

2010 Helena Tobacco Fertility Trial

MSU West Farm – Murray, KY

- Objective of Trial:

Determine dark tobacco response to float water, setter water, and foliar applications of Helena fertility products.

- Standard fertility program applied to all plots according to soil test recommendation:

- 150 lbs N/A + 100 lbs P₂O₅ /A + 220 lbs K₂O /A pretransplant broadcast and incorporated as urea, DAP, and sulfate of potash

- Additional 150 lbs N/A applied sidedress with 32% UAN liquid

- Total 300 lbs N/A, 100 lbs P₂O₅ /A, 220 lbs K₂O /A

- Treatment applications made as setter water or broadcast foliar applications at 15 gal/A (1st prebloom) and 30 gal/A (2nd prebloom and post-topping)

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- Tobacco Variety: PD 7318LC dark set June 14
- Randomized complete block design with 4 replications.
- Plots 4-rows, 40 ft. long
- Data collected: mid-season stand counts and vigor rating, dark-fired yield and quality.

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MSU West Farm – Murray, KY - Treatments

Treatment	Rate	Timing
Standard Fertility NC0801 NC0802 NC0803	Soil test N-P-K 1 gal/A (200 gal) 2 qt/A (200 gal) 1 qt/A (200 gal)	At transplanting
Standard Fertility NC0801	Soil test N-P-K 1 qt/500 gal	In float water 4 wk prior to transplanting
Standard Fertility NC0804 NC0802	Soil test N-P-K 1 gal/A 1 qt/A	Pre-Bloom (2 apps.)
Standard Fertility NC0805	Soil test N-P-K 1 qt/A	Pre-Bloom (2 apps.)
Standard Fertility NC0802 NC0804	Soil test N-P-K 2 qt/A 1 gal/A	Post-Topping
Standard Fertility (untreated check)	Soil test N-P-K only	-

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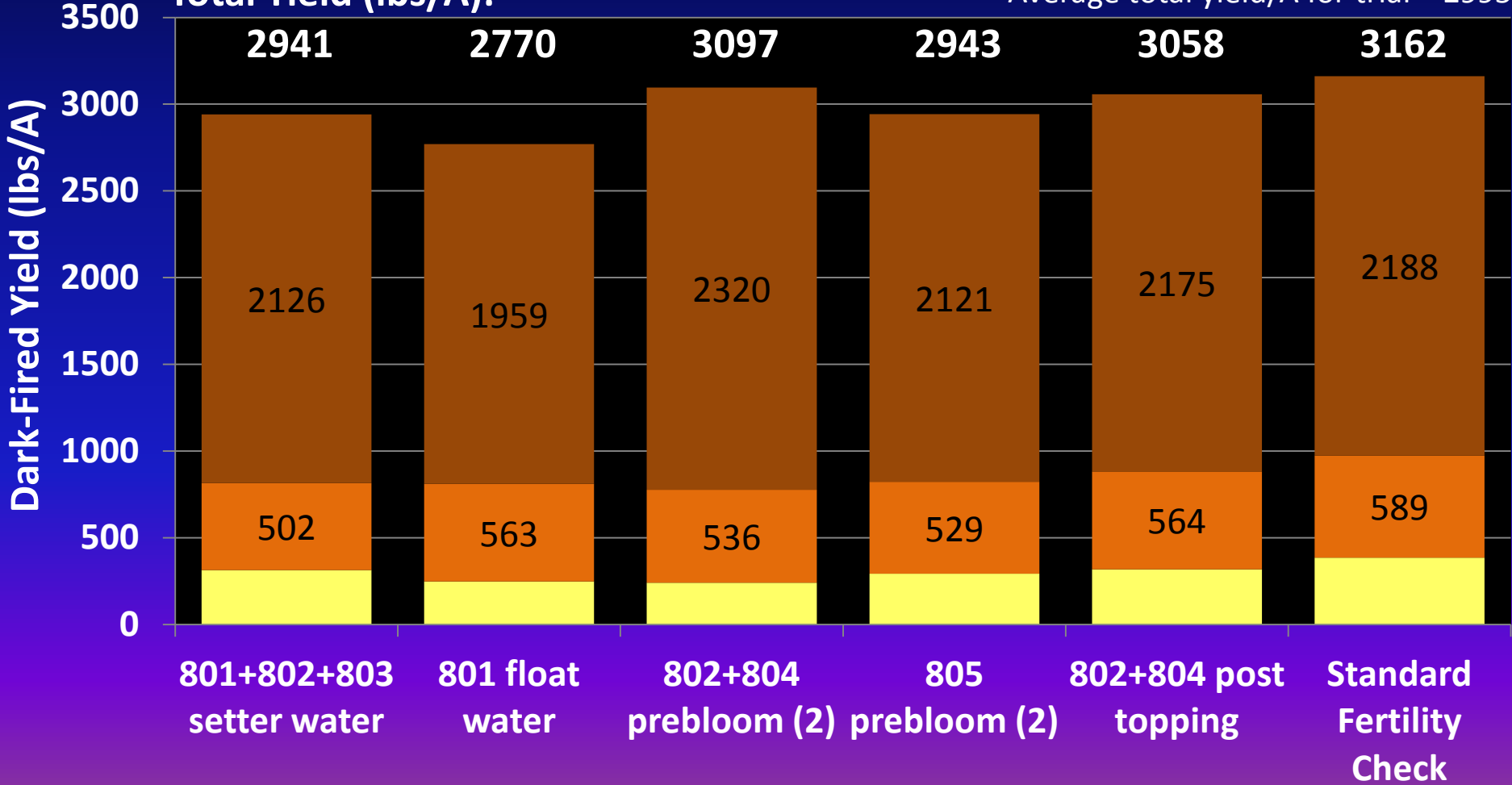
MSU West Farm – Murray, KY – Dark-Fired Yield

LSD_{0.05} = 95 137 354 430 (total)

 Lug Second Leaf

Total Yield (lbs/A):

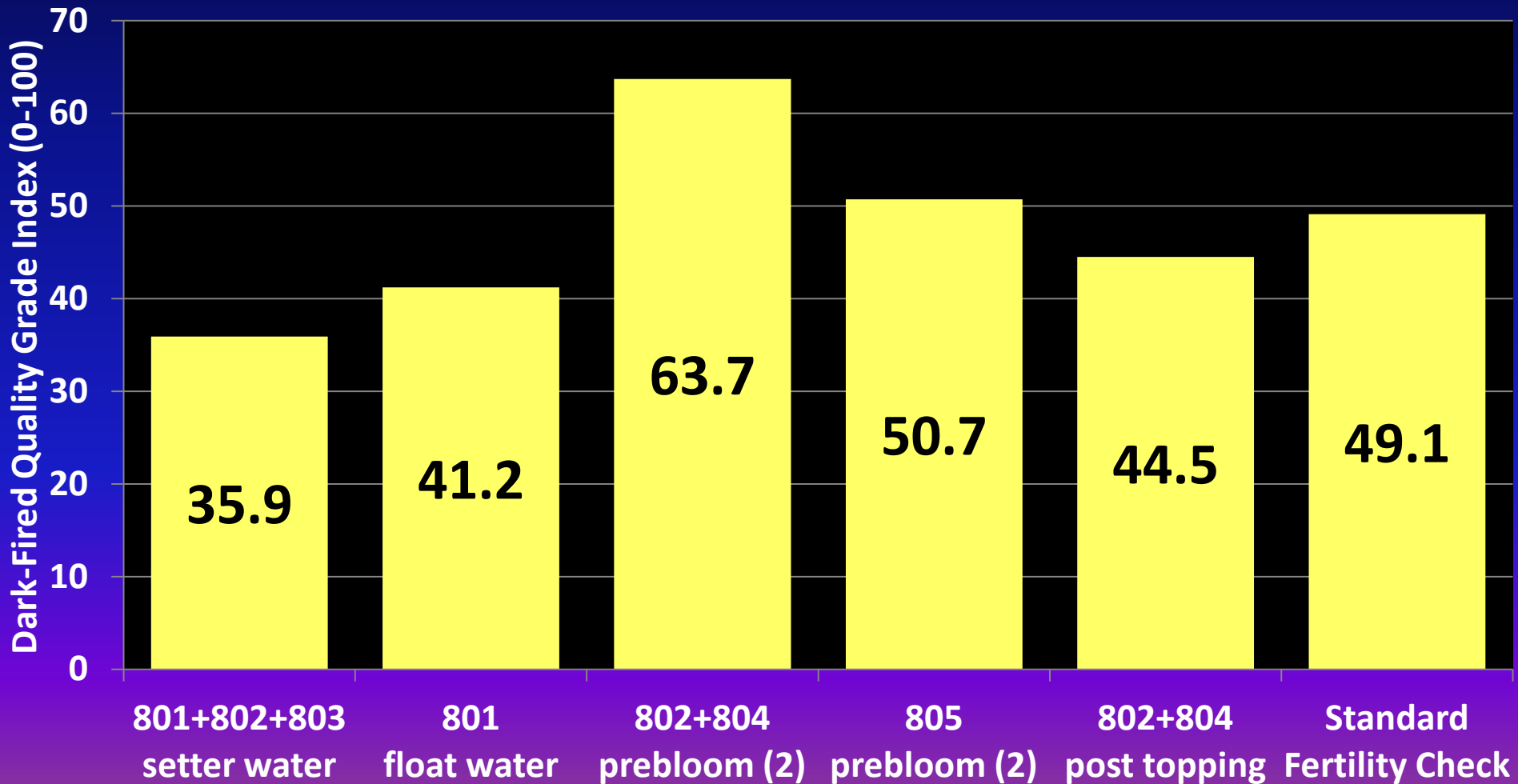
Average total yield/A for trial = 2995



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MSU West Farm – Murray, KY – Dark-Fired Quality Grade Index

$LSD_{0.05} = 15$
■ Quality Grade Index



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MSU West Farm – Murray, KY – Data Summary

- No differences seen in plant stand or crop vigor in any treatment.
- No statistically significant differences in total yield, quality grade index in any treatment was not different from standard fertility check.