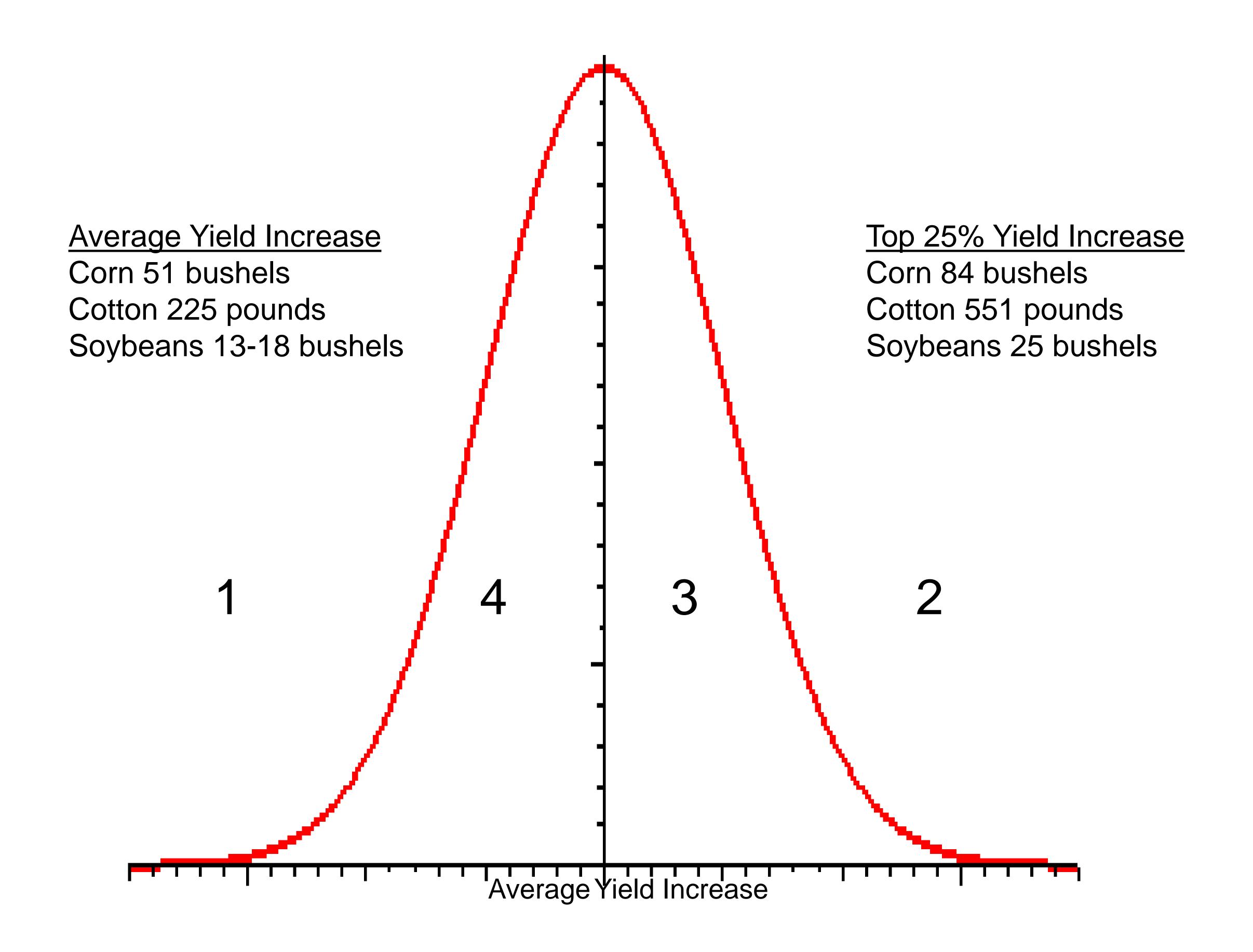




# Non Cost Considerations Management

- Irrigation is not a substitute for poor management.
- High level management is needed for success.
- Stabilize yields & income
- Benefit marketing plan
- Crop Insurance
- Timing and scheduling decisions often make the difference in the success of a system.





Extension

Estimated
Energy Cost
West Tennessee
Per Inch

Fuel Source Cost Per Inch

Electricity \$3.25 - \$7.00

Diesel \$4.25 - \$8.00

Includes maintenance cost of

Electricity - 3%

Diesel- 15%



# Average Scenario

- 130 acre Center Pivot
- \$952 per acre investment
- \$162 per acre payment (7 yrs. @ 4.5%)
- \$85 per acre over the life of the system.



## Partial Budget – Corn- Payment

Per Acre

Added Revenue <u>\$255 (51 bu \*\$5)</u>

Reduced expenses +\_\_\_\_\_

Total Credits \$255

Added Expenses \$247 (\$162+\$50+35)

Reduced Revenue +\$2

Total Debits \$249

Difference (Change in Net Income) \$ 6

Difference at top 25% yield \$171



## Partial Budget – Corn- Life

Per Acre

Added Revenue <u>\$255 (51 bu \*\$5)</u>

Reduced expenses +\_\_\_\_\_

Total Credits \$255

Added Expenses \$170 (\$85+\$50+35)

Reduced Revenue +\$2

Total Debits \$172

Difference (Change in Net Income) \$ 83

Difference at Top 25% yield \$248



# Small Acreage Scenario

- 45 acre Center Pivot
- \$1627 per acre investment
- \$276 per acre payment (7 yrs. @ 4.5%)
- \$140 per acre over the life of the system.



# Partial Budget – Corn- Payment Small Acreage

Per Acre

Added Revenue <u>\$255 (51 bu \*\$5)</u>

Reduced expenses +\_\_\_\_\_

Total Credits \$255

Added Expenses \$361 (\$276+\$50+35)

Reduced Revenue +\$2

Total Debits \$363

Difference (Change in Net Income) (\$106)

Difference at top 25% yield \$ 57



# Partial Budget – Corn- Life Small Acreage

Per Acre

Added Revenue <u>\$255 (51 bu \*\$5)</u>

Reduced expenses +\_\_\_\_\_

Total Credits \$255

Added Expenses \$170 (\$140+\$50+35)

Reduced Revenue +\$2

Total Debits \$227

Difference (Change in Net Income) (\$\frac{\$28}{}

Difference at Top 25% yield \$193



# Crop Selection Under a Pivot

- What makes the most profit
- Rotational needs
- Scheduling & management
  - Crop moisture needs
  - Management of the crop
  - One crop vs. several
- Crop Insurance





# Crop Comparison-2012

Per Acre Returns Above V.C. & IRR F.C.

	NI	IR-Life	IR-Payment
Wheat/Soybeans	\$324	\$ 419	\$342
NI60/28			
IR60/45			
Price \$6.61/\$12.70			
Corn	\$394	\$ 485	\$408
NI125			
IR176			
Price \$5.81			
Soybeans	\$292	\$ 374	\$297
NI40			
IR56			
Price \$12.70			
Cotton	\$330	\$ 422	\$345
NI 850 lbs.			
IR 1075 lbs.			
Price .95 lb.			



Irrigation Fixed Cost of \$85 acre based on a \$952 per acre investment.

#### **Extension**

# Shared Cost Approach on Leased Land

- Desire Win-Win for Landowner & Producer
- May Require a More Equitable Share
- Split Irrigation Cost as Crop Share
- 50 50 Split of Irrigation Cost
  - Share income as previously structured
- Structure Written Lease to Spell Out Arrangement



## Summary & Observations

- Management is key to success.
- Some irrigation systems may not be feasible.
  - Well cost
  - Acres irrigated
- Long Run Irrigation looks profitable.
- Short Run May not completely cash flow.
- Can reduce production risk; stabilize income.
- Benefit marketing plan.
- Crop Insurance
- Can work for landowner and producer.
- Irrigation is a management tool that can enhance profitability.