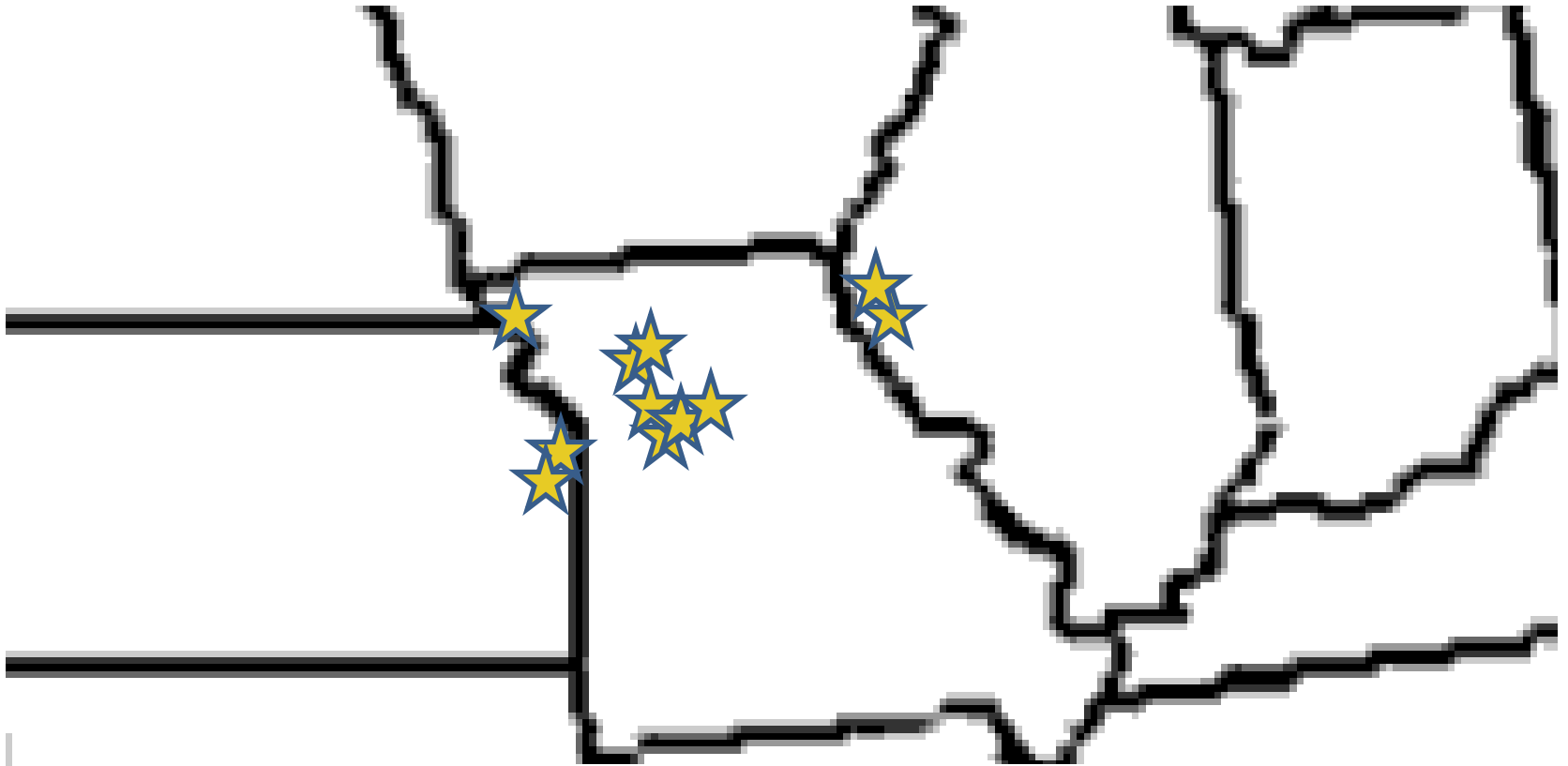


# On-farm rescue N demonstrations



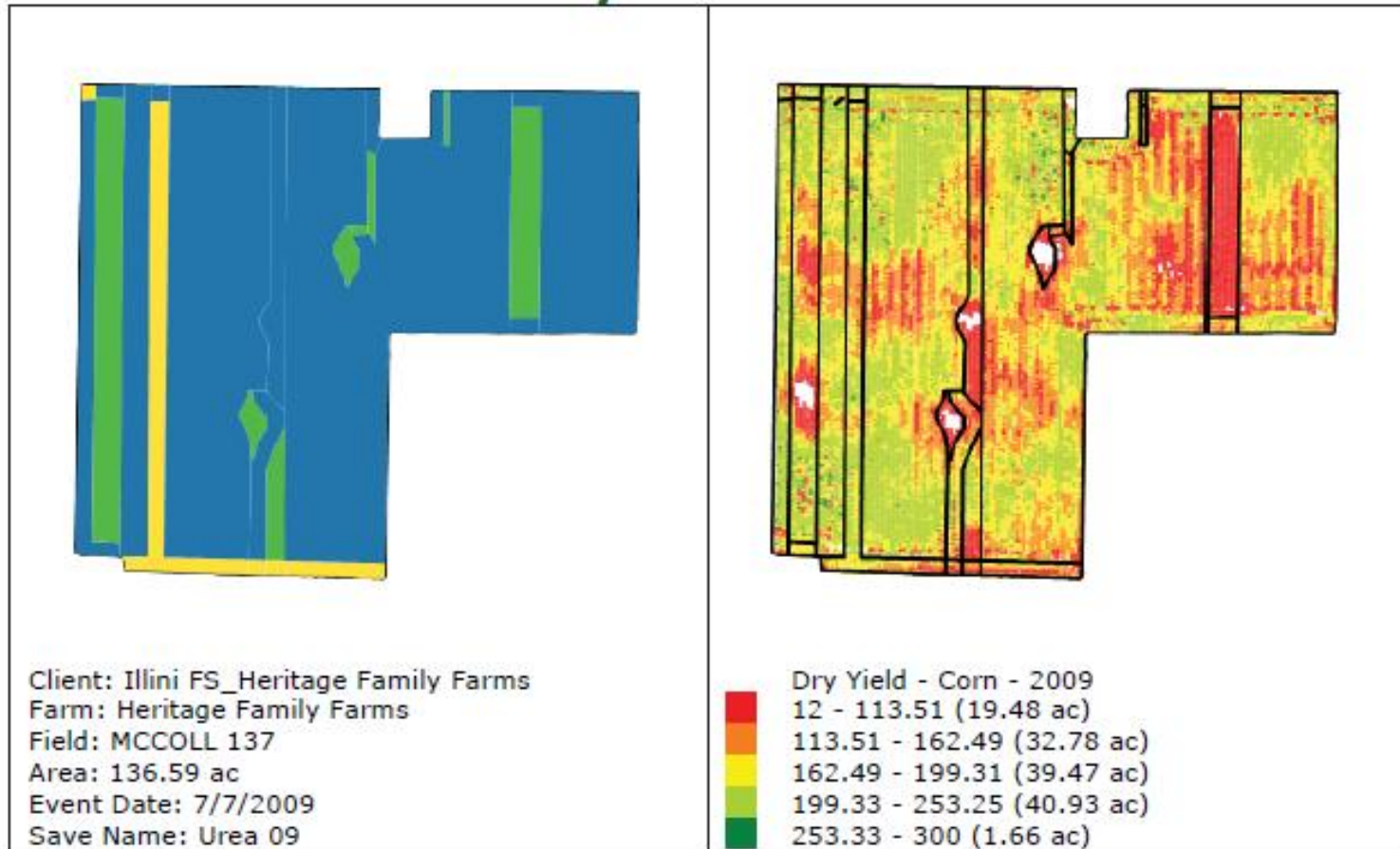
- Fully fertilized fields but producers concerned
- N applied anywhere from thigh-high to tassel




# Rescue N outcomes

- **Average yield response 34 bu/acre (n = 11)**
- **Yield response: bigger with more stress**
  - High stress: 57 bushels (2 tests)
  - Medium stress: 41 bushels (5 tests)
  - Low stress: 14 bushels (4 tests)
- **How late is too late?**
  - Six tests in 2010, all applied at tassel, ave 34 bu
  - Give up by 2 weeks after tassel

# Rescue N in Illinois: 37 bu

## Corn Yield by Fertilizer Treatment



Legend	Treatment	Avg.	Dry Yield		Avg.	Total	
			Min.	Max.	Moisture	Bushels	Acres
	46-0-0 Urea (160 lb/ac)	174.19	12.21	300.00	23.70	1,400.51	8.04
	46-0-0 Urea (150 lb/ac)	172.88	12.04	300.00	23.25	19,386.0	112.13
	None	135.89	12.00	300.00	22.72	1,923.48	14.15

**UREA Post Application at 40 lbs/Acre**



**90 bu**

**60 bu**

**126 bu**

**135 bu**

**125 bu**

**60 bu**

INSTRUMENT  
STRIP

# Yield loss to N burn: is it a problem?

(average of 7 locations in Missouri, 2003-04)

150 lb N applied broadcast at corn height:

Treatment	1 foot	2 feet	3 feet	4 feet
Ammonium nitrate	1	8	20	18
28% N solution	9	14	33	61
Urea	0	0		4