

Smart Farming

Compare the graphs to soil maps

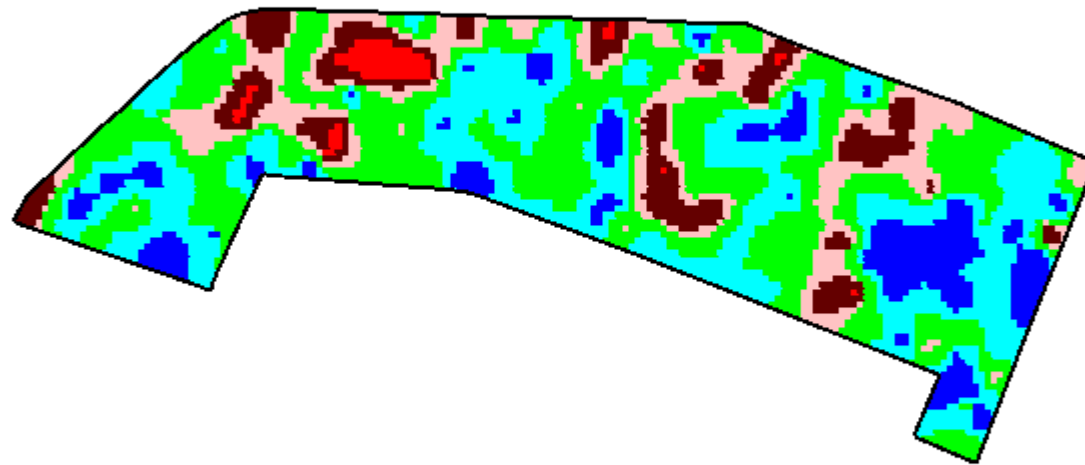
Compare these graphs to the map of each field.

Which of these representations, the soil map or the box and whisker plot, show the variability better? Justify your answer.

pH

Grower: Farm Science Review
Farm: Molly Caren
Field: Field 7
Area: 202.48 ac
Lat: 39.96621°N
Lon: 083.44197°W

Season: 2012
Min: 5.07 PH SCALE
Avg: 6.62 PH SCALE
Max: 7.62 PH SCALE



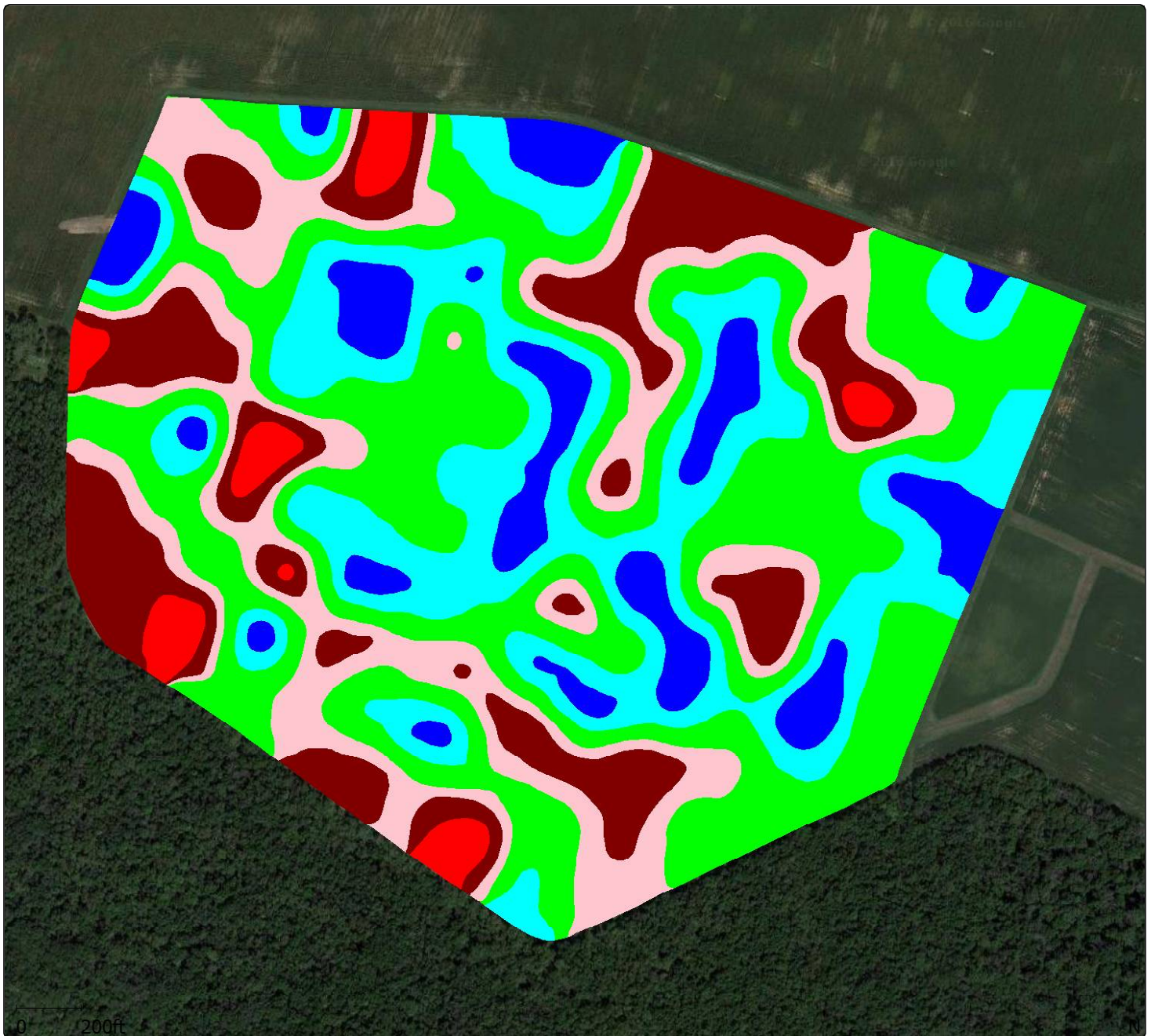
—	Field Boundary
	pH PH SCALE
■	<5.6 (3.6 ac) (1.8 %)
■	5.6-6.0 (19.8 ac) (9.8 %)
■	6.0-6.3 (28.3 ac) (14.0 %)
■	6.3-6.8 (71.1 ac) (35.1 %)
■	6.8-7.2 (58.3 ac) (28.8 %)
■	>7.3 (21.4 ac) (10.6 %)



One in = 1207 feet
0 566 1131 1697 2262 2828



Soil pH



Grower : OSU

Farm : FSR

Field : 8A

Area : 130.42 ac

Year : 2016

Operation : Intensive Soil Sampling

Operational Instance : Soil Test Points

Number of Samples : 132

Summary

Average Soil pH : 6.514 (1)

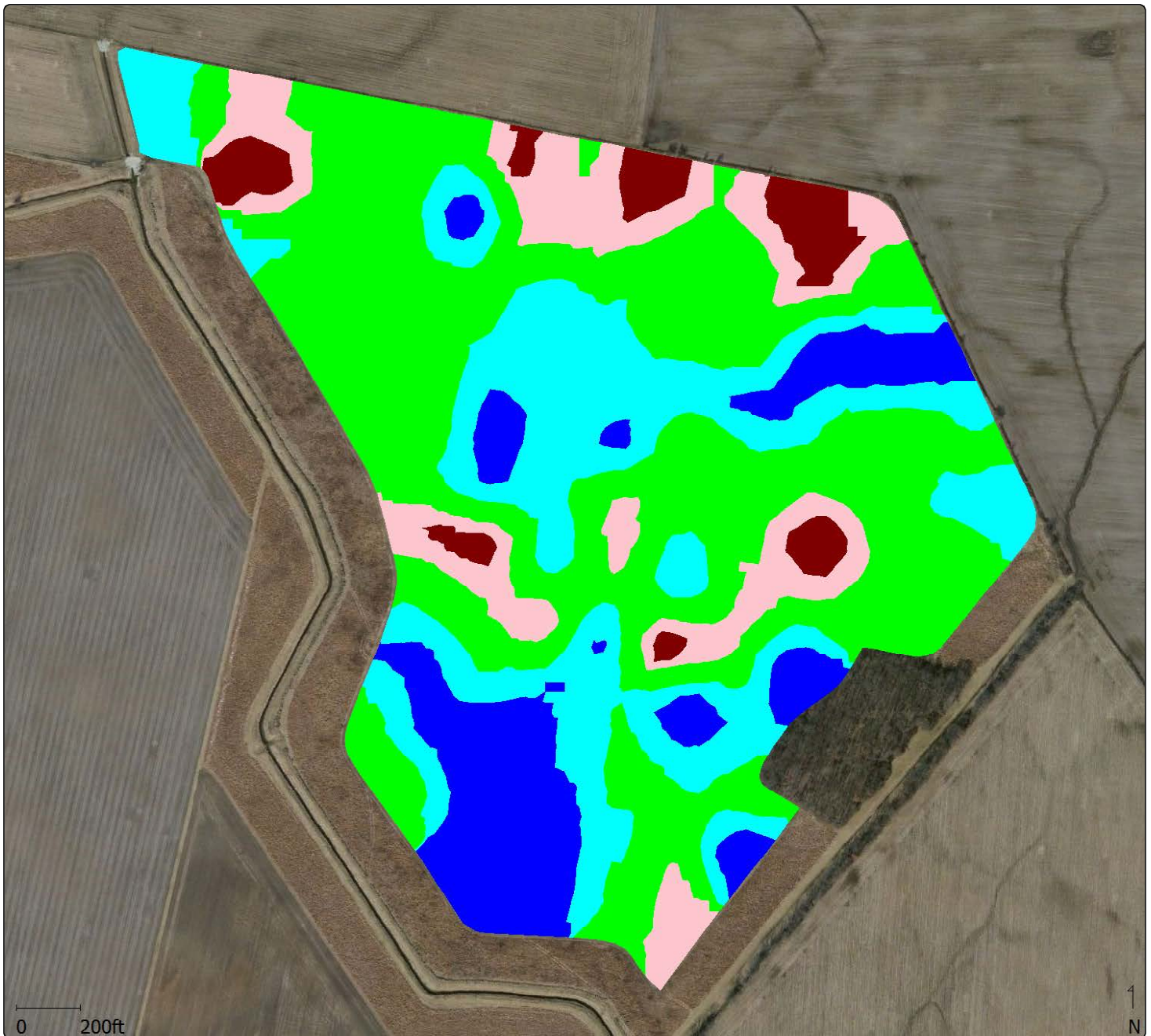
Minimum Soil pH : 5.000 (1)

Maximum Soil pH : 7.600 (1)

Soil pH (1)

Blue	7.20 - ∞	(12.09 ac)
Cyan	6.80 - 7.20	(27.77 ac)
Green	6.30 - 6.80	(44.26 ac)
Pink	6.00 - 6.30	(21.91 ac)
Dark Red	5.60 - 6.00	(20.74 ac)
Red	- ∞ - 5.60	(3.95 ac)

Soil pH



Grower : OSU

Farm : FSR

Field : 11

Area : 102.57 ac

Year : 2015

Operation : Intensive Soil Sampling

Operational Instance : Soil Test Points

Number of Samples : 101

Summary

Average Soil pH : 6.699 (1)

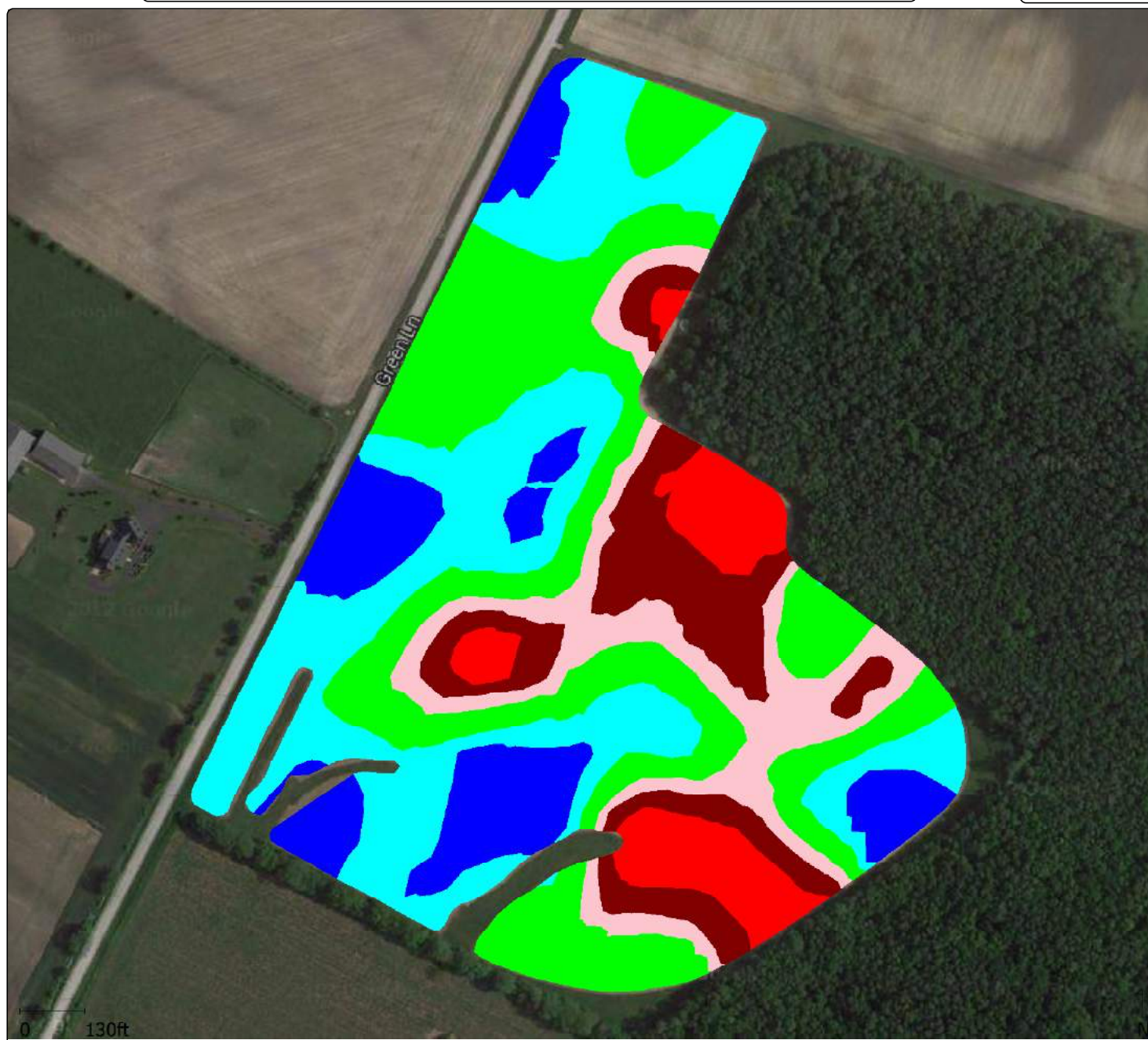
Minimum Soil pH : 5.600 (1)

Maximum Soil pH : 7.900 (1)

Soil pH ((1))

7.20	-	∞	(13.24 ac)
6.80	-	7.20	(25.49 ac)
6.30	-	6.80	(46.64 ac)
6.00	-	6.30	(12.64 ac)
5.60	-	6.00	(4.80 ac)
-∞	-	5.60	(0.00 ac)

Soil pH



Grower : OSU

Farm : FSR

Field : 6

Area : 34.60 ac

Year : 2014

Operation : Intensive Soil Sampling

Operational Instance : Soil Test Points

Number of Samples : 44

Average Soil pH : 6.573 (1)

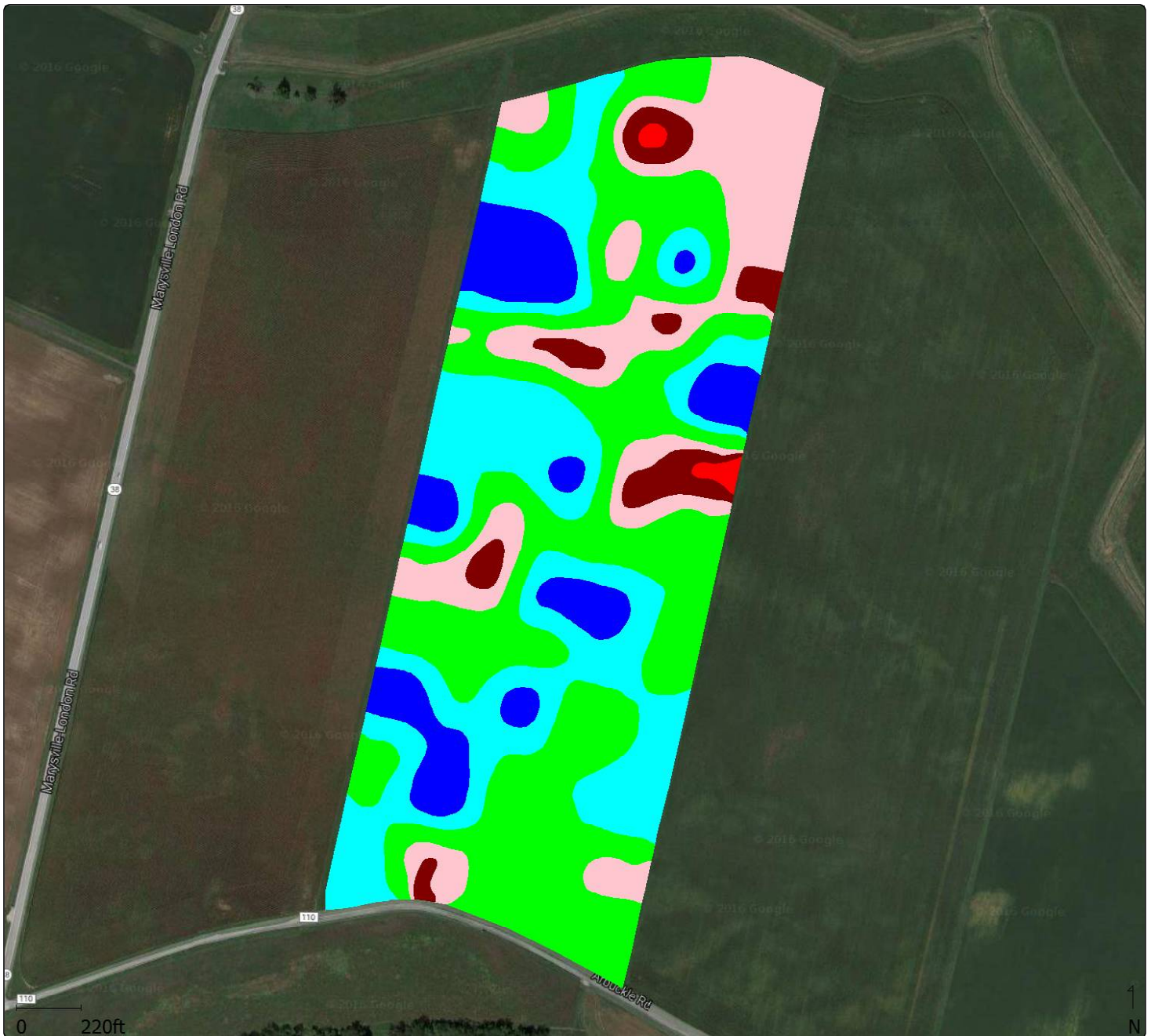
Minimum Soil pH : 4.900 (1)

Maximum Soil pH : 7.700 (1)

Soil pH
(1)

Blue	7.20 - ∞	(4.506 ac)
Cyan	6.80 - 7.20	(9.653 ac)
Green	6.30 - 6.80	(9.826 ac)
Pink	6.00 - 6.30	(4.029 ac)
Dark Red	5.60 - 6.00	(3.975 ac)
Red	- ∞ - 5.60	(2.682 ac)

Soil pH



Grower : OSU

Farm : FSR

Field : 12b

Area : 71.43 ac

Year : 2016

Operation : Intensive Soil Sampling

Operational Instance : Soil Test Points

Number of Samples : 73

Summary

Average Soil pH : 6.658 (1)

Minimum Soil pH : 5.300 (1)

Maximum Soil pH : 7.600 (1)

Soil pH (1)

7.20 - ∞	(7.44 ac)
6.80 - 7.20	(19.24 ac)
6.30 - 6.80	(28.19 ac)
6.00 - 6.30	(13.09 ac)
5.60 - 6.00	(3.22 ac)
- ∞ - 5.60	(0.41 ac)