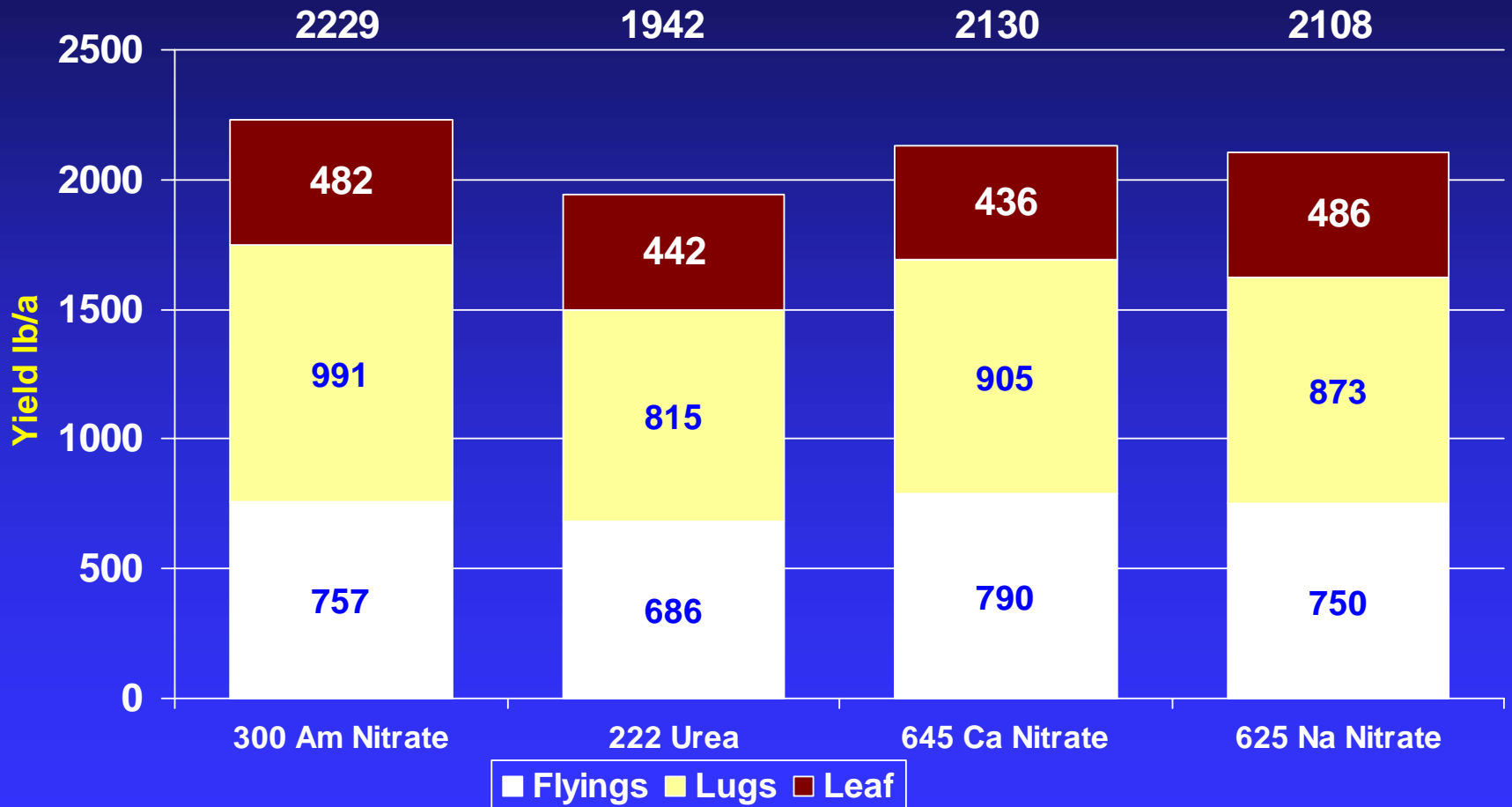


Fertility Trials

Two types of fertility trials were conducted during the 2003 season. The first looked at sources of nitrogen at sidedressing and with the exception of the Ron Madden location did not produce significant differences. The second type looked at nitrogen sources and potassium sources broadcast prior to transplanting. There were no differences in Wayne Co. However, in both Bath and Fayette Counties the 15-0-14 application was significantly better than some of the other applications.

Effects of Sidedressing Different Sources of Nitrogen on Burley Yield

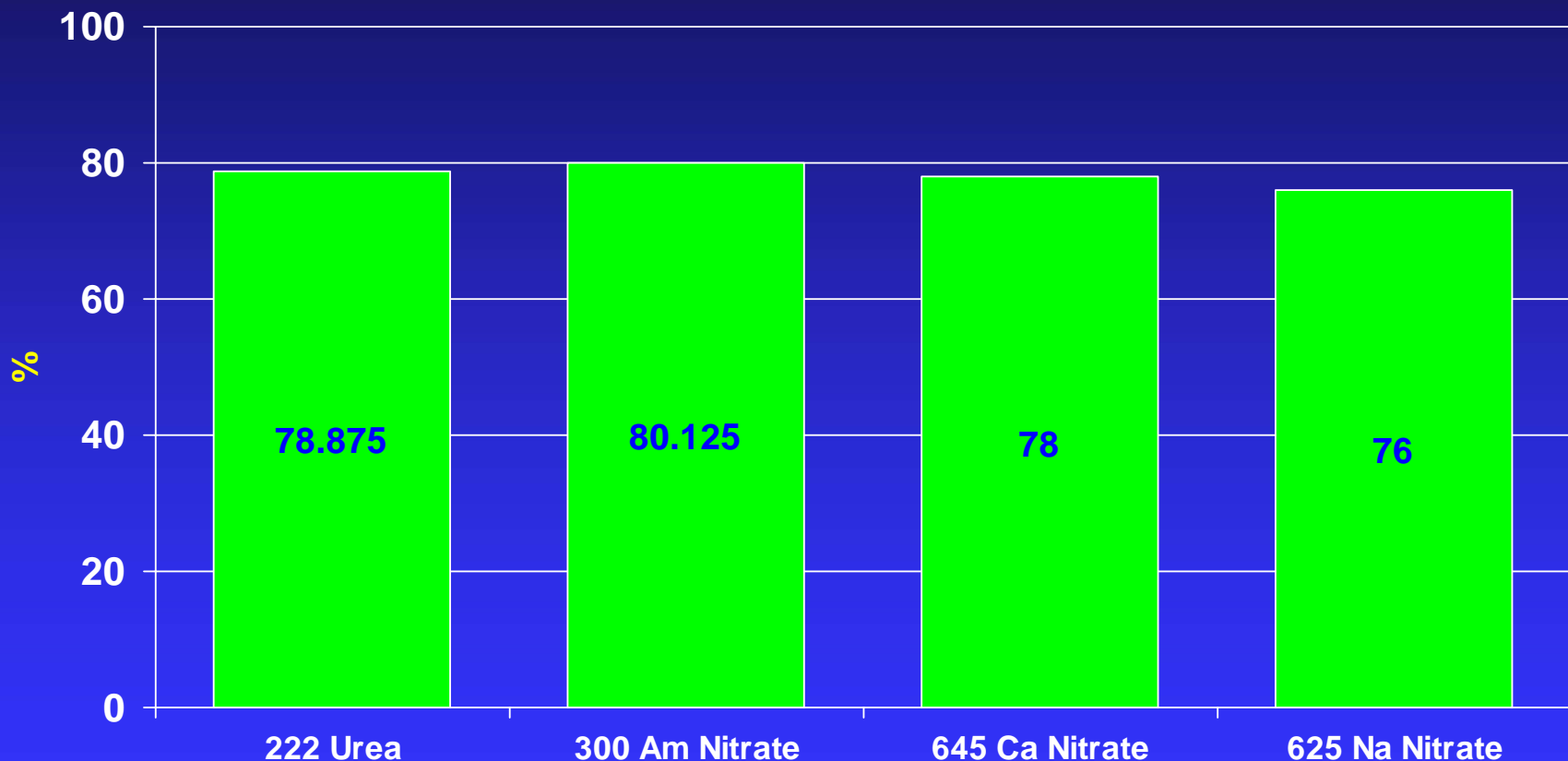
Elliot Co. – Tracy D. Kitchen Farm



450 Ammonium Nitrate Broadcast followed by 100 lb/a of Nitrogen Sidedressed.
Am = Ammonium, Ca = Calcium & Na = Sodium. There were no significant differences.

Effects of Sidedressing Different Sources of Nitrogen on Burley Vigor

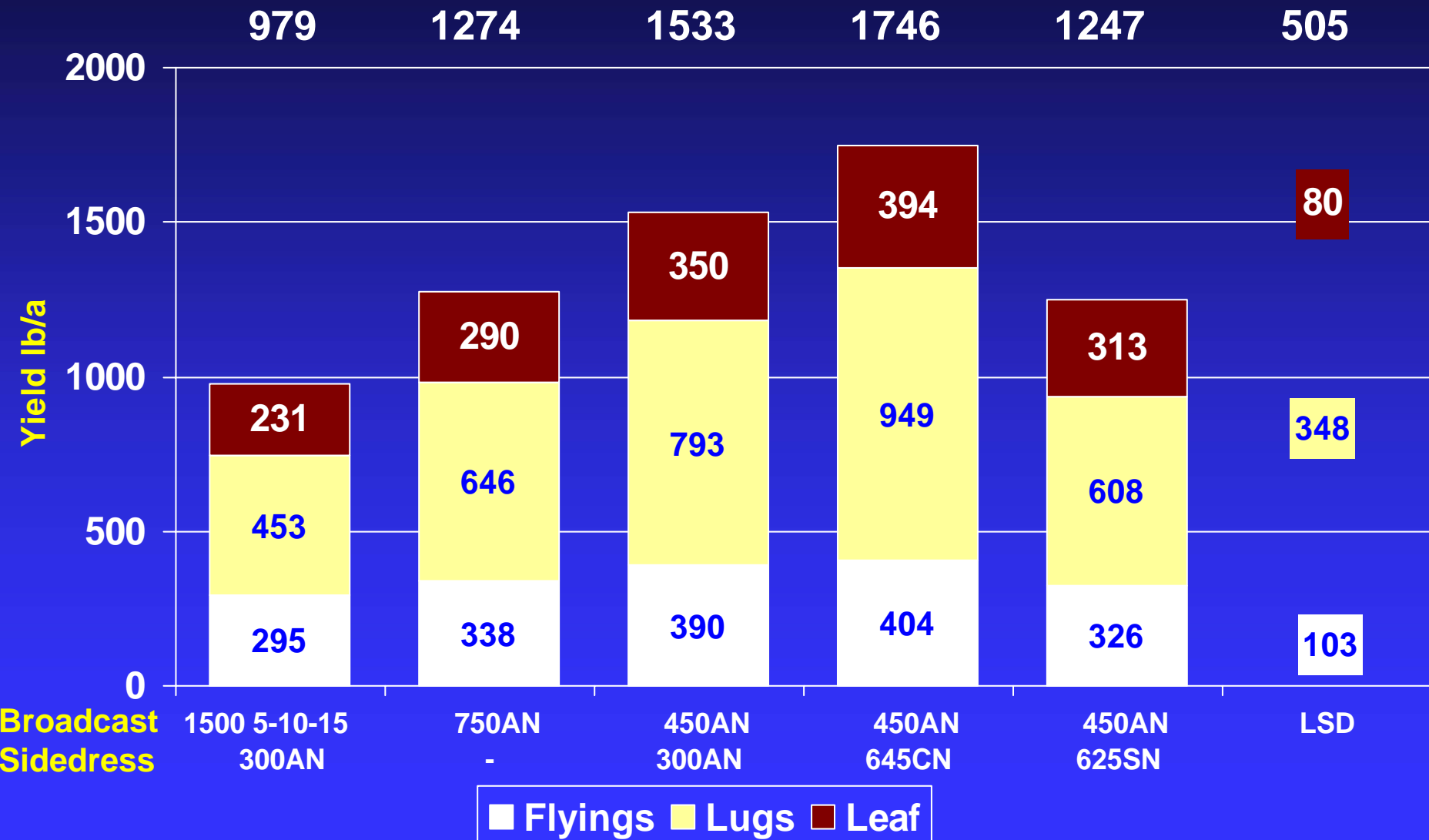
Elliot Co. – Tracy Kitchen Farm



450 Ammonium Nitrate Broadcast followed by 100 lb/a of Nitrogen Sidedressed.
Am = Ammonium, Ca = Calcium & Na = Sodium. There were no significant differences.

Fertility Trial

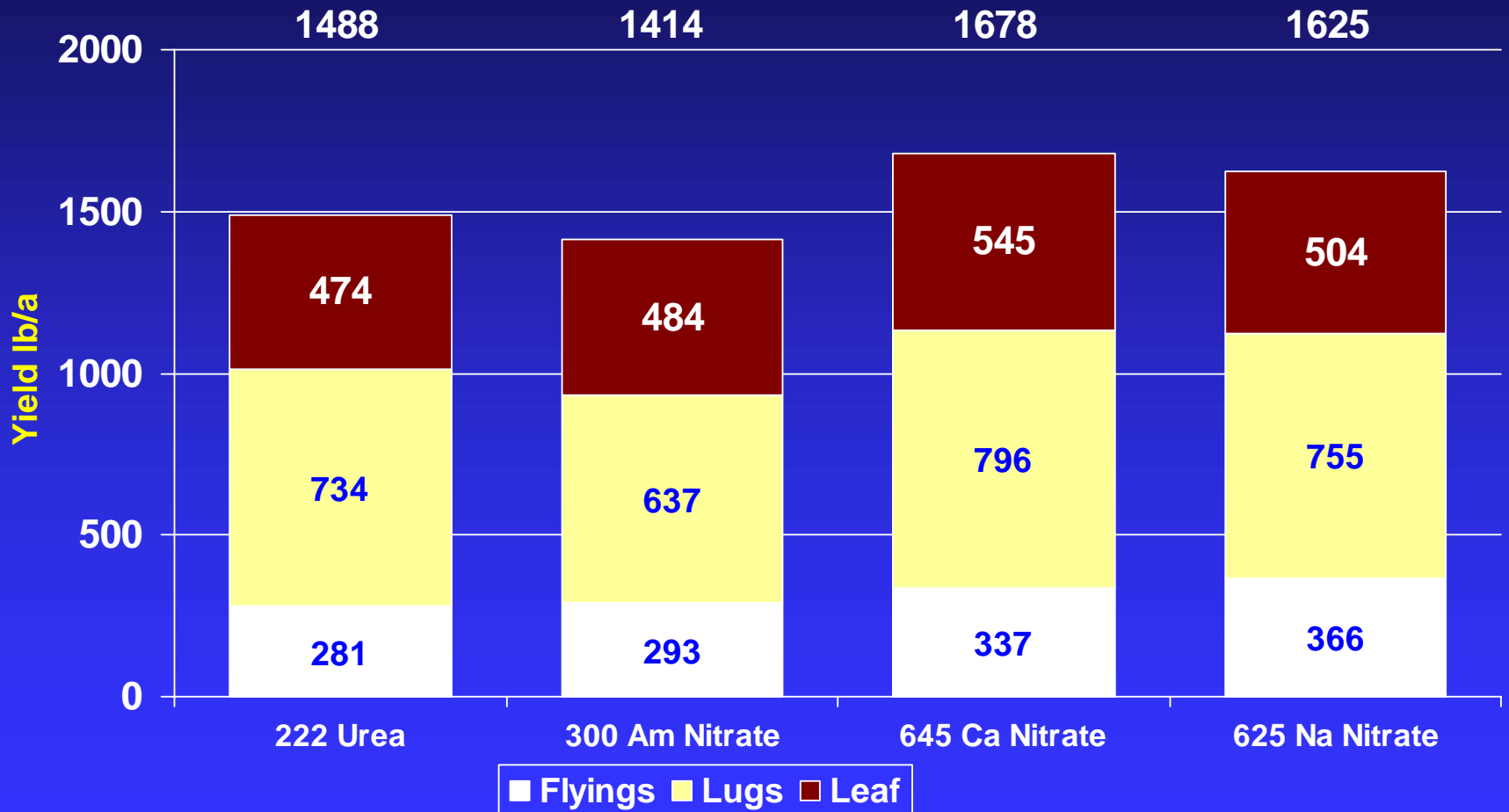
Jackson Co. – Ron Madden Farm



Number = lbs of product, AN = Ammonium Nitrate, CN = Calcium Nitrate, SN = Sodium Nitrate

Effects of Sidedressing Different Sources of Nitrogen on Burley Yield

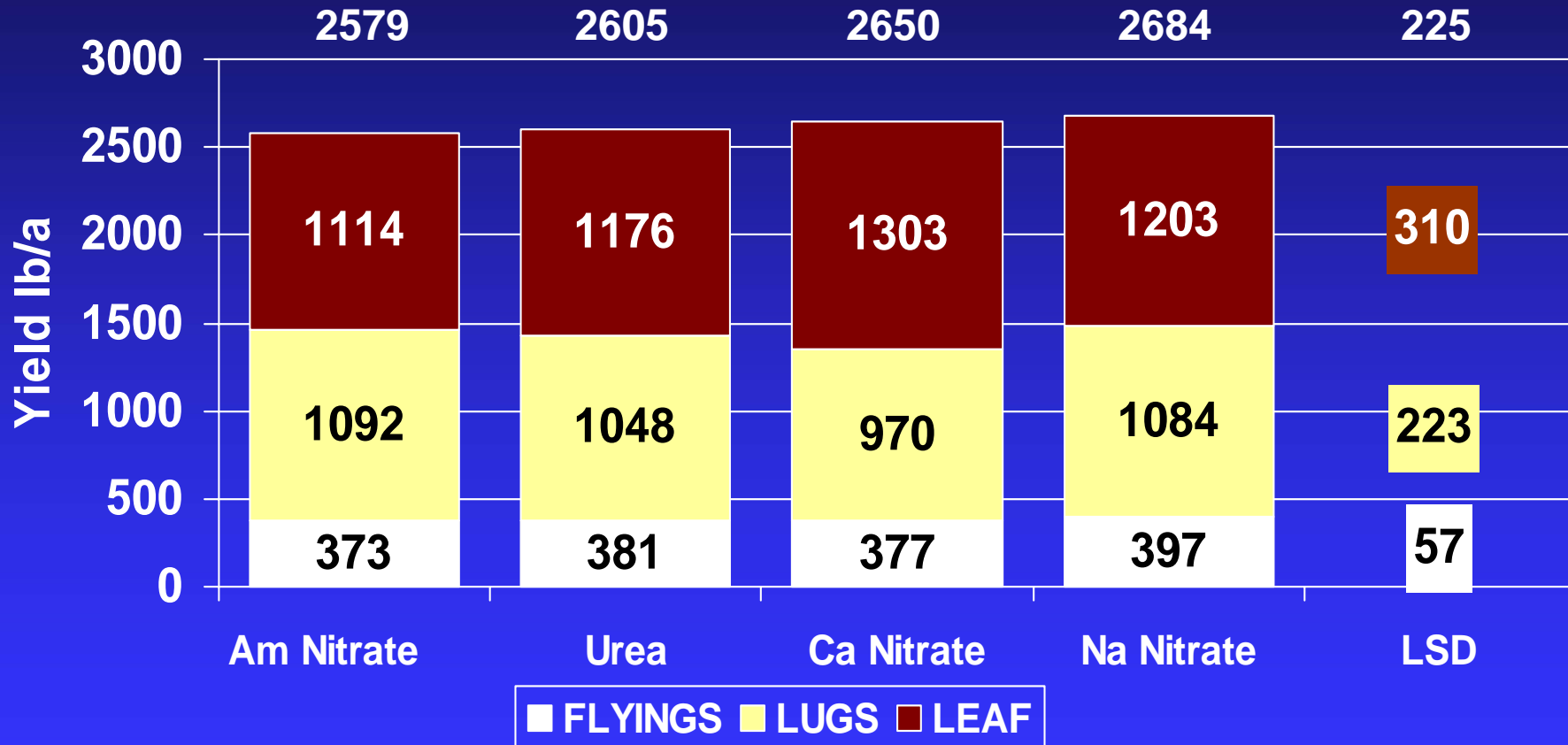
Jackson Co. – Mike Huff Farm



450 Ammonium Nitrate Broadcast followed by 100 lb/a of Nitrogen Sidedressed.
Am = Ammonium, Ca = Calcium & Na = Sodium. There were no significant differences.

Effect of Nitrogen Source on Burley Yield

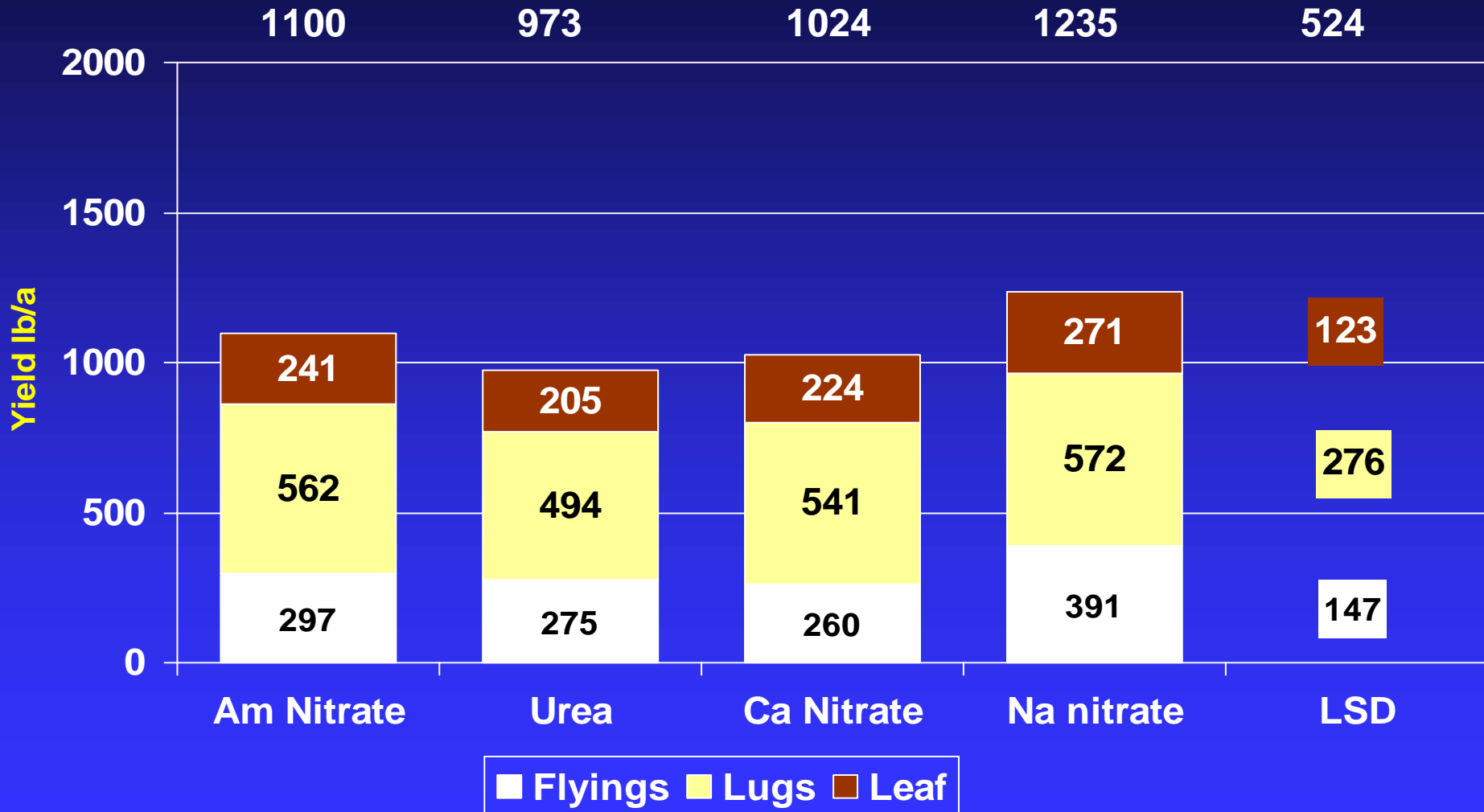
Marshall Co. – Glen Thompson Farm



150 units Urea Broadcast Sidedressed with 100 units each at sidedressing,
Ca = Calcium and Na = Sodium

Nitrogen Source Study

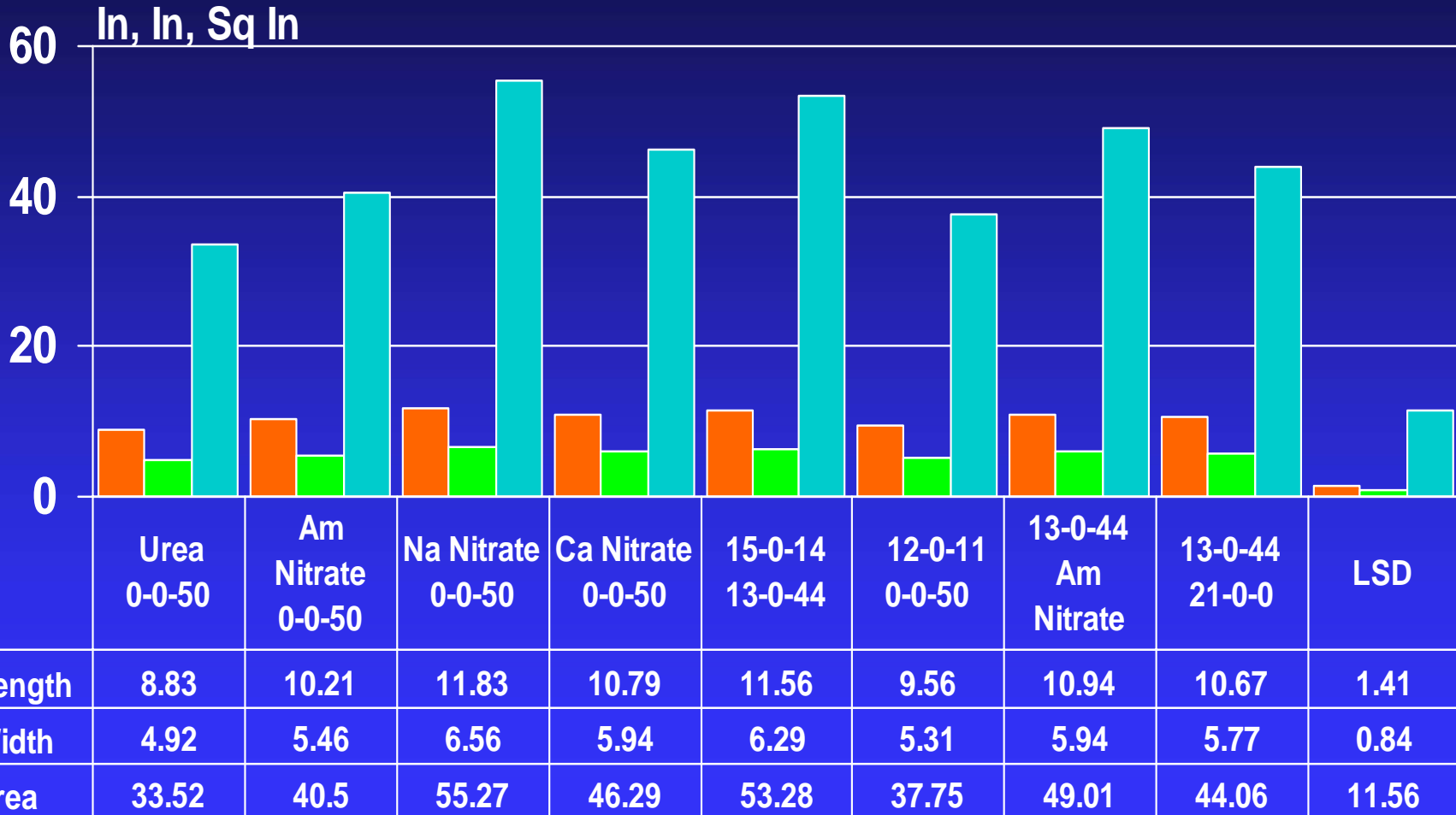
McCreary Co. – Darrell Taylor Farm



150 units Urea Broadcast Sidedressed with 100 units each at sidedressing,
Ca = Calcium and Na = Sodium

Effect of Nitrogen & Potassium Source on Burley Leaf Size at Lay by

Bath Co. – Mike Ginter Farm

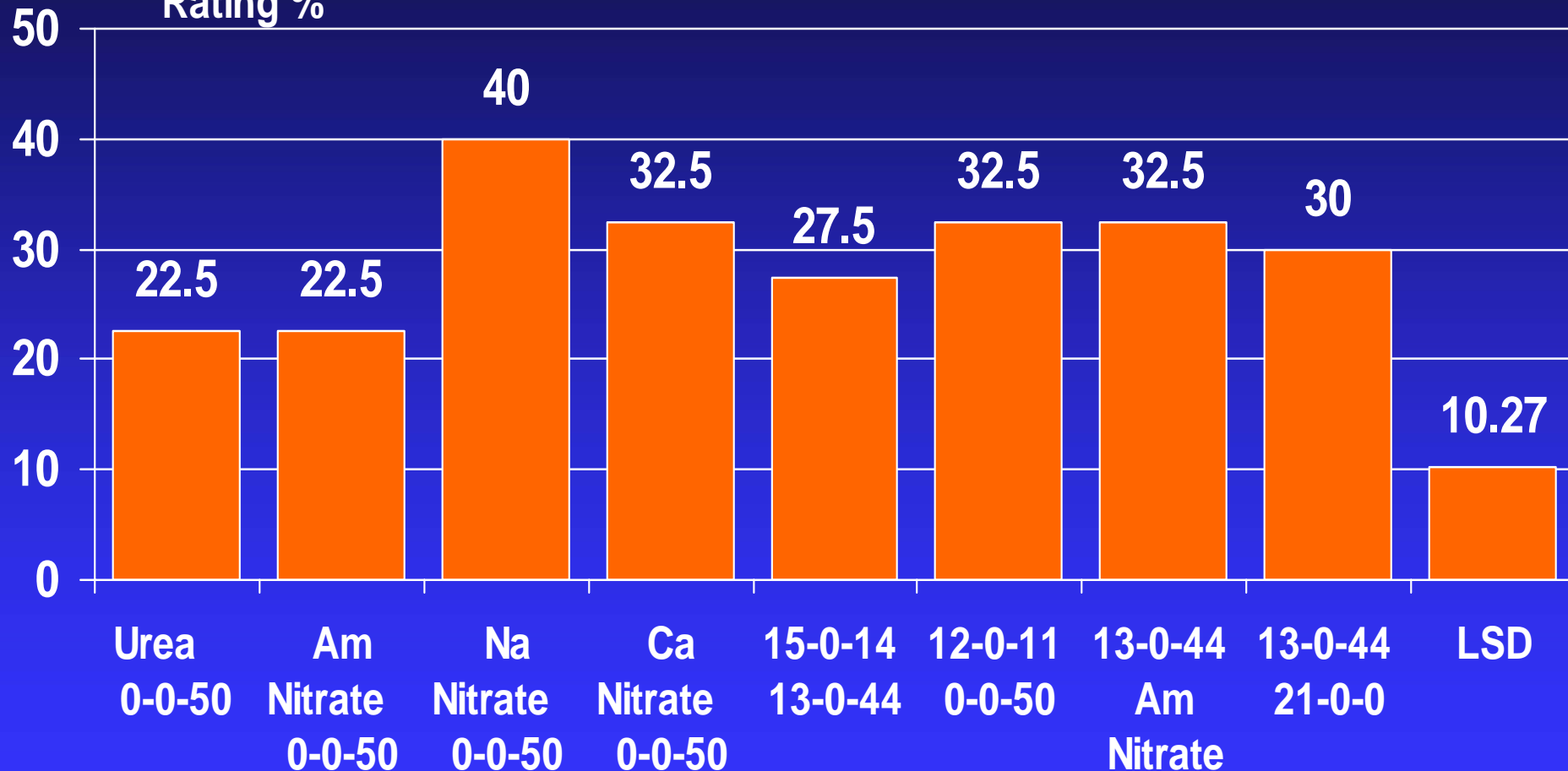


Fertilizers were balanced to provide 250 units of N and 230 of K2O

Effect of Nitrogen & Potassium Source on Burley Vigor

Bath Co. – Mike Ginter Farm

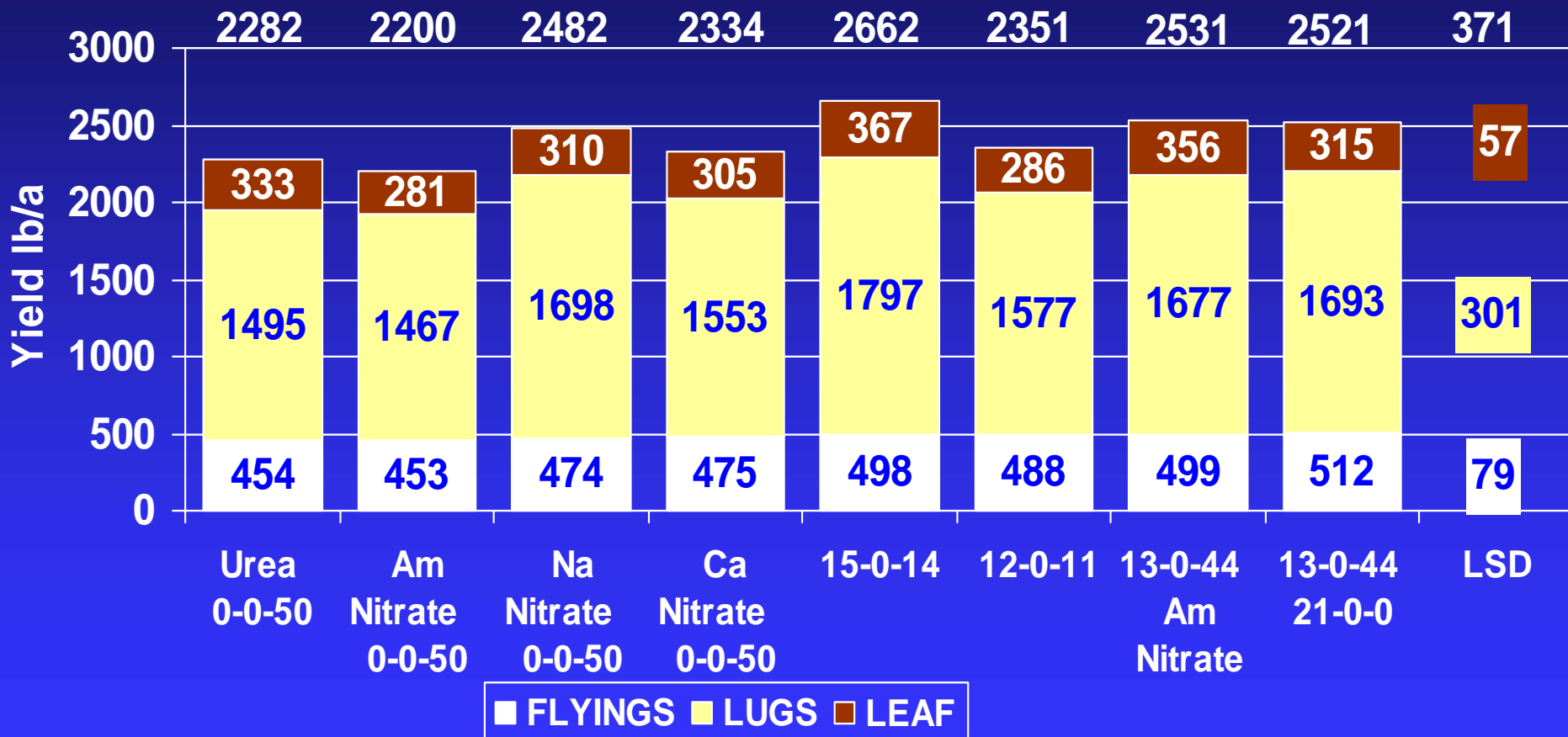
Rating %



Fertilizers were balanced to provide 250 units of N and 230 of K₂O

Effect of Nitrogen & Potassium Source on Burley Yield

Bath Co. – Mike Ginter Farm

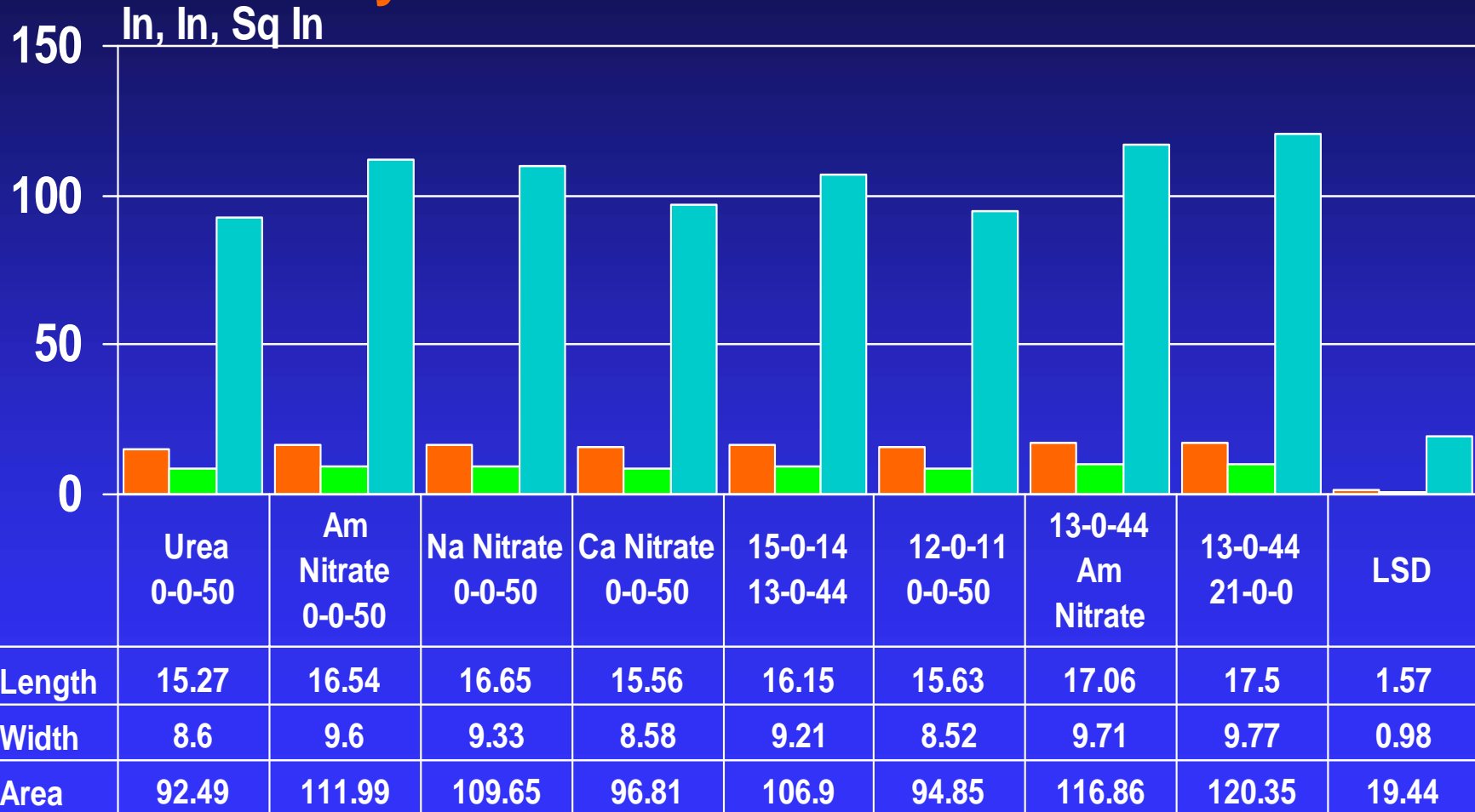


Am = Ammonium Nitrate, Na=Sodium, Ca = Calcium

Fertilizers were balanced to provide 250 units of N preplant and 230 of K2O

Effect of Nitrogen & Potassium Source on Burley Leaf Size at Layby

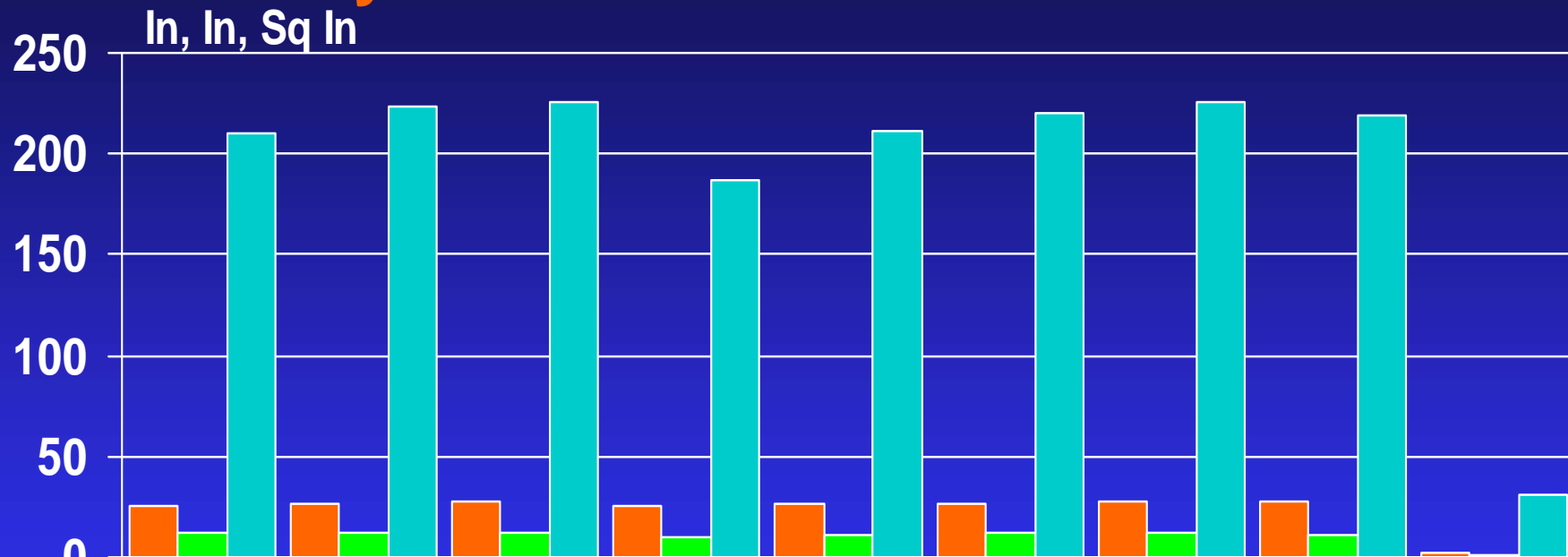
Fayette Co. – Todd Clark Farm



Fertilizers were balanced to provide 250 units of N and 150 of K2O

Effect of Nitrogen & Potassium Source on Burley Leaf Size at Midseason

Fayette Co. – Todd Clark Farm

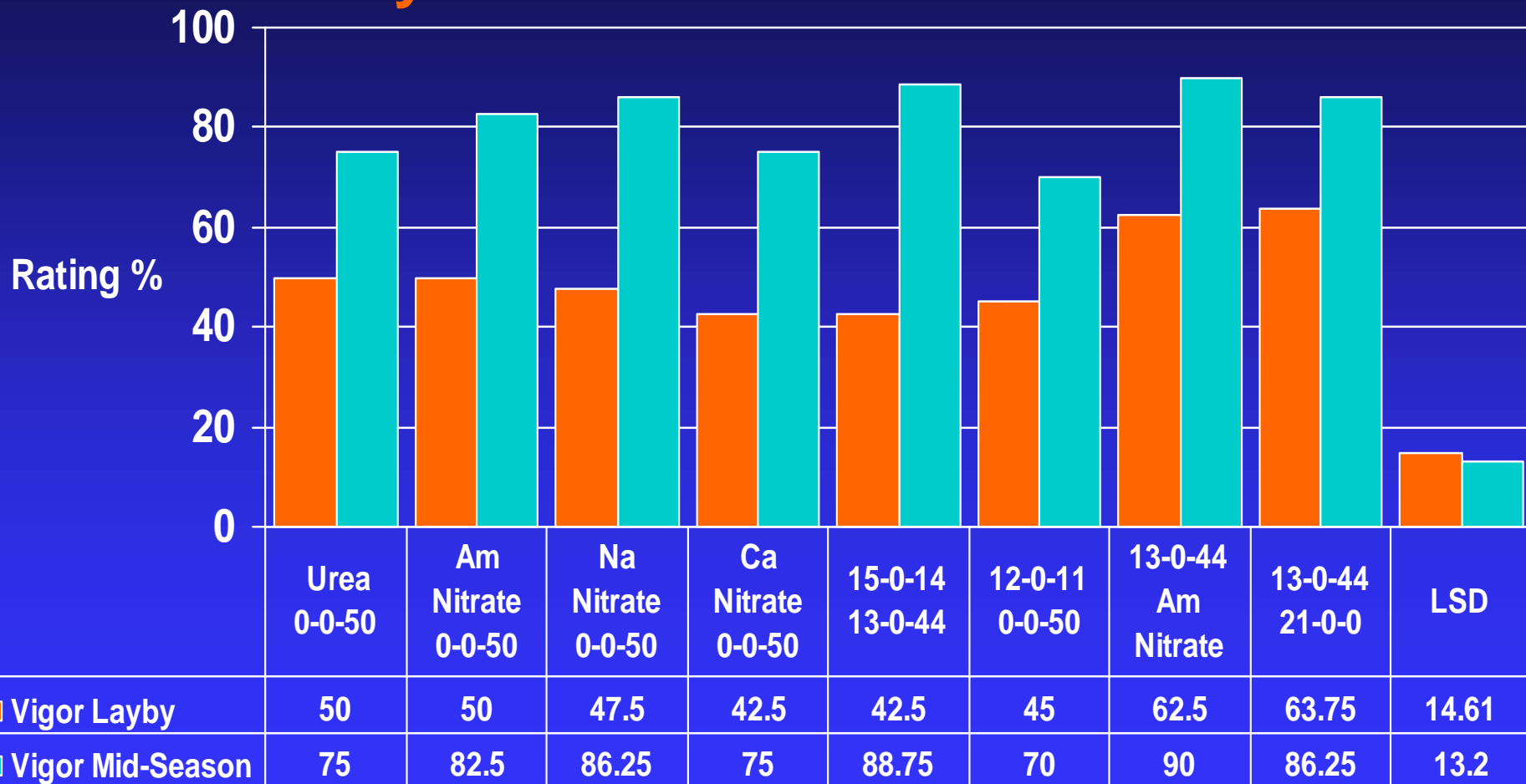


	Urea 0-0-50	Am Nitrate 0-0-50	Na Nitrate 0-0-50	Ca Nitrate 0-0-50	15-0-14 13-0-44	12-0-11 0-0-50	13-0-44 Am Nitrate	13-0-44 21-0-0	LSD
Leaf Length	25.58	26.42	27.33	25.06	26.08	26.63	27.38	27.33	1.74
Leaf Width	11.71	12.08	11.73	10.50	11.48	11.73	11.77	11.38	1.15
Leaf Area	210.52	223.77	225.19	186.56	211.18	219.60	226.04	219.51	30.8

Fertilizers were balanced to provide 250 units of N and 150 of K₂O

Effect of Nitrogen & Potassium Source on Burley Vigor

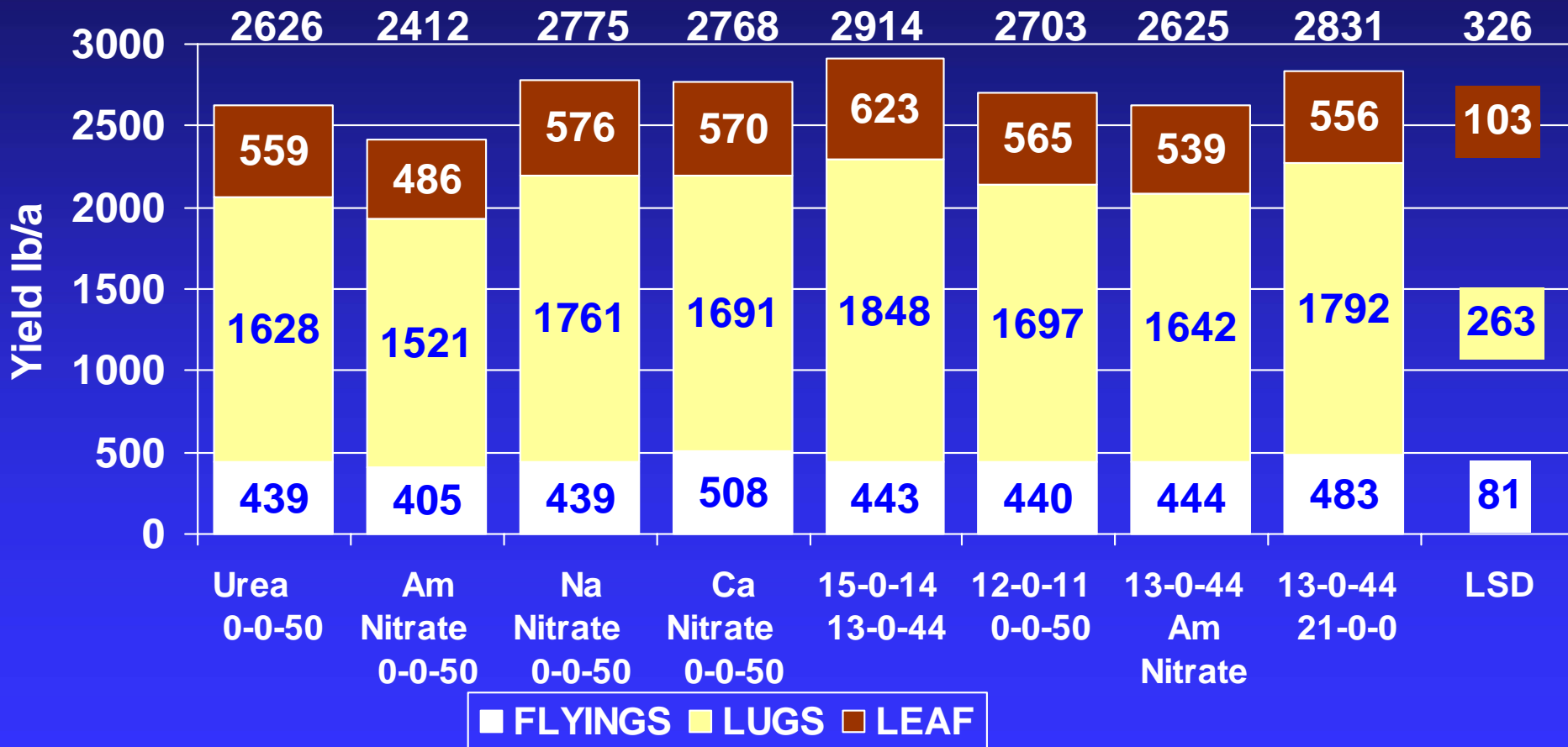
Fayette Co. – Todd Clark Farm



Fertilizers were balanced to provide 250 units of N and 230 of K₂O

Effect of Nitrogen & Potassium Source on Burley Yield

Fayette Co. – Todd Clark Farm

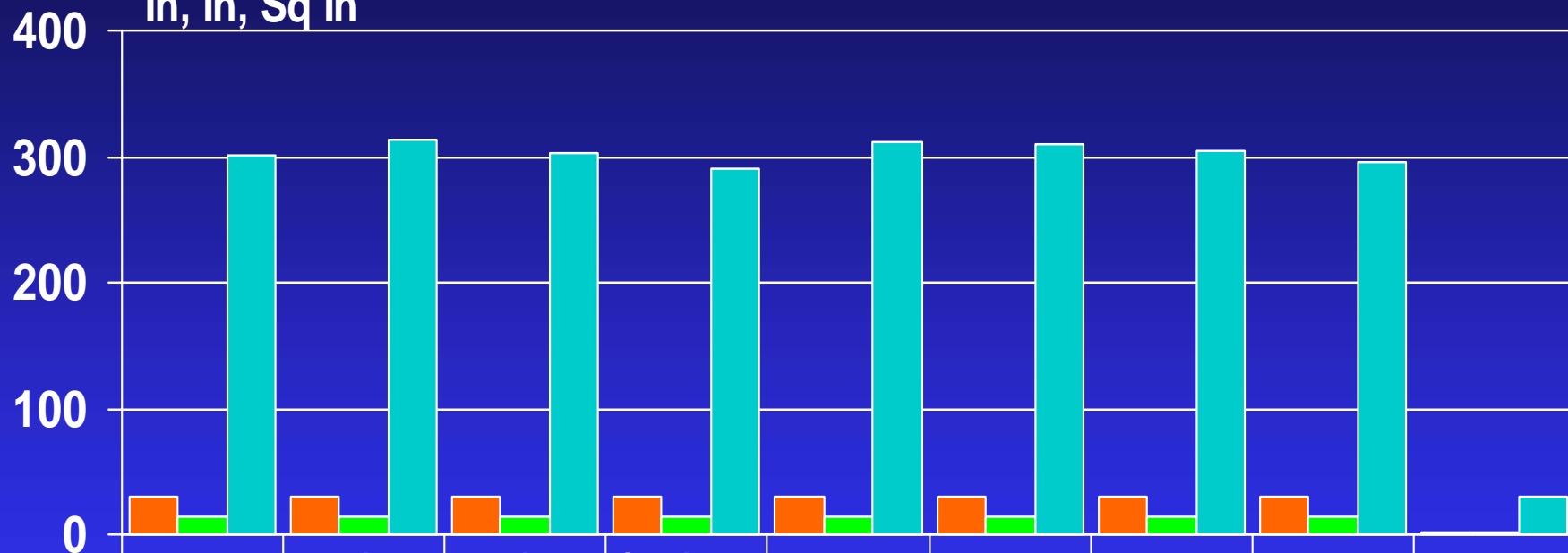


Fertilizers were balanced to provide 250 units of N and 150 of K2O

Effect of Nitrogen & Potassium Source on Burley Leaf Size at Midseason

Wayne Co. – Ray Lewis Coffey Farm

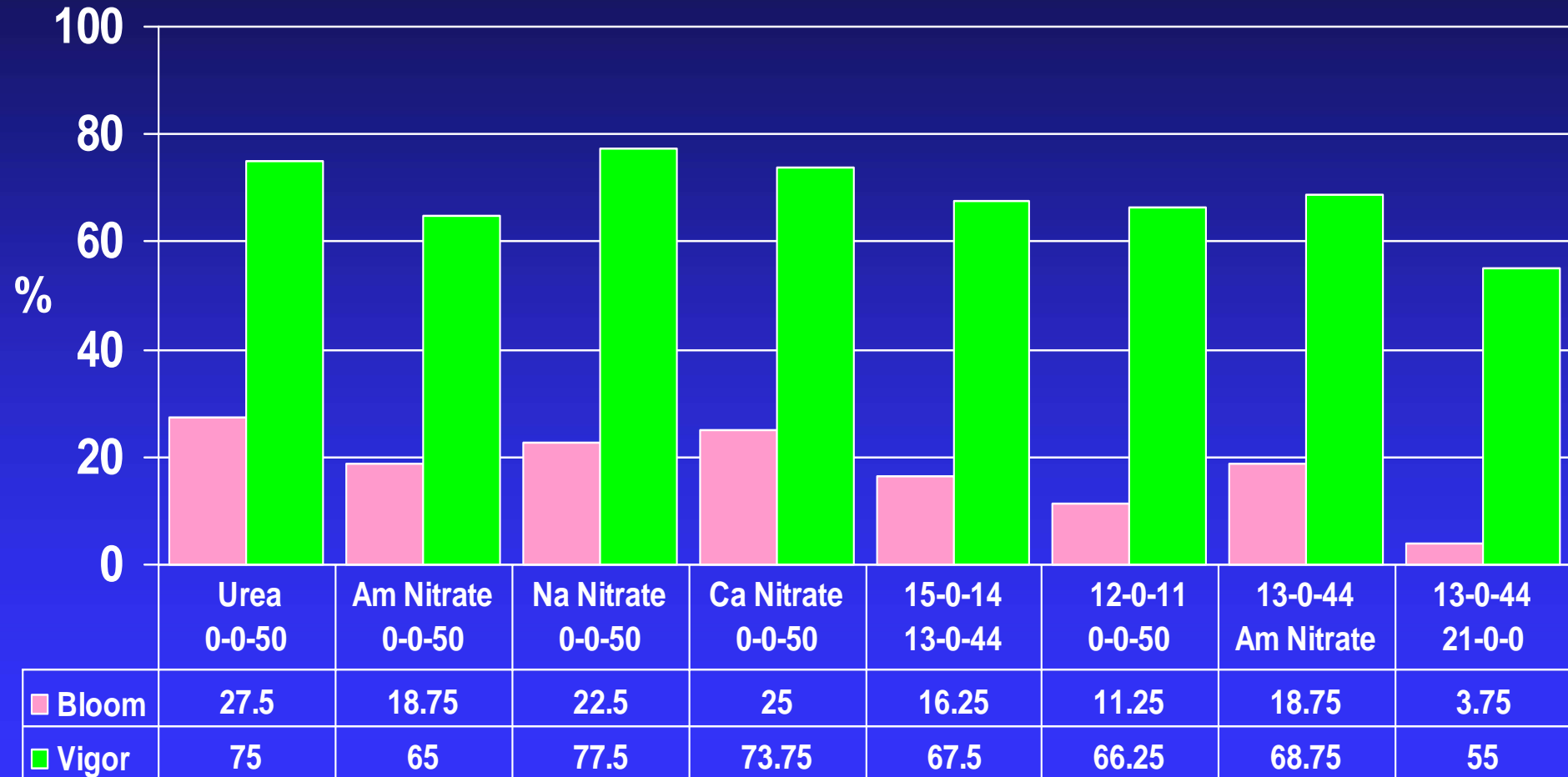
In, In, Sq In



Fertilizers were balanced to provide 250 units of N and 360 of K2O
There were no significant difference.

Effect of Nitrogen & Potassium Source on Burley Bloom & Vigor

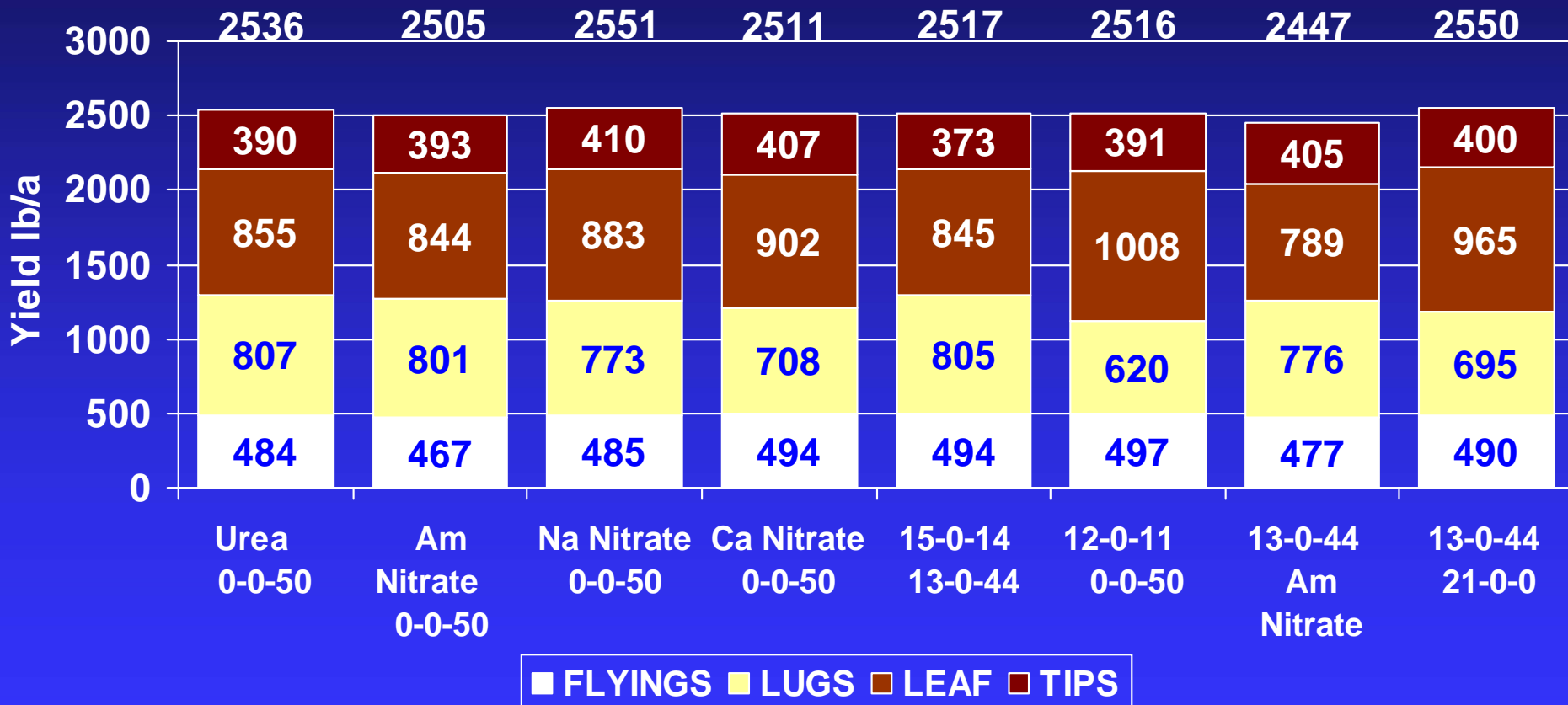
Wayne Co. – Ray Lewis Coffey Farm



Fertilizers were balanced to provide 250 units of N and 360 of K₂O

Effect of Nitrogen & Potassium Source on Burley Yield

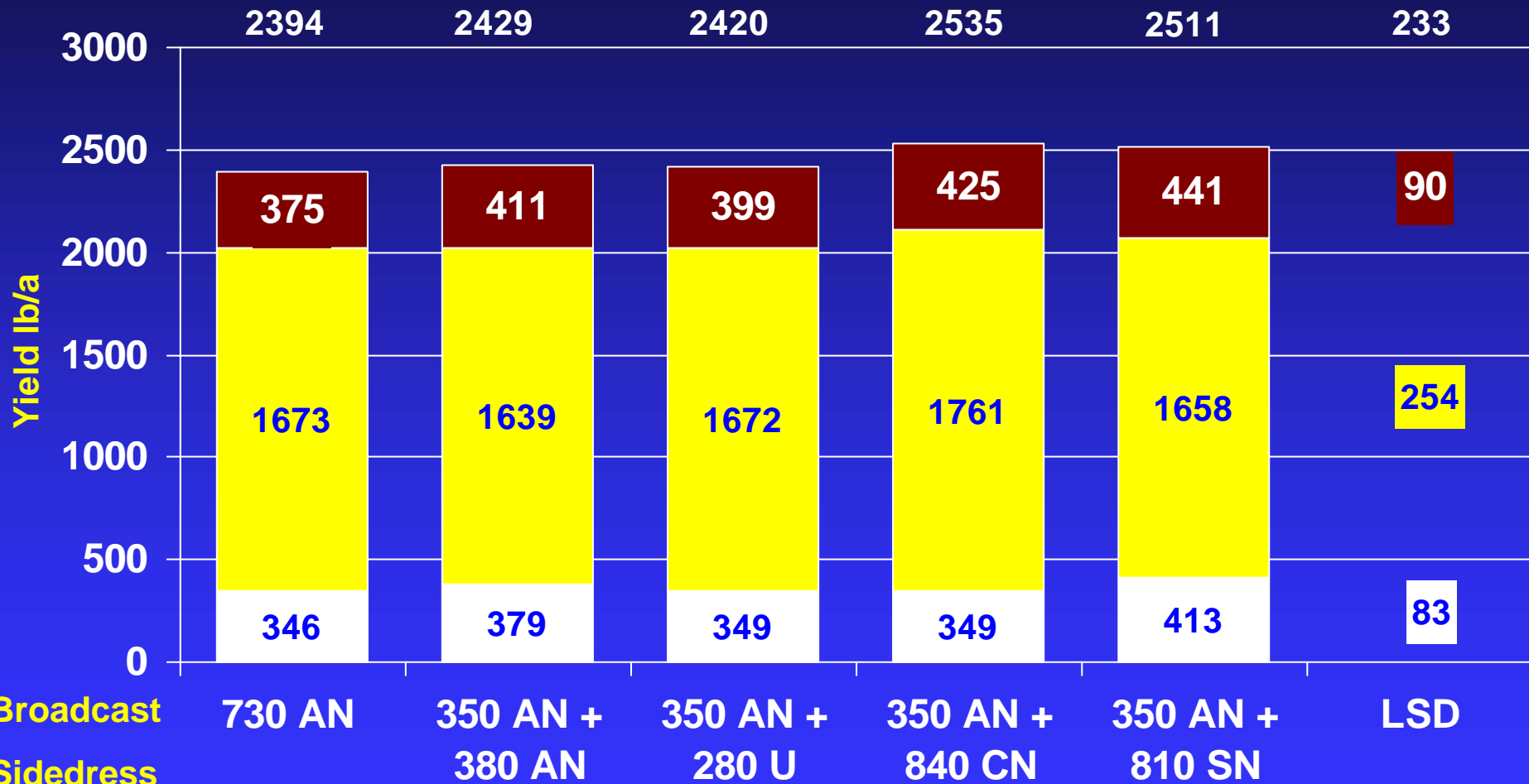
Wayne Co. – Ray Lewis Coffey Farm



Fertilizers were balanced to provide 250 units of N and 360 of K2O
 There were no significant differences in total yield or at any stalk position

No-till Fertility Trial

Boyle Co. – Bruce & John Helm Farm

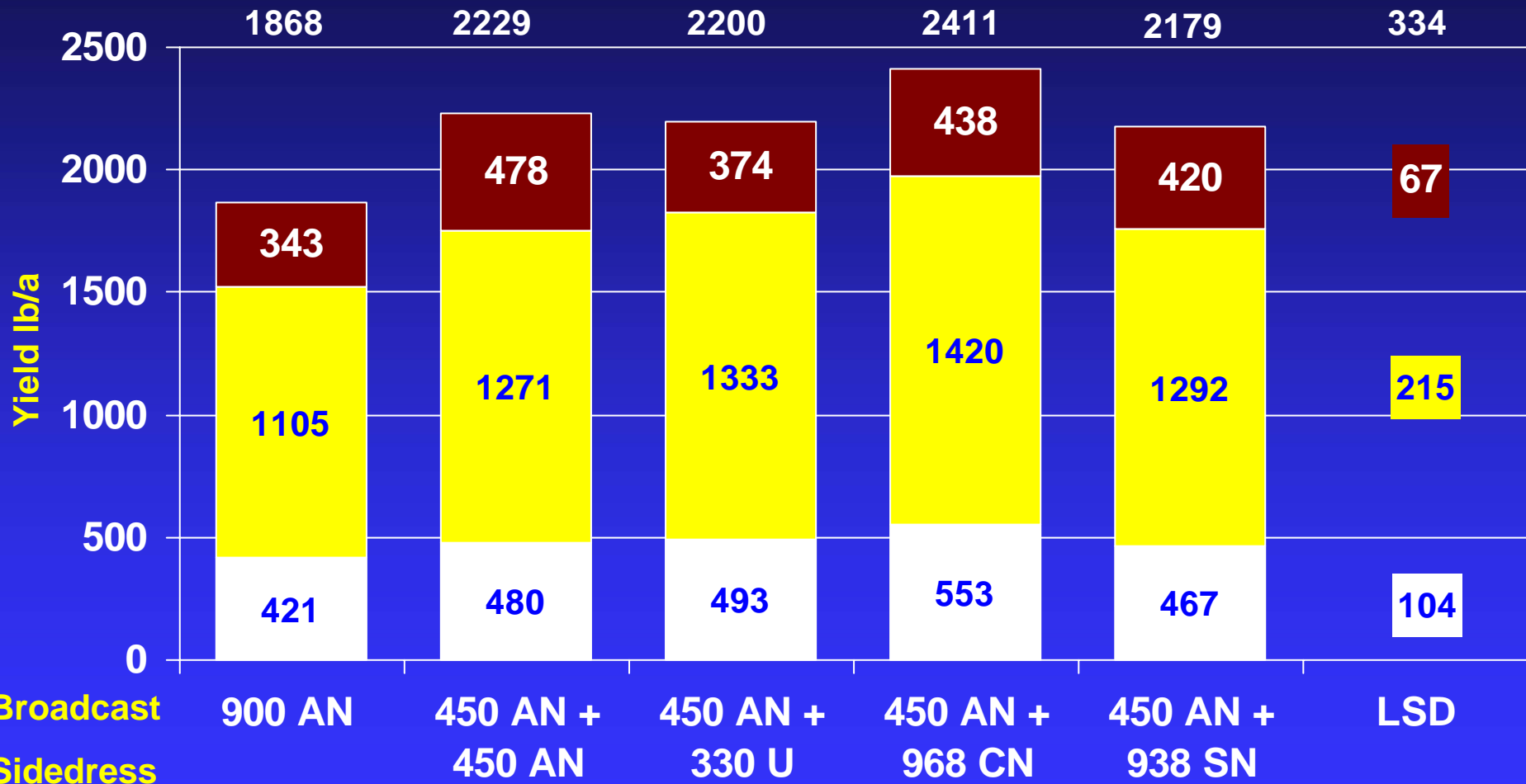


Flyings
 Lugs
 Leaf

Number = lbs of product, AN = Ammonium Nitrate, CN = Calcium Nitrate, U= Urea SN = Sodium Nitrate

No-till Fertility Trial

Bracken Co. – Joseph Ulrich Farm

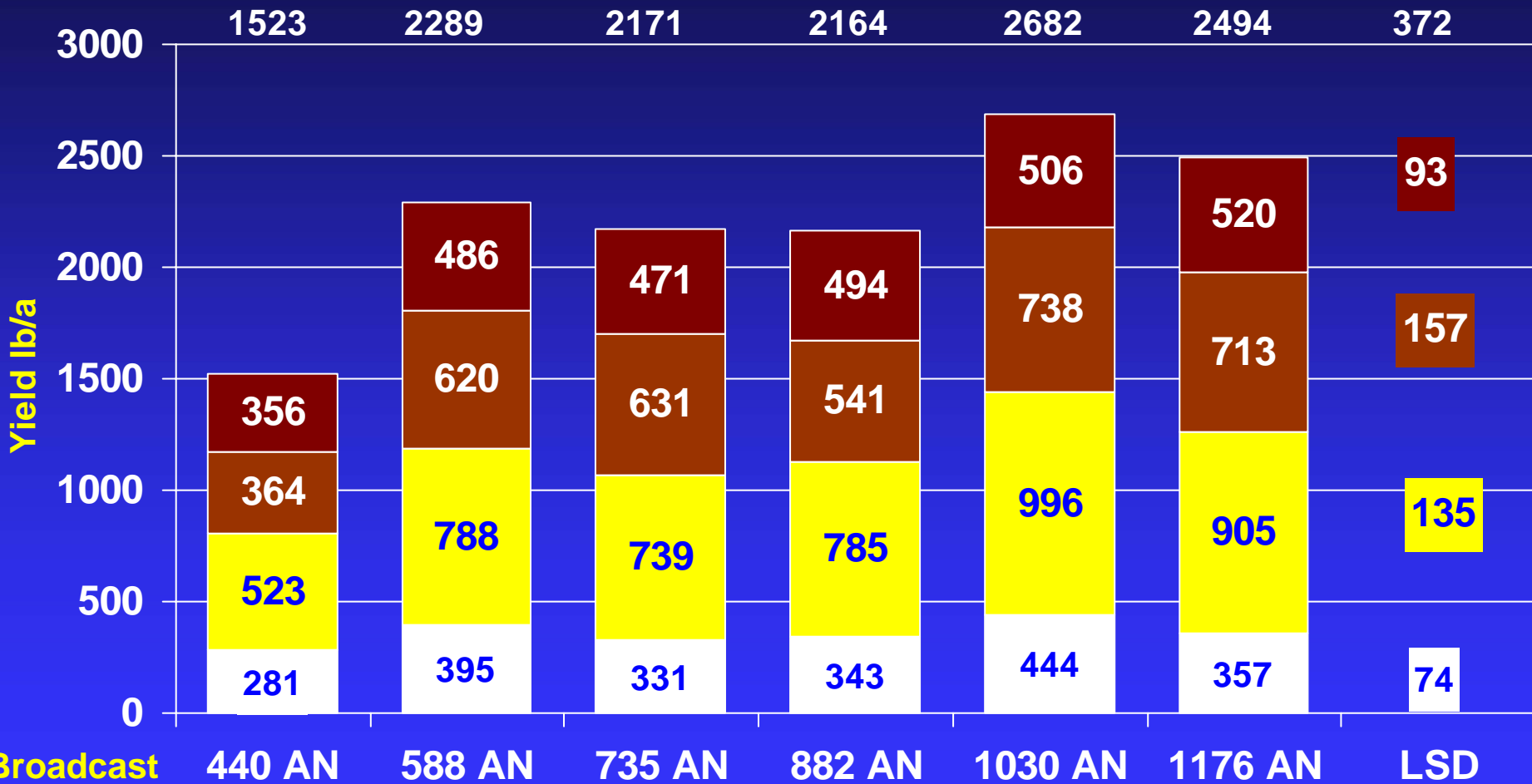


Flyings
 Lugs
 Leaf

Number = lbs of product, AN = Ammonium Nitrate, CN = Calcium Nitrate, U= Urea SN = Sodium Nitrate

No-till Fertility Trial

Casey Co. – Robert Hampton Farm

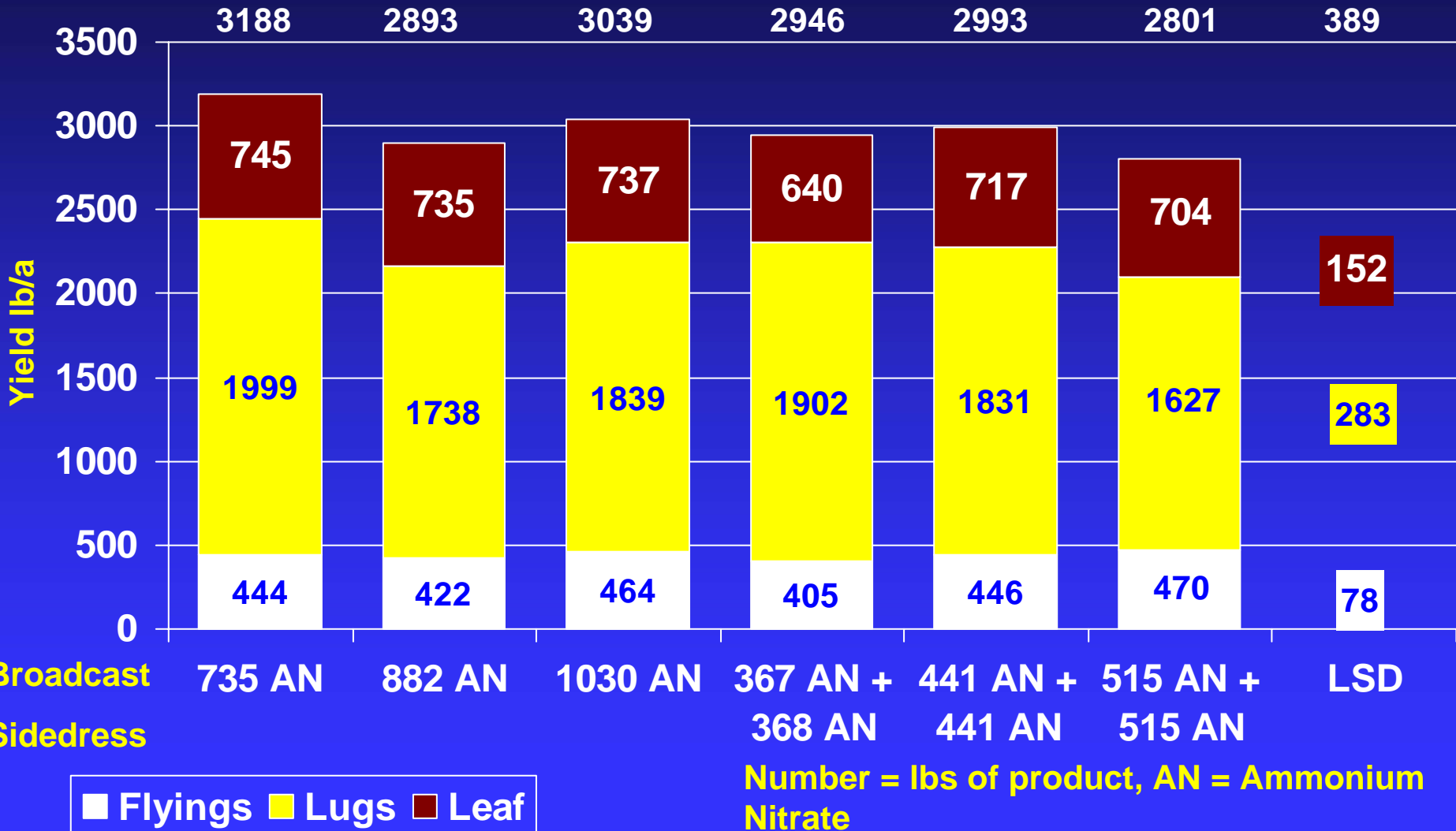


Flyings
 Lugs
 Leaf
 Tips

Lbs. Ammonium Nitrate applied preplant
 P and K applied according to soil test
 Previous Crop: Tobacco

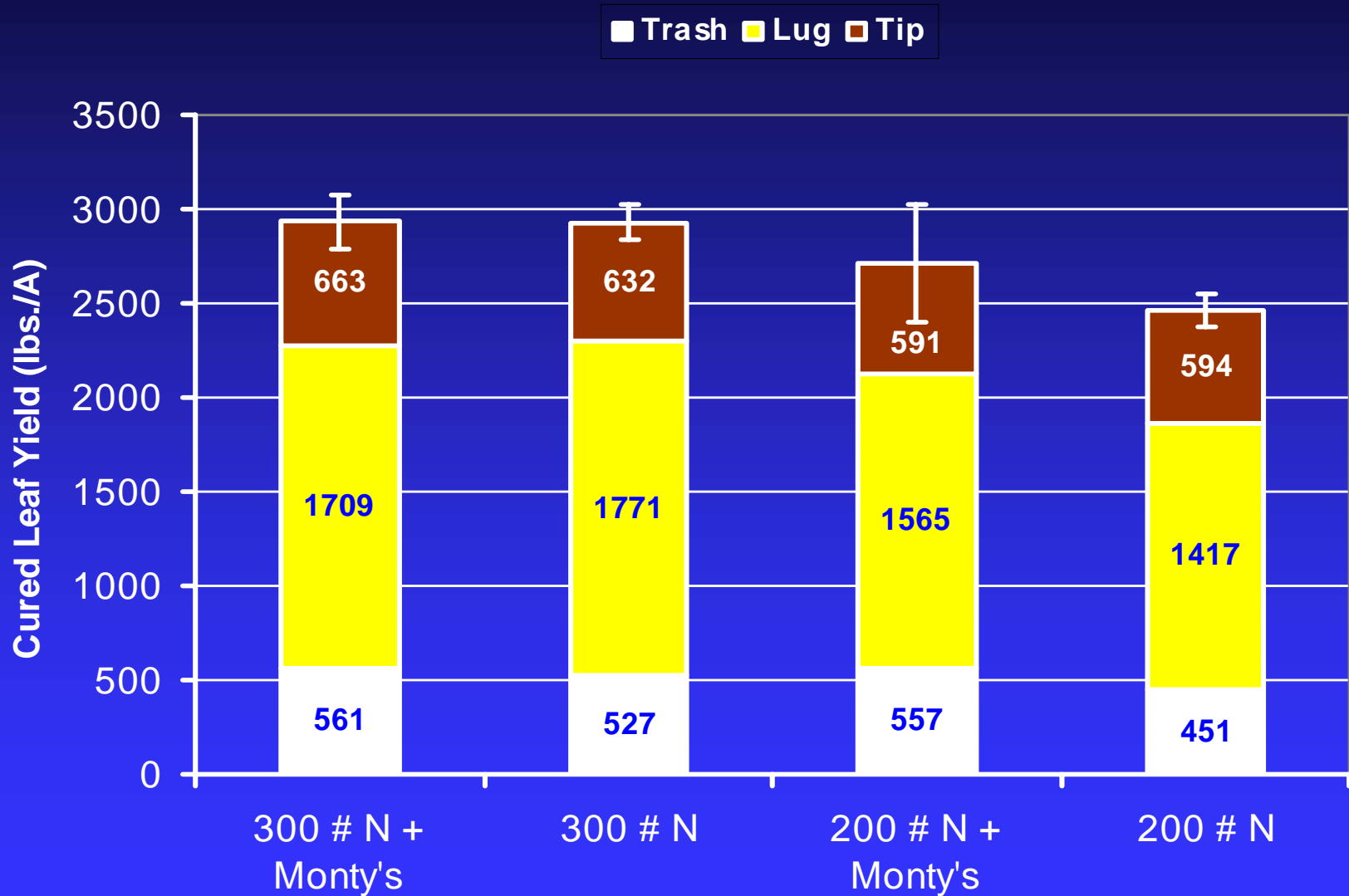
No-till Fertility Trial

Fayette Co. – Bob James Farm



No-till Fertility Study

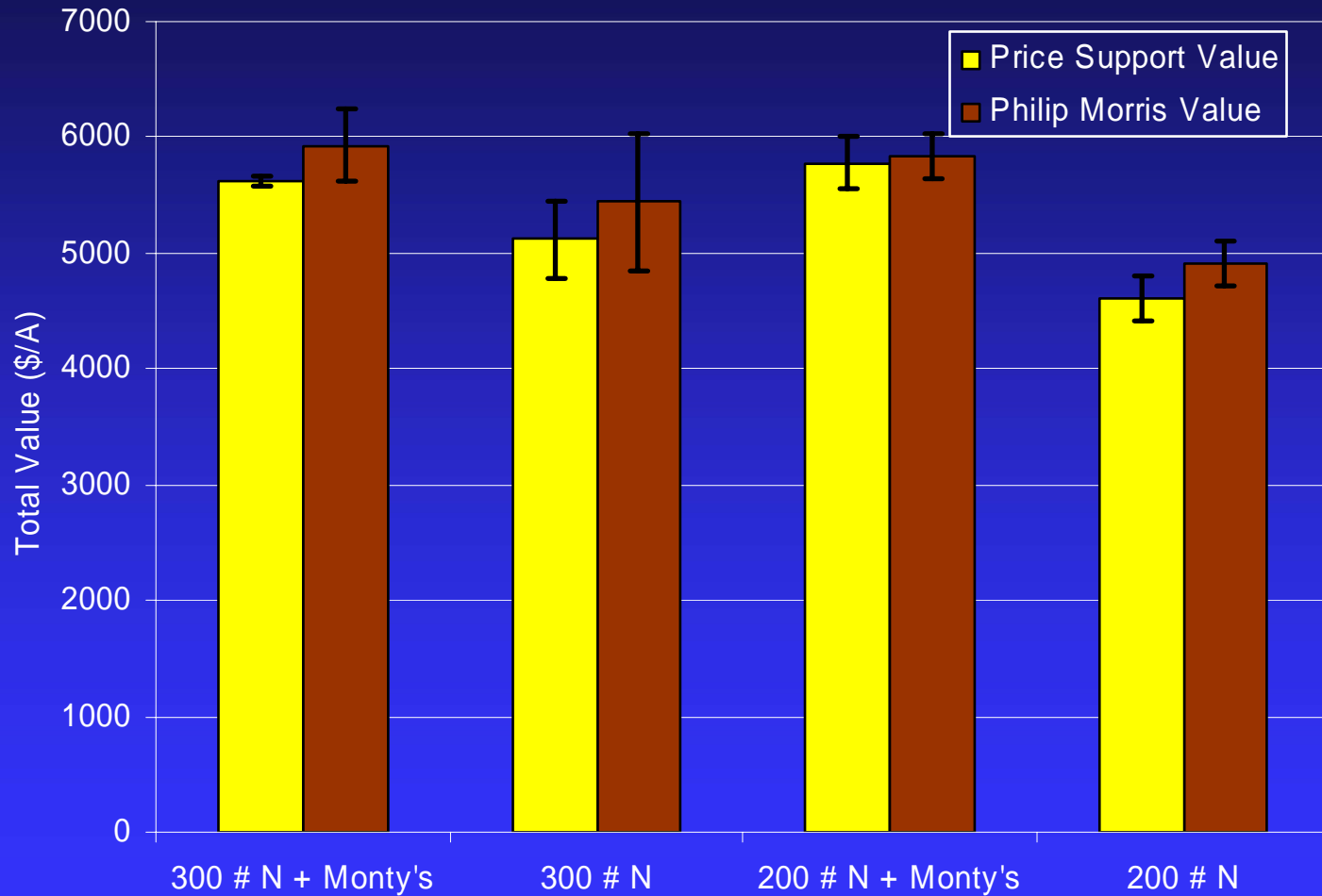
Hardin County -- Thomas Academy Farm



Error bars are standard deviation of the mean of total yield

No-till Fertility Study

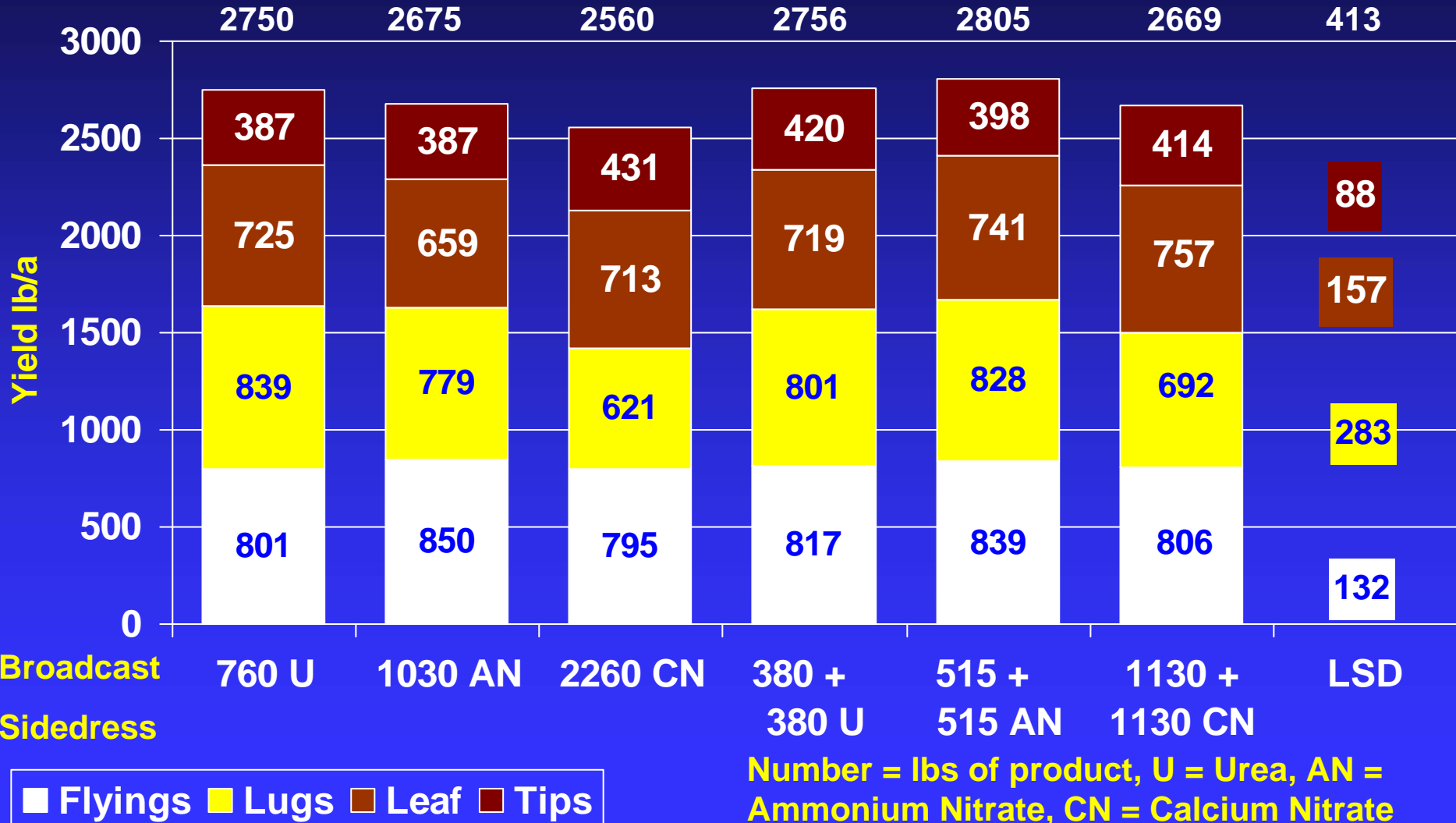
Hardin County -- Thomas Academy Farm



Error bars are standard deviation of the mean of total yield

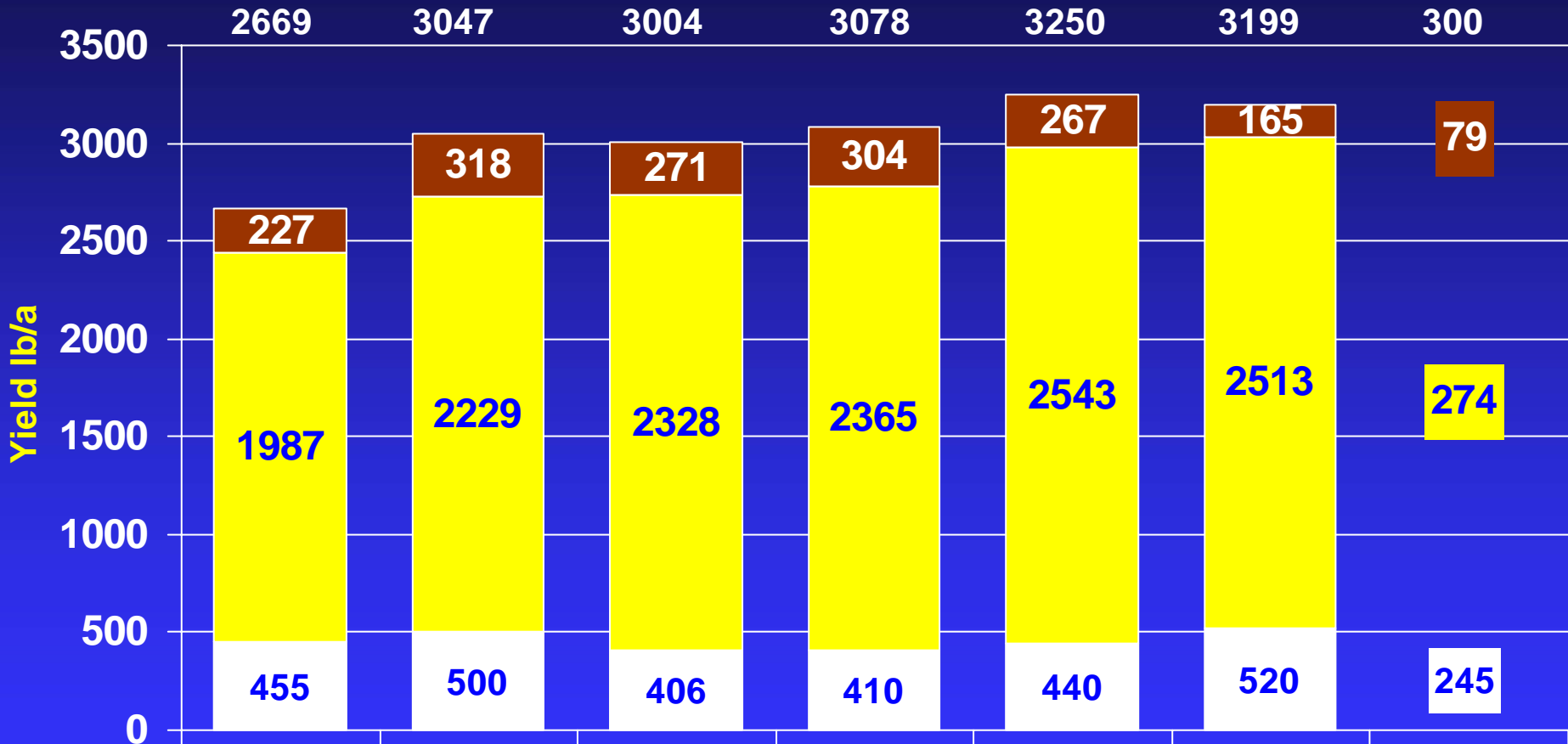
Fertility Trial

Hopkins Co. – Chester and Wanda Duncan Farm



No-till Fertility Trial

Meade Co. – William Biddle Farm



Broadcast

440 AN

588 AN

735 AN

882 AN

1030 AN

1176 AN

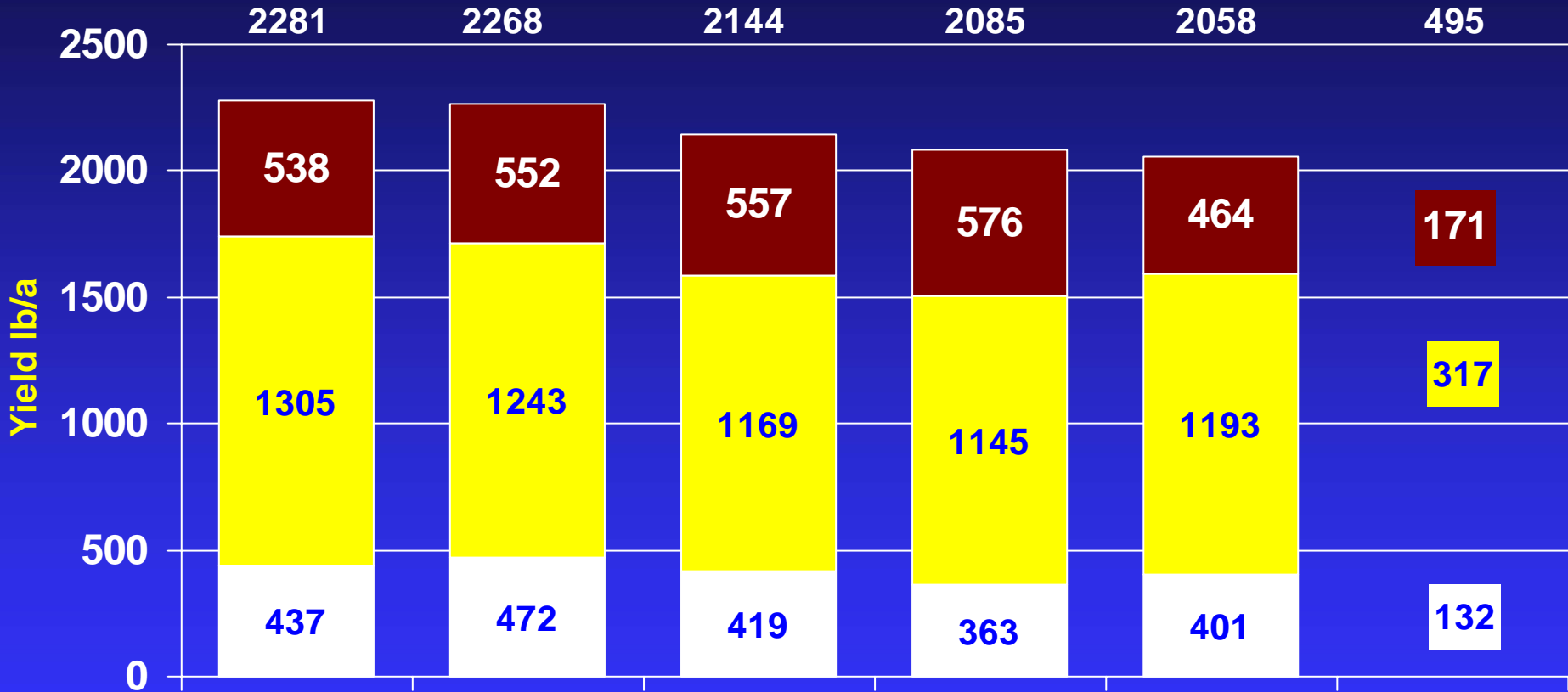
LSD

Flyings
 Lugs
 Leaf

Lbs. Ammonium Nitrate applied preplant
 P and K applied according to soil test
 Previous Crop: Soybean

No-till Fertility Trial

Mercer Co. – Bruce Wade Farm



Broadcast
Sidedress

160 AN + 1333 SP 160 AN + 588 AN 160 AN + 435 U 160 AN + 1290 CN 160 AN + 1250 SN LSD

■ Flyings ■ Lugs ■ Leaf

Number = lbs of product, SP = Soda Potash, AN = Ammonium Nitrate, CN = Calcium Nitrate, SN = sodium Nitrate U= Urea

Fertility Trial

Rowan Co. – Rocky and Ott Stacy Farm

