

Top 3 Input Costs for Cotton

• 1. Fuel and Fertilizer

• 2. Seed/Technology Fees

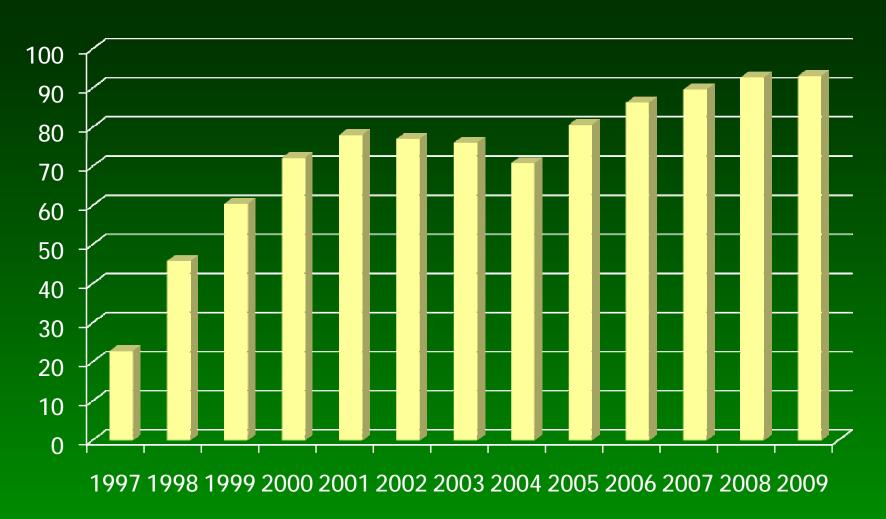




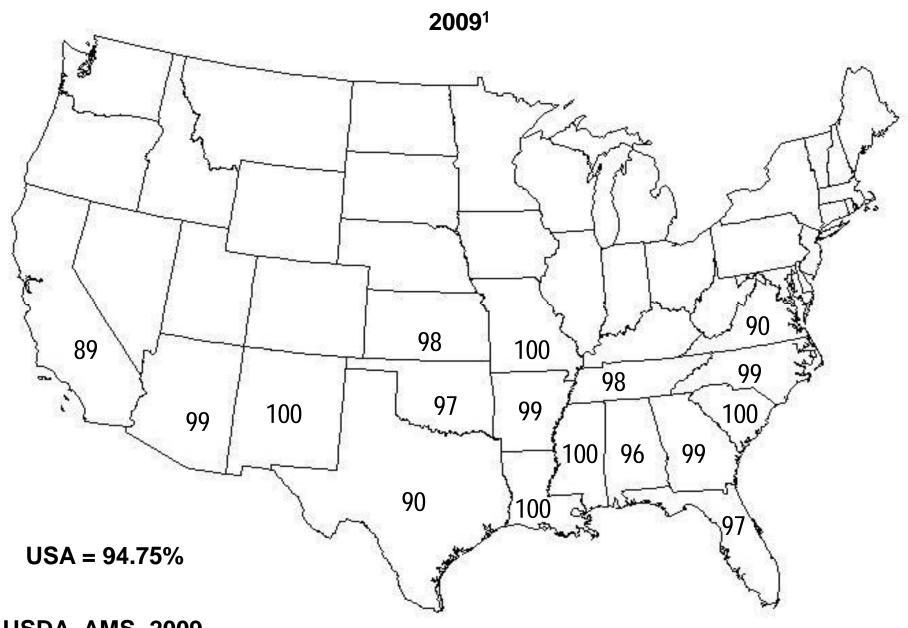




US Transgenic Cotton Acreage

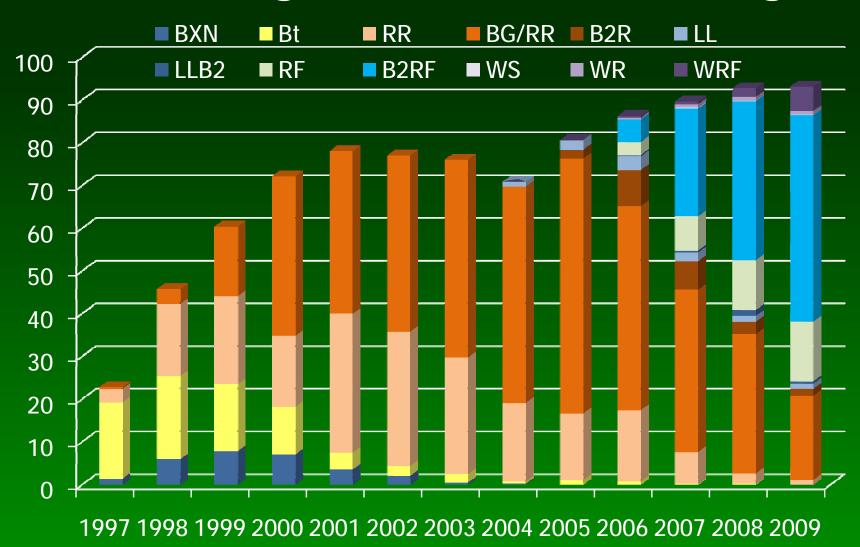


Percent of cotton acreage planted to transgenic varieties

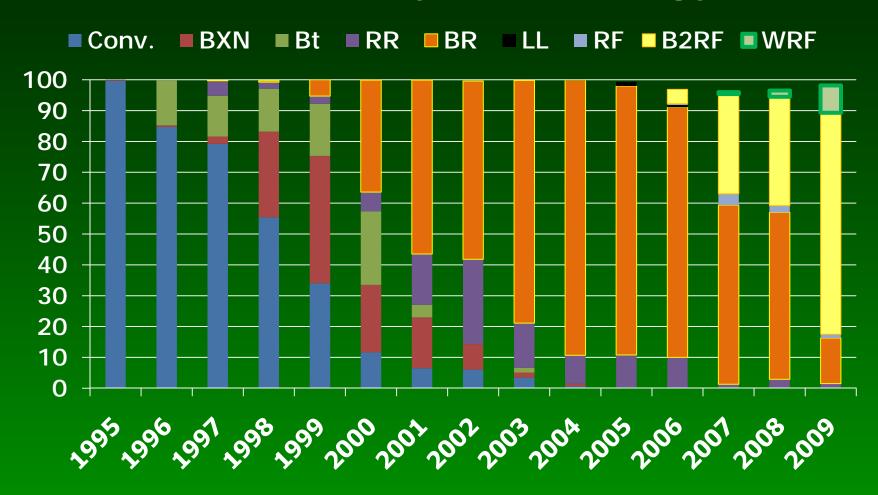


¹USDA, AMS. 2009.

US Transgenic Cotton Acreage

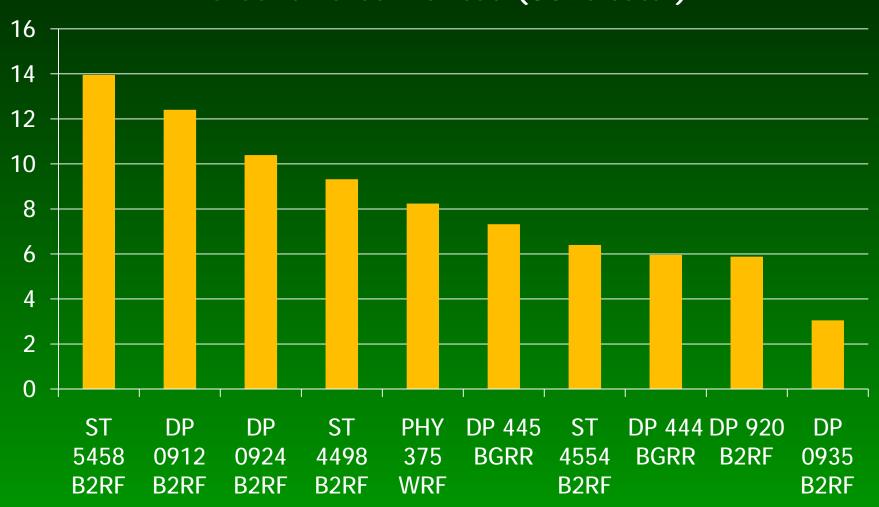


Percent Varieties Planted in Arkansas by Technology



Varieties Planted In Arkansas USDA-AMS 2009

Percent Acres Planted (83% total)



Questions

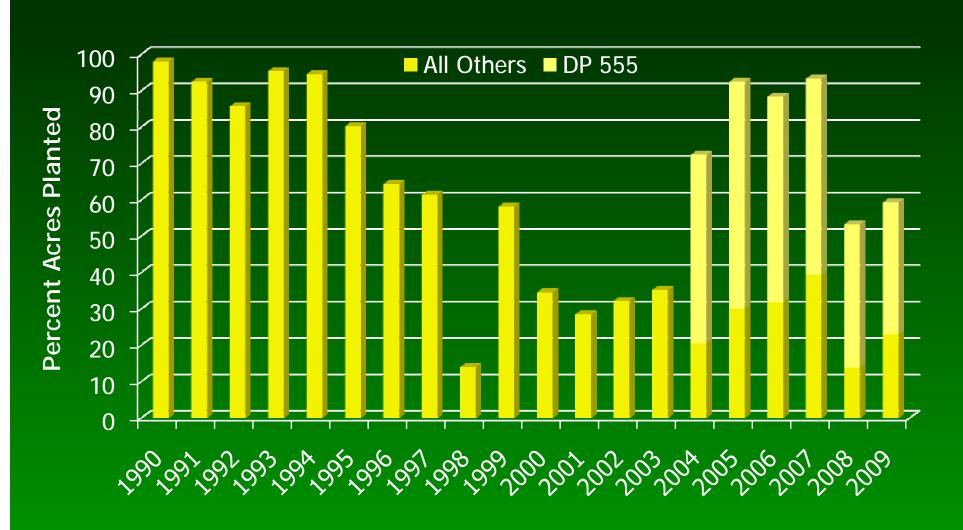
- How does yield performance actually relate to the varieties that are actually planted?
- Is yield the number one factor in variety selection for a grower?

Evaluating Variety Selection Trends

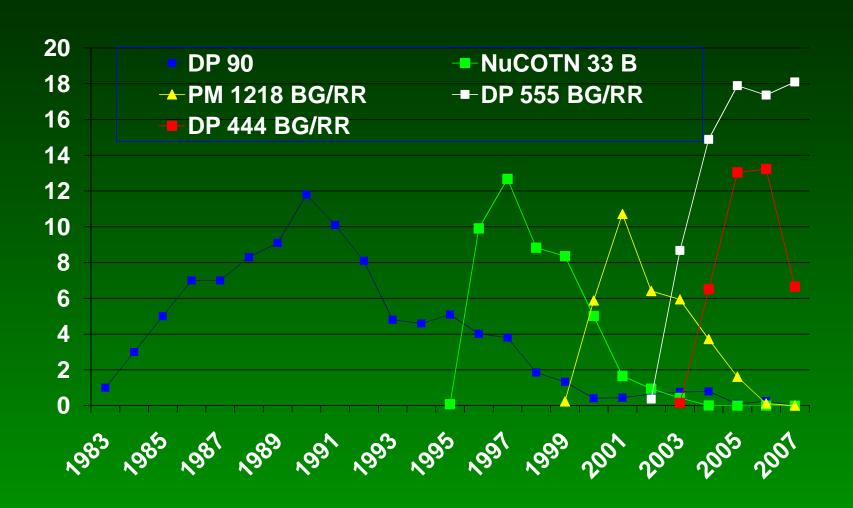
- University Variety Trial (OVT) data 1990 to 2008
 - Which varieties were either recommended or finished in the top 25% of the OVT? Where possible, data for a twoyear average were used. In limited cases, one-year data were all that was available.
 - In each year, which varieties did a producer have a good reason to choose, based on the previous year's OVT results?
- USDA-AMS Cotton Varieties Planted publication 1990-2009
 - Lists the percent acreage devoted to specific varieties in each state.

Louisiana

Varieties planted that were in the top 25% of the OVT or recommended



Speed to Market



BG/RR Planted 2009

(Percent of total acres)

State	DP 555 BG/RR	DP 445 BG/RR	DP 444 BG/RR	DP 515 BG/RR	Total BG/RR	Total B2RF
AR		7.32	5.96		13.28	75
LA	36.4	3.8		7.81	48	40
МО		3.14	1.2		4.3	81
MS	4.75	3.81		•	8.56	58
TN			8.58		8.58	84
AL	65		3	•	68	9
GA	82.5			•	82.5	7
NC	6.3		•	•	6.3	70
SC	31				36	48
TX			•	•	•	40

USDA-AMS. Top Ten Cotton Varieties Planted 2009 Crop.

Is there a preferred trait package?



- The ability to control Palmer amaranth could drive variety selection.
- Over-the-top herbicide systems will continue to rule.
- Insect traits will continue to be in demand in the Mid-South
- Future technology??

What is the outlook for 2010 and beyond for variety selection?

- Is there a dominant variety?
- Is there a preferred trait package?
- How much influence will convenience have in variety selection?

Convenience vs. Cost

- More convenient technology has almost always been readily adopted, even with high cost.
 - Staple in the mid-1990s first OT broadleaf herbicide
 - Bollgard cotton despite initial variety performance
 - RR cotton despite variety initial performance
 - Seed treatment insecticides and fungicides despite shorter residuals and a likelihood of more early sprays

IT ALL BEGINS WITH THE SEED

Value Shifts Continue

- No longer just a seed...
- Planting unit
 - Technology
 - Vigor
 - Protection
 - Fiber Quality
 - Additional Traits
- \$\$FRONT END LOADED!!

How much does it cost to plant?

- 2000
 - Seed cost \$50-80/bag
 - Tech fee ~\$40/a
 - IF insecticide \$8/a
 - IF fungicide \$12/a
- \$70 (before labor and fuel)

- 2010
 - Seed cost \$120-140/bag
 - Tech fee ~\$65/a
 - Seed Treatment -~\$25/a
- \$115 (before fuel and labor)
- 64% increase

Costs of Seed Technology

- Focus is usually on tech fees... But, what about the rest of the seed package?
 - The seed is the delivery mechanism for
 - Genetics
 - Traits and Trait Packages
 - Insecticides
 - Fungicides
 - Nematicides

Do You Have a Choice?

Cost of Seed Technology

	Seed	Chemicals	
Percent Increase from 2003 to 2008	108%	12%	
	Percent of Total Operating Cost		
2003	13%	26%	
2008	18%	20%	
Change	+5%	-6%	

Source: National Cotton Council estimated costs and returns for Mississippi Delta Region.

Arkansas Crop Budgets - 2009

www.aragriculture.org/farmplanning/budgets/default.asp

- Cost of Technology
 - North Arkansas
 - B2RF \$56.24
 - BGRR- \$41.93
 - Flex \$43.76
 - B2LL \$50.40
 - South Arkansas
 - B2RF \$69.68
 - BGRR- \$54.20
 - Flex \$48.00
 - B2LL \$56.40
- \$15 20/A more to add 1sd/ft





2010 Choices?



IN 2010 THE GAME CHANGES for the Mid-South and S.E.

FLEX ONLY or Stacked with

BG2

Widestrike

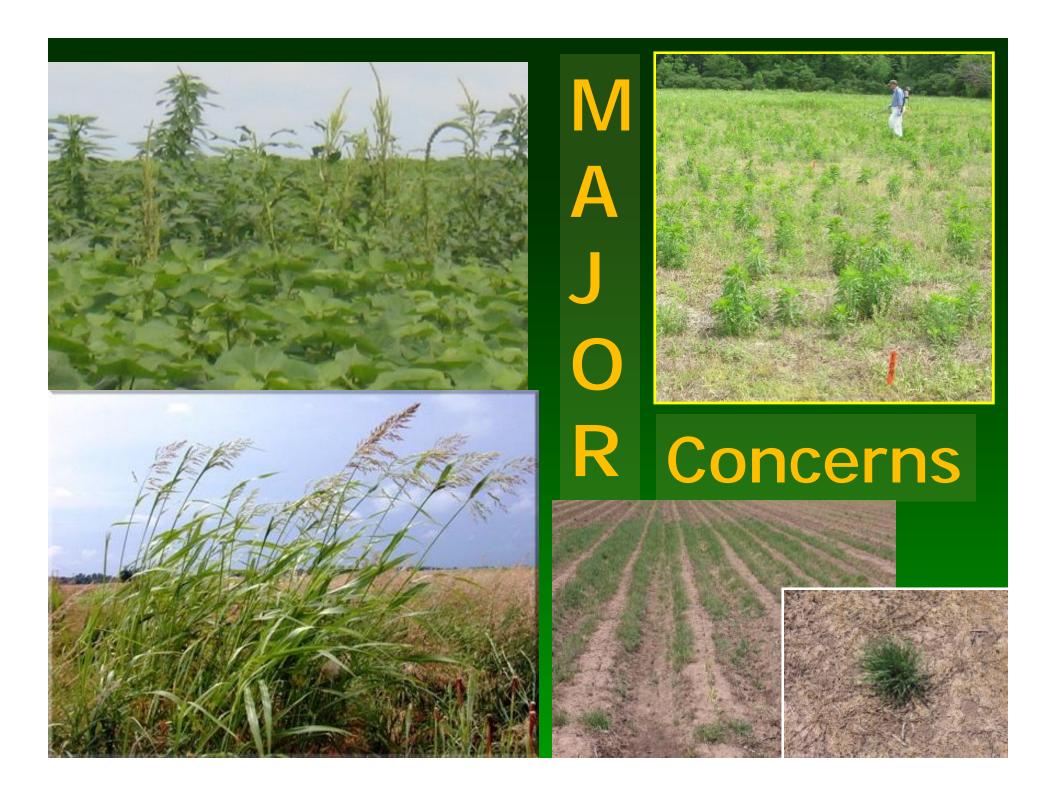
Liberty Link Stacked with

BG2

1.297 million acres could switch to something other than the standard BG/RR

\$ 170/A by 2 leaf





Conventional Line in 2009 Strip Test –Tom Barber at Biscoe (Jody Nail farm)

Line	Seedcotton yield (lb/a)	Turnout (%)	Lint Yield/A
AR 0102-48	3240	38.9	1260
AR 9803-23-04	3280	38.7	1241
DP 174 RF	2996	39.2	1174
LA 1110035 R5	2943	35.2	1035
LA 1110017	2775	36.2	1004
PHY 315 RF	2764	38.9	1075
AR 9803-17-04	2715	36.9	1001
CT 210	2672	35.5	948
Except for DP 174RF a lines and seed have no			

Conventional Line in 2009 Strip Test –Tom Barber at Biscoe (Jody Nail farm)

Line	Mic	Staple	Strength	Uniformity	
AR 9803-23-04	4	38	29.9	82.5	
AR 0102-48	4.6	42	32.8	83.8	
DP 174 RF	3.8	38	28	83.1	
LA 1110035 R5	4	40	31.9	84.7	
LA 1110017	4.1	39	33.3	84	
PHY 315 RF	3.9	37	29.1	81.8	
AR 9803-17-04	4.4	38	29.3	83.2	
CT 210	4.3	37	31.7	82.9	
Except for DP 174RF and PHY 315RF, all are experimental lines and seed have not been offered for sale.					



We Are High Volume Agriculture

- 1945 15 labor-hours required to produce 100 pounds of lint cotton.
- 1965- 5 labor-hours.
- 1975 2-3 labor-hours.
- 1985 1.5 to 2 labor-hours.
- Today it requires less than 30 minutes to produce 100 pounds of lint cotton.

Questions?

