

Rick Mascagni  
Professor/Feed Grain Agronomist  
LSU Ag Center's Macon Ridge Research Station

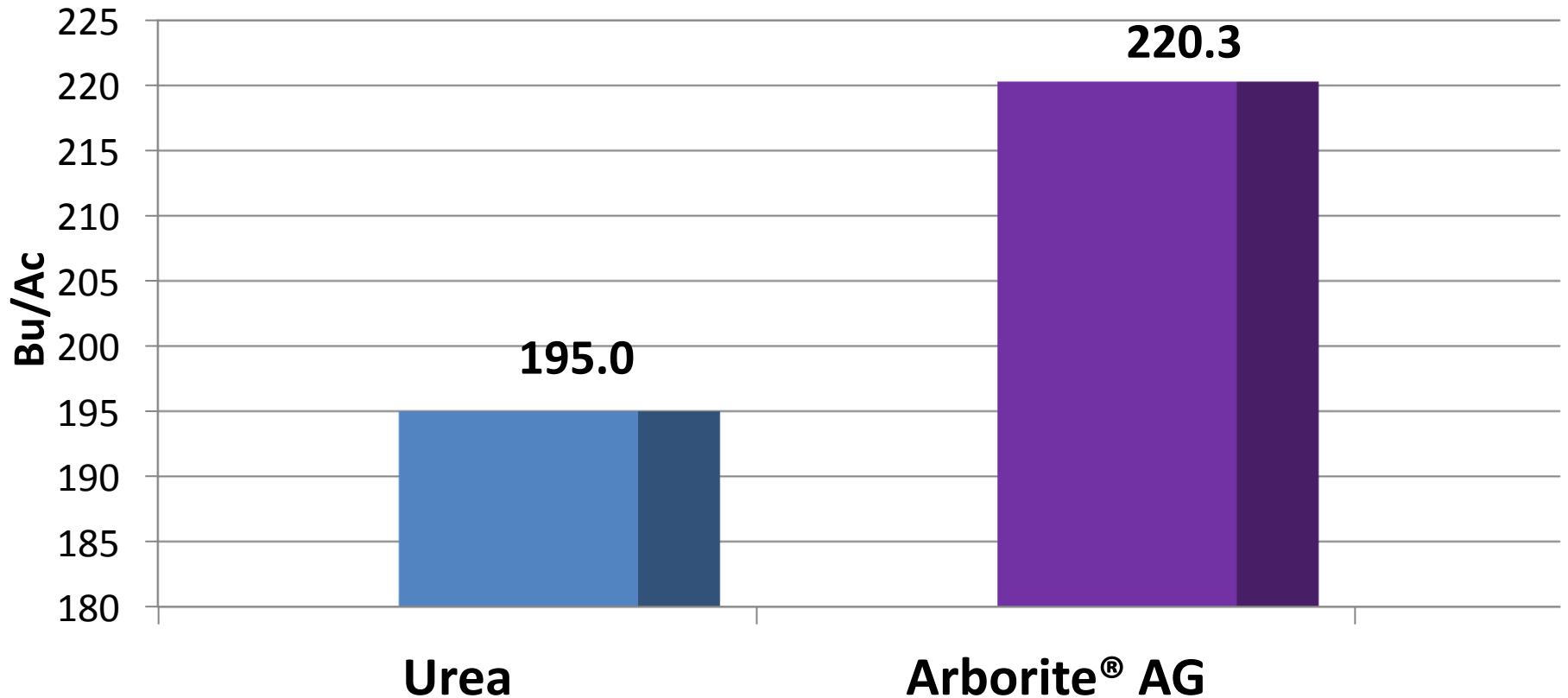
2011 Research Findings Irrigated Corn

**Results:** Yields were exceptional ranging from 96.9 bu/acre for the no-N control to 220.3 bu/acre for 200N as urea with Arborite<sup>®</sup> AG), with a trial average of 196.2 bu/acre. The CV was 5.0% and LSD (0.10) was 11.6 bu/acre. Hand-broadcast treatments were applied on dry soil on April 24<sup>th</sup>. A 2.35-inch rain occurred on the night of April 27<sup>th</sup>. Yield increase of 25 bu/acre for three days of control of volatility.

# 2011 Corn Yield Comparison Using Urea and Arborite® AG Treated Urea

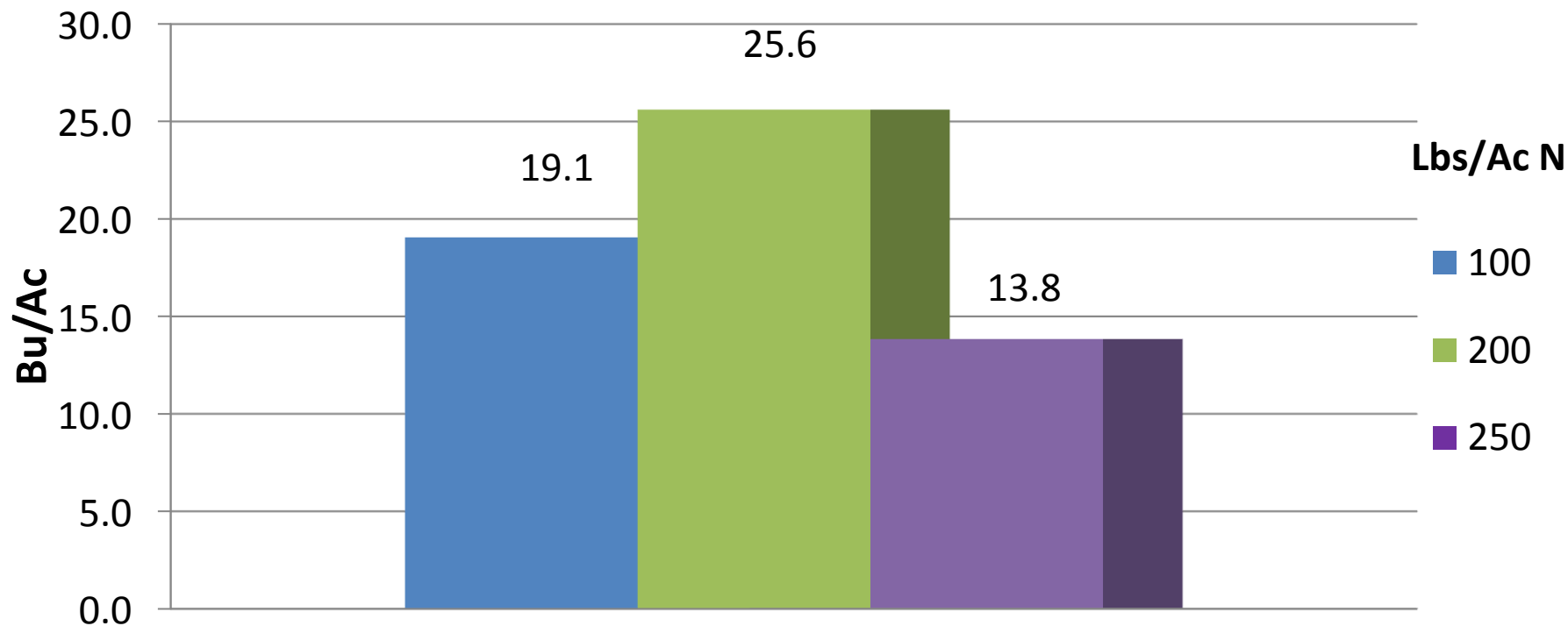
Surface Broadcast 200 lbs/Ac N

Arborite® AG yield increase P = 0.0006



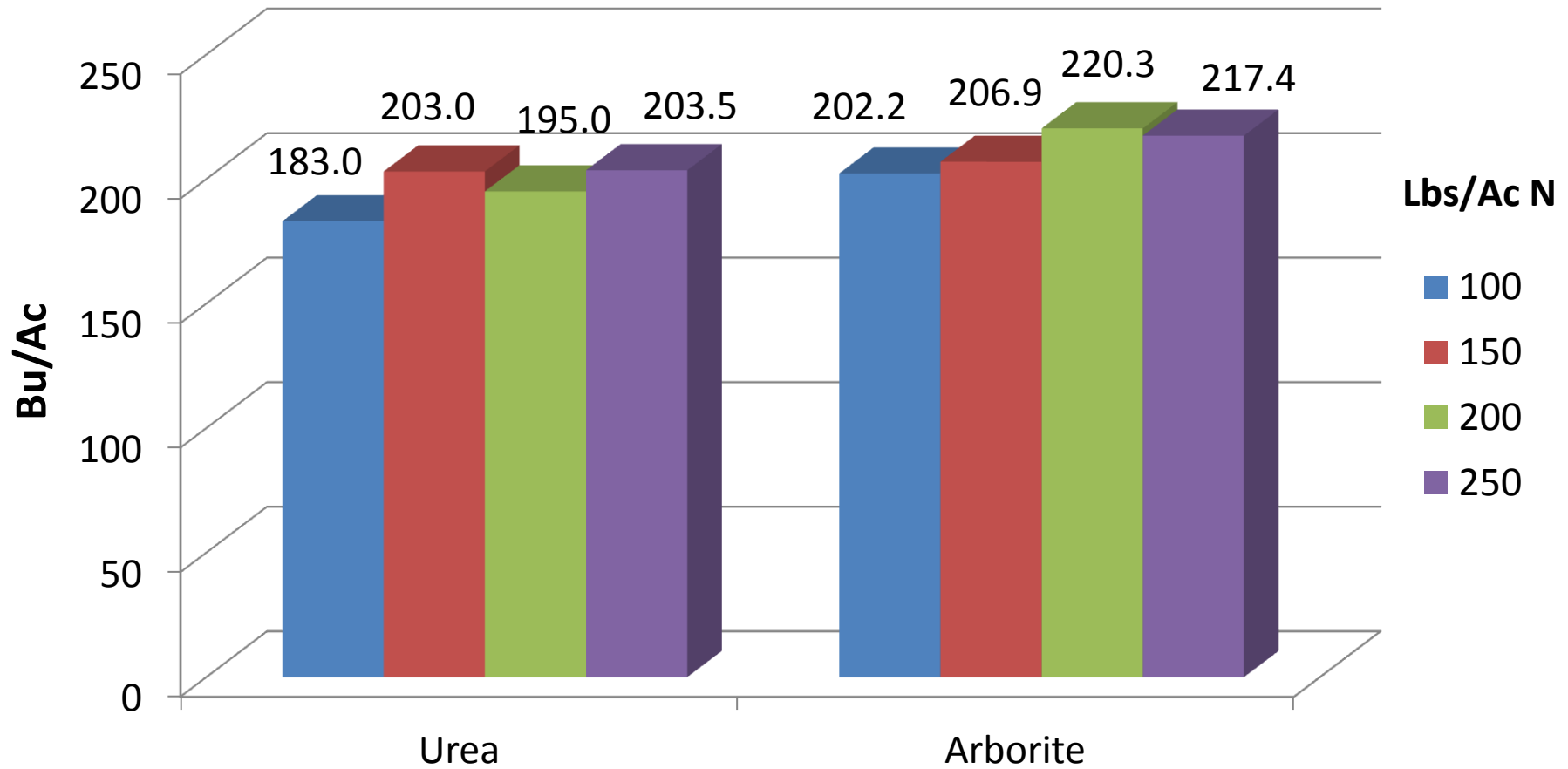
# 2011 Corn Yield Increase Comparison Using Different Rates of Urea and Arborite® AG Treated Urea

All Arborite® AG yield increases significant P = 0.05



# 2011 Corn Yield Comparison Using Urea and Arborite® AG Treated Urea

All Arborite® AG yield increases significant P = 0.05 except 150 N rate



# Statistical Significance

- Urea 100 vs. Arborite 100 →  $p = 0.009$
- Urea 150 vs. Arborite 150 → NS ( $p=0.5729$ )
- Urea 200 vs. Arborite 200 →  $p = 0.006$
- Urea 250 vs. Arborite 250 →  $p = 0.0512$

Arborite Rate	$\alpha = 0.05$	$\alpha = 0.1$
100	C	C
150	ABC	BC
200	A	A
250	AB	AB