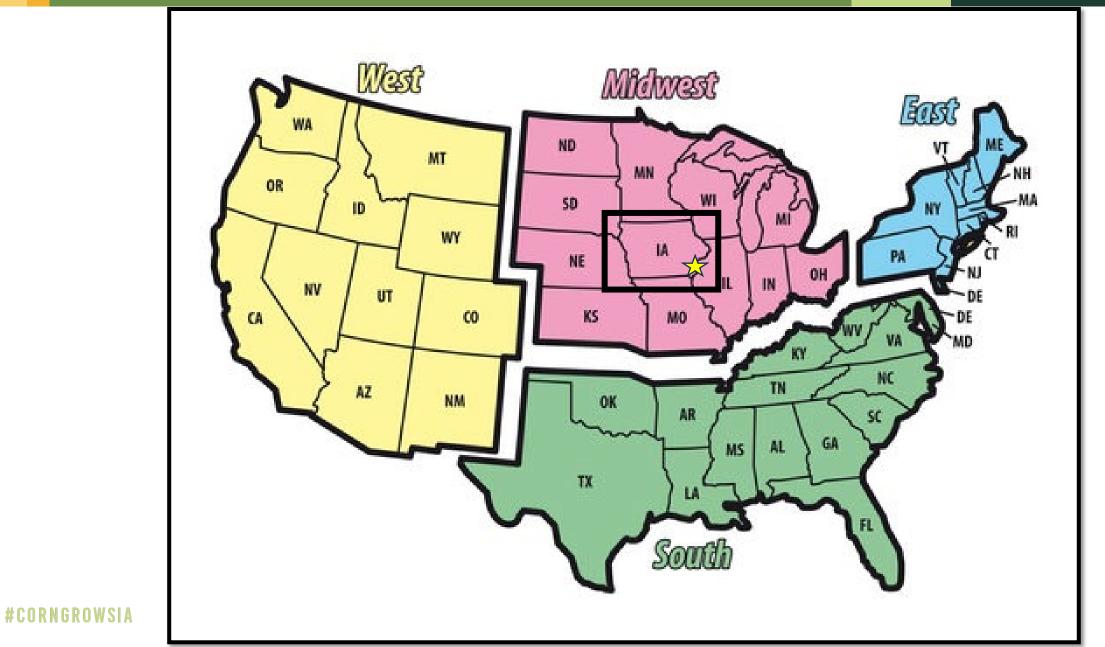


IOWACORN

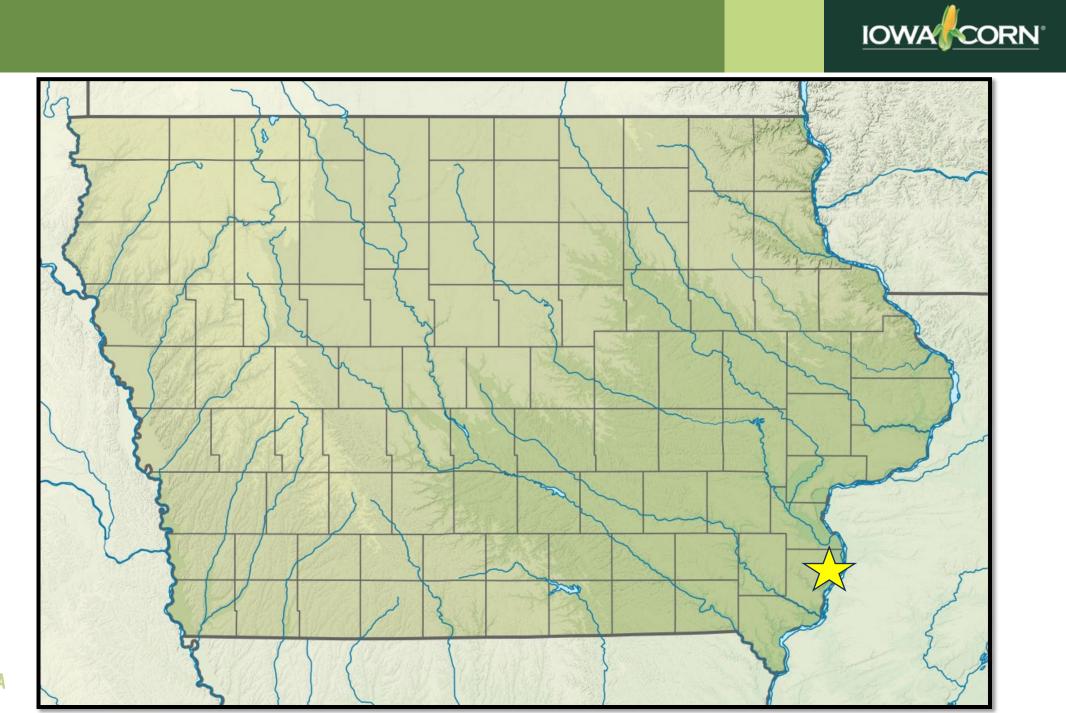
2024 U.S. Corn and Ethanol Conference

June 26th, 2024 - Tokyo, Japan Dan Keitzer - Mediapolis, Iowa, US

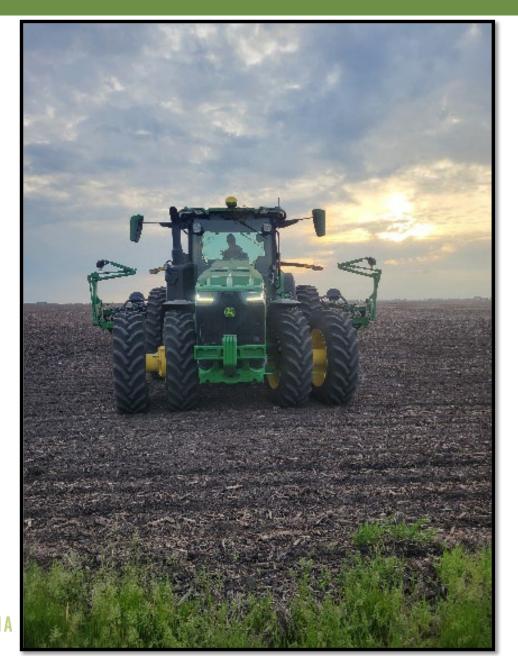
IOWA CORN



2















What We Raise...

- Corn: 1,300 acres = 526 hectares
- Soybeans: 1,300 acres = 526 hectares
- Seed Corn: 200 acres = 81 hectares
- Finish 3000 head of pigs per year
- Have a small sheep operation



Current Corn Crop Condition and Progress

USDA Crop Progress Report for Week Ending June 2nd

	June 10th	2019-2023 Ave	2019-2023 Average		
Corn Planted	98%	95%			
Corn Emerged	91%	84%			
Corn Condition	Excel	lent Good	Fair	Poor	Very Poor
June 10 th	16	58	21	4	1
Last Year	10	51	31	6	2



Corn: More Sustainably

Since 1980





ENERGY USE

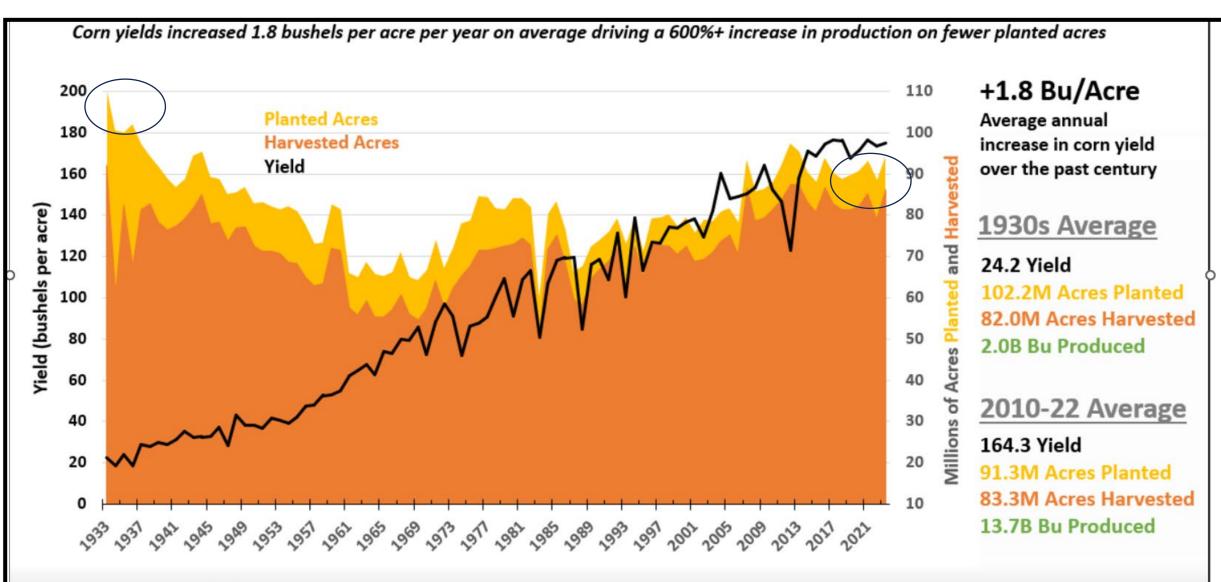


GREENHOUSE GAS EMISSIONS DECREASED BY PER BUSHEL LAND USE DECREASED BY

SOIL LOSS PER ACRE DECREASED

40%

56% 54% 48% 44%



USDA NASS Data, NCGA Calculations

IOWA CORN

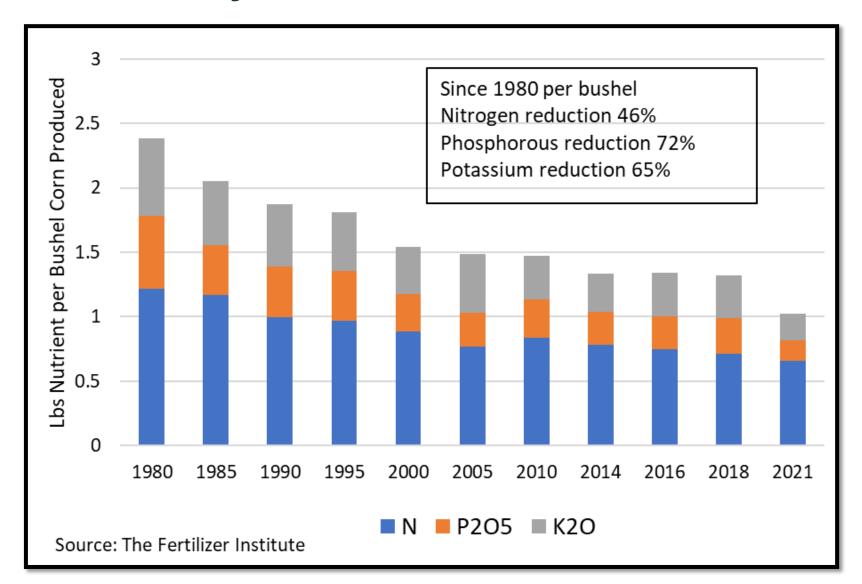


Yield History

	USDA Corn Yield			My Corn Yields			
<u>Year</u> Increase	<u>Bu./Acre</u>	MT/Hectare	<u>% Increase</u>	Bu./Acre	MT/Hectare	<u>%</u>	
2000	137	9.2					
2005	148	10.0	8.0%				
2010	153	10.3	3.4%	142	9.5		
2015	168	11.3	9.8%	200	13.5	40.8%	
2020	171	11.5	1.8%	201	13.5	0.0%	
2021	177	11.9	3.5%	172	11.6	-14.4%	
2022	173	11.6	-2.3%	241	16.2	40.1%	
2023	177	11.9	2.3%	243	16.3	0.1%	
Total Increase	40	2.7	29.2%	101	6.8	71.1%	



Nutrient Efficiency in Iowa Corn Production





Sustainable and soil conserving farming practices we practice in our operation:

- Stabilized nitrogen application
- Grid sampling and prescription fertilizer applications
- No-till planting
- Cover crops
- Terracing for erosion control
- Grass waterways
- Manure applications
- Ponds

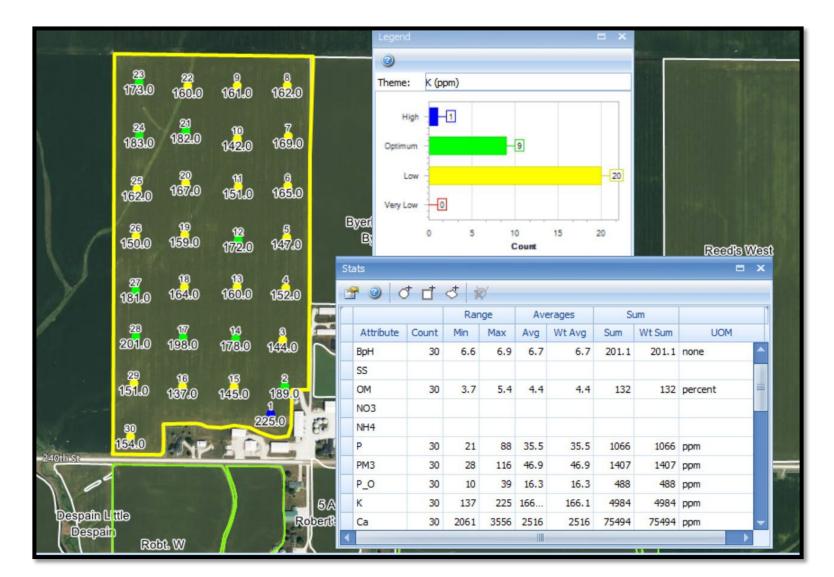


Grid sampling on 1 hectare grids via GPS

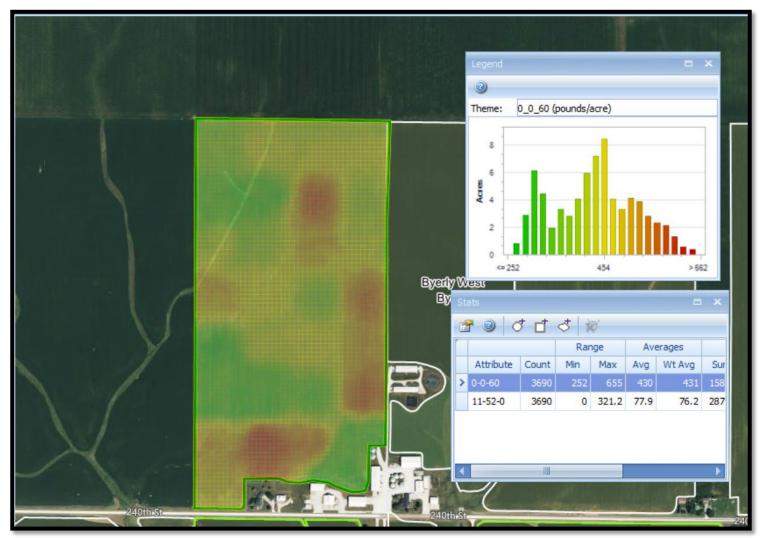




Sampling points with potassium levels (K)



Prescription for Fertilizer Application (Via GPS) Generated from Grid Sampling



#CORNGROWSIA

IOWA CORN



The view outside of my tractor as I plant no-till corn





View of the inside of my planting tractor





Corn planted into no-till with a cover crop starting to emerge





Three terraces for water control





Statistics for Big River Resources 1st Quarter of 2024

- Ethanol Yield 2.91 gal/bu. (11.02 l/bu.)
 My Farm 707.0 gal/ac. (1080 L/Ha.)
- DDGS Yield 14.08 lbs/bu. (6.39 kg/bu.)
 My Farm 3421.0 lbs/ac. (628.4 kg/Ha.)
- Corn Oil Yield .82 lbs/bu. (0.37 kg/bu.)
 My Farm 200.0 lbs/bu. (36.4 kg/Ha.)





Examples of conservation practices in use





Typical Solar Farm – Attributes:

- Takes solar energy and converts it to electricity.
- Works great when the sun shines but no storage or production when it is dark.
- Transportable power via power lines
- Clean sustainable energy







My Solar Farm

- Attributes:
 - Takes solar energy and converts it to carbohydrates which ferments into ethanol liquid fuel.
 - Produces energy when the sun shines but can store that energy when the sun does not shine.
 - Transportable power, the same as liquid fuels are transportable today.
 - Produces clean burning renewable power that can be utilized in most internal combustion engines both gasoline and diesel.
 - Clean sustainable power.



Thank you!



