, 26, 8, 40, 60, and 160. A road labeled 59 is visible on the right side of the map.



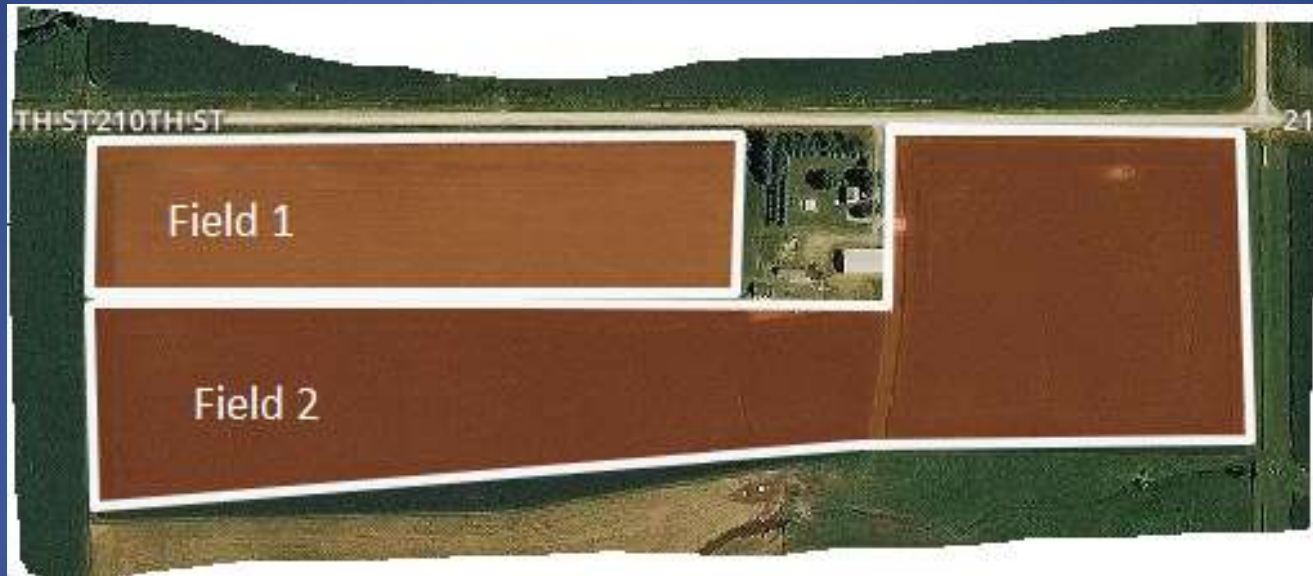


# Ausborn Farm Transition Plan:

## 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



































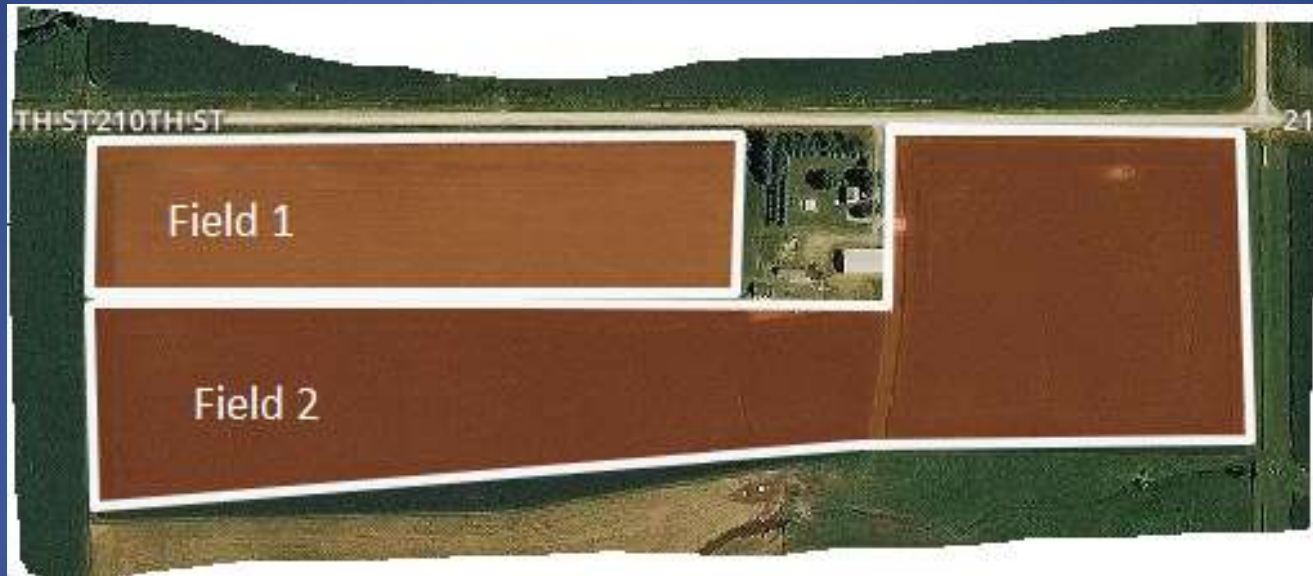








# Tentative Organic Rotation



## 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](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	
<b>Receipts</b>					
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	
<b>Total Receipts</b>	56			<b>\$21,761.08</b>	<b>21, 868 / 32 = \$683.37</b>
<b>Income Per Acre</b>				<b>\$680.03</b>	
<b>Preharvest</b>			<b>Fixed Cost</b>	<b>Variable Cost</b>	
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			<b>\$28.20</b>	<b>\$20.60</b>	<b>\$48.80</b> Per Acre
Soybean seed (price per bushel)				\$1,914.00	<b>\$59.81</b> Per Acre
Quantity	66.0				
\$/Unit	\$29.00				
Ryegrass seed (price per bag)				\$175.00	<b>\$5.47</b> 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%				
<b>Harvest</b>					
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			<b>\$19.50</b>	<b>\$10.40</b>	<b>\$29.90</b> Per Acre
Labor (hours per acre)			\$0.00		\$0.00
Hours	0				
Rate	\$13.00				
Land (cash rent equivalent)			\$0.00		\$0.00
<b>Total Costs Per acre</b>				<b>\$148.98</b>	Machinery + Seed + Insu + Harv
<b>Net Profit Per Acre</b>				<b>\$531.05</b>	
<b>Total Income</b>				<b>\$21,761.08</b>	
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	
<b>Total Costs without trucking</b>				<b>\$4,767.40</b>	pay to Jack
<b>Total Trucking Cost</b>		\$0.68/bushel		<b>\$1,222.64</b>	1,798 bushels Total
<b>Total Net Profit</b>				<b>\$15,771.04</b>	

# Organic Oats

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	Quantity	\$/Unit	Total per Acre	
<b>Receipts</b>				
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
<b>Total Receipts</b>				<b>\$456.50</b>
1,360 bushels Total = \$3,400 428 bales sold= \$1,709 (no rounds) 21 round bales / 14 acres				
<b>Establishment</b>				
		<b>Fixed Cost</b>	<b>Variable Cost</b>	
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		<b>\$11.60</b>	<b>\$9.60</b>	<b>\$21.20</b>
Oat Seed (unit price per bushel)			\$280.00	<b>\$20.00</b>
Quantity	30.0			
\$/Unit	\$9.33			
Alfalfa mix (unit price per pound)			\$1,026.00	<b>\$73.30</b>
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%			
<b>Total Seed and Manure Cost Per Acre</b>				<b>\$140.30</b>
				Per Acre
<b>Harvest</b>				
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		<b>\$44.40</b>	<b>\$24.00</b>	<b>\$68.40</b>
Labor (hours per acre)		\$0.00		\$0.00
Hours	0			
Rate	\$13.00			
Land (cash rent equivalent)		\$0.00		\$0.00
<b>Total Costs per Acre</b>				<b>\$229.90</b>
				Machinery + Seed/Manure + Harvest
<b>Net Profit per Acre</b>				<b>\$226.60</b>
<b>Total Income</b>				<b>\$6,369.00</b>
				\$3,400 oats + \$1,709 straw + 1,260 hay
Total Equipment Costs				<b>\$1,302.00</b>
Total Seed and Manure Cost				<b>\$1,870.00</b>
Total Equipment and seed cost				<b>\$3,172.00</b>
				\$21.20 + \$71.80 = \$93 x 14 acres Oat and Alfalfa and Manure cost pay to Jack
<b>Total Net Profit</b>				<b>\$3,197.00</b>



# 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

















