



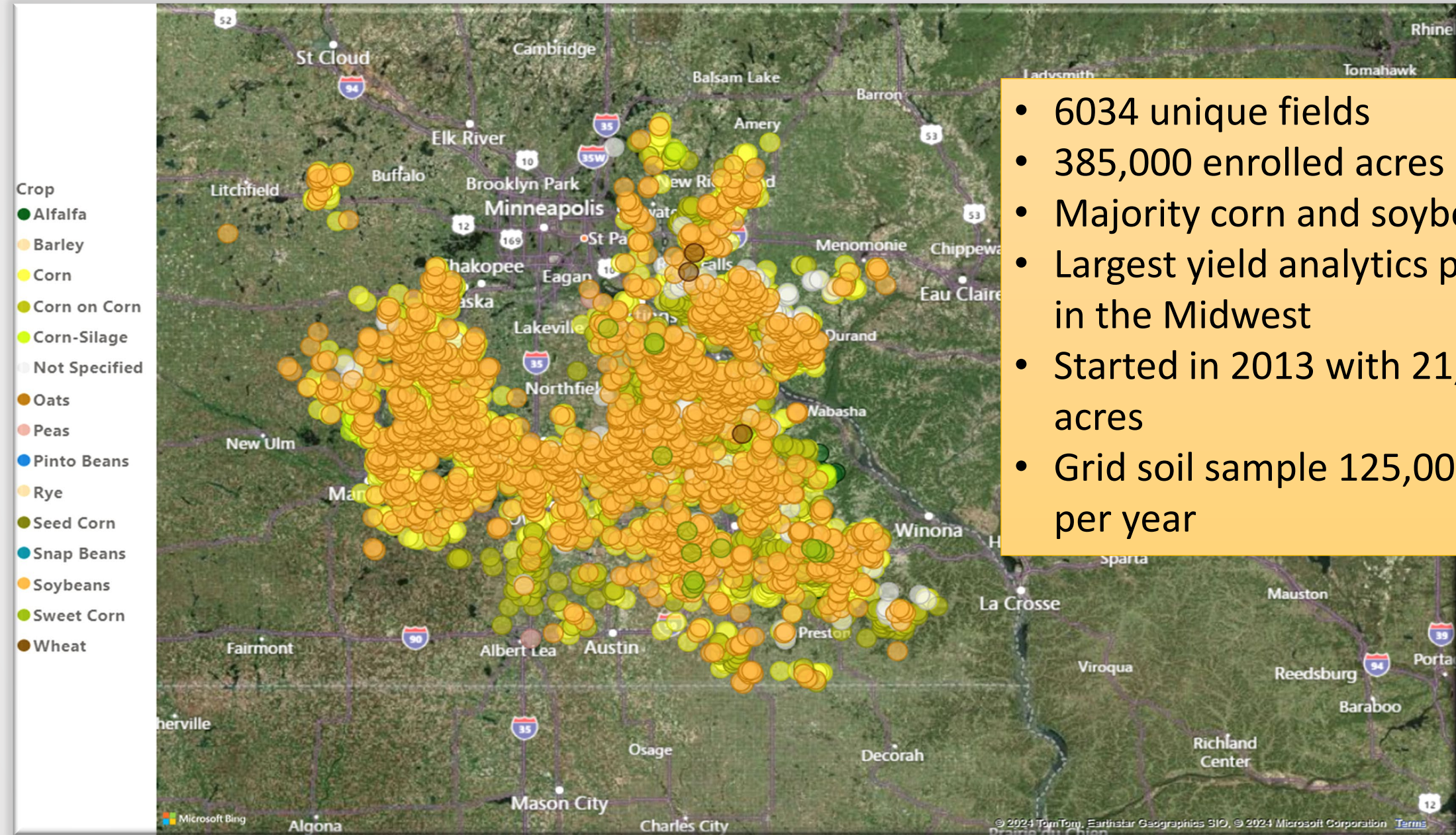
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507-951-2096

Advanced Yield Systems (AYS) Geography

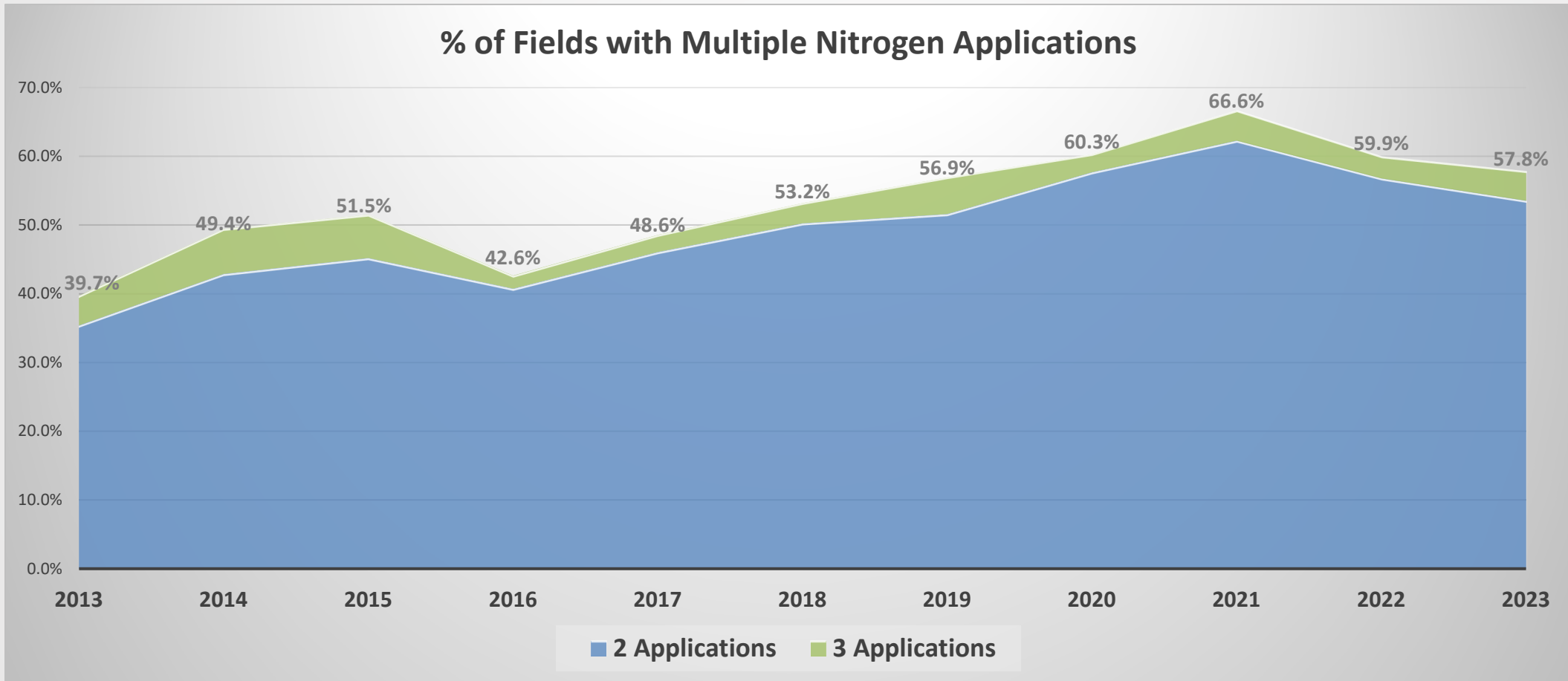


- 6034 unique fields
- 385,000 enrolled acres in 2023
- Majority corn and soybeans
- Largest yield analytics program in the Midwest
- Started in 2013 with 21,000 acres
- Grid soil sample 125,000 acres per year

AYS
ADVANCED YIELD SYSTEMS

AG
PARTNERS

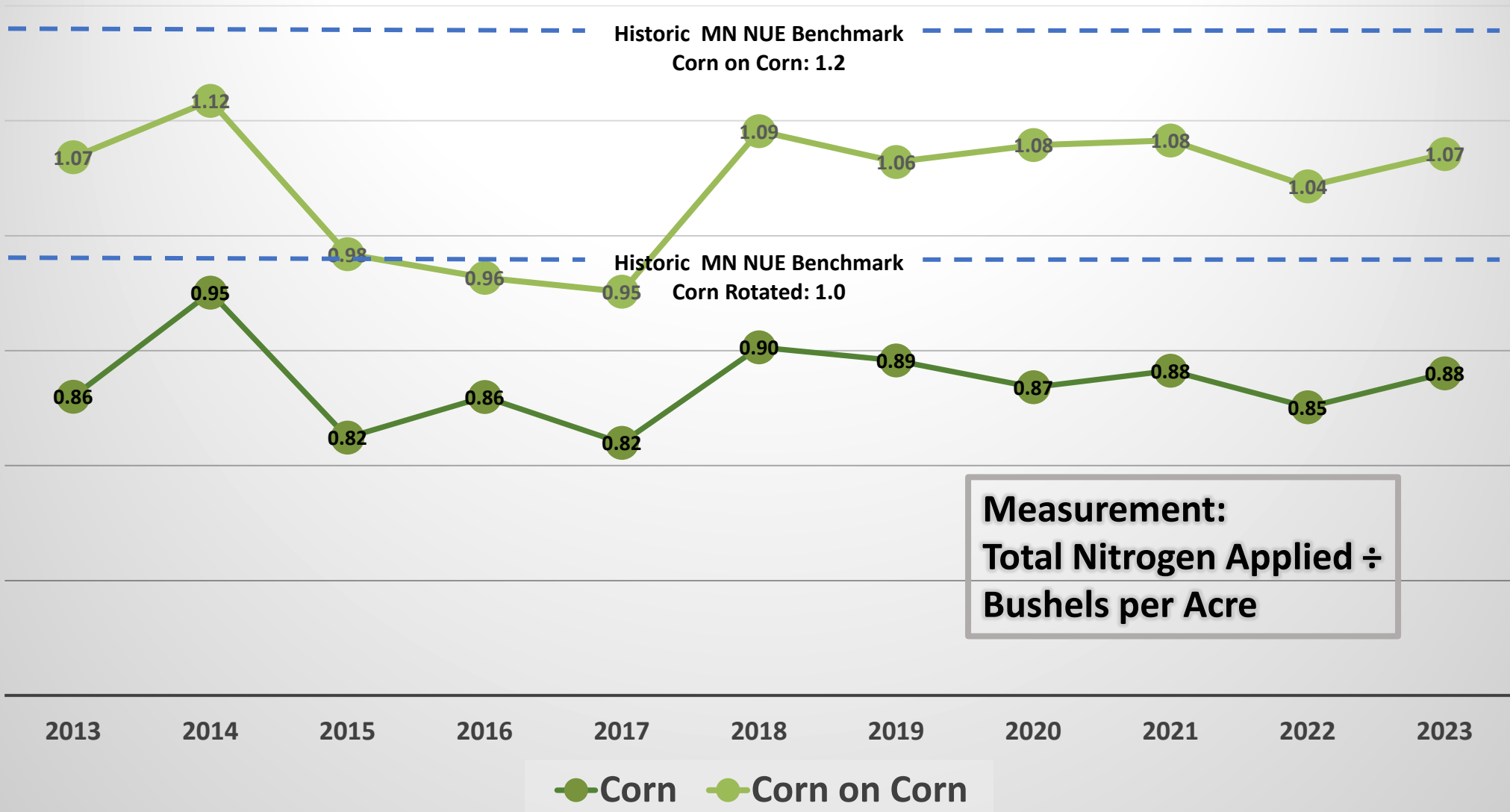
Managing Nitrogen Risk with Multiple Applications



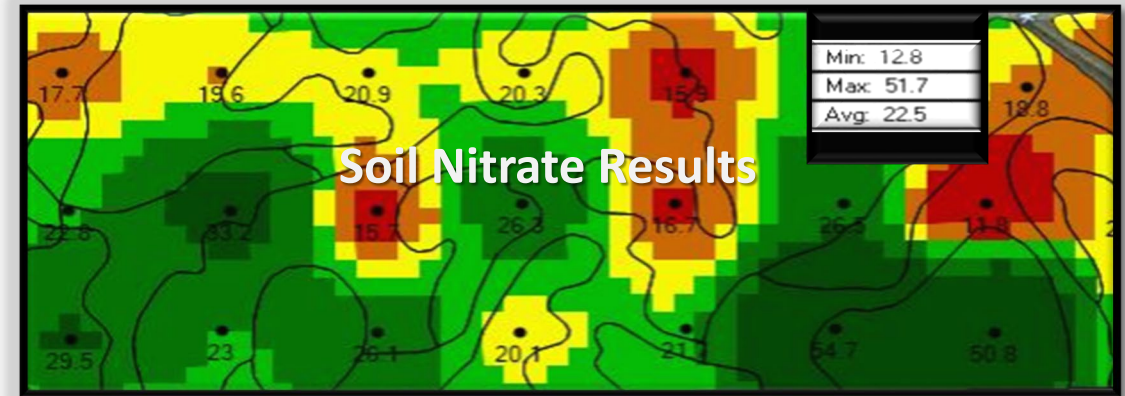
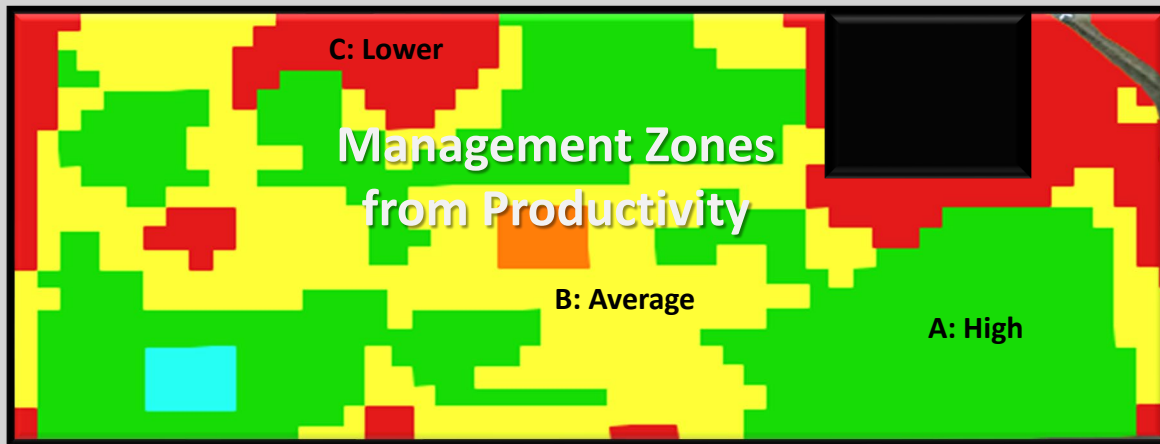
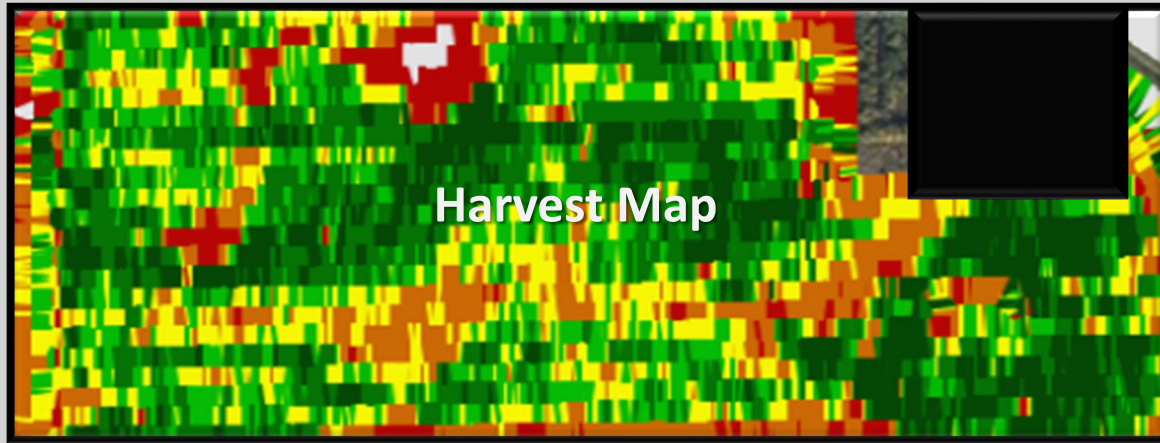
In 2023 the Southeast MN AYS area had multiple applications on 57.8% of the fields



Nitrogen Use Efficiency(NUE) History - AYS ALL



Zone Management of Nitrogen



Mgmt Zone	Crop Year	Acres	Soil NO3 Avg	Total N Avg	NUE	Yield
A Zone	2019	10.20	29.80	156.50	0.85	185.17
B Zone	2019	69.50	19.05	167.52	0.93	180.65
C Zone	2019	31.82	17.86	169.08	1.23	137.09
A Zone	2021	33.17	32.80	173.00	0.69	250.05
B Zone	2021	45.61	31.15	170.50	0.73	233.41
C Zone	2021	32.66	29.92	171.86	0.88	194.45
A Zone	2023	46.77	26.26	183.46	0.87	212.04
B Zone	2023	37.40	20.85	187.67	0.92	202.96
C Zone	2023	27.86	18.60	193.41	1.16	166.89

Drone Picture after Application



Nitrogen Prescription

- High - 205 units of N/acre
- Standard - 192 units of N/acre
- None

