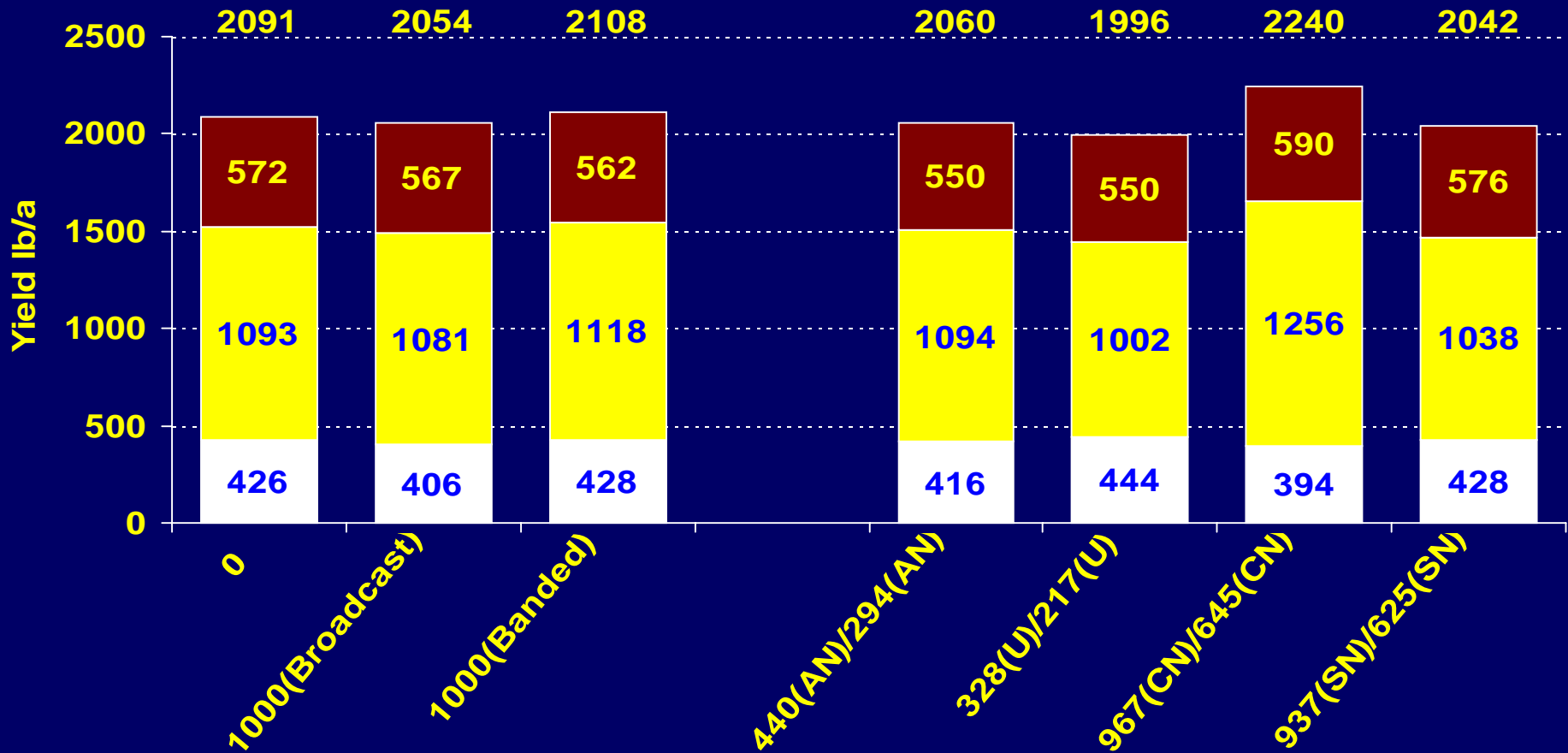


Fertility Trials

Fertility trials exhibited a high amount of variability in 2000. A test in Bath County to evaluate the effects of calcium showed no response to additional calcium. Use of Urea as a nitrogen source did not perform as well as nitrate source. The test in Owsley Co. performed similar to test in other years.

Effects of Fertility on Burley Tobacco

Bath Co. - Danny Shields Farm



HSD 0.05 = 79 69 85 183

HSD 0.05 = 108 223 79 267

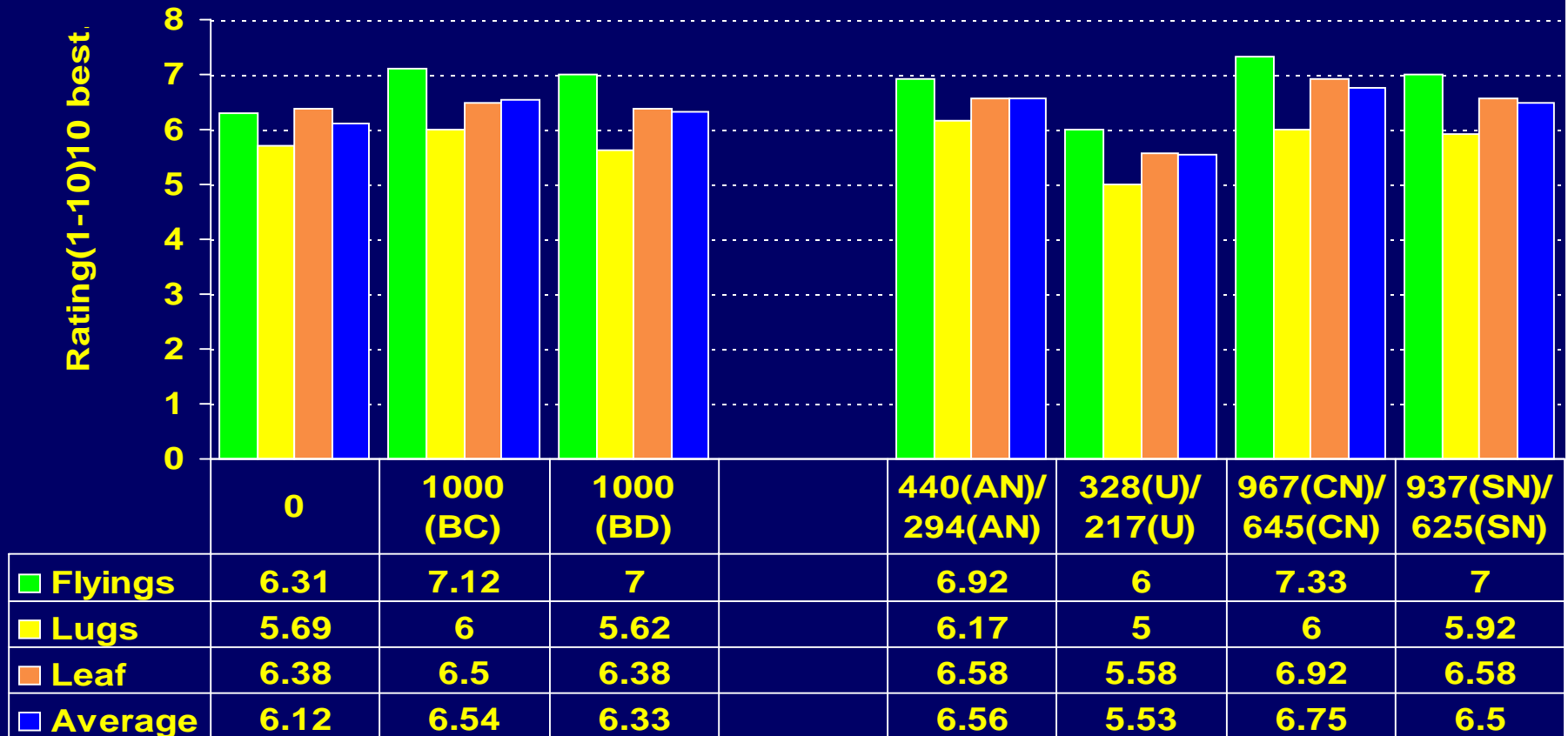
Calcium = Calcium Sulfate, #()/#()=broadcast/sidedress lb/a where

AN=Ammonium Nitrate, U=Urea, CN=Calcium Nitrate, SN=Sodium Nitrate

Effects of Fertility on Burley Tobacco

Quality Rating - Company #1

Bath Co. - Danny Shields Farm



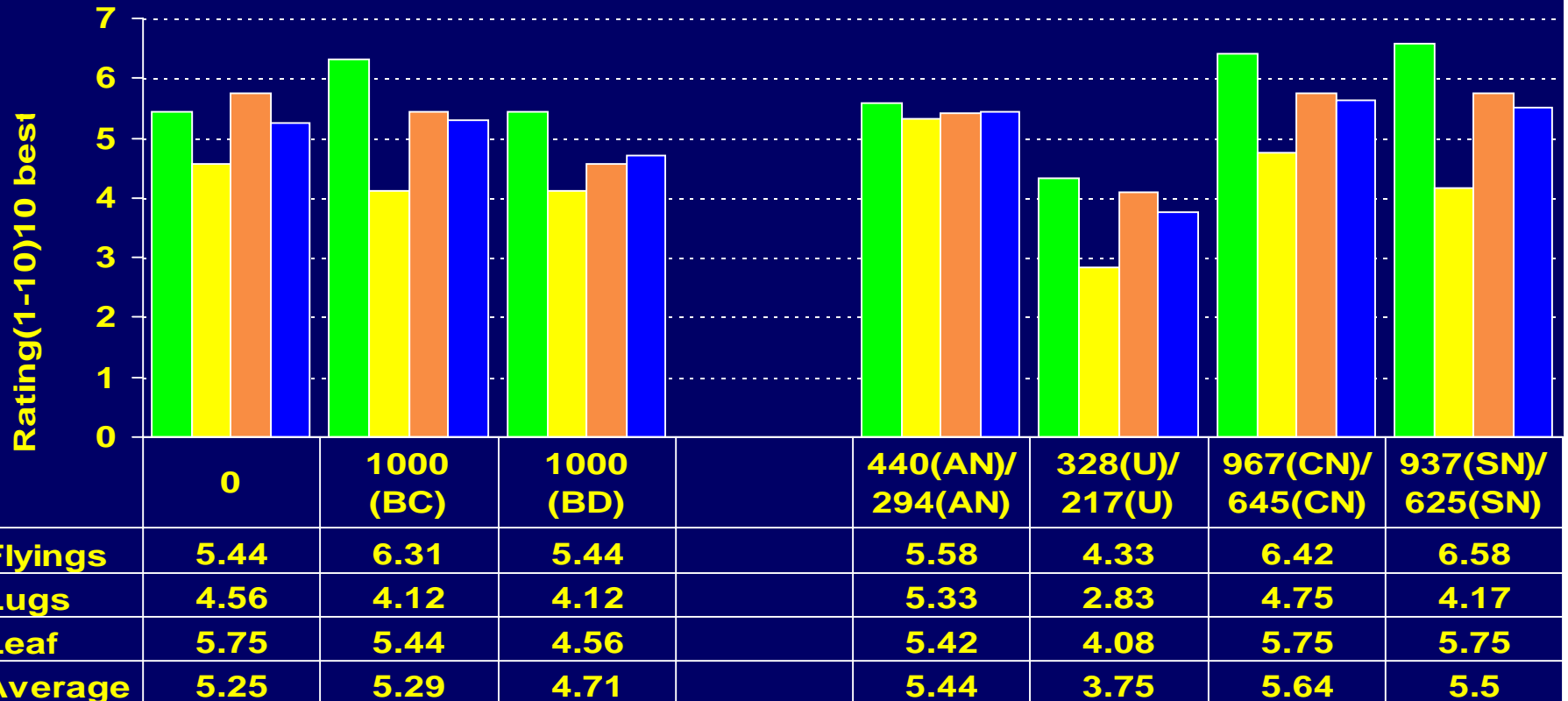
HSD 0.05 = 1.49 1.34 2.21 1.36

HSD 0.05 = 1.53 1.55 1.39 1.18

BC=Broadcast, BD=Banded, Calcium = Calcium Sulfate, #()/#()= broadcast/ sidedress lb/a where AN=Ammonium Nitrate, U=Urea, CN=Calcium Nitrate, SN=Sodium Nitrate

Effects of Fertility on Burley Tobacco Usability - Company #1

Bath Co. - Danny Shields Farm



HSD 0.05 = 2.82 2.7 3.98 2.56

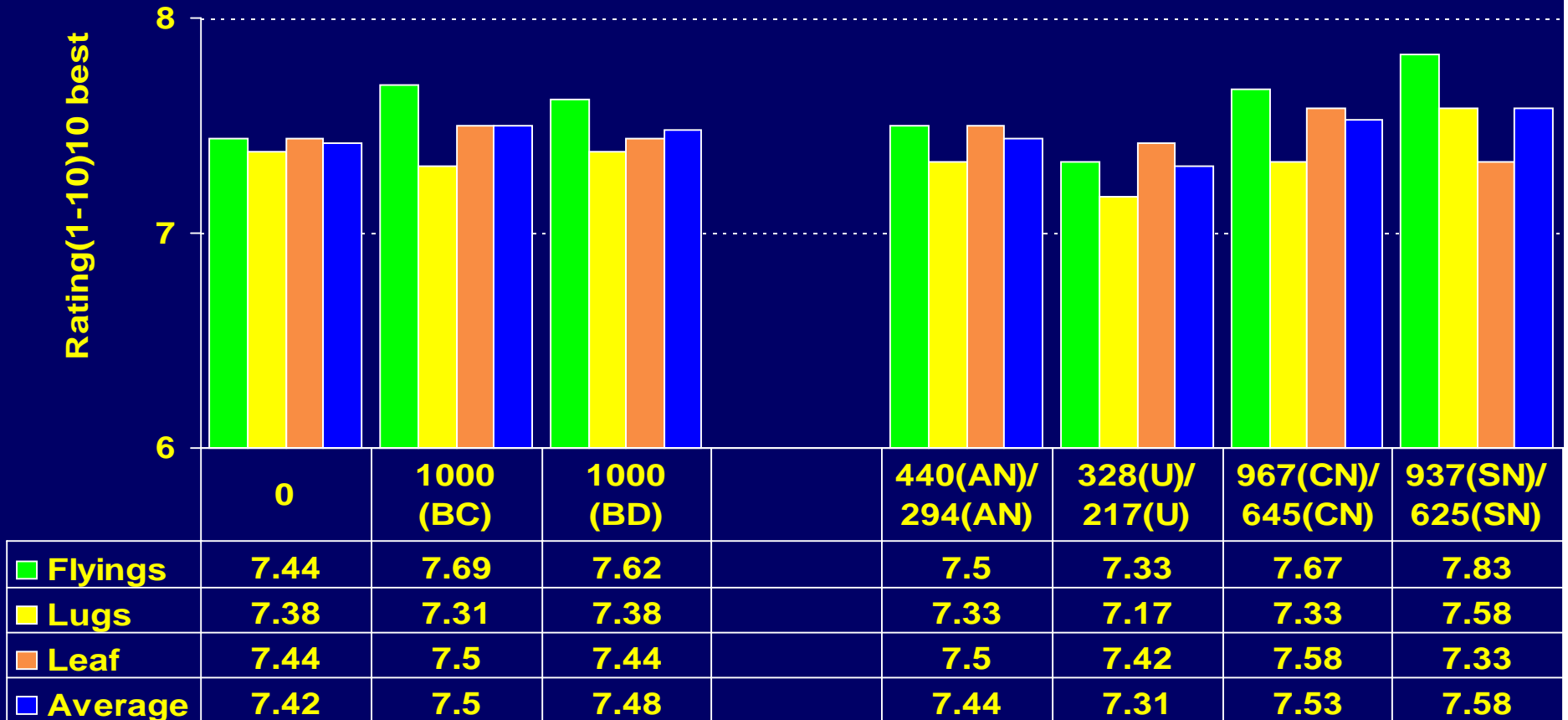
HSD 0.05 = 3.10 2.39 2.01 1.86

BC=Broadcast, BD=Banded, Calcium = Calcium Sulfate, #()/#()= broadcast/ sidedress lb/a where AN=Ammonium Nitrate, U=Urea, CN=Calcium Nitrate, SN=Sodium Nitrate

Effects of Fertility on Burley Tobacco

Quality Rating - Company #2

Bath Co. - Danny Shields Farm



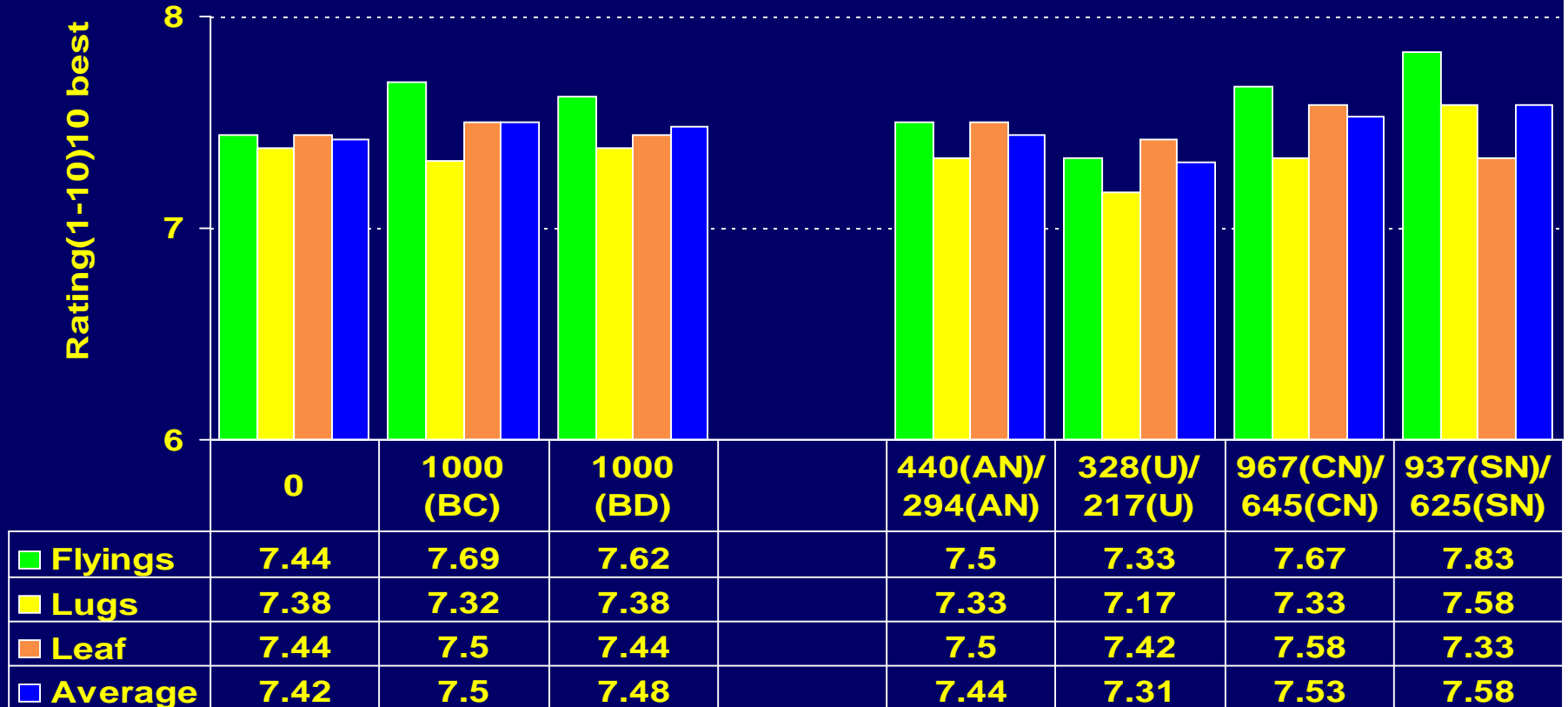
HSD 0.05 = 0.5 0.43 .76 .47

HSD 0.05 = 0.64 0.59 0.65 0.42

BC=Broadcast, BD=Banded, Calcium = Calcium Sulfate, #()/#()= broadcast/ sidedress lb/a where AN=Ammonium Nitrate, U=Urea, CN=Calcium Nitrate, SN=Sodium Nitrate

Effects of Fertility on Burley Tobacco Usability - Company #2

Bath Co. - Danny Shields Farm



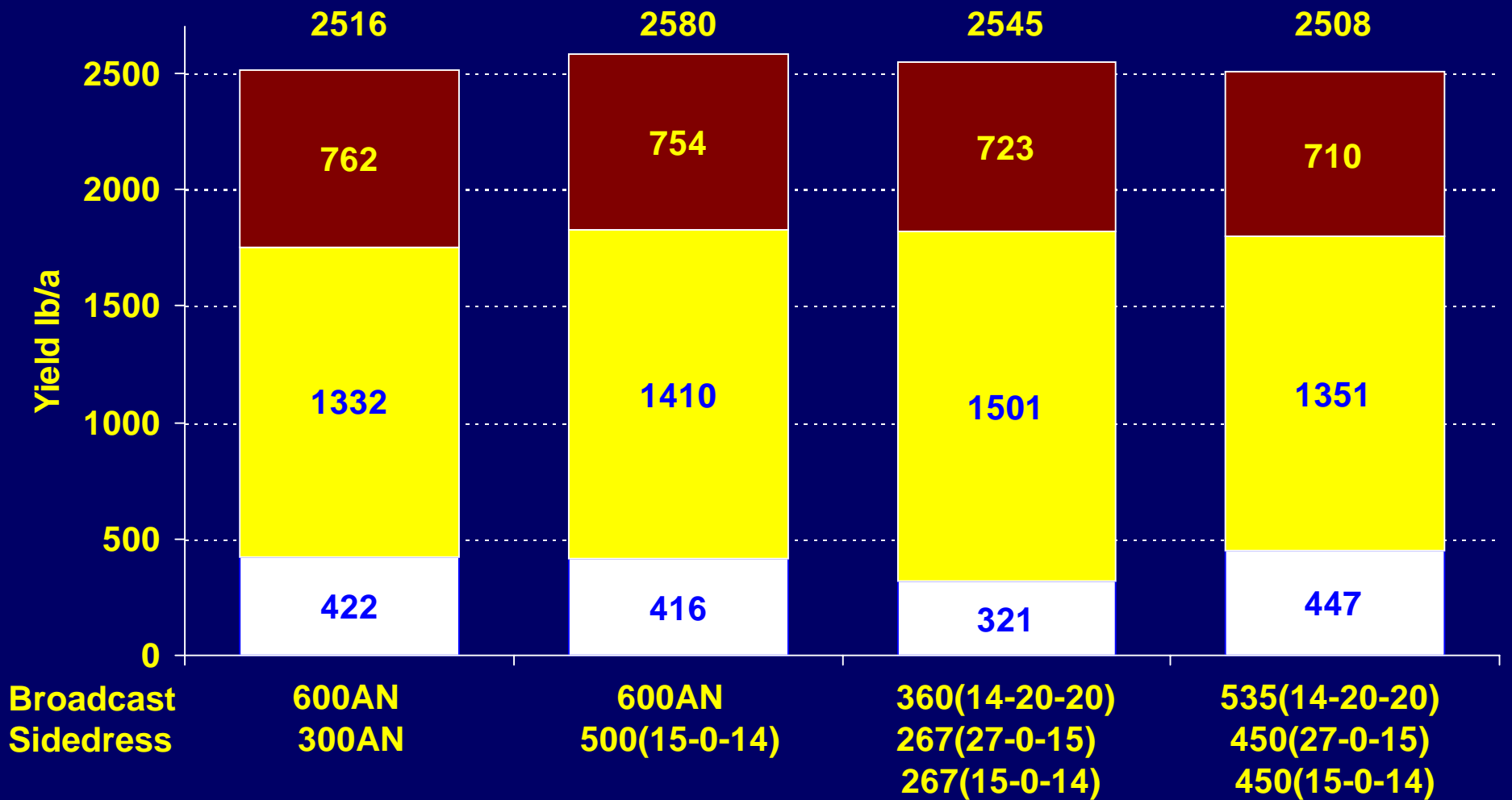
HSD 0.05 = 0.5 0.43 0.76 .47

HSD 0.05 = 0.64 0.59 0.65 0.42

BC=Broadcast, BD=Banded, Calcium = Calcium Sulfate, #()/#()= broadcast/ sidedress lb/a where AN=Ammonium Nitrate, U=Urea, CN=Calcium Nitrate, SN=Sodium Nitrate

Large Plot Fertility Trial

Boyle Co. – Allen Goggin Farm

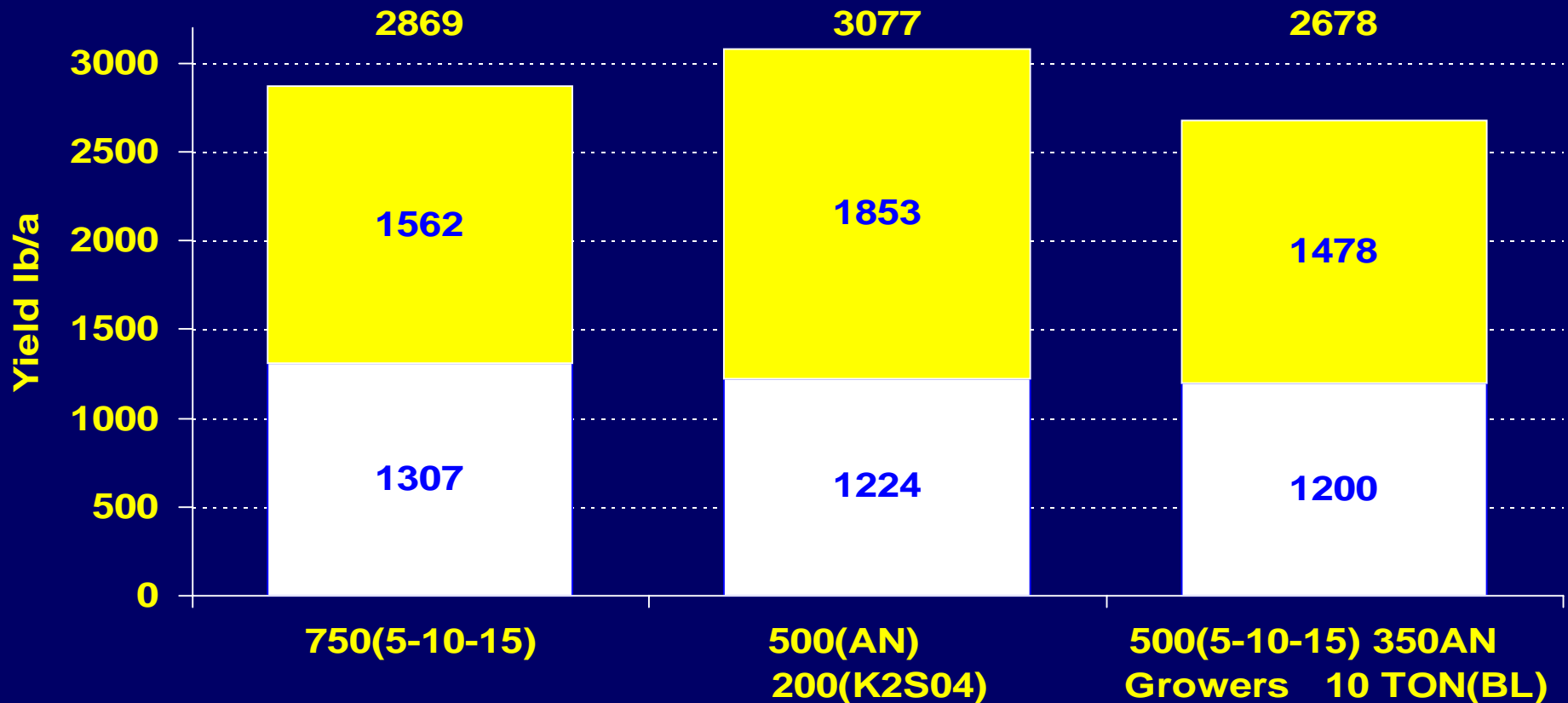


HSD 0.05 = 151 431 180 498

Number = lbs of product, AN = Ammonium Nitrate

Large Plot Fertility Trial

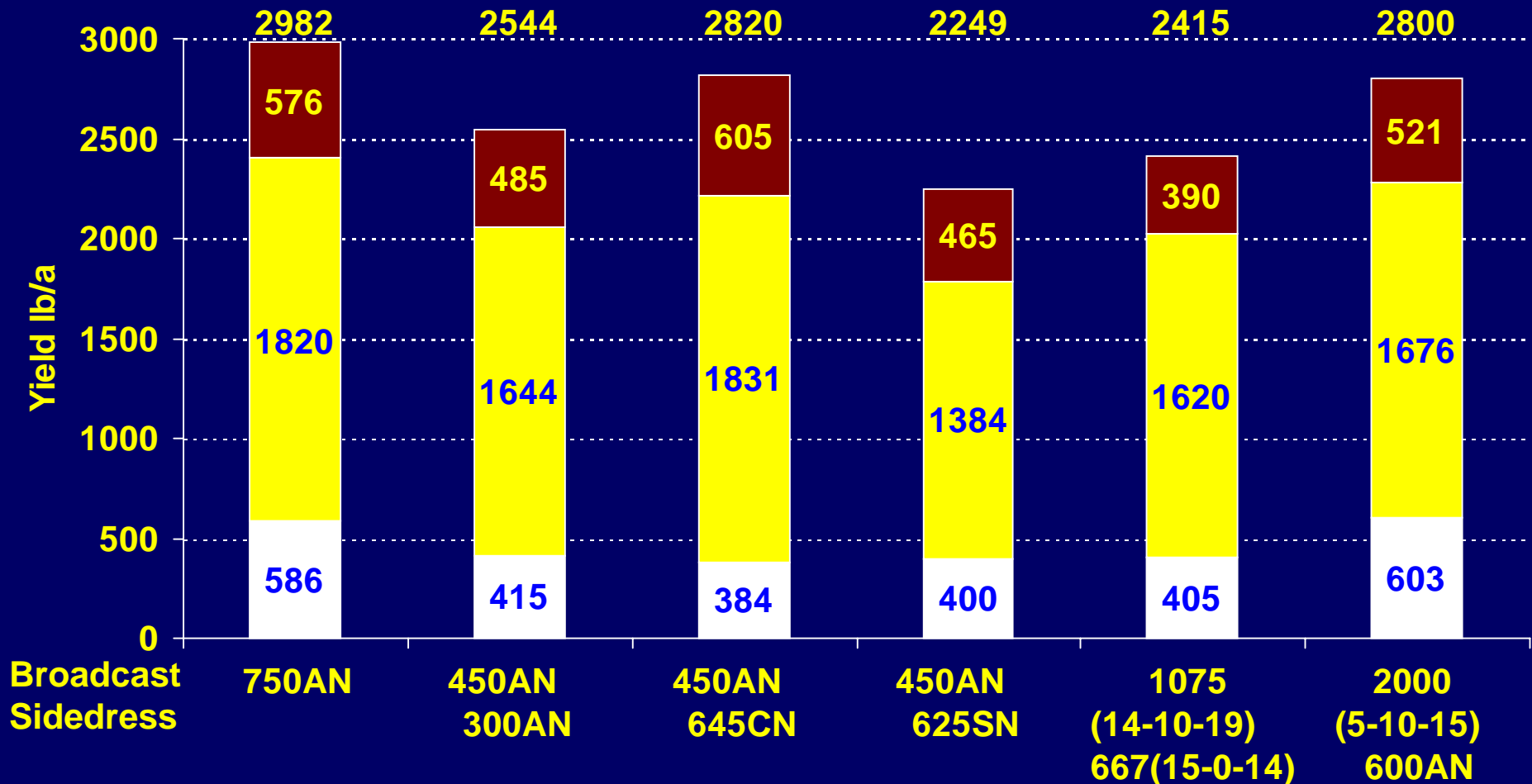
Laurel Co - Harold McPhetridge Farm



LSD 0.05 = 419 512 899, AN= Ammonium Nitrate, BL=Burned Lime *All treatments had 5 tons of Ag lime applied **Across the ends of treatments an extra 28 tons of burned lime was applied. One sample was taken from each of these treatments. Yields from that area were 2614, 3685, & 2875, respectively

Fertility Trial

Laurel Co. - Todd Brock Farm

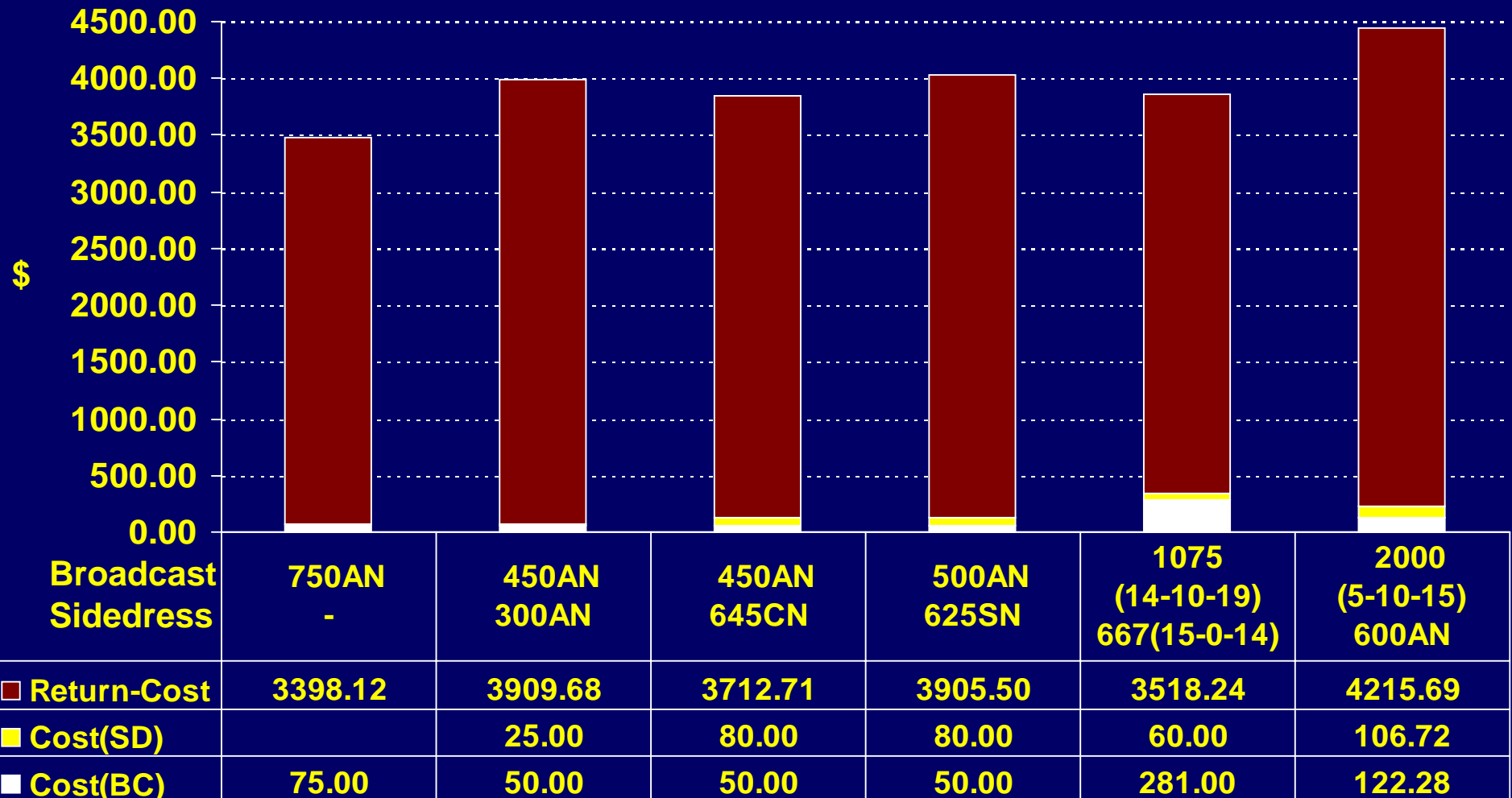


HSD 0.05 = 284 721 254 951

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

Cost & Returns From Different Sources of Nitrogen

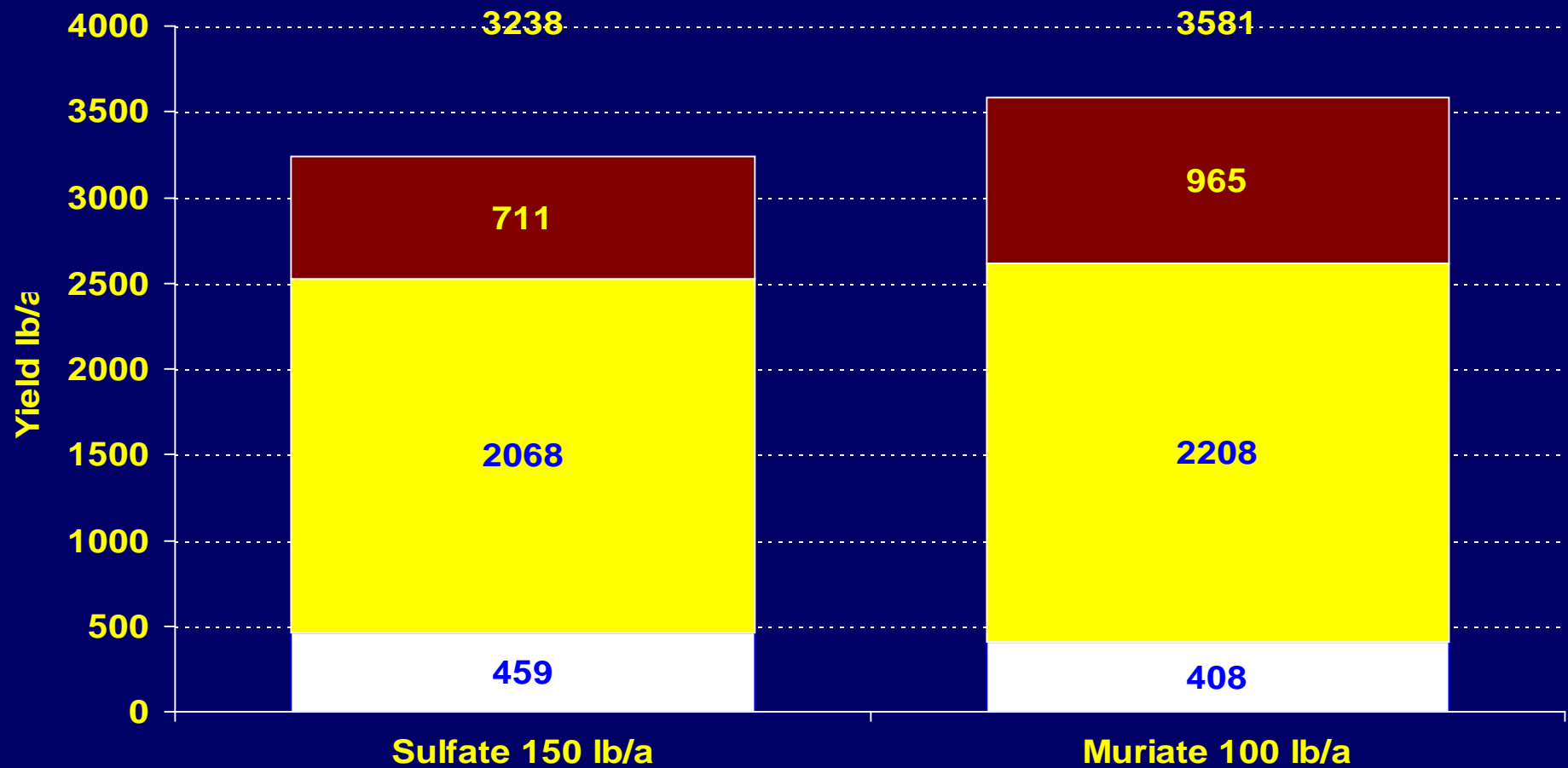
Laurel Co. - Todd Brock Farm



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

Potassium Fertilization

Lincoln Co. - Vernon Douglas Farm

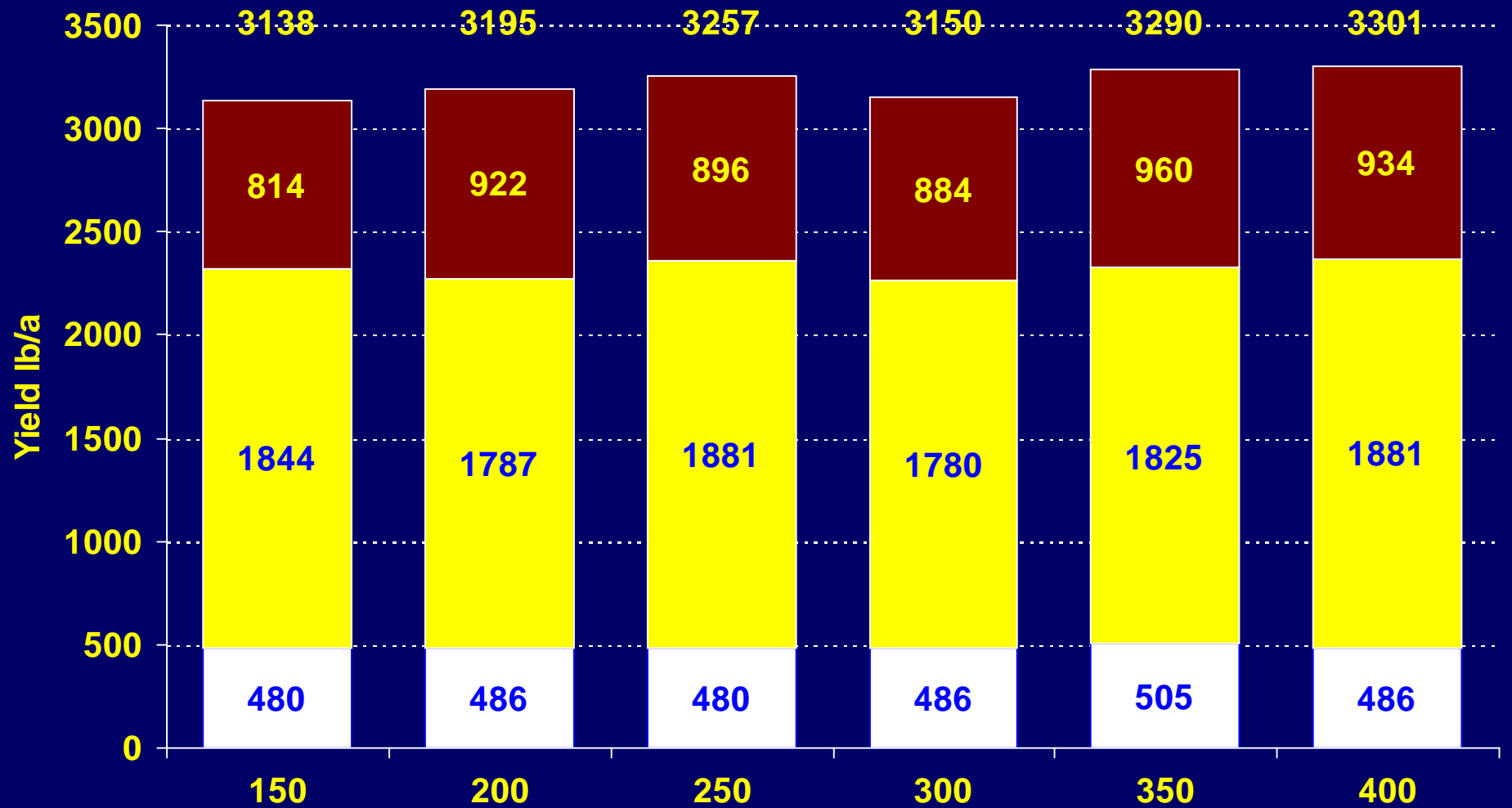


HSD 0.05 = 301 787 420 1002

250 lb/a of muriate was applied on 11/1/1999, above treatments were applied on 5/5/2000. This test did not compare the effects that muriate use can have on quality.

Nitrogen Rate Study

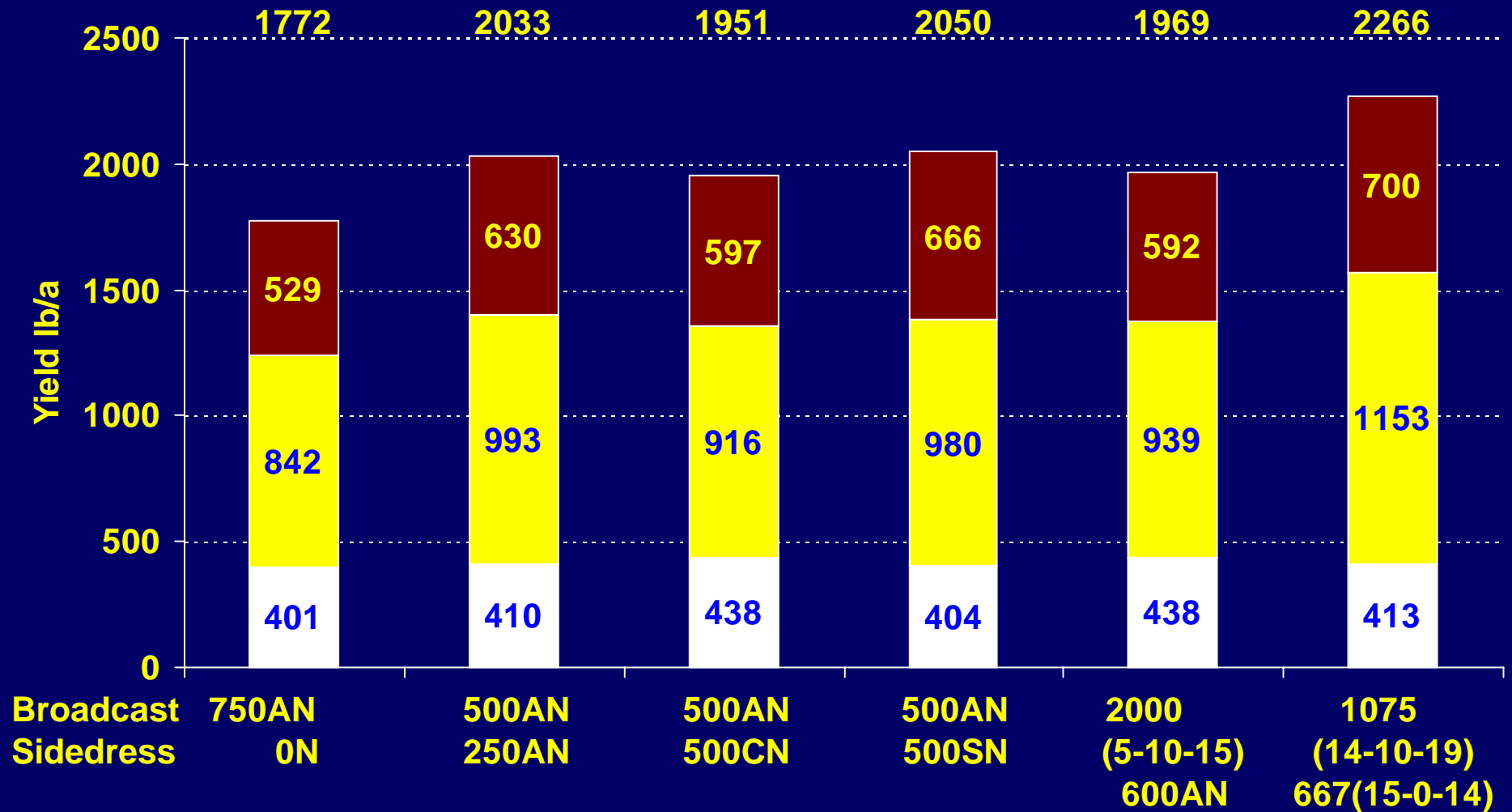
Owen Co. - Jimmy Cammack Farm



HSD 0.05 = 107 340 227 516 Number = lbs of Ammonium Nitrate,

Fertility Trial

Owsley Co. - Kenny Shouse



HSD 0.05 = 86 331 165 479 Number = lbs of product, AN = Ammonium Nitrate, CN = Calcium Nitrate, SN = Sodium Nitrate

Cost & Returns From Different Sources of Nitrogen

Owsley Co. - Kenny Shouse



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