



HARBORVIEW
FARMS



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ECOLOGICAL FARMING THROUGH
TECHNOLOGY



Pretty conventional



The old way Minimum till

PHILOSOPHY OF SOIL HEALTH

- Building a year round system focused on the ecosystem surrounding us and profitability
- Living roots all year long through all the seasons
- Healthy, Efficient, Responsible Nutrient Cycling
- Never get your hands dirty
- Progressing through the use technology for better fertilizer and pesticide utilization

IT STARTED WITH GEORGE

- The evolution to planting green over the last 10 years





TODAY

Planting into cover as tall as me



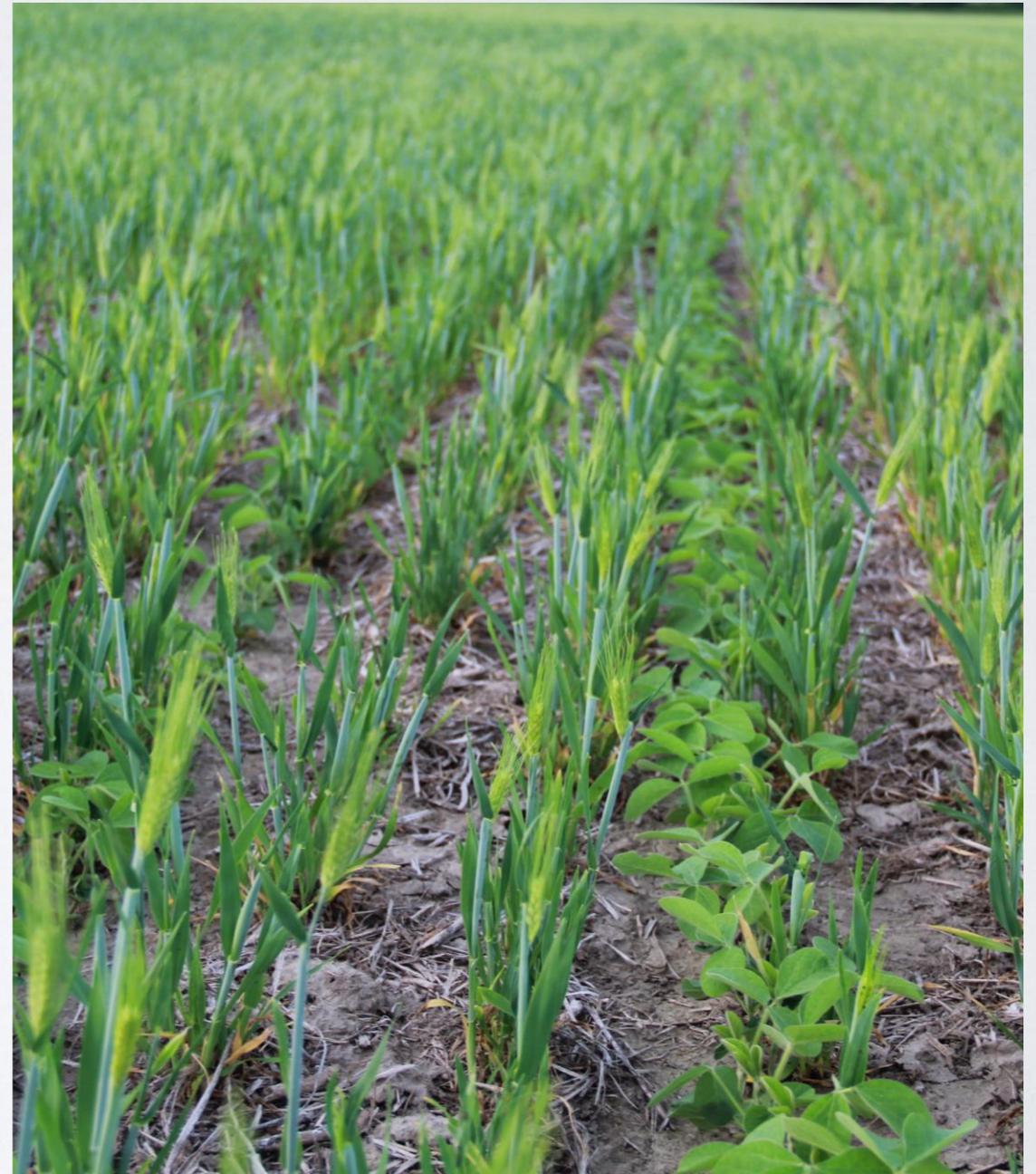
CHALLENGES OF GREEN PLANTING

- Crimping the cover crop that is tall at the time of planting
- Cereals going to heading out and going to seed
- Glyphosate resistant weeds getting to big to kill
- Early seedling fertility
- Slugs



RESISTANT WEEDS AND PLANTING GREEN

- Creative uses of technology and chemistry
- Blended covers finding compliments in nature





KINZE

Closing Wheels, Fertilizer, Row Cleaners



JOHN DEERE

SLUGS!!!

- Joanne Whalen did on farm research and came to the conclusion that slugs are worse in cover cropped fields

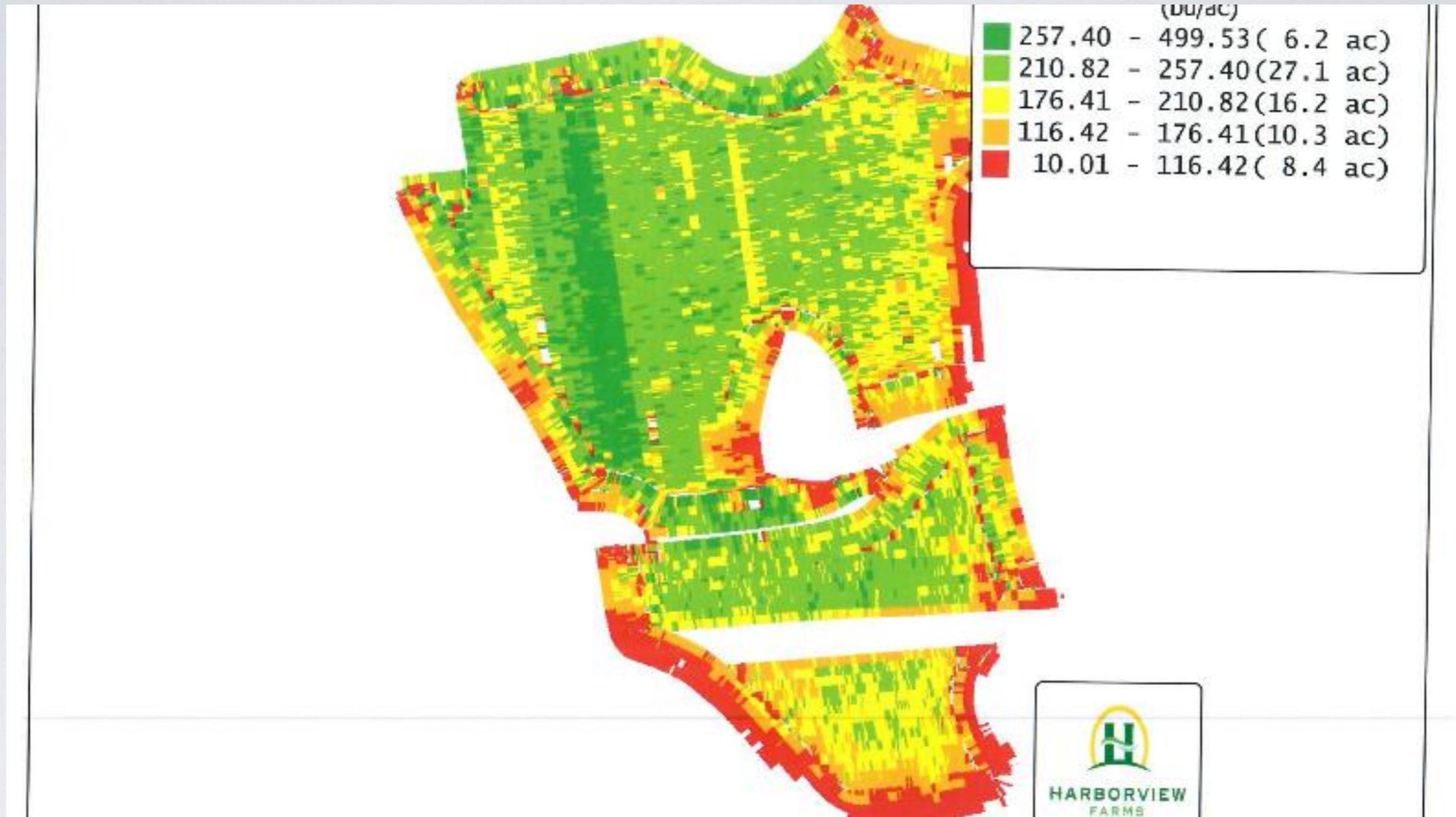




ADVANTAGES OF PLANTING GREEN

- Planting Early
- Weed control
- Healthier soil
- Erosion control
- Higher yields





Yield from earlier photo



BEANS

Bakers lane test

Yield (Dry) (bu/ac)		
	89.05 - 199.86	(59.2 ac)
	84.23 - 89.05	(66.5 ac)
	80.68 - 84.23	(68.8 ac)
	77.24 - 80.68	(70.7 ac)
	73.49 - 77.24	(72.2 ac)
	67.79 - 73.49	(72.8 ac)
	5.02 - 67.79	(69.6 ac)



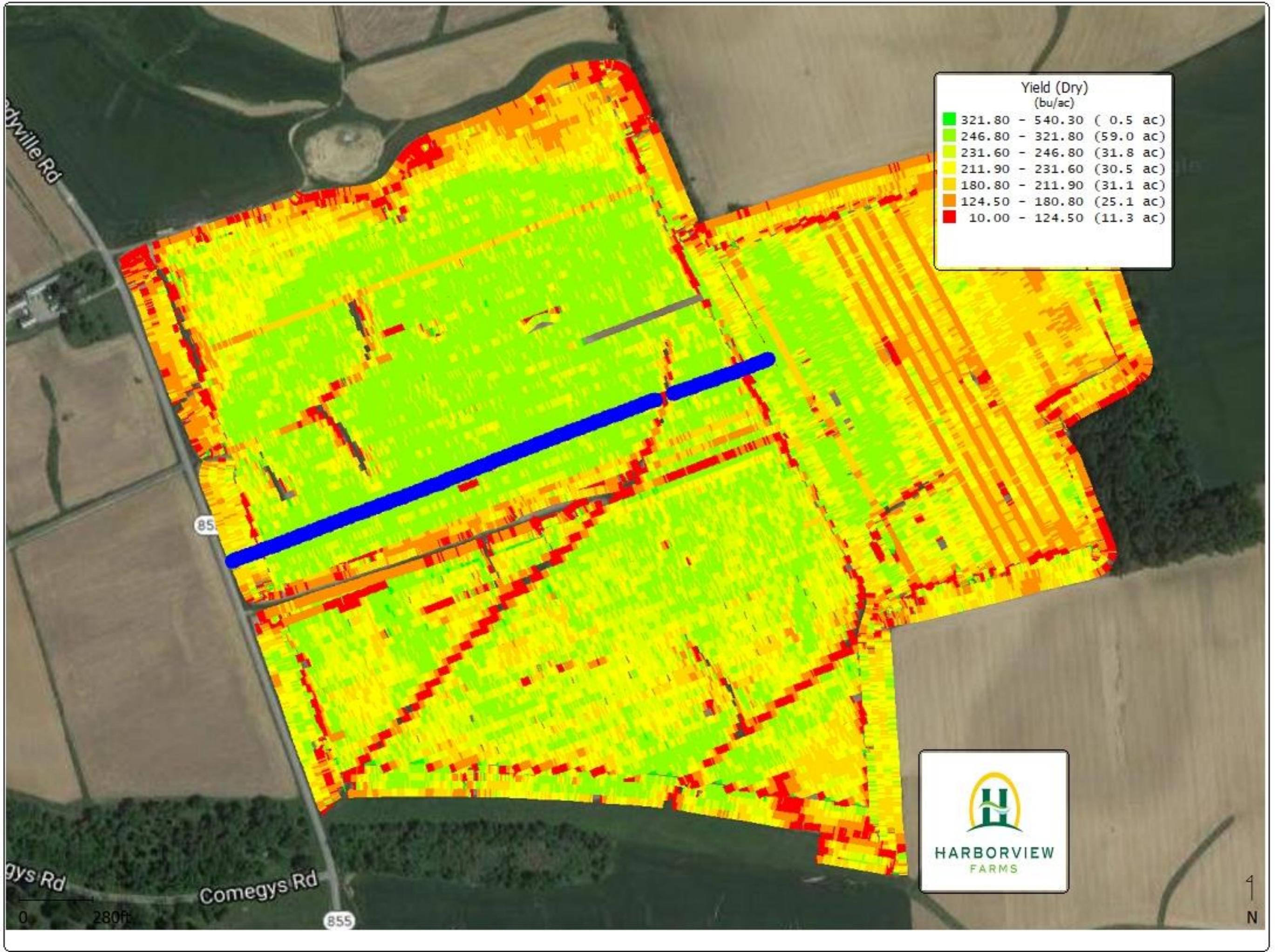
0 600ft

4
N



CORN PLOT

Lusby under a pivot



Yield (Dry) (bu/ac)		
321.80 - 540.30	(0.5 ac)	
246.80 - 321.80	(59.0 ac)	
231.60 - 246.80	(31.8 ac)	
211.90 - 231.60	(30.5 ac)	
180.80 - 211.90	(31.1 ac)	
124.50 - 180.80	(25.1 ac)	
10.00 - 124.50	(11.3 ac)	



0 280ft

4
N

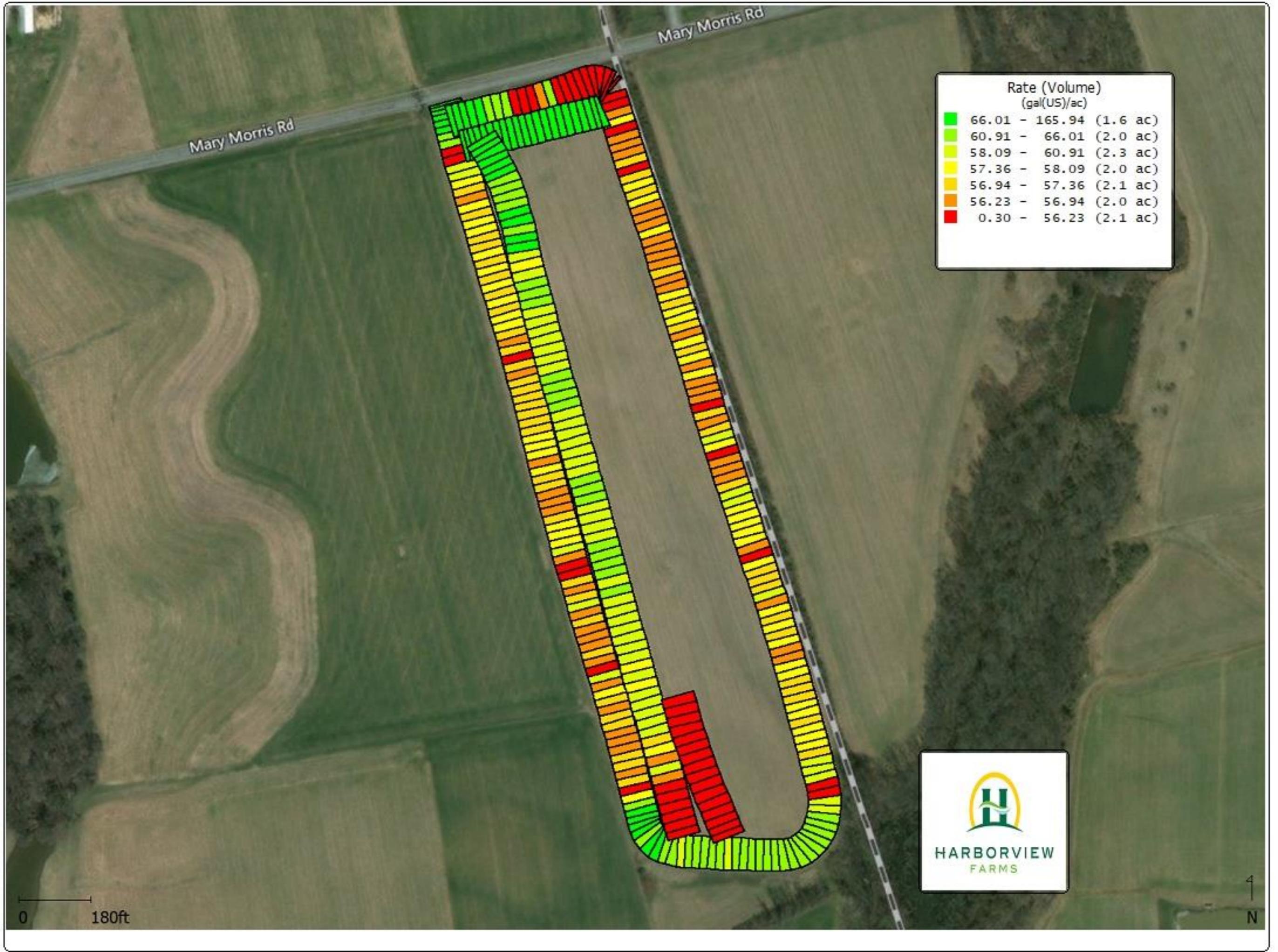


Yield (Dry) (bu/ac)		
321.80 - 540.30	(0.5 ac)	
246.80 - 321.80	(59.0 ac)	
231.60 - 246.80	(31.8 ac)	
211.90 - 231.60	(30.5 ac)	
180.80 - 211.90	(31.1 ac)	
124.50 - 180.80	(25.1 ac)	
10.00 - 124.50	(11.3 ac)	



0 280ft

4
N



Mary Morris Rd

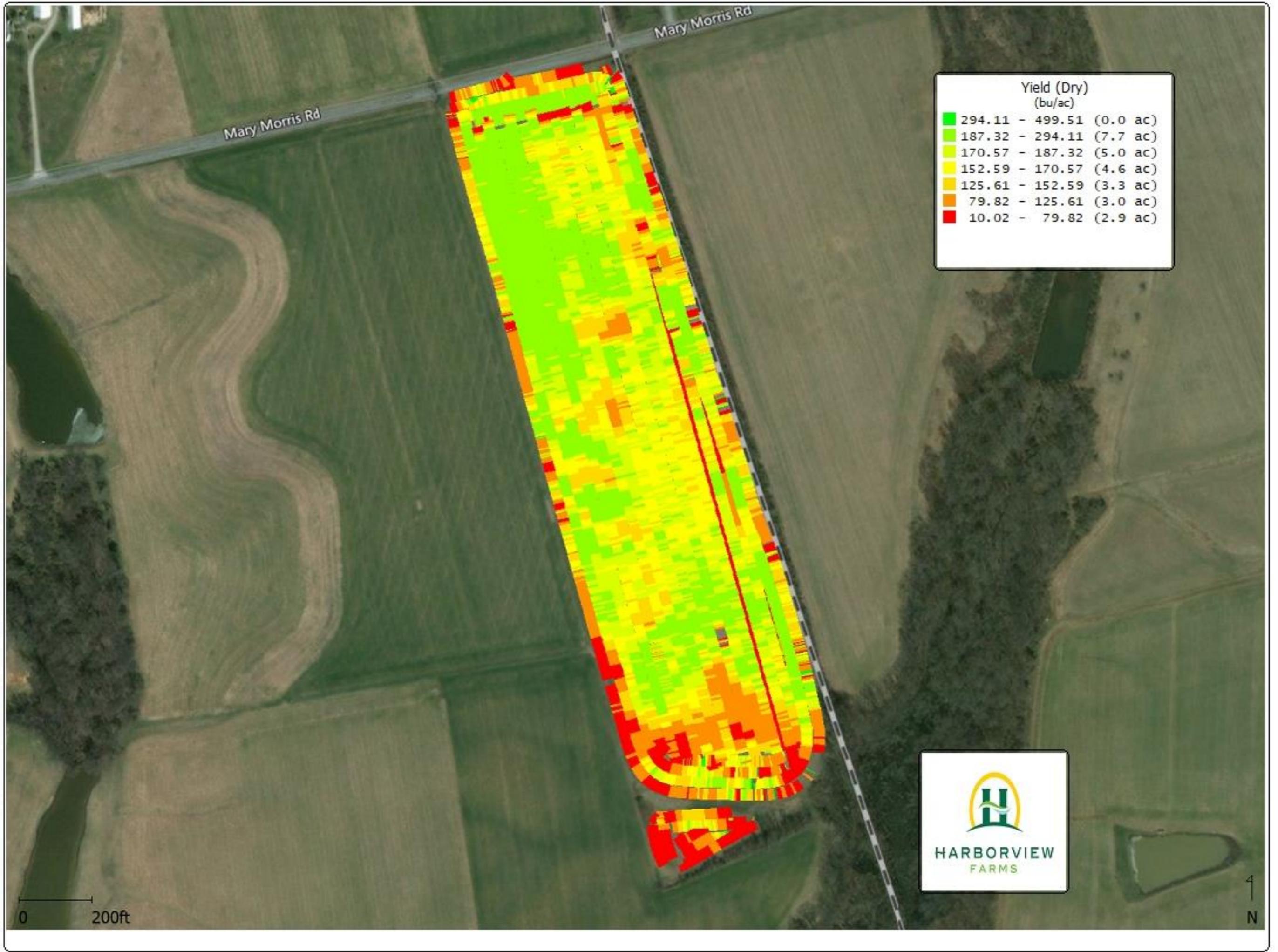
Mary Morris Rd

Rate (Volume)		
(gal(US)/ac)		
66.01 - 165.94	(1.6 ac)	Green
60.91 - 66.01	(2.0 ac)	Light Green
58.09 - 60.91	(2.3 ac)	Yellow-Green
57.36 - 58.09	(2.0 ac)	Yellow
56.94 - 57.36	(2.1 ac)	Orange
56.23 - 56.94	(2.0 ac)	Red-Orange
0.30 - 56.23	(2.1 ac)	Red

0 180ft



↑
N



Mary Morris Rd

Mary Morris Rd

Yield (Dry) (bu/ac)		
294.11 - 499.51	(0.0 ac)	
187.32 - 294.11	(7.7 ac)	
170.57 - 187.32	(5.0 ac)	
152.59 - 170.57	(4.6 ac)	
125.61 - 152.59	(3.3 ac)	
79.82 - 125.61	(3.0 ac)	
10.02 - 79.82	(2.9 ac)	



0 200ft

↑
N

RESEARCH WITH STEVE MIERSKY AND RAY WEIL

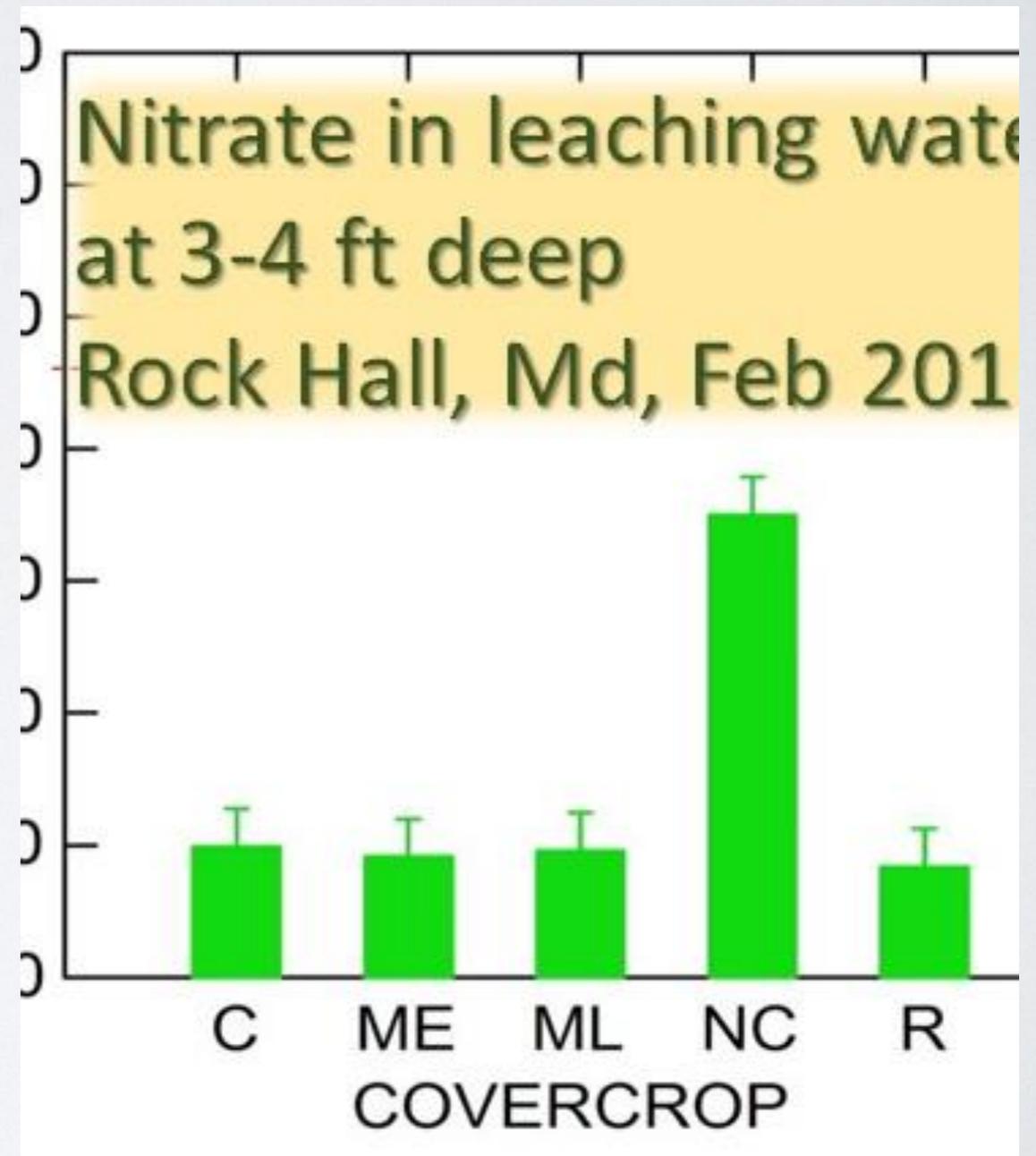
Students and farmers
working together





ENVIRONMENTAL IMPACT

- Keeping Nitrogen in the soil
- Trying to figure out the Nitrogen release time and amount



VIELE KLEINE LEUTE DIE IN VIELEN
KLEINEN ORTEN VIELE KLEINE DINGE
TUN, KÖNNEN DAS GESICHT DER WELT
MANY SMALL PEOPLE WHO INVERÄNDERN
MANY SMALL PLACES DO MANY SMALL THINGS
THAT CAN ALTER THE FACE OF THE WORLD



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Afrikanische Weisheit



WHY PLANT GREEN?

- It is sound agronomically
- Easy to explain

