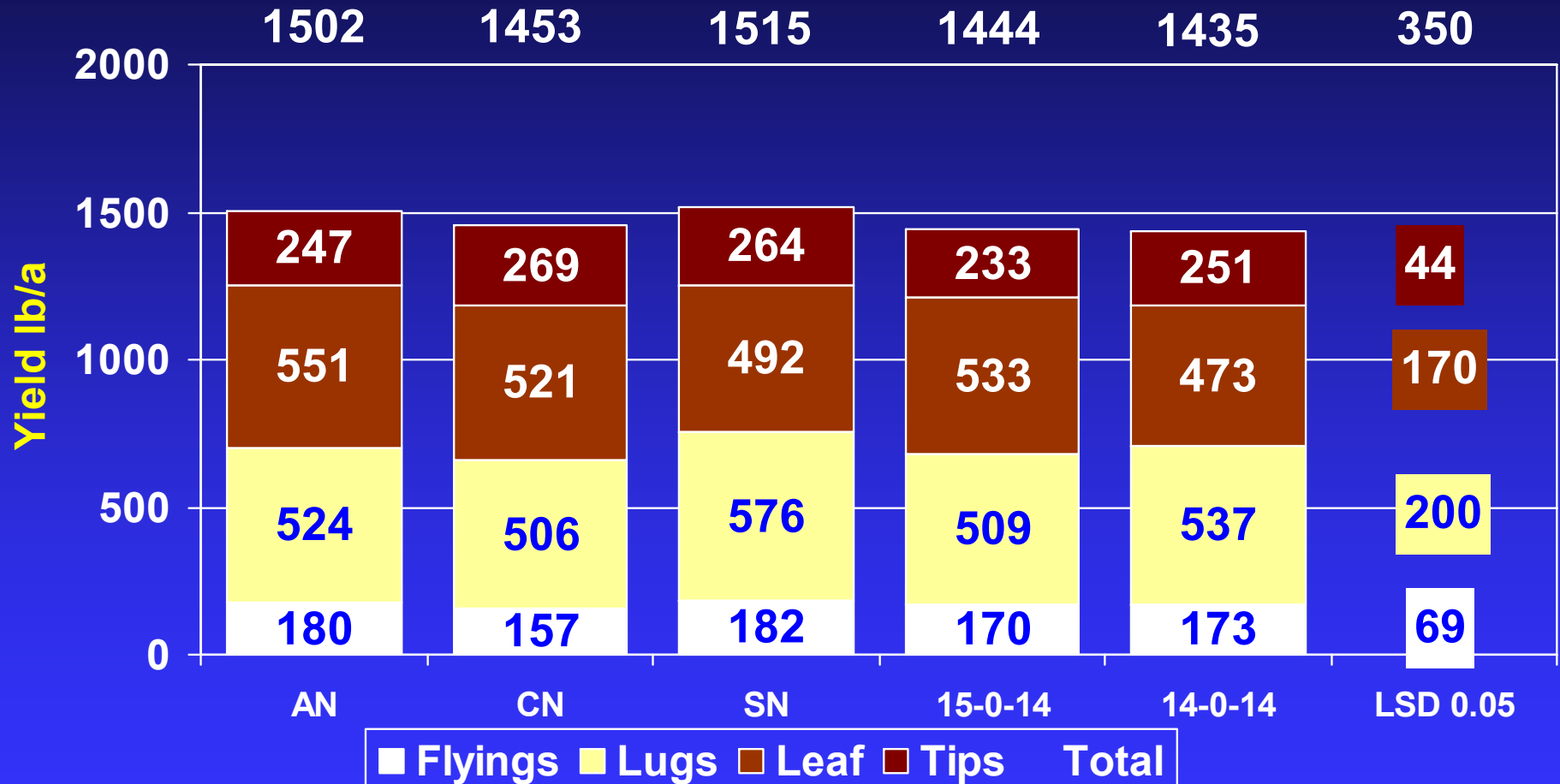


Fertilizer Trials

- Two fertilizer trials were conducted in 2005. One in Clinton Co. and one in Brown Co., Ohio. Sources of nitrogen were compared. The effects of nitrogen fertilizer are clear increasing yields 600 to 900 lb/a and value by \$1100 to \$2000 over plots that received no nitrogen fertilizer other than existing nitrogen. The soil fertility was considered good prior to fertilization in Brown Co.

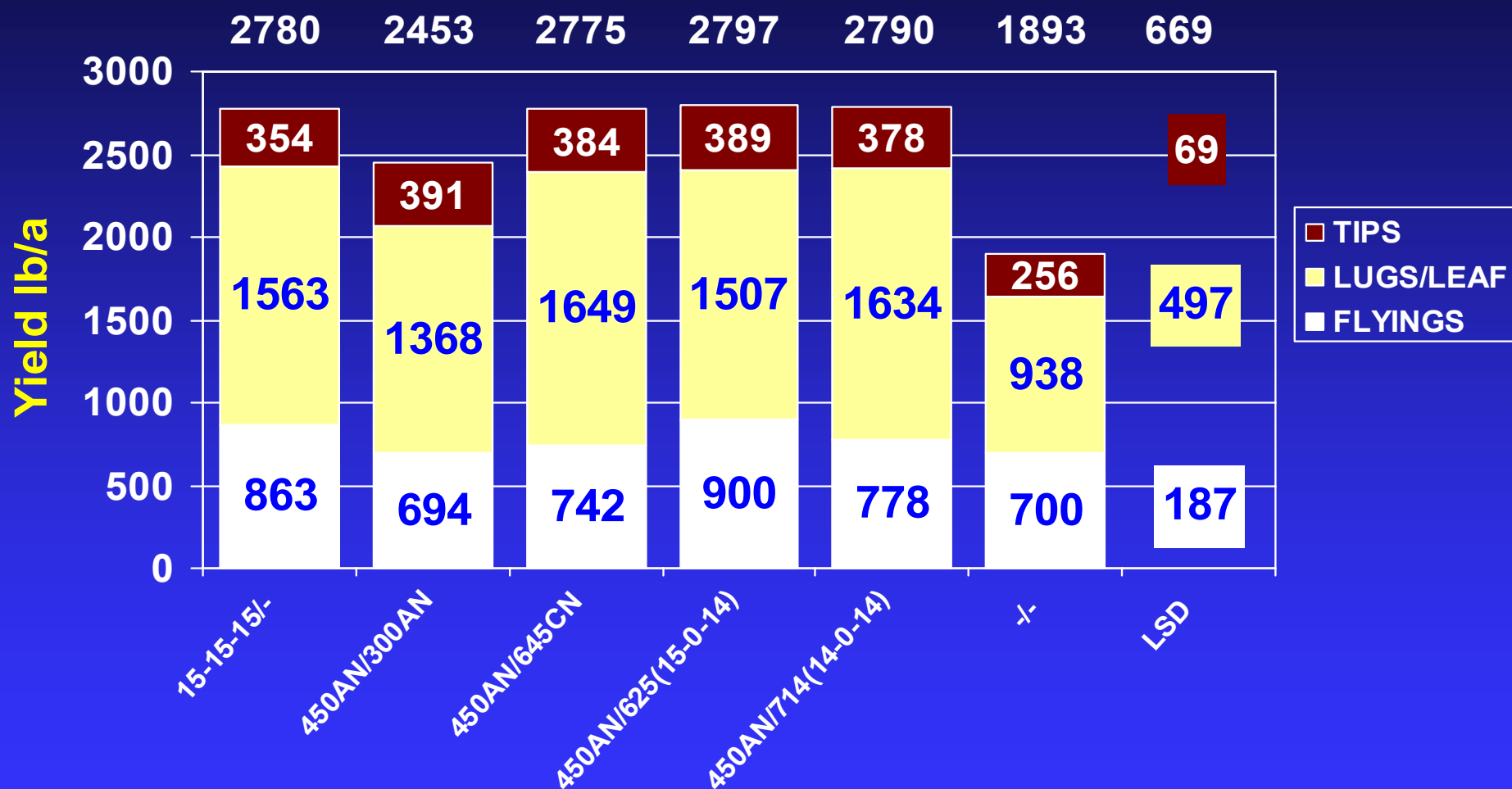
Effects of Nitrogen Source on Burley Yield

Clinton Co. – Randall Neal Farm



All plots received 450 lb/a Ammonium Nitrate Broadcast followed by 100 lb/a N from the sources listed at sidedressing. AN = Ammonium Nitrate. CN = Calcium Nitrate, SN = Sodium Nitrate, 15-0-14 is a sodium/potassium nitrate mix and 14-0-14 is a calcium/potassium nitrate mix

Effects of Nitrogen Source on Burley Yield – Ring/Hall Farm Southern Ohio



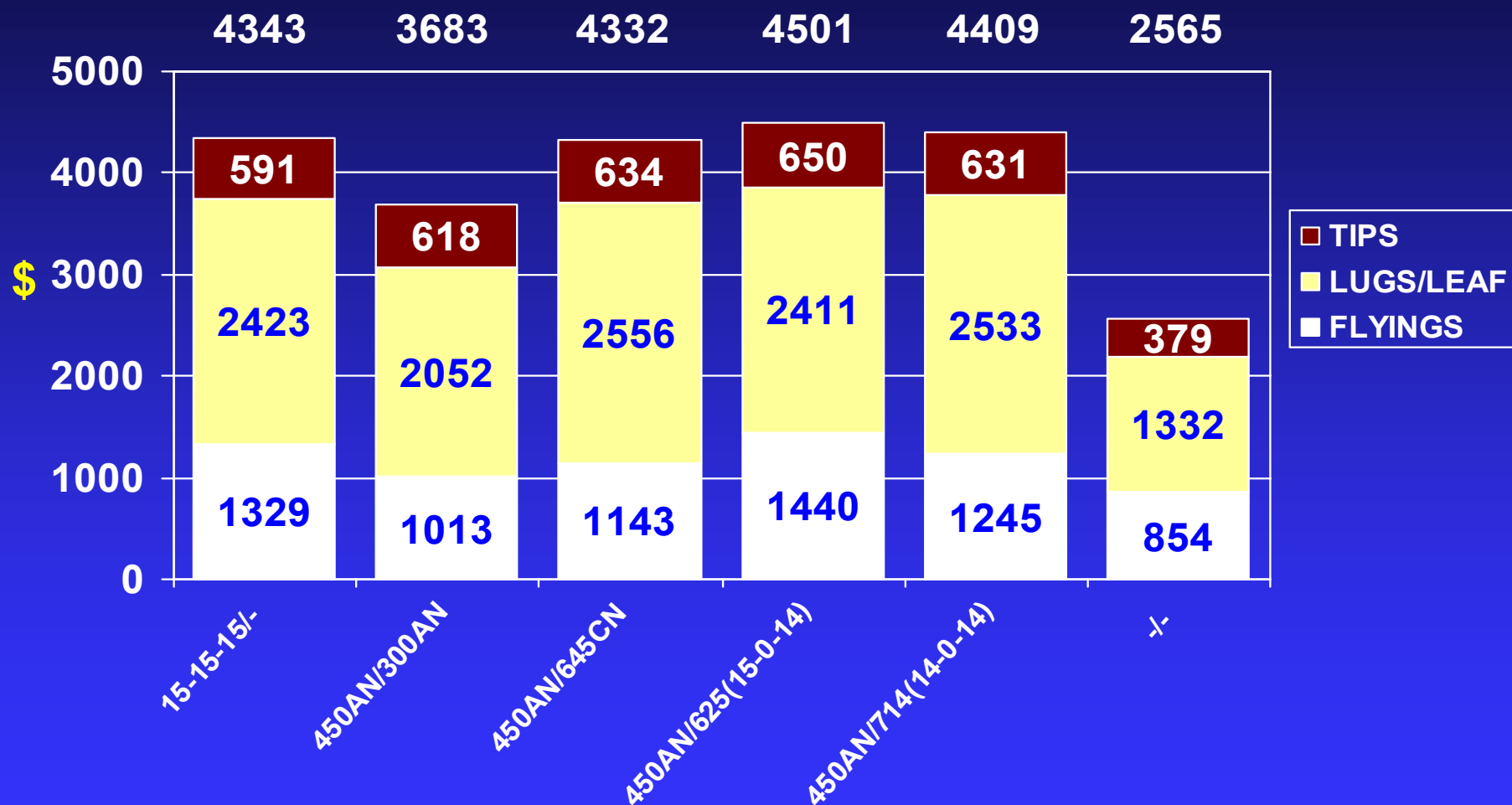
15-15-15 contains Ammonium Nitrate (AN), CN = Calcium Nitrate, 15-0-14 is a sodium/potassium nitrate mix, & 14-0-14 is a calcium/potassium nitrate mix. Soil fertility was high prior to establishment of the crop.

Effects of Nitrogen Source on Burley Grades – Ring/Hall Farm Southern Ohio

Treatment	Flyings	Lugs/Leaf	Tips
15-15-15 -	X-2	B-1	T-1
450AN 300AN	X-3	B-2	T-2
450AN 645CN	X-2	B-1	BFR-1
450AN 625(15-0-14)	X-1	BFR-2	T-1
450AN 714(14-0-14)	X-1	B-1	T-1
- -	X-4	B-3	T-3

15-15-15 contains Ammonium Nitrate (AN), CN = Calcium Nitrate, 15-0-14 is a sodium/potassium nitrate mix, & 14-0-14 is a calcium/potassium nitrate mix.
Soil fertility was high prior to establishment of the crop.

Effects of Nitrogen Source on Burley Value – Ring/Hall Farm Southern Ohio



15-15-15 contains Ammonium Nitrate (AN), CN = Calcium Nitrate, 15-0-14 is a sodium/potassium nitrate mix, & 14-0-14 is a calcium/potassium nitrate mix. Soil fertility was high prior to establishment of the crop.

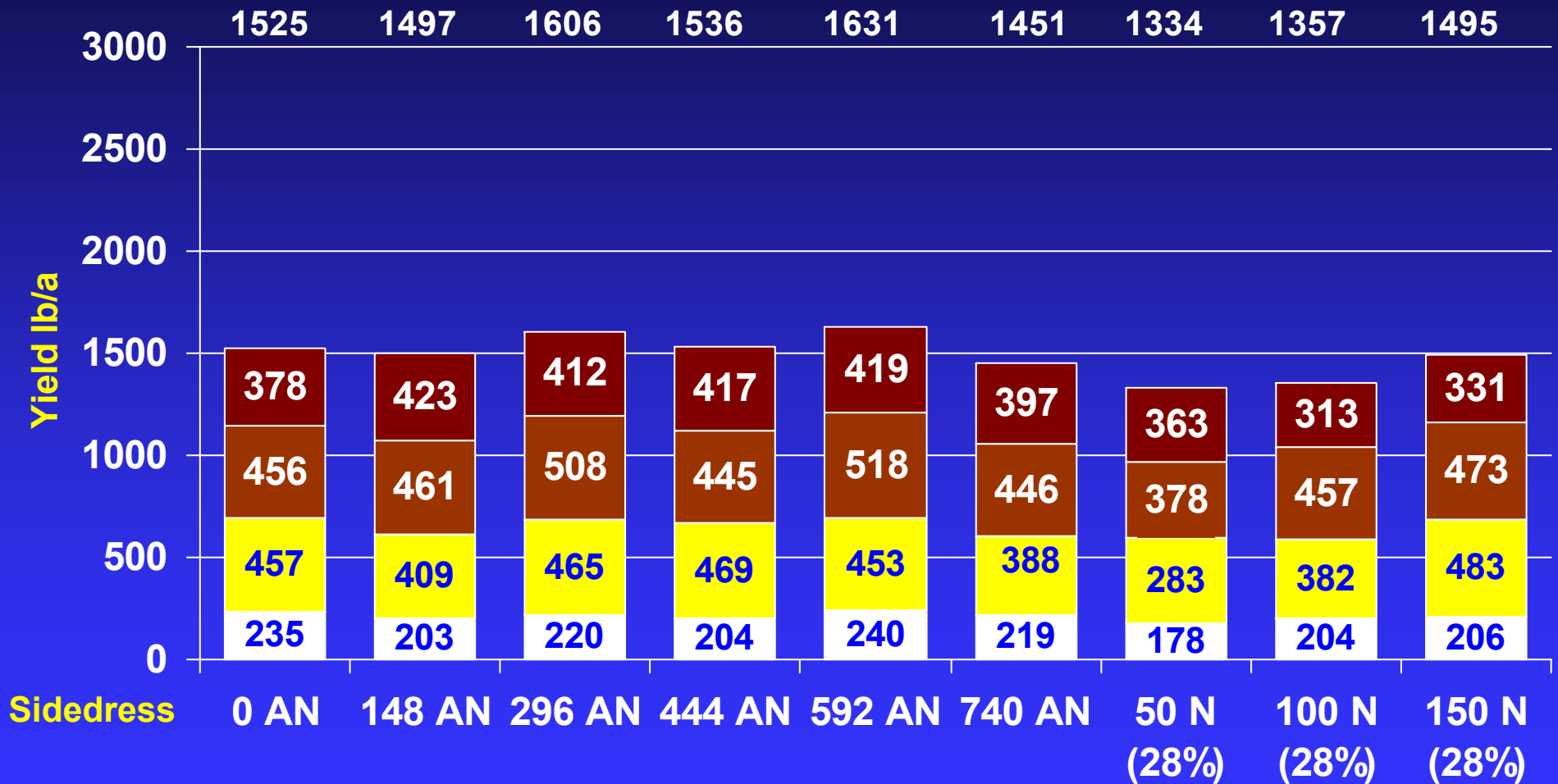
Fertilizer trials

Rates of nitrogen fertilizer were tested at the UK farm in Woodford County. Half of the plots were rain-fed and the other half were irrigated with subsurface drip irrigation. The rain-fed plots showed no response to nitrogen above 100 lbs./A. In the irrigated plots yield increased with increasing nitrogen up to 250 lbs. N/A.

Nitrogen rates were also tested at UK's Spindletop Farm with surface drip irrigation for all plots. This was the first year for tobacco on this site after two years of sod. Yields were high for all treatments even those receiving only 80 lbs. N/A. There were no significant yield increases for added nitrogen above 160 lbs. N/A. Evaluations of the leaf by company buyers indicated a slight preference for leaf grown under moderate nitrogen levels.

No-till Fertility Trial (Not Irrigated)

Woodford Co. – UK farm

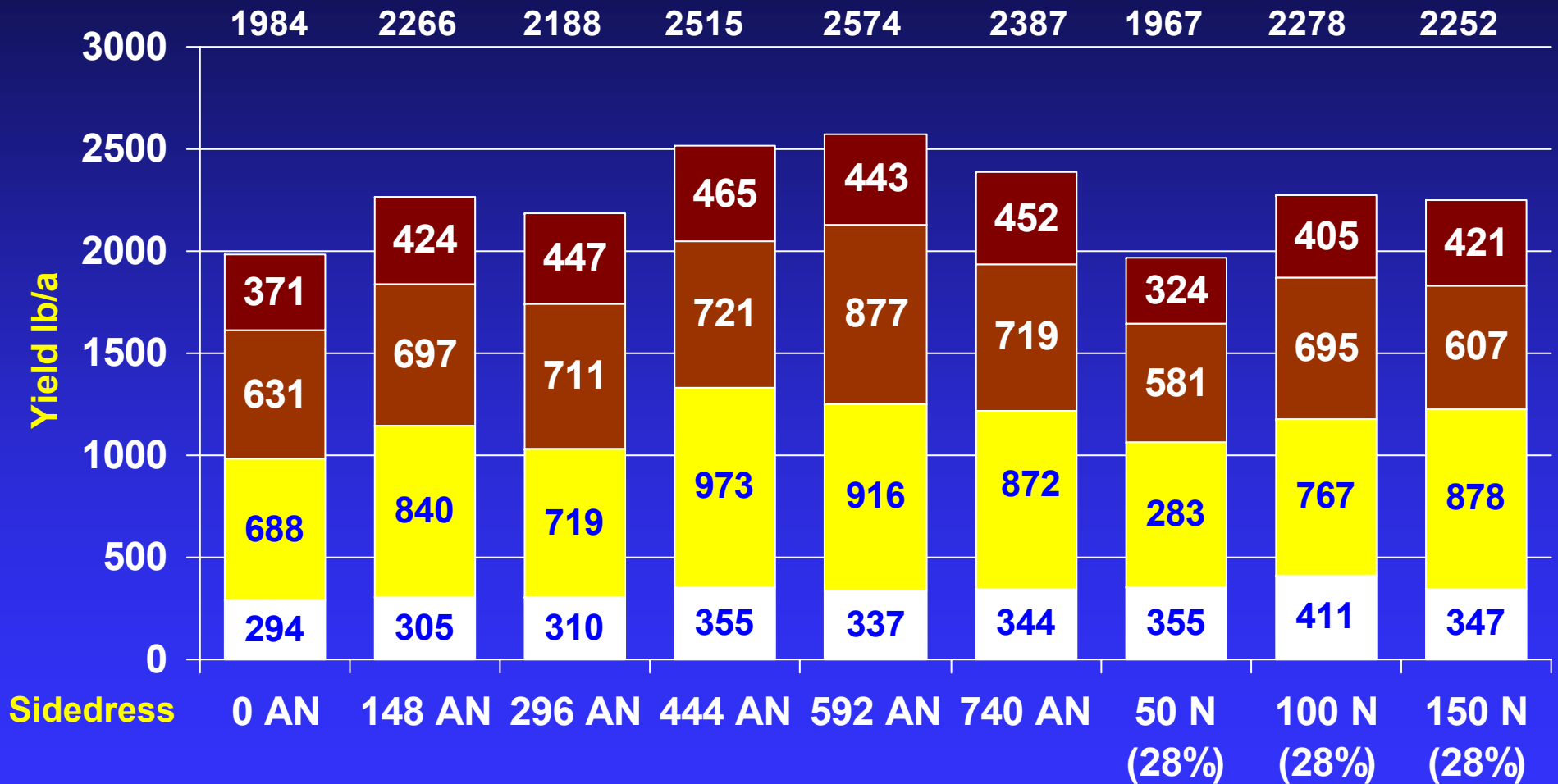


Flyings
 Lugs
 Leaf
 Tips

100 lbs N applied preplant (28%).

No-till Fertility Trial (Irrigated)

Woodford Co. – UK farm

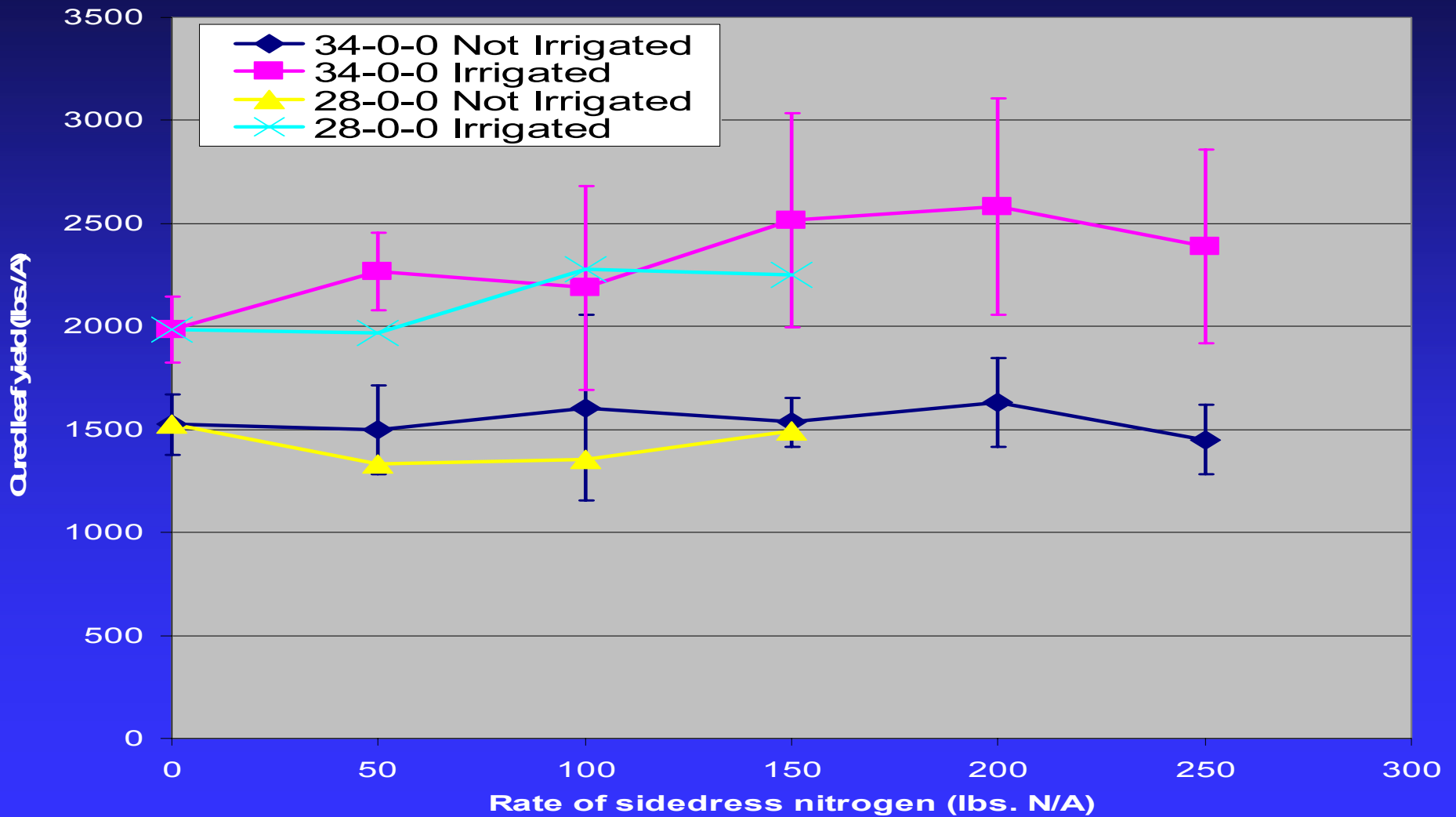


Flyings
 Lugs
 Leaf
 Tips

100 lbs N applied preplant (28%).

No-till Fertility Trial

Woodford Co. – UK farm



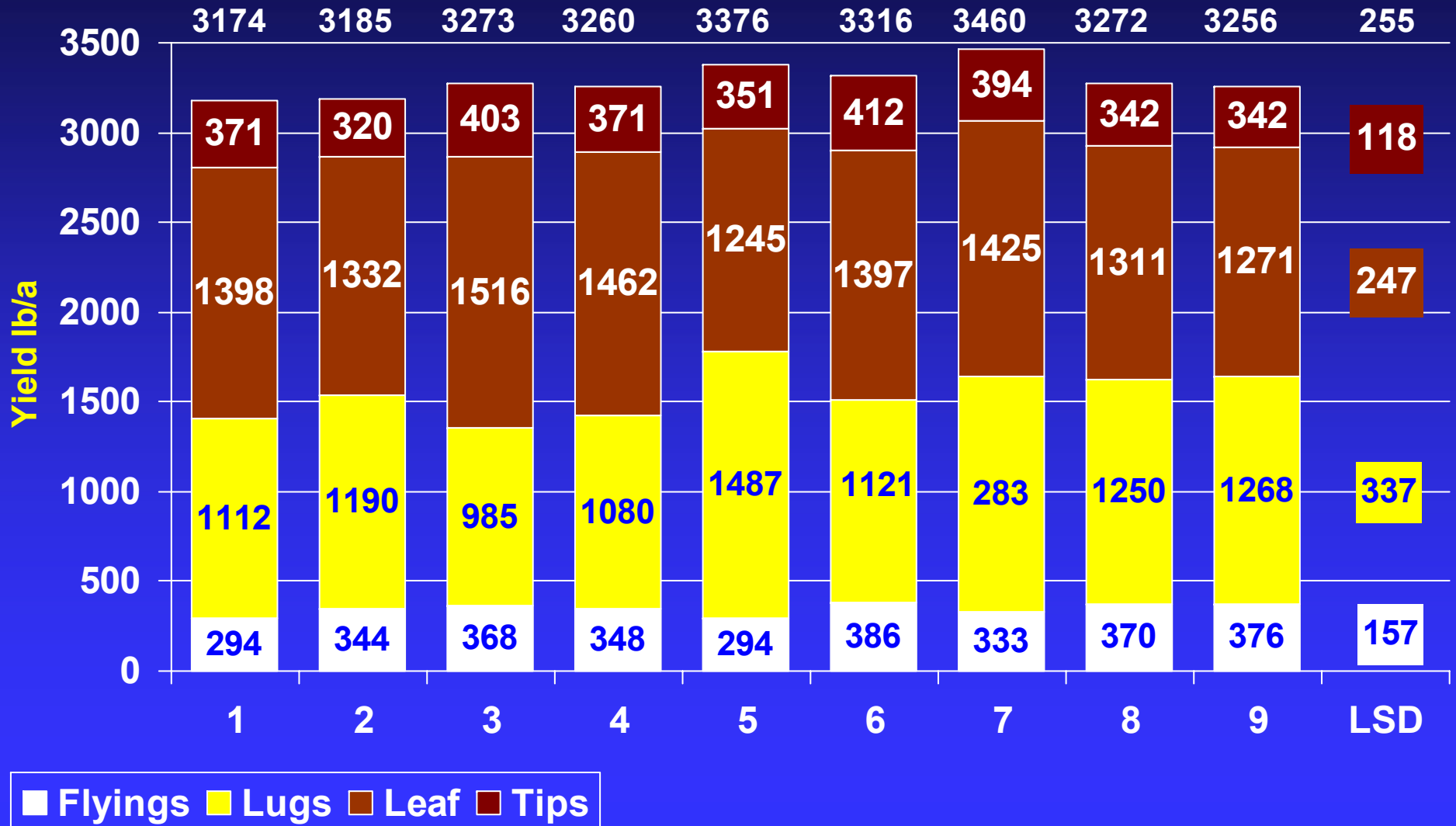
100 lbs N applied preplant as 28-0-0.

Nitrogen Fertilizer Test

Fayette County – Spindletop Farm

Treatment #	Preplant N (lbs./A)	Sidedress N (lbs./A)	Total N (lbs./A)
1	80	0	80
2	80	50	130
3	80	100	180
4	160	0	160
5	160	50	210
6	160	100	260
7	240	0	240
8	240	50	290
9	240	100	340

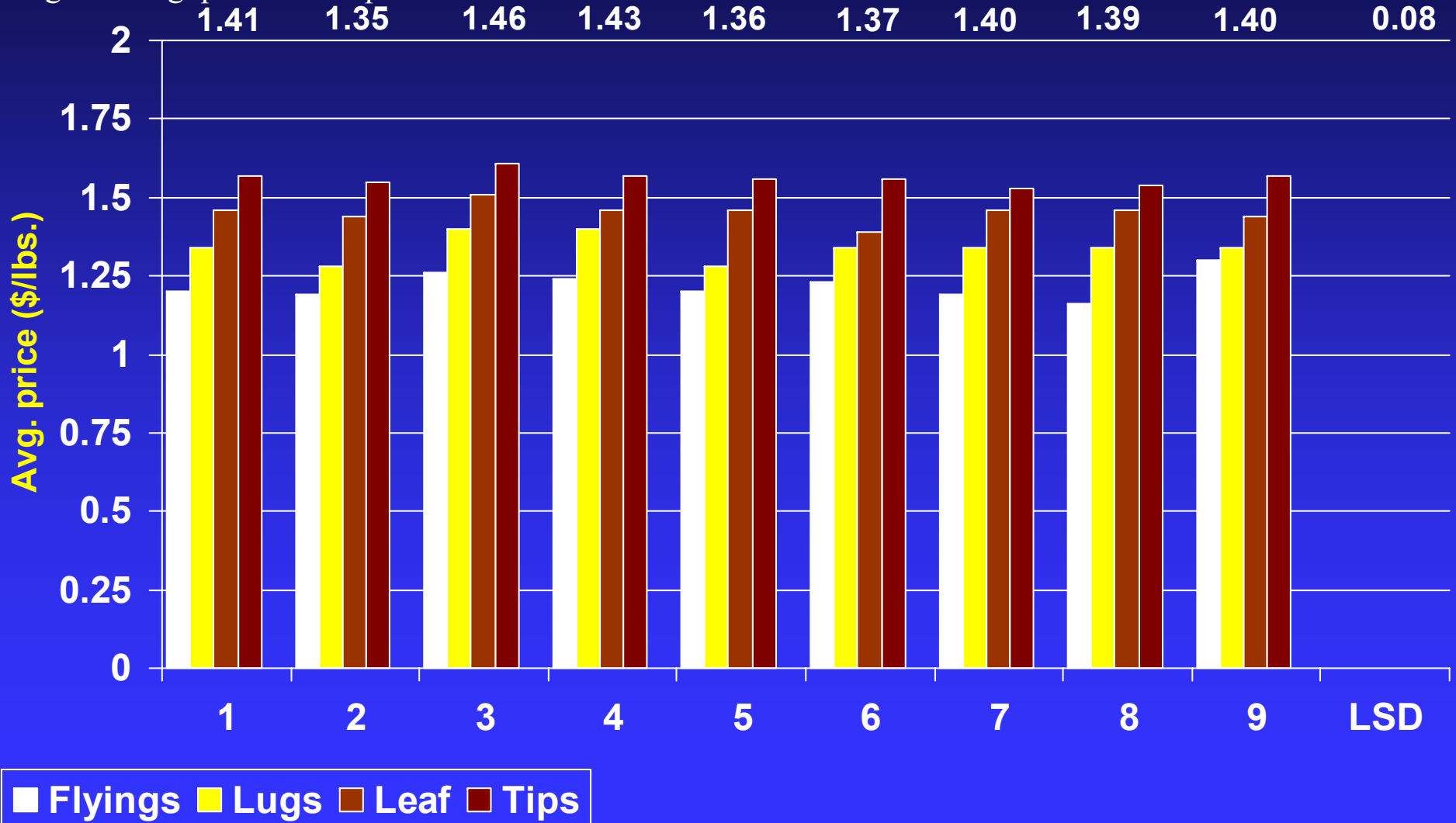
Nitrogen Fertilizer Test Fayette County – Spindletop Farm



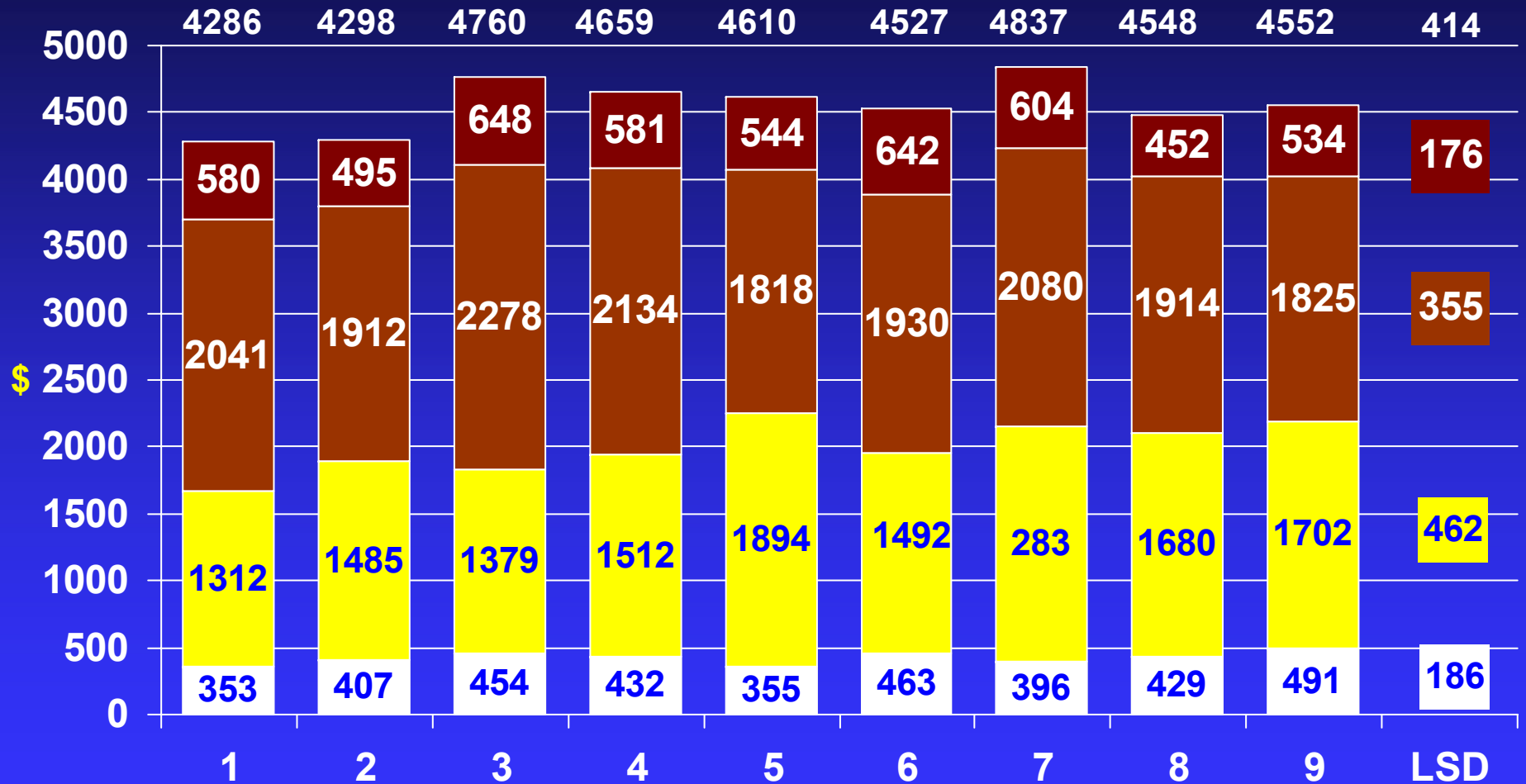
Nitrogen Fertilizer Test

Fayette County – Spindletop Farm

Weighted Avg. price for crop



Value of Nitrogen Fertilizer Test Fayette County – Spindletop Farm



Flyings
 Lugs
 Leaf
 Tips