

Comparison of Sidedress Nitrogen Sources for Dark Tobacco

2007 – MSU, Murray, KY

Andy Bailey

Tobacco Extension Specialist

Univ. of KY / Univ. of TN

Sidedress N Source Comparisons

2007 – MSU, Murray, KY

- Objective: determine effect of sidedress nitrogen source on dark-fired tobacco yield and quality.
- Soil sample results:
 - Initial soil pH (March): 6.5, Buffer pH 6.9
 - P index 116 (very high); K index 298 (medium)
 - Ca: 3210; Mg: 206 (high); Zn: 6.1
- 150 lbs N/A applied pretransplant as urea
- Narrowleaf Madole LC set June 6 (4900 plants/A)
- Each nitrogen source sidedressed at 150 lbs N/A on July 3, cultivated in July 5.

Sidedress N Source Comparisons 2007 – MSU, Murray, KY

Trt	Nitrogen Source	Lbs N/A applied from N source
1	Hydro Plex 14-0-14	150
2	Potassium Nitrate 13.5-0-45	150
3	Calcium Nitrate 15.5-0-0	150
4	15-15-15 MiniPrills	150
5	21-7-14 MiniPrills	150
6	Ammonium nitrate 34-0-0	150

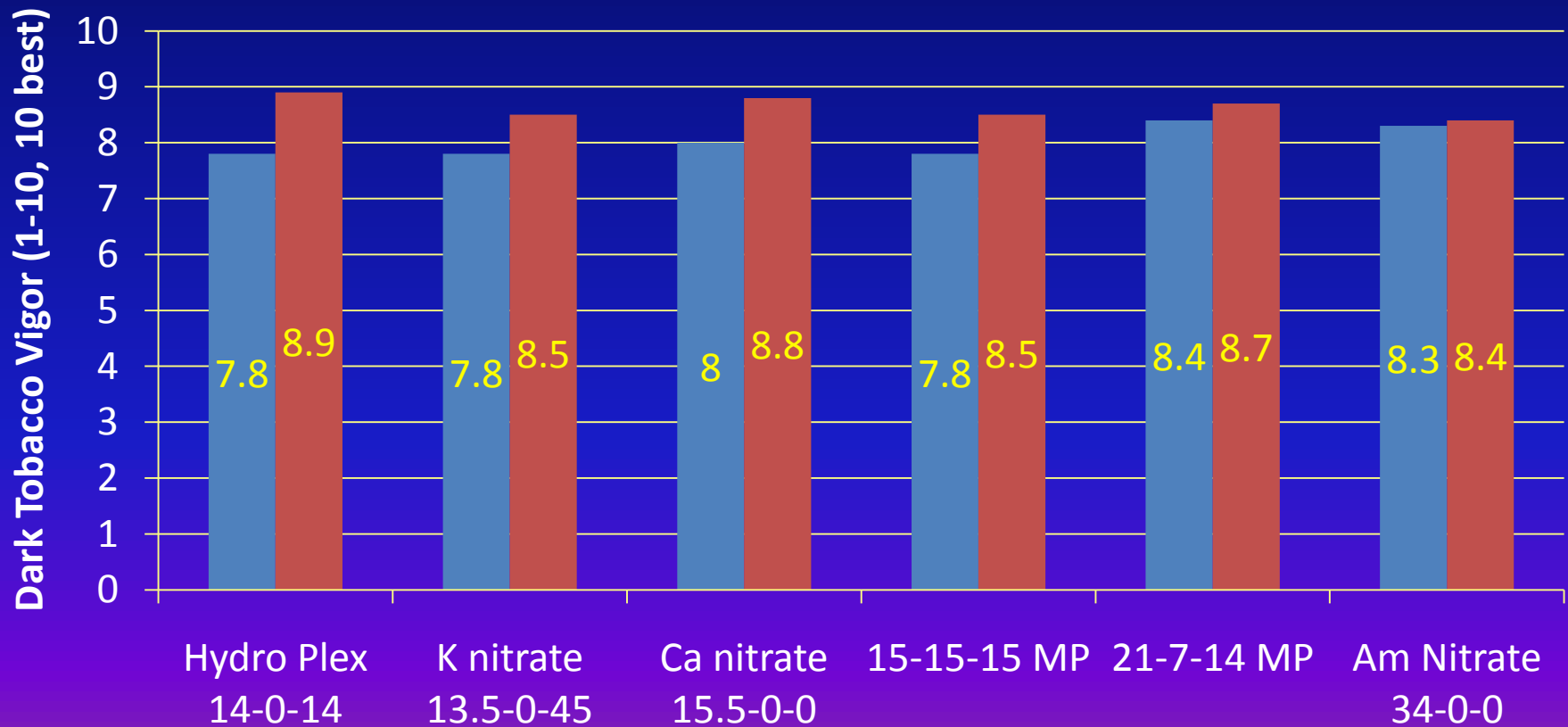
*Trial was randomized complete block with 4 replications. Plots 4 rows, 40 ft. long. All 4 rows treated, data collected from center 2 rows (30 plants/plot).

Sidedress N Source Comparisons

2007 – MSU, Murray, KY

Dark-Fired Tobacco Yield

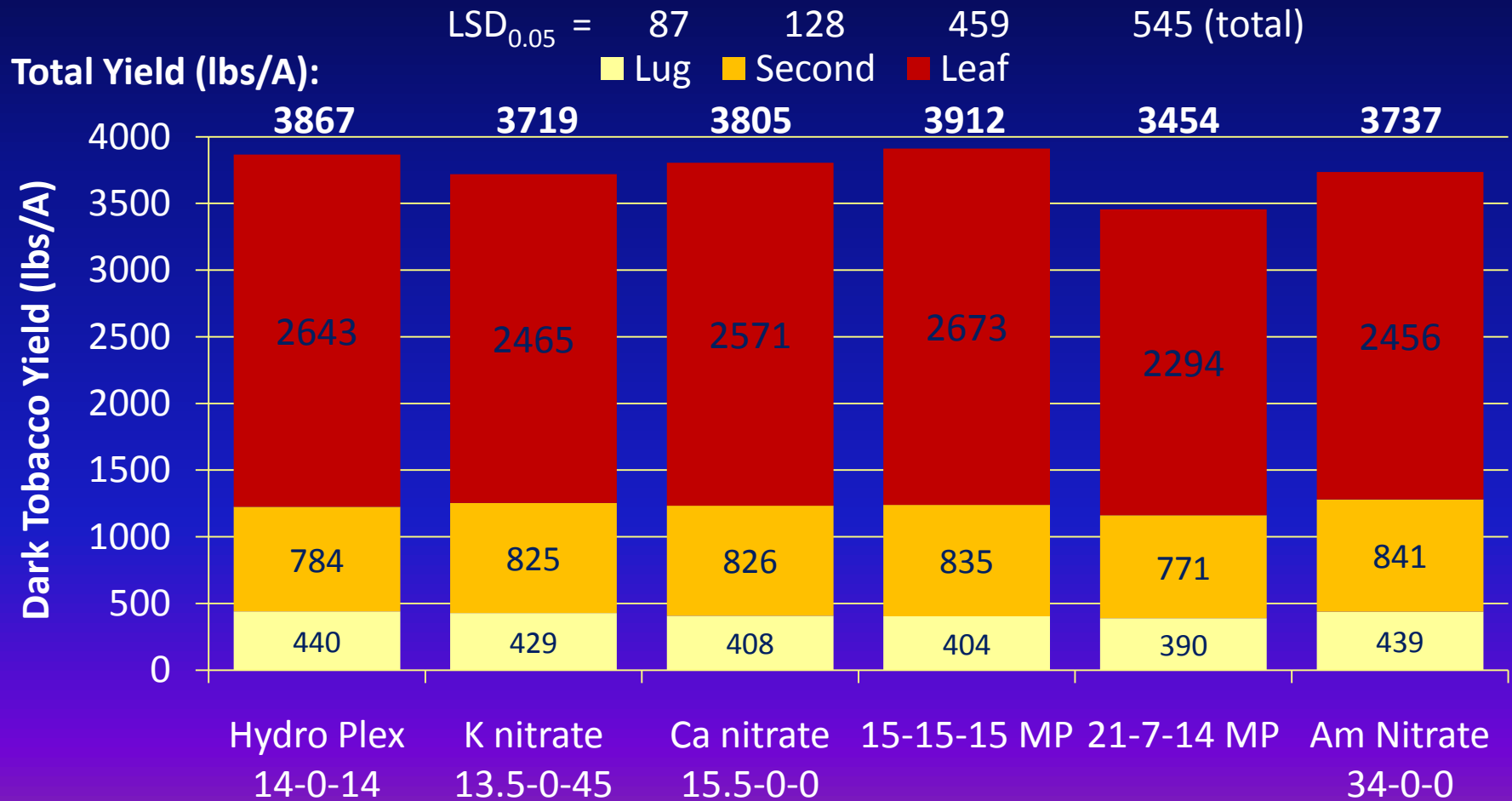
LSD_{0.05} = 0.9 0.4
■ Vigor 1 (Aug 9) ■ Vigor 2 (Sept. 24)



Sidedress N Source Comparisons

2007 – MSU, Murray, KY

Tobacco Vigor Ratings (1-10, 10 best)



Sidedress N Source Comparisons

2007 – MSU, Murray, KY

Quality Grade Index and Gross Revenue/A*

*Grade Index and Gross Revenue based on 2004 USDA grade and price support for Type 23 Western dark-fired tobacco.

