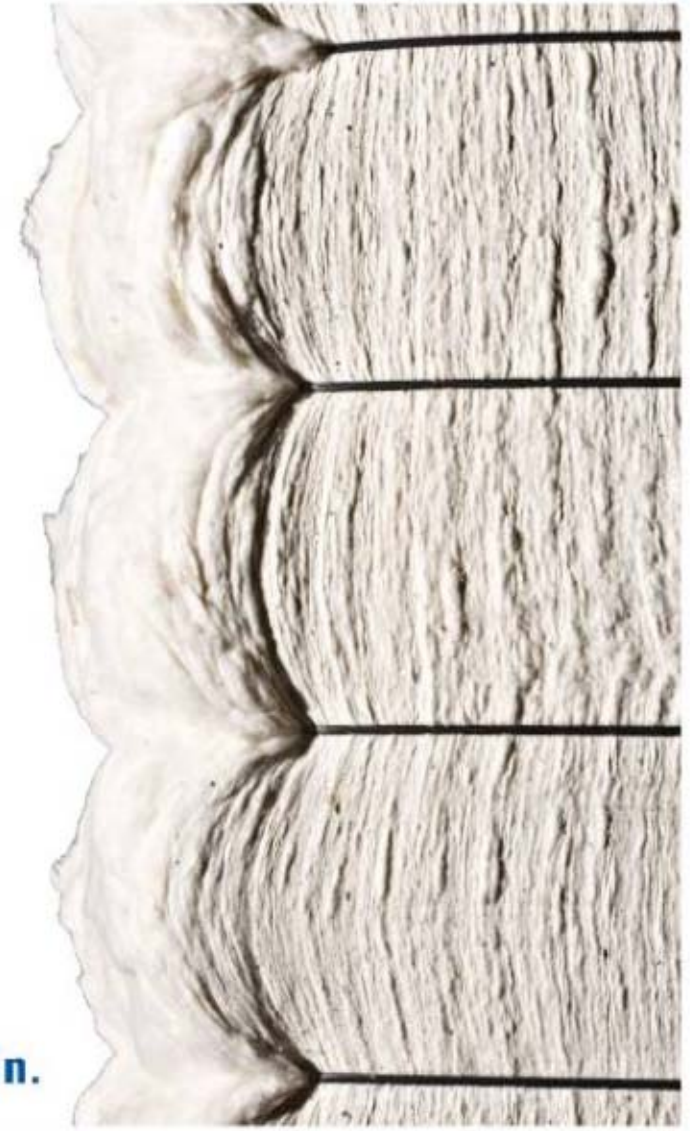
PhytoGen COTTONSEED WideStrike

# Cottonseed and Traits Overview

## Hunter Fife



The right choice in the field and at the gin.





Dow AgroSciences

PhytoGen COTTONSEED WideStrike

# WideStrike™

Insect Protection



Dow AgroSciences

# Cry Proteins in Bt cotton

| WideStrike™ Insect Protection | Cry1Ac | Cry1F |
|---|---|---|
| Bollgard® II | Cry1Ac | Cry2Ab |
| Bollgard® | Cry1Ac | |

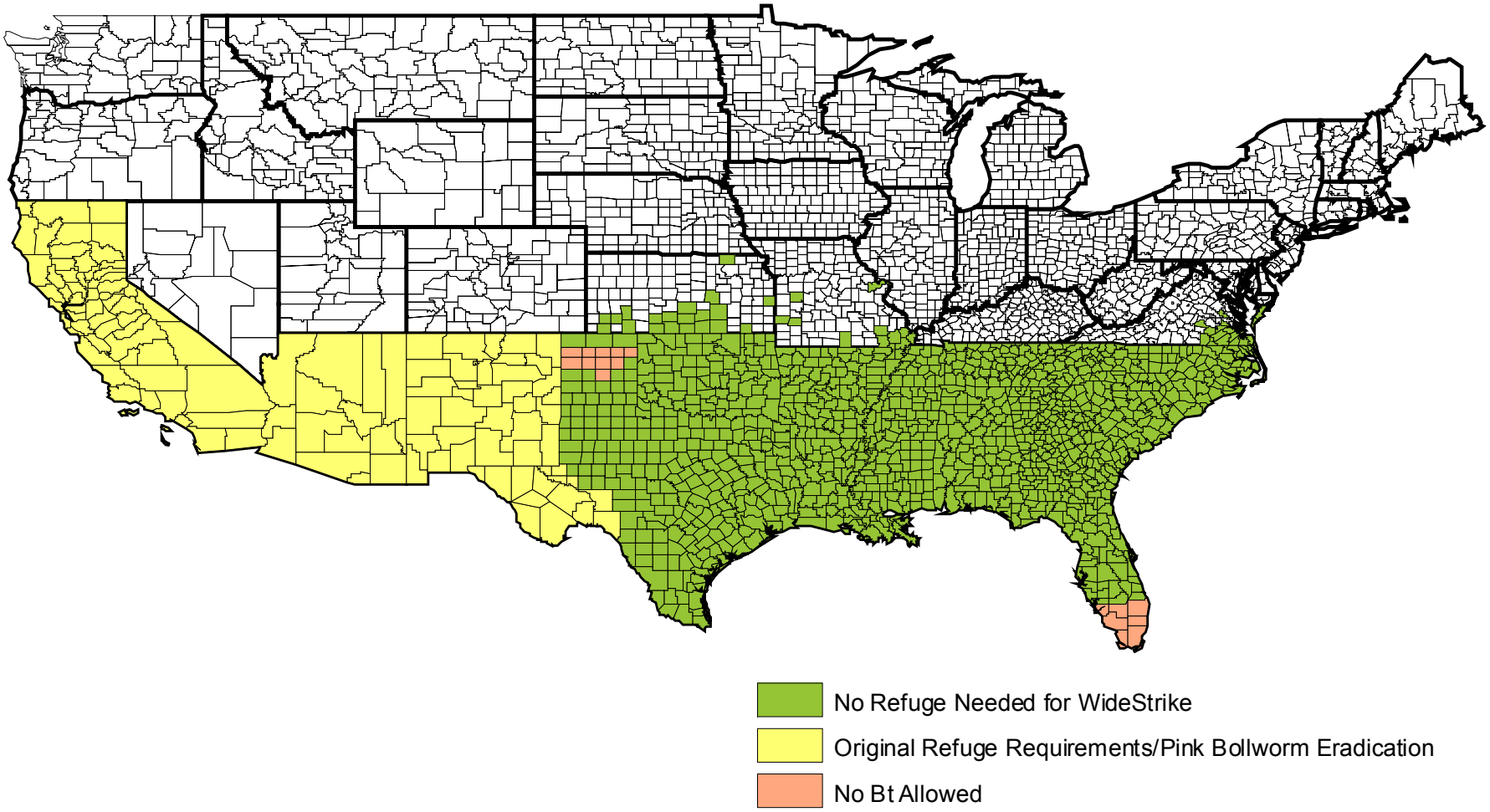

PhytoGen
COTTONSEED
WideStrike
DP 445 BR
PHY 370 WR
Bollgard
WideStrike

# WideStrike Summary

- WideStrike Insect Protection provides very high levels of performance on commonly occurring Lep pests.

- Like other *Bt* cottons, varieties expressing the WideStrike trait should be scouted for all insect pests, and insecticide applications should be made when spray thresholds are exceeded.

# WideStrike Refuge Requirements



PhytoGen™ COTTONSEED

- Technologies Available in PhytoGen varieties
- Brief review of 2005 – 2007 Regional data

# Key Varieties For 2008

- ***Early***
- ***PHY 370 WR***
- ***PHY 315 RF***
- ***PHY 375 WRF***

- ***Early-Mid***
- ***PHY 440 W***
- ***PHY 480WR***
- ***PHY 425 RF***
- ***PHY 485 WRF***

Excellent early season vigor

Respond well to PGRs

Broadly Adaptable

# PHY 375 WRF and PHY 315 RF

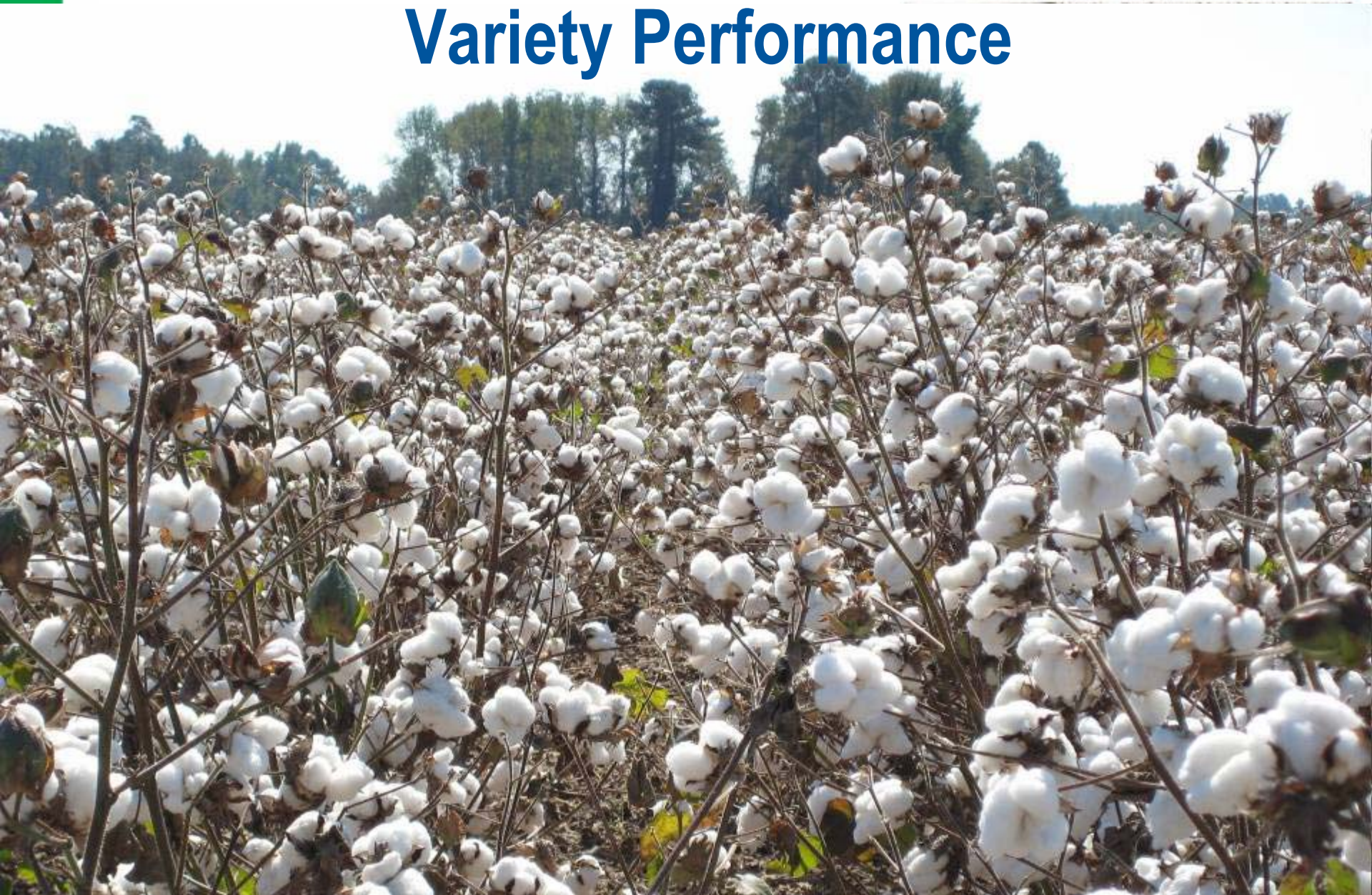
- ***LATEST RELEASES – New for 2008***
- Early-Maturing - As early as DP444BR
- ***Excellent*** Early Season Vigor
- ***Excellent*** Lint Quality (mic .1 to .3 units lower than PHY 370 WR)
- Fits most soil types
- Very limited supply

# PHY 485 WRF

- Early-Mid Maturing
  - Very similar to ST 4554 B2RF
- Very Good Early Season Vigor
- Fits most soil types
  - Will max out in highly productive environments
- More aggressive grower than the 300 Series
- Storm Tolerance – Harvestability
- Ample seed supply

PhytoGen COTTONSEED WideStrike Insect Protection

# Variety Performance



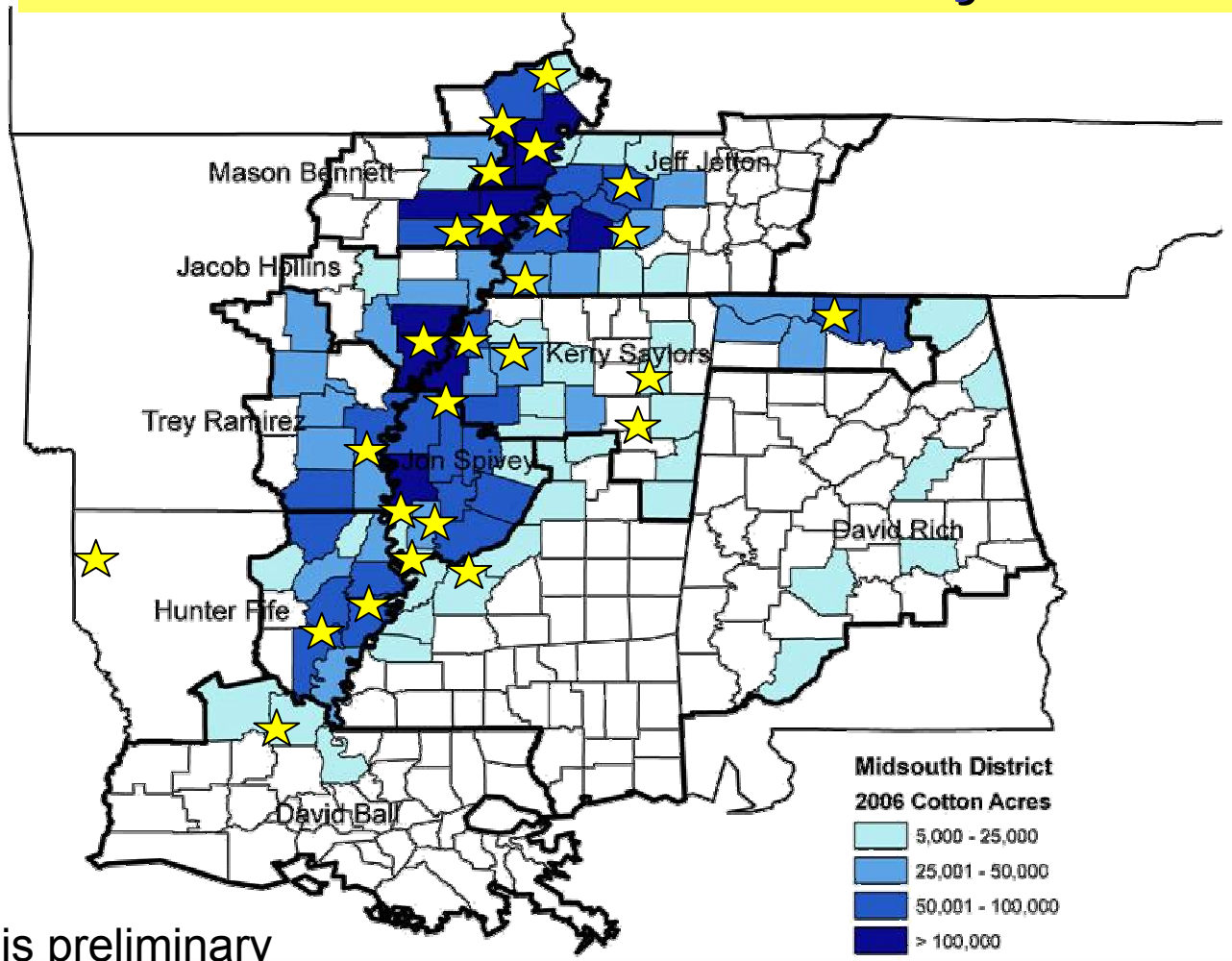
- PHY 370 WR

# Lint Yields and Fiber Quality of PHY 370 WR Compared to a Competitive Variety in 158 OVT Trials in the Mid-South and Southeast in 2005 – 2007

| Variety | YIELD | Turnout | Micronaire | Staple | Strength | Uniformity |
|---|---|---|---|---|---|---|
| | | % | | | g/tex | % |
| PHY 370 WR | 1,284 | 41.6 | 4.7 | 35 | 30.1 | 83.3 |
| DP 445 BR | 1,259 | 41.3 | 4.5 | 36 | 30.7 | 83.7 |
| # of Trials | 158 | 158 | 123 | 123 | 123 | 123 |

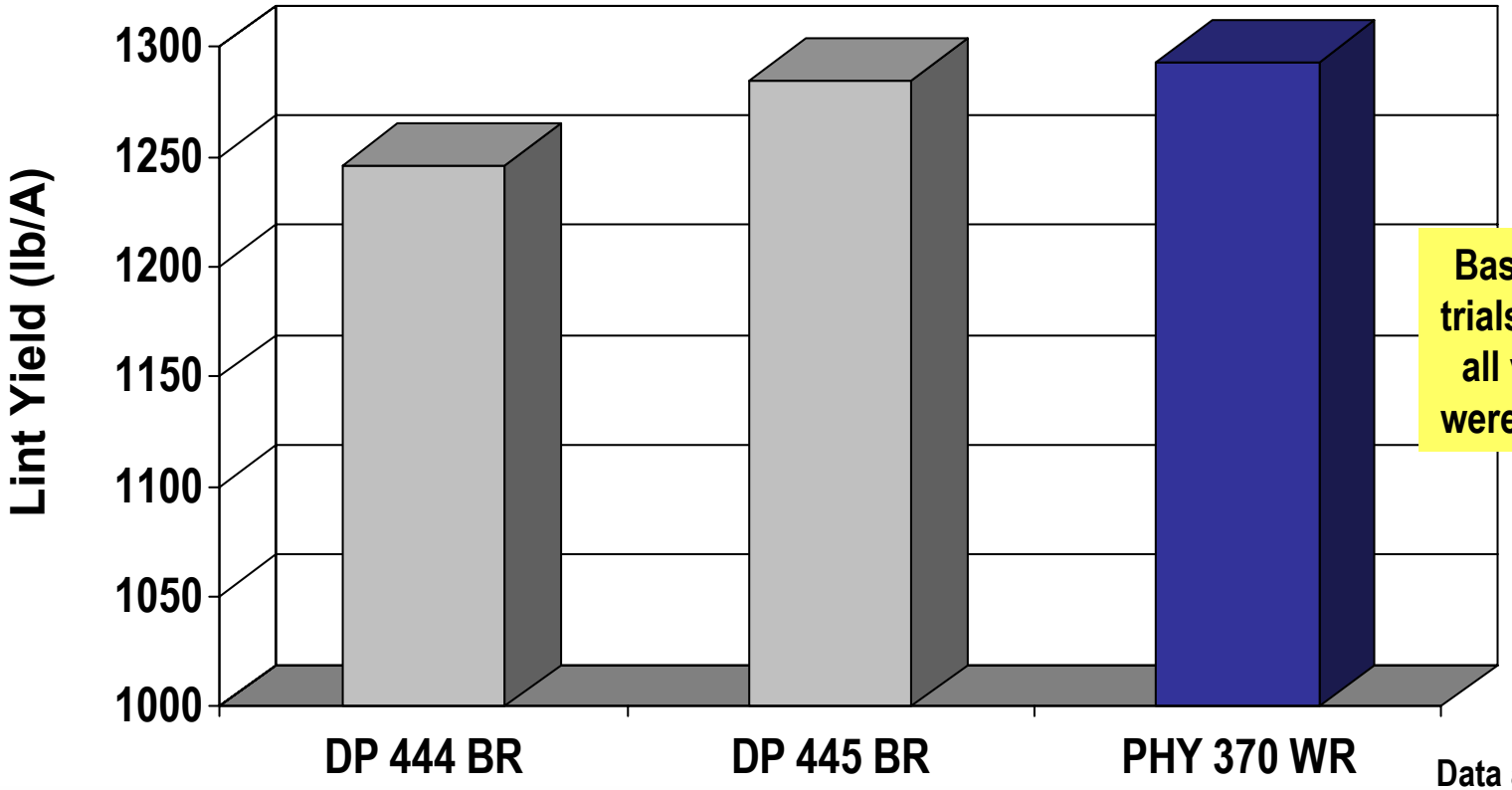
Data represent averages of university OVTs (official variety trials) from 2005 through 2007 in AL, AR, FL, GA, LA, MO, MS, NC, SC, TN and VA (based on data available as of 12-31-07). 2007 data is preliminary.

# Locations of 2007 University OVTs




2007 data is preliminary

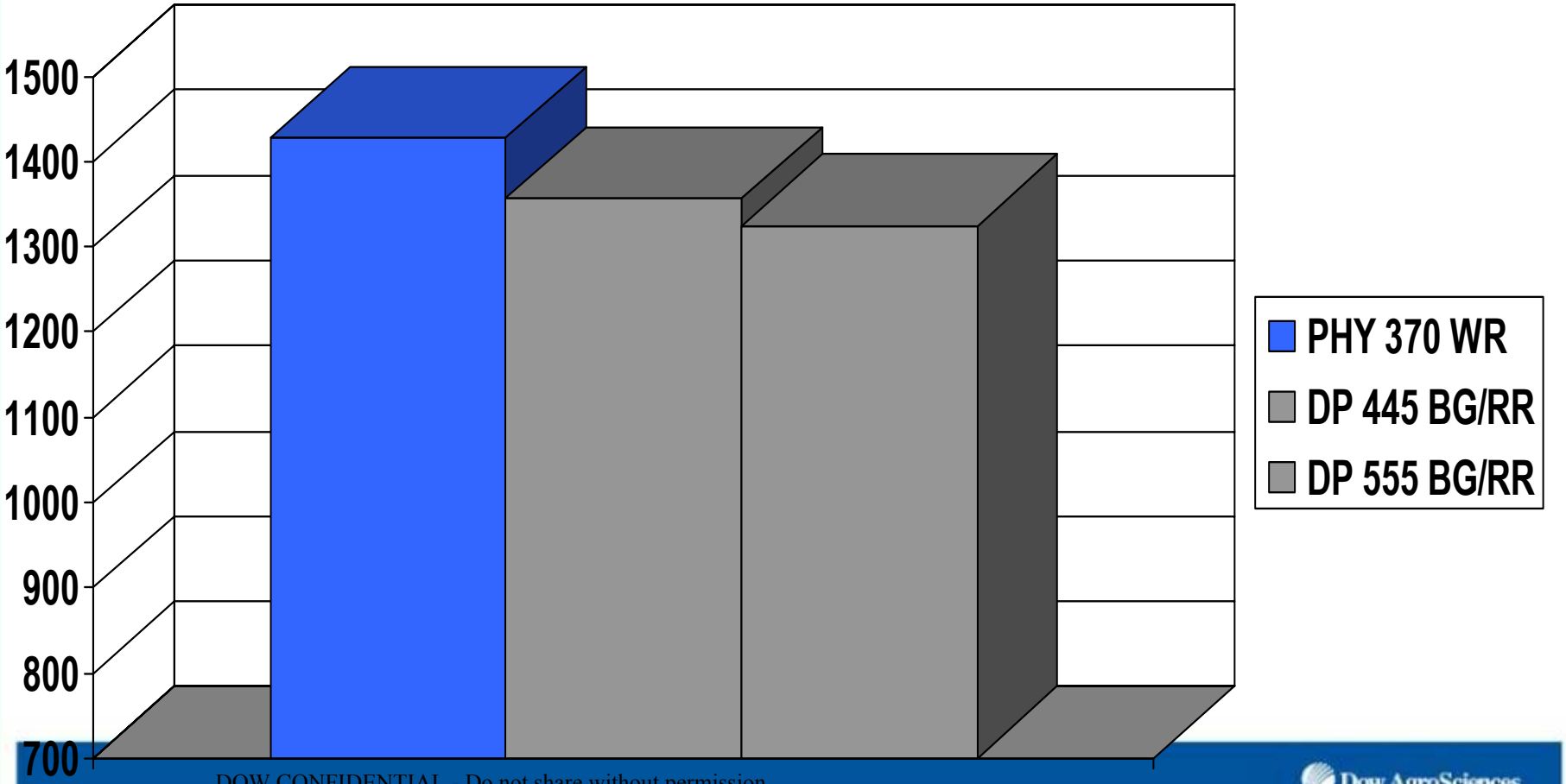
# Performance of PHY 370 WR as Compared to Two Competitive Varieties in Available 2005 – 2007 University OVTs in the Mid-South




Based on 79 trials in which all varieties were included

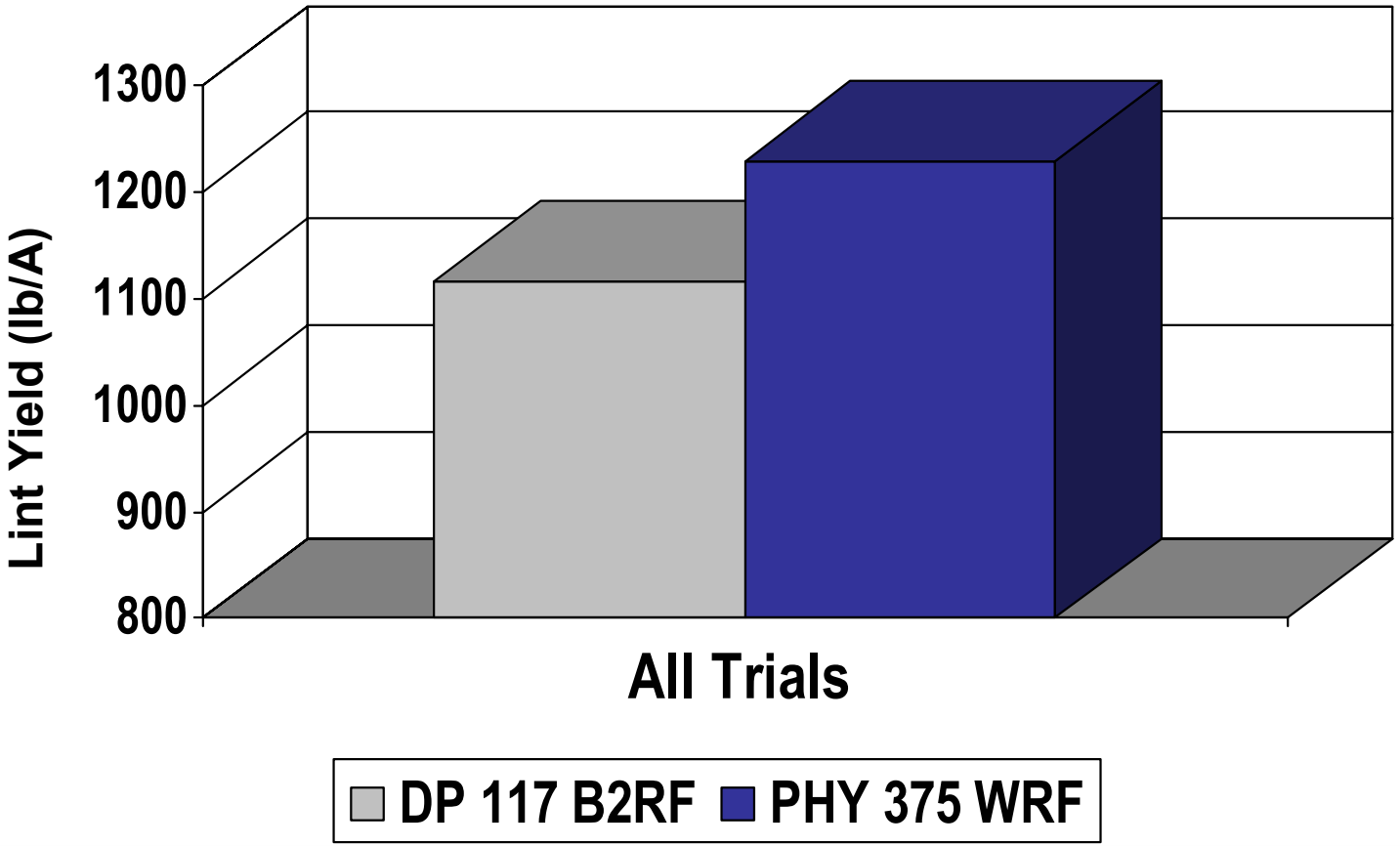
Data as of 12-15-07

# Preliminary Data - 2007 Cotton CVT, Early Maturing Varieties - Sharkey Clay, Northeast Research Station, St. Joseph, LA.



# PHY 375 WRF

# Yield Performance of PHY 375 WRF versus DP 117 B2RF in 64 Trials in 2007




Based on all available data as of 1-16-08

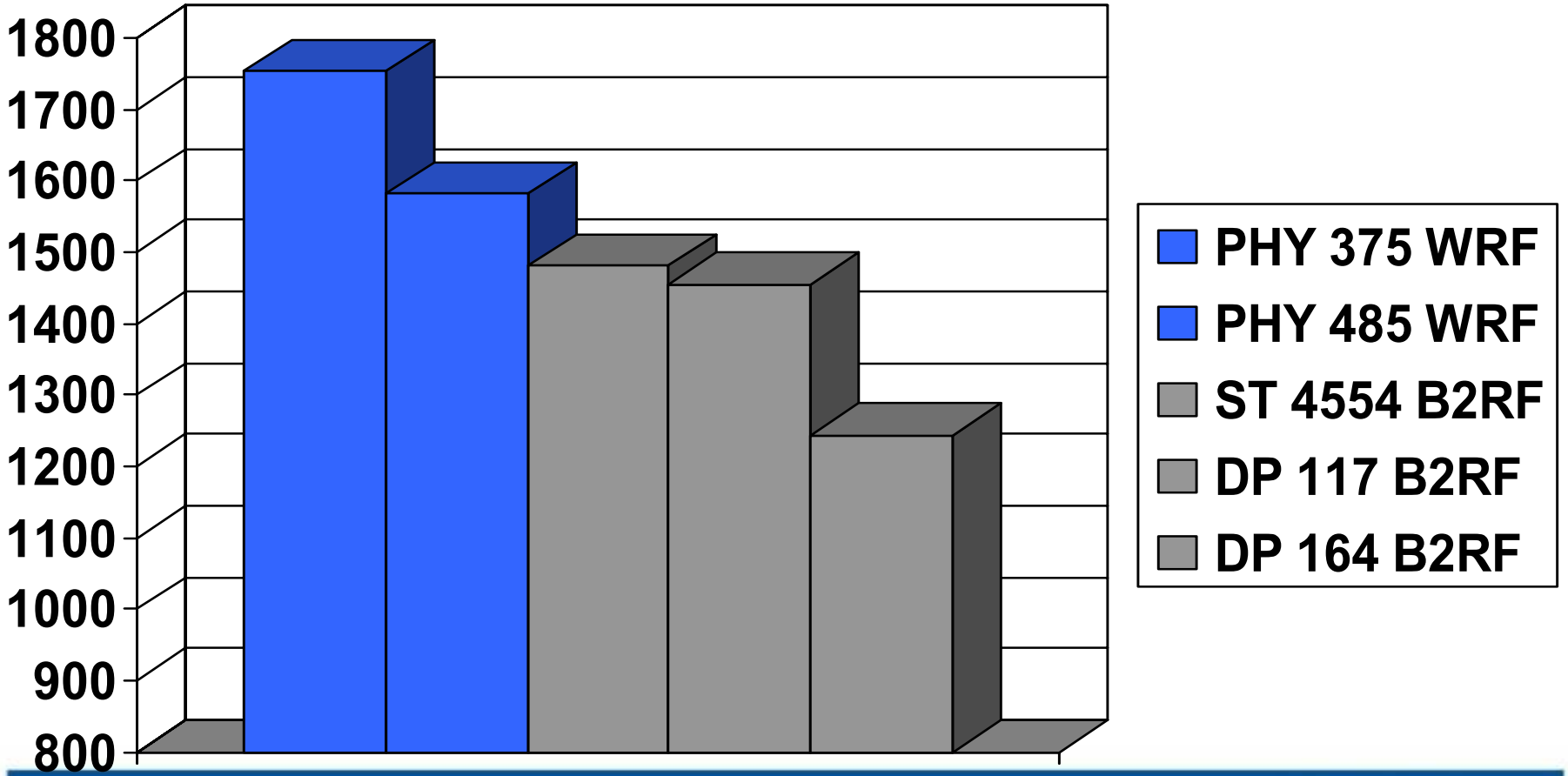
# Fiber Quality

| Variety | Lint % | Mic | Staple | Strength | Uniformity |
|---|---|---|---|---|---|
| PHY 375 WRF | 40.8 | 4.4 | 36 | 30.8 | 82.8 |
| DP 117 B2RF | 42.7 | 4.4 | 36 | 28.3 | 82.7 |

N = 51

Based on all available data as of 12/31/07

# PhytoGen -on- Farm Innovation Plot - 2007
# MerRouge, La



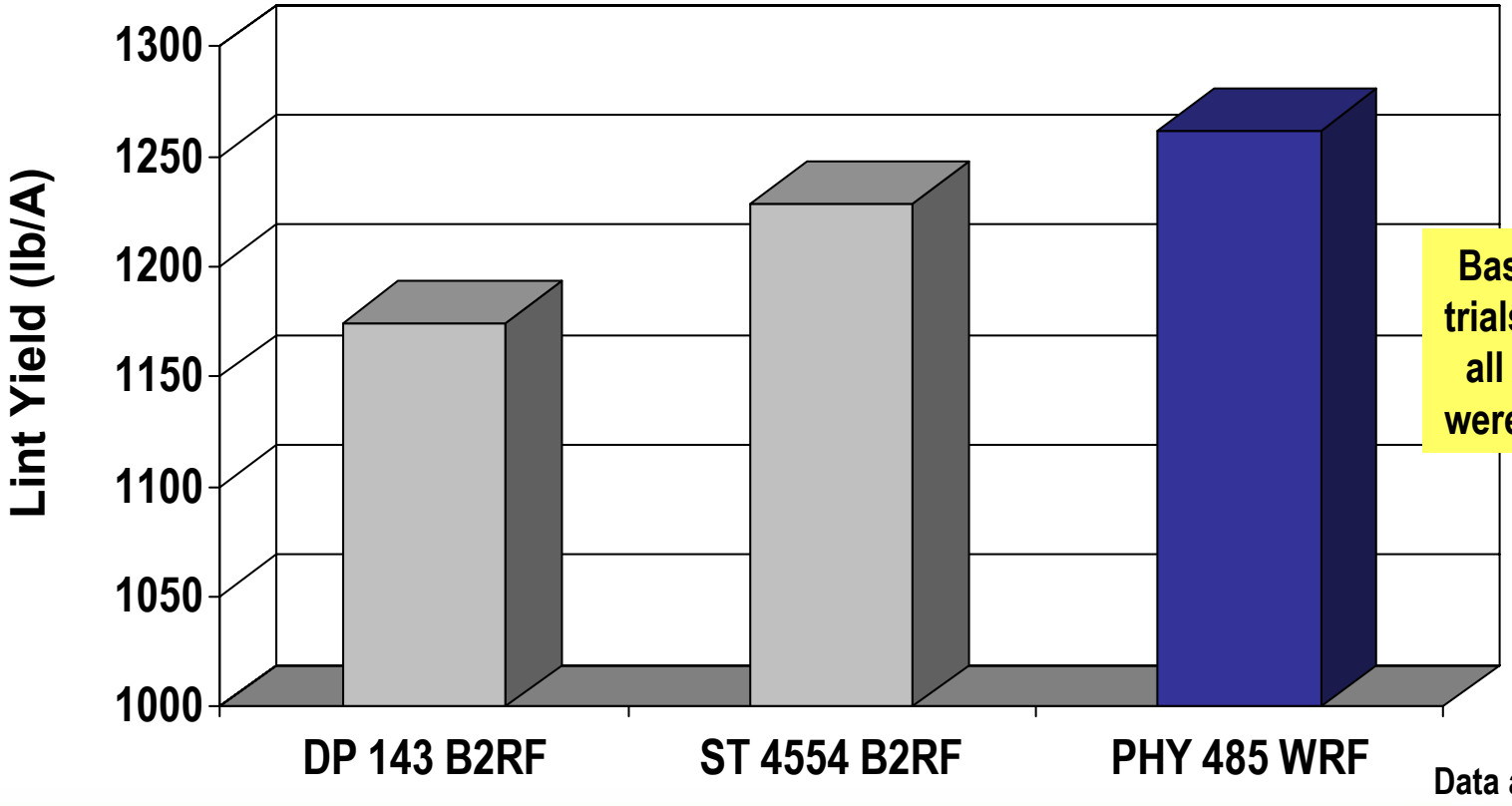
# PHY 485 WRF

# Lint Yield and Fiber Quality of PHY 485 WRF Compared to 2 Competitive Varieties in 96 OVT Trials in the Mid-South and Southeast in 2005 – 2007

| Variety | YIELD | Turnout | Micronaire | Staple | Strength | Uniformity |
|---|---|---|---|---|---|---|
| | | % | | | g/tex | % |
| PHY 485 WRF | 1,213 | 40.7 | 4.7 | 36 | 30.5 | 83.8 |
| ST 4554 B2RF | 1,188 | 40.6 | 4.6 | 36 | 30.1 | 83.2 |
| DP 143 B2RF | 1,140 | 39.6 | 4.2 | 38 | 29.0 | 82.4 |
| # of Trials | 96 | 94 | 74 | 74 | 74 | 74 |

Data represent averages of university OVTs (official variety trials) from 2005 through 2007 in AL, AR, GA, MO, MS, NC, SC, TN and VA (based on data available as of 12-31-07). 2007 data is preliminary.

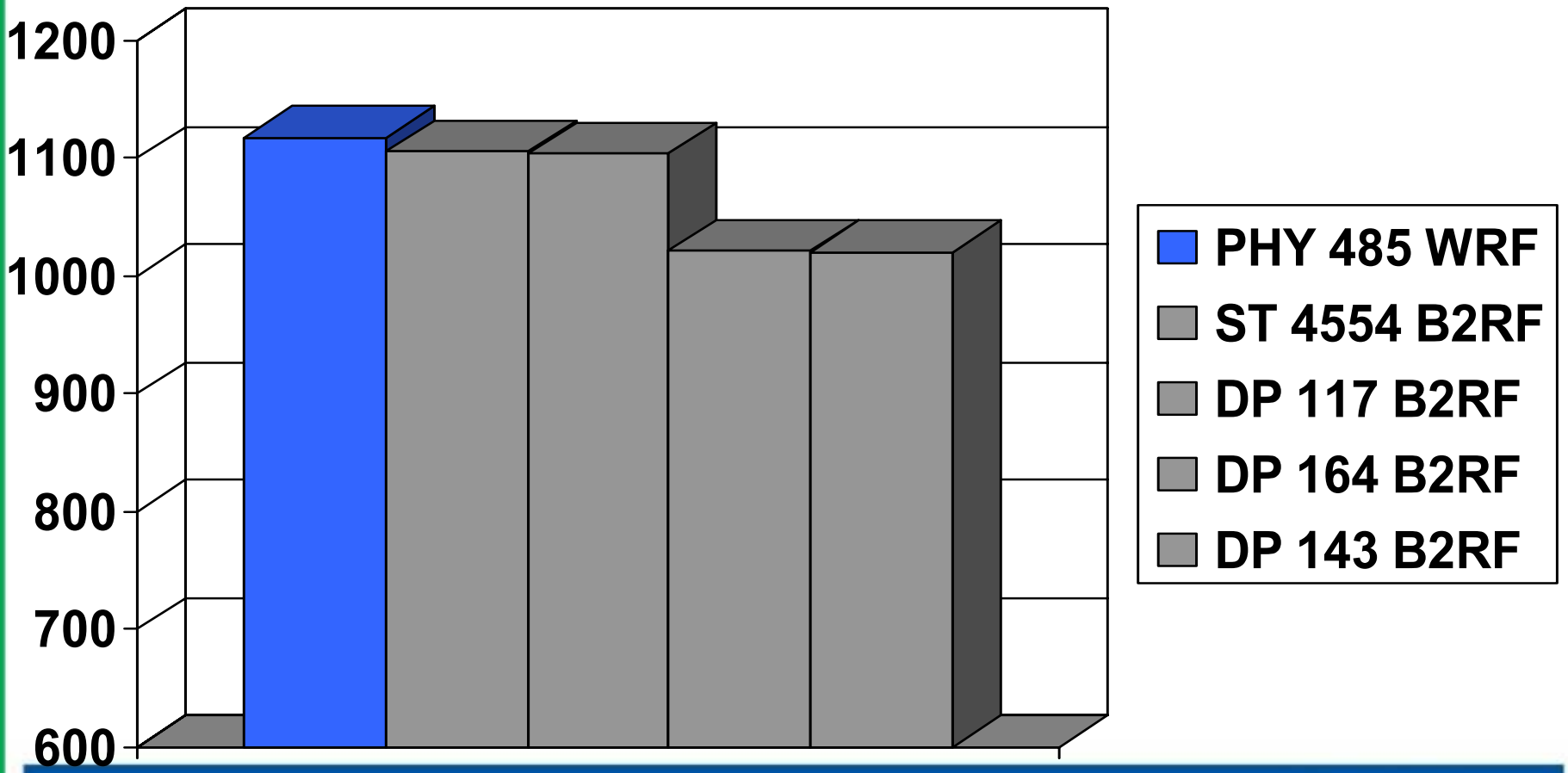
# Performance of PHY 485 WRF as Compared to Two Competitive Varieties in Available 2005 – 2007 University OVTs in the Mid-South




Based on 48 trials in which all varieties were included

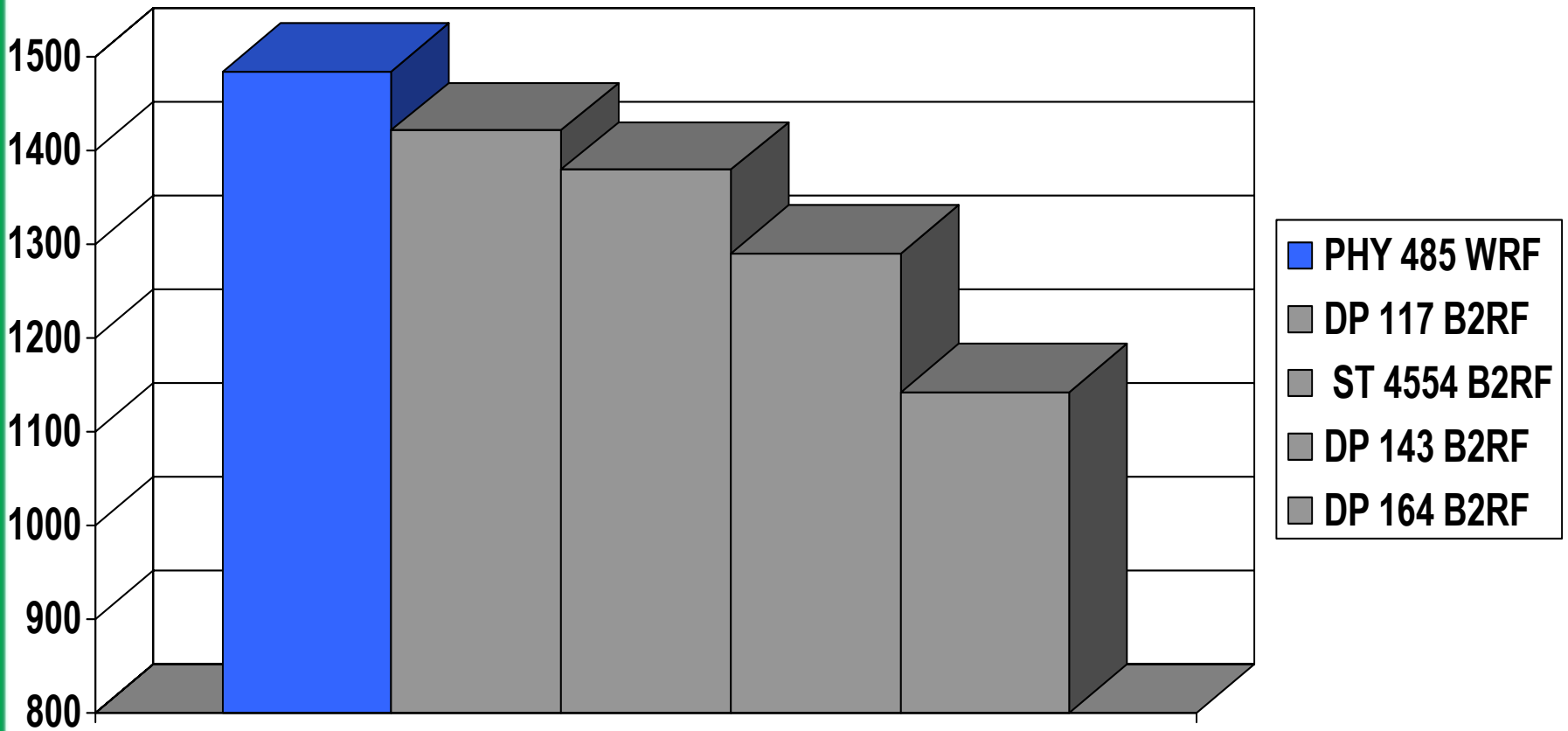
Data as of 12-15-07

# Preliminary 2 year average for 5 Stacked Roundup Ready Flex Cotton Varieties averaged across all locations. LSU AgCenter 2006 - 2007



# 2007 LSU AgCenter Madison Parish Core Flex Variety Trial - Soil Type – Clay, Non-Irrigated

**NOTE: DP 555 BG/RR was as a comparison in the same field yielded 978 lb lint/acre.**



# BOTTOM LINE ON DAS AND PHYTOGEN

- Choice in germplasm
- Choice in technology
- Proven varieties

- WideStrike is ***Dow AgroSciences*** technology….