



Staying Positive Establishing, Maintaining Soil-Protecting Waterways

Marion Calmer

Calmer Ag Research







AGENDA

- Causes of Waterway Failures
- Rebuilding of Waterways
- Seeding Mixes and Rates
- On Farm Data











pH 7.4 P-207 K-363 OM-5.3%







Mississippi Delta

Mississippi Delta





Mobile, AL

Gulfport, MS

Ship Island

Breton National
Wildlife Refuge

Mississippi River Delta

Lake Pontchartrain

New Orleans, LA



Causes of Waterway Failures





Roundup
POWERMAX

CAUTION!
Keep out of reach of children.
Read the entire label before using this product. Use only as directed. Do not use if the label is missing, faded, or illegible. Do not use if the container is damaged or leaking. Do not use if you are pregnant, nursing, or breastfeeding. Do not use if you are allergic to glyphosate. Do not use if you have asthma or other respiratory conditions. Do not use if you have heart disease, high blood pressure, or other cardiovascular conditions. Do not use if you have diabetes, kidney disease, or other chronic conditions. Do not use if you are taking any medications. Do not use if you are pregnant, nursing, or breastfeeding. Do not use if you are allergic to glyphosate. Do not use if you have asthma or other respiratory conditions. Do not use if you have heart disease, high blood pressure, or other cardiovascular conditions. Do not use if you have diabetes, kidney disease, or other chronic conditions. Do not use if you are taking any medications.

CROSSBOND
Specialty Formulation
for Roundup Ready Crops

NET 2.5 GAL





Floating Corn Stalks





Planting Around A Waterway



1975 - 1985



1993





How Do We Fix, *and* When Do We Fix?

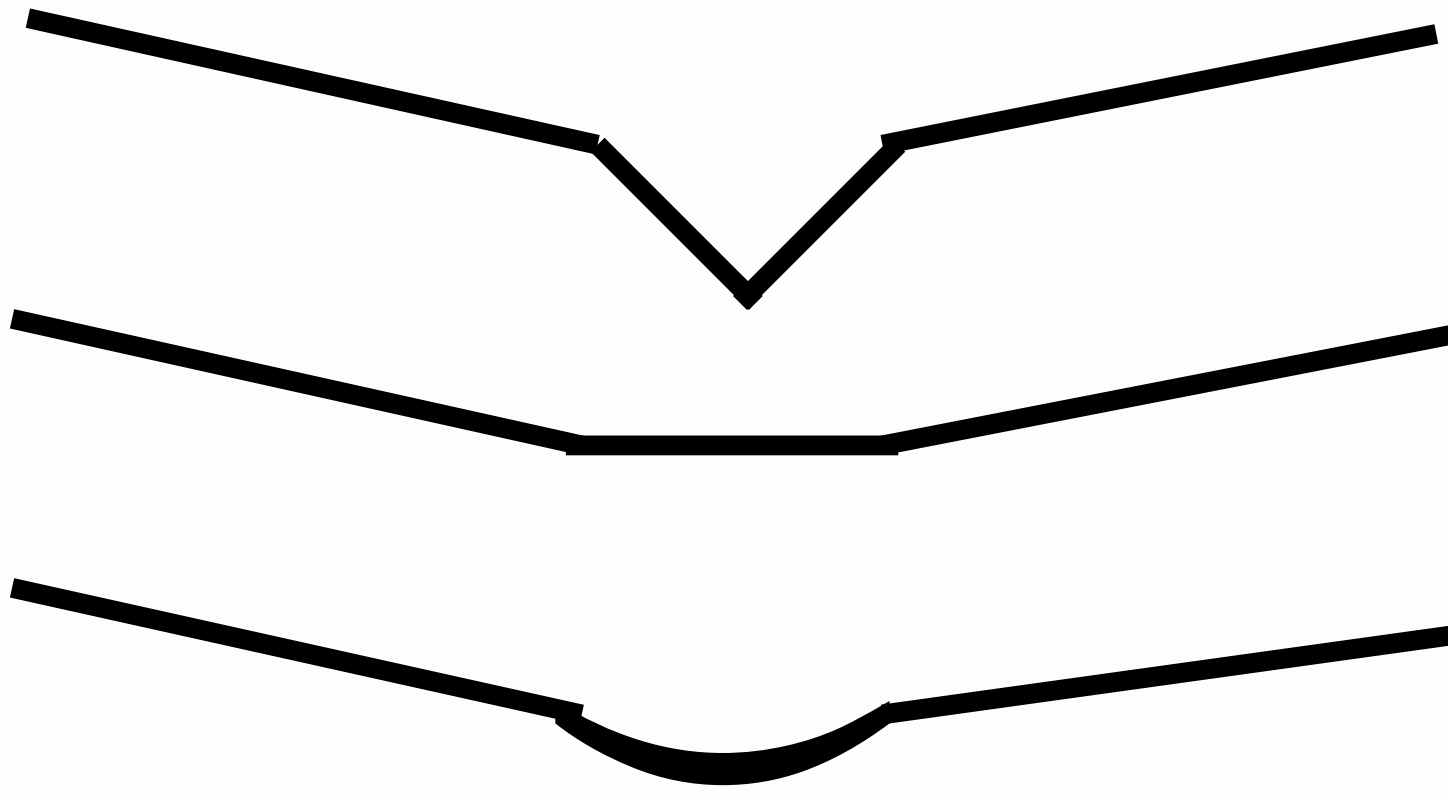








“V” shape vs “” shape



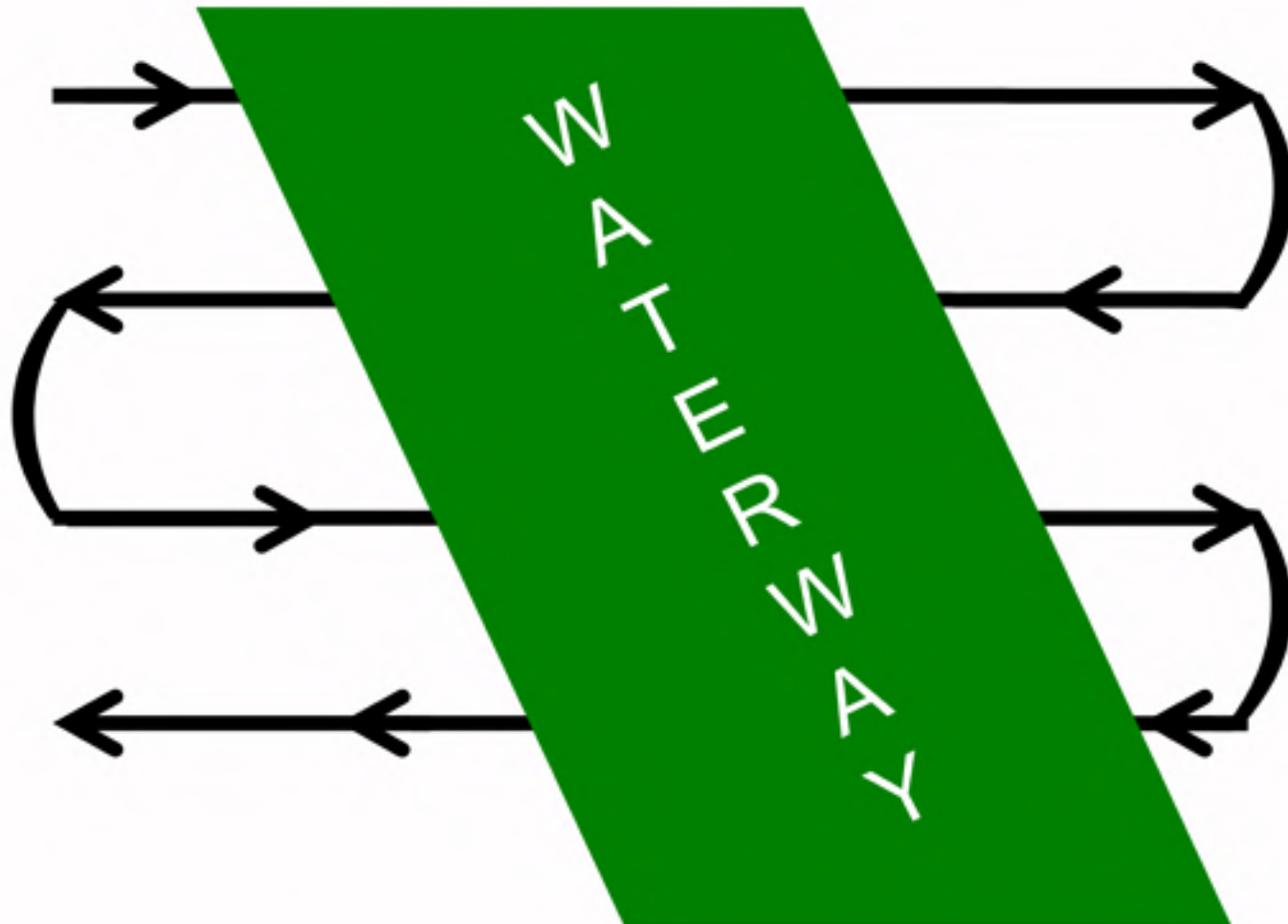


WATERWAY REPAIR AGENDA

- Pan Scrape
- Field Cultivate
- Box Scrape
- Field Cultivate w/Rows



Field Farmed East and West

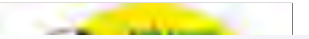




WATERWAY REPAIR AGENDA

- Pan Scrape
- Field Cultivate
- Box Scrape
- Field Cultivate w/Rows
- Sow Grass Seed
- Mulch and Harrow @ 90° to waterway







Waterway Mix

70% Tall Fescue

20% Brome

10% Annual Rye Grass (quick cover)

25# / AC

150# Map (17 - 78 - 0)

1 bu / AC Oats



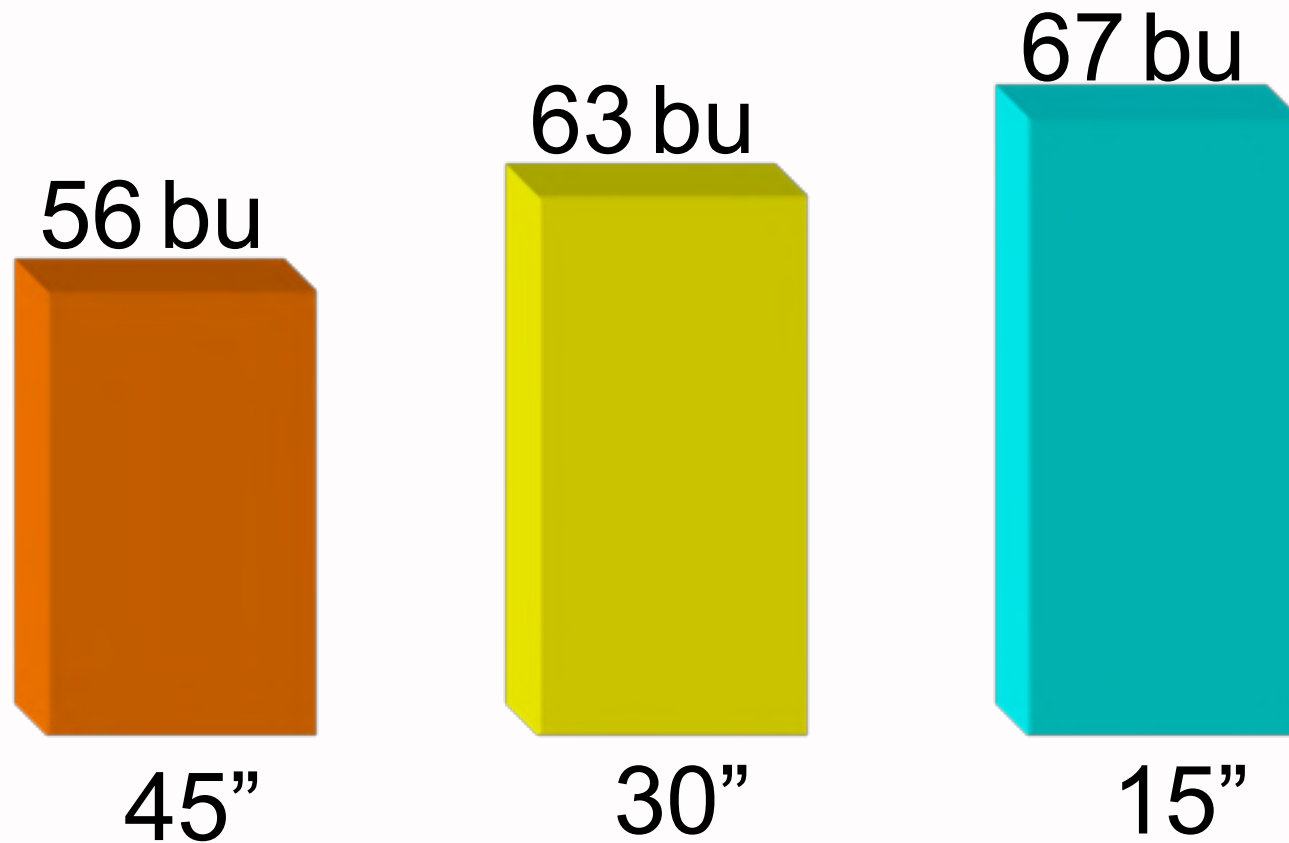


SUMMARY

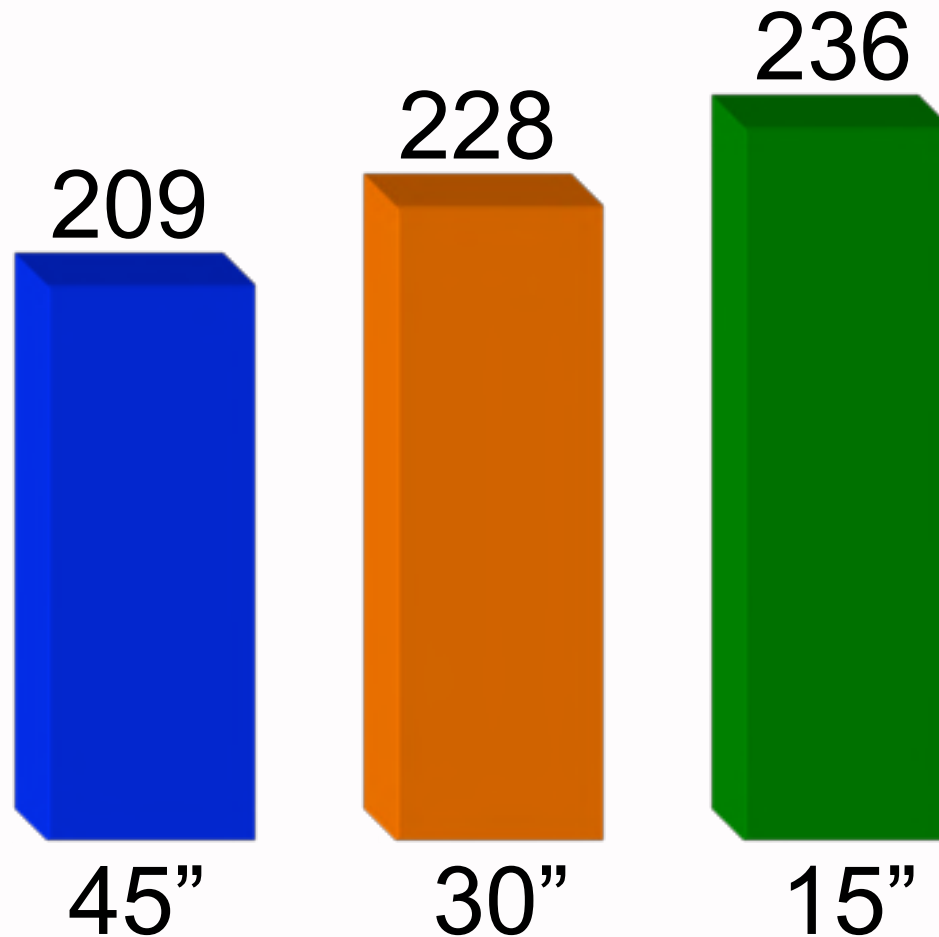
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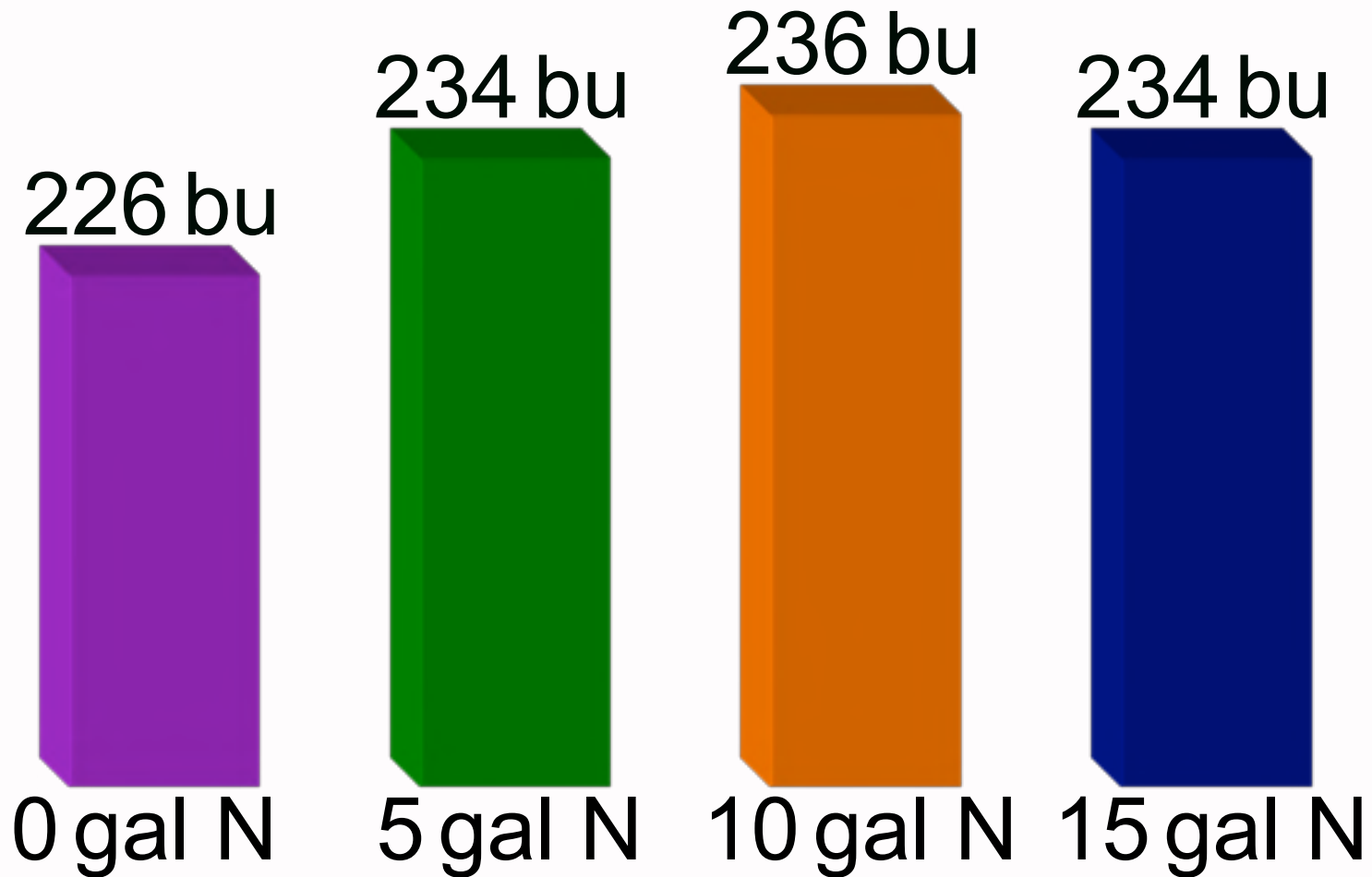
Long Term (3 Year) Soybean Row Spacing Study



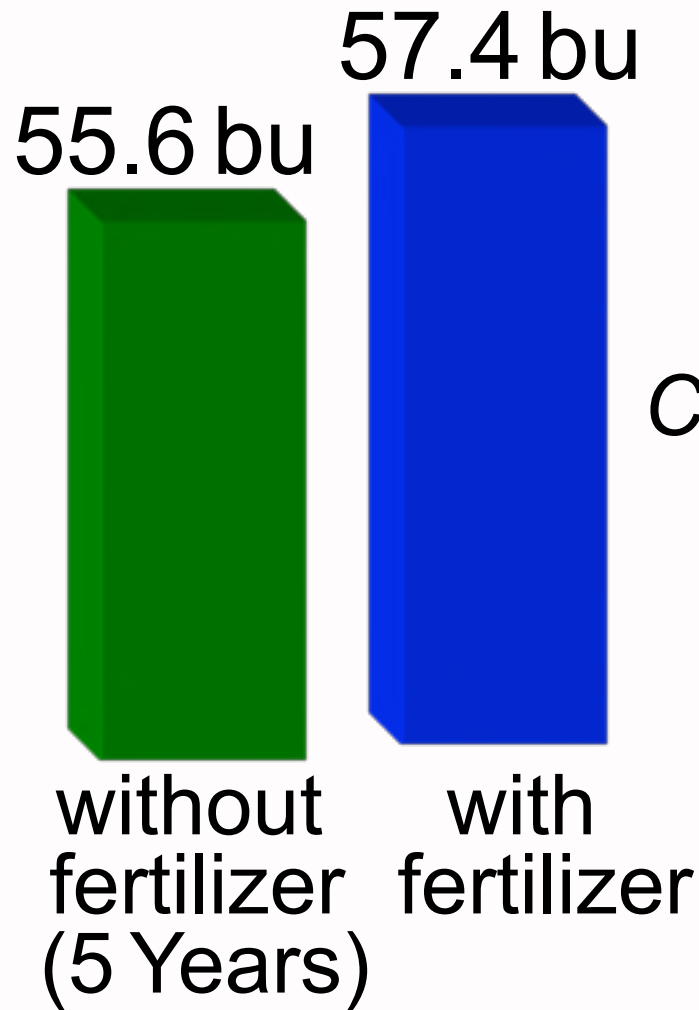
Long Term (4 Year) Corn Row Spacing Study



2009 Corn Starter Nitrogen In Trench



2010 Fertility Study



Economics

$1.8 \text{ bu} \times \$10 = \18 advantage

Cost of Fertilizer = ~~-\$50~~

Loss / AC = ~~-\$32~~ Loss

$P = 30$

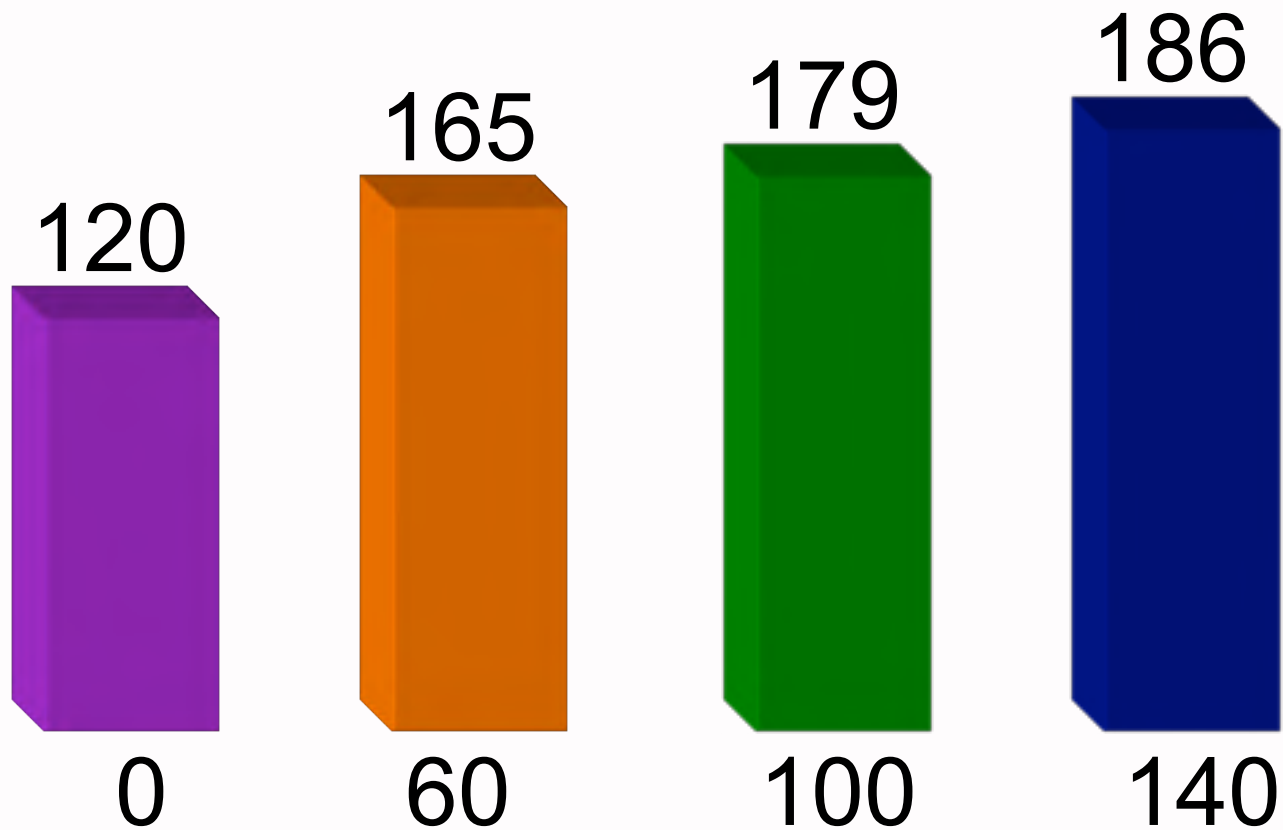
$K = 300$



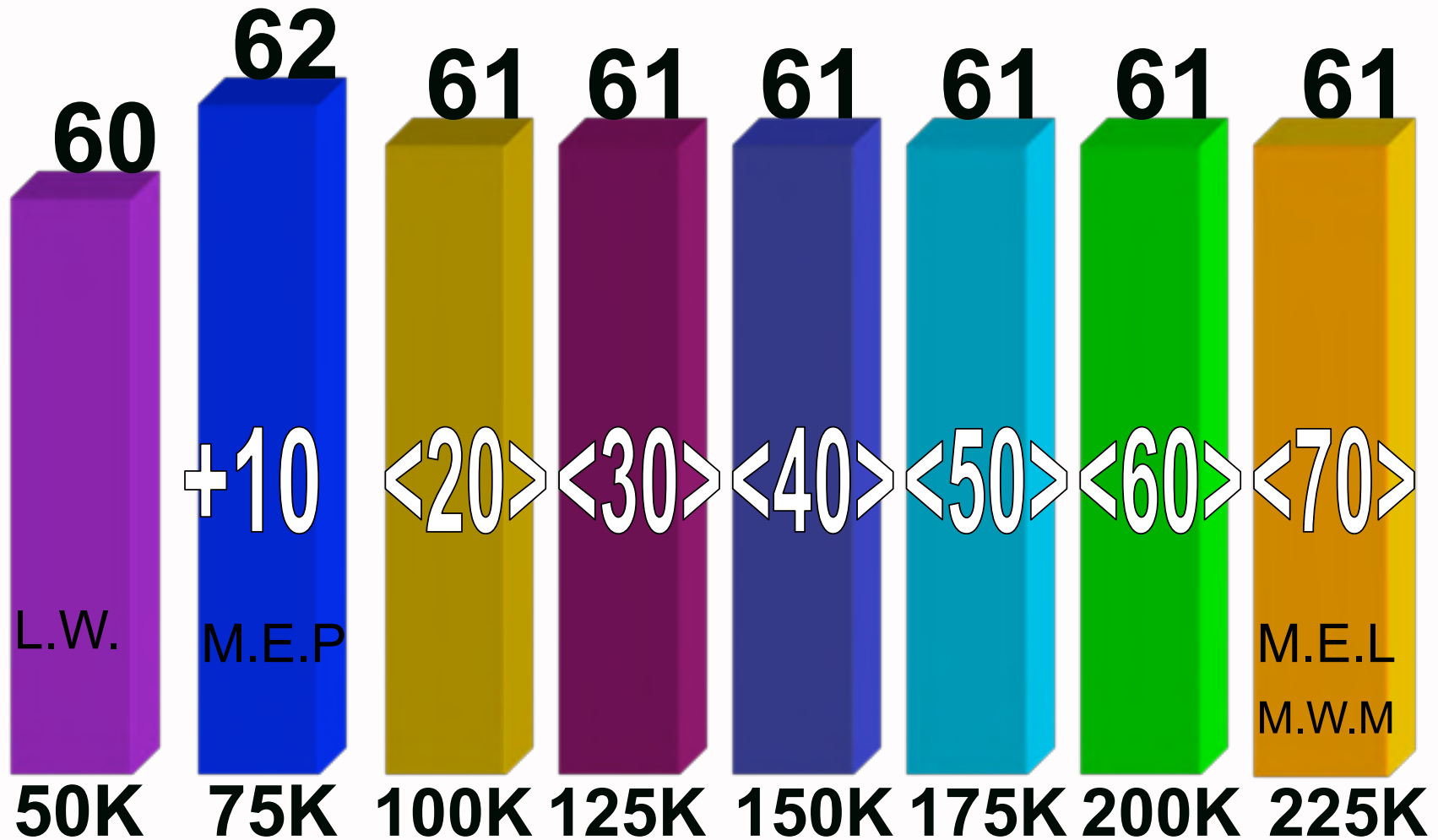


1997 Nitrogen Rates BT Hybrid

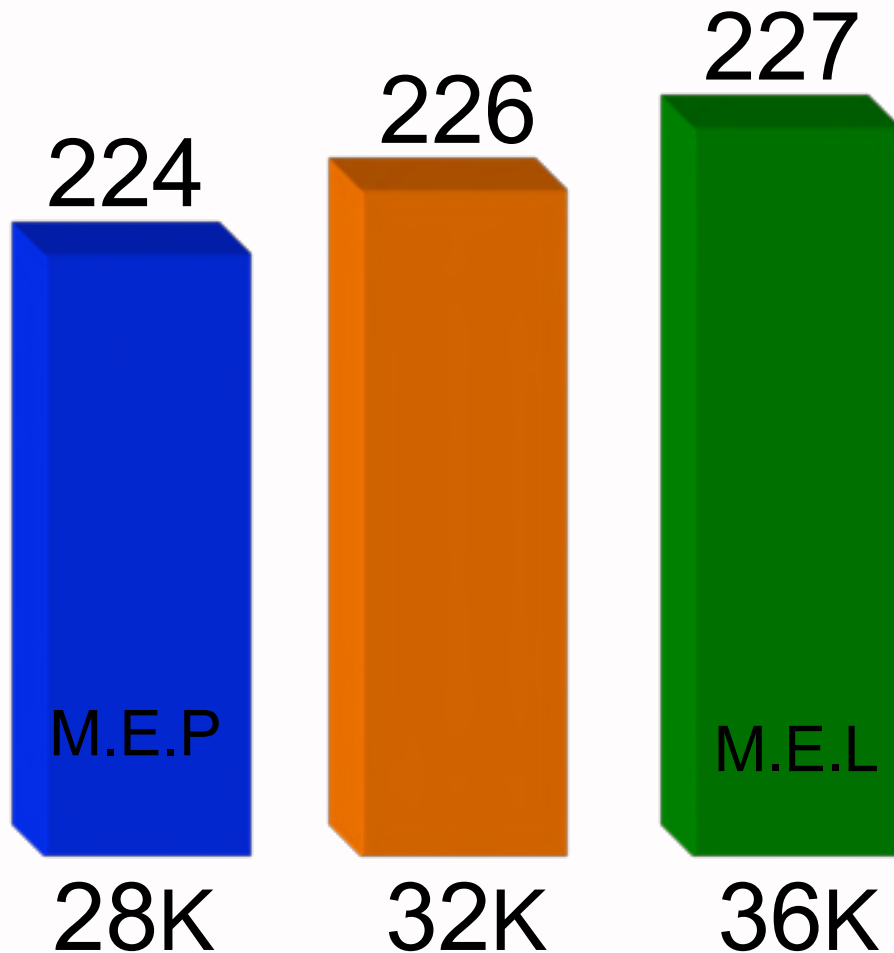
Nitrogen on BT Hybrid



Long Term (4 Year) Soybean "Planting" Population Study



Long Term (3 Year) Corn Population Study



Economics

At my farm with
\$280/bag seed
corn, and \$5/bu
corn, 28K is
averaging \$4/Ac
more profitable
than 32K



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