

Estimating 2007 Costs of Production, Cotton
Southeast/Central Boll Weevil Eradication Zone, Non-Irrigated, 8 Row,
Stale Seedbed, Roundup Ready
AG-1027-12-06

Robert Hogan, Jr.
Extension
Economist
- Farm
Management

H. Scott Stiles
Extension
Economist - Risk
Management

Frank Groves
Research
Verification
Coordinator

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|--------------------------|-------|---------|----------|---------|-----------|
| | | dollars | | dollars | |
| DIRECT EXPENSES | | | | | |
| HARVEST AIDS | | | | | |
| CottonQuik | pt | 3.27 | 3.0000 | 9.83 | _____ |
| Dropp 50 WP | lb | 40.75 | 0.1000 | 4.08 | _____ |
| FERTILIZERS | | | | | |
| 0-60-120-10-1 | acre | 45.56 | 1.0000 | 45.56 | _____ |
| Urea, Solid (46% N) | lb | 0.17 | 174.0000 | 30.45 | _____ |
| HERBICIDES | | | | | |
| Glyphosate Plus | pt | 1.97 | 5.2000 | 10.24 | _____ |
| Clarity | pt | 11.00 | 0.5000 | 5.50 | _____ |
| Gramoxone Extra | pt | 4.86 | 0.2500 | 1.22 | _____ |
| Dual Magnum | pt | 12.66 | 1.0000 | 12.66 | _____ |
| Caparol 4L | pt | 3.71 | 0.1500 | 0.56 | _____ |
| Direx 80 DF | lb | 3.89 | 0.3300 | 1.28 | _____ |
| INSECTICIDES | | | | | |
| Centric 40WG | oz | 4.60 | 2.0000 | 9.20 | _____ |
| Trimax | oz | 4.47 | 1.5000 | 6.72 | _____ |
| Orthene 90S | lb | 8.59 | 1.0000 | 8.59 | _____ |
| Bidrin 8L | oz | 0.76 | 16.0000 | 12.31 | _____ |
| Pyrethroid | ac | 6.00 | 2.0000 | 12.00 | _____ |
| CROP SEED | | | | | |
| Cottonseed RR | thous | 0.42 | 45.0000 | 18.90 | _____ |
| Cruiser Seed Trmnt | thous | 0.20 | 45.0000 | 9.00 | _____ |
| TECHNOLOGY FEE | | | | | |
| RR Cotton Tech Fee S | thous | 0.61 | 45.0000 | 27.59 | _____ |
| Eradication Fee SE/C | ac | 12.00 | 1.0000 | 12.00 | _____ |
| CUSTOM HIRE | | | | | |
| Cstm Ap Air - 3 gal | appl | 5.10 | 1.0000 | 5.10 | _____ |
| Cstm Ap Air - 5 gal | appl | 5.50 | 8.0000 | 44.00 | _____ |
| Insect Scouting | acre | 10.00 | 1.0000 | 10.00 | _____ |
| OPERATOR LABOR | | | | | |
| Tractors | hour | 9.00 | 1.2652 | 11.39 | _____ |
| Self-Propelled | hour | 9.00 | 0.3150 | 2.84 | _____ |
| HAND LABOR | | | | | |
| Implements | hour | 7.80 | 0.3720 | 2.90 | _____ |
| Self-Propelled | hour | 7.80 | 0.2864 | 2.24 | _____ |
| DIESEL FUEL | | | | | |
| Tractors | gal | 2.22 | 12.2320 | 27.16 | _____ |
| Self-Propelled | gal | 2.22 | 3.9732 | 8.81 | _____ |
| REPAIR & MAINTENANCE | | | | | |
| Implements | acre | 7.94 | 1.0000 | 7.94 | _____ |
| Tractors | acre | 4.71 | 1.0000 | 4.71 | _____ |
| Self-Propelled | acre | 9.94 | 1.0000 | 9.94 | _____ |
| INTEREST ON OP. CAP. | acre | 11.31 | 1.0000 | 11.31 | _____ |
| TOTAL DIRECT EXPENSES | | | | 386.06 | _____ |
| FIXED EXPENSES | | | | | |
| Implements | acre | 19.06 | 1.0000 | 19.06 | _____ |
| Tractors | acre | 36.31 | 1.0000 | 36.31 | _____ |
| Self-Propelled | acre | 49.01 | 1.0000 | 49.01 | _____ |
| TOTAL FIXED EXPENSES | | | | 104.38 | _____ |
| TOTAL SPECIFIED EXPENSES | | | | 490.44 | _____ |

Table 2. Estimated resource use and costs for field operations, per acre AG-1027 SE/Cen, NI, 8R, SS, RR, University of Arkansas

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | POWER UNIT SIZE | PERF RATE | TIMES OVER | MTH | POWER UNIT COST | | EQUIPMENT COST | | ALLOC LABOR | | OPERATING/DURABLE INPUT | | | TOTAL COST |
|-------------------------------|---------------|--------------------|--------------|---------------|-----|-------------------|-------|----------------|-------|-------------|------|-------------------------|-------|-------|---------------|
| | | | | | | DIRECT | FIXED | DIRECT | FIXED | HOURS | COST | AMOUNT | PRICE | COST | |
| | | | | | | -----dollars----- | | | | dollars | | -----dollars----- | | | |
| Stalk Shredder-Flail | 20' | MFWD 150 | 0.082 | 1.00 | Oct | 1.67 | 1.92 | 1.29 | 0.98 | 0.08 | 0.74 | | | | 6.60 |
| TerraTill Bed w/roll | 4R-38 | MFWD 225 | 0.160 | 1.00 | Oct | 4.78 | 4.98 | 0.66 | 1.47 | 0.16 | 1.45 | | | | 13.34 |
| Fert Appl - T & O | 8r27 | MFWD 170 | 0.050 | 1.00 | Nov | 1.15 | 1.38 | | | 0.05 | 0.45 | | | | 2.98 |
| 0-60-120-10-1 | acre | | | | | | | | | | | 1.0000 | 45.56 | 45.56 | 45.56 |
| Field Cultivate | 32' | MFWD 190 | 0.046 | 1.00 | Nov | 1.19 | 1.36 | 0.31 | 1.64 | 0.04 | 0.42 | | | | 4.92 |
| Disk Bed (Hipper)Fld | 8R-38 | MFWD 190 | 0.074 | 1.00 | Nov | 1.89 | 2.16 | 0.29 | 0.95 | 0.07 | 0.67 | | | | 5.96 |
| Sprayer(600-750Gal) | 60' | | 0.017 | 1.00 | Feb | 0.53 | 1.05 | | | 0.02 | 0.23 | | | | 1.81 |
| Glyphosate Plus | pt | | | | | | | | | | | 1.5000 | 1.97 | 2.96 | 2.96 |
| Clarity | pt | | | | | | | | | | | 0.5000 | 11.00 | 5.50 | 5.50 |
| Sprayer(600-750Gal) | 60' | | 0.017 | 0.25 | Apr | 0.13 | 0.26 | | | 0.00 | 0.06 | | | | 0.45 |
| Gramoxone Extra | pt | | | | | | | | | | | 0.2500 | 4.86 | 1.22 | 1.22 |
| Disk Bed (Hipper)Fld | 8R-38 | MFWD 190 | 0.074 | 1.00 | Apr | 1.89 | 2.16 | 0.29 | 0.95 | 0.07 | 0.67 | | | | 5.96 |
| Row Cond (Harrow) | 26' | MFWD 190 | 0.057 | 1.00 | Apr | 1.47 | 1.67 | 0.14 | 0.72 | 0.05 | 0.52 | | | | 4.52 |
| Plant - Folding | 8R-40 | MFWD 170 | 0.074 | 1.00 | May | 1.72 | 2.06 | 0.86 | 2.07 | 0.14 | 1.25 | | | | 7.96 |
| Cottonseed RR | thous | | | | | | | | | | | 45.0000 | 0.42 | 18.90 | 18.90 |
| RR Cotton Tech Fee | S thous | | | | | | | | | | | 45.0000 | 0.61 | 27.59 | 27.59 |
| Cruiser Seed Trmnt | thous | | | | | | | | | | | 45.0000 | 0.20 | 9.00 | 9.00 |
| Fert Appl - T & O | 8r27 | MFWD 170 | 0.050 | 1.00 | May | 1.15 | 1.38 | | | 0.05 | 0.45 | | | | 2.98 |
| Urea, Solid (46% N) | lb | | | | | | | | | | | 174.0000 | 0.17 | 30.45 | 30.45 |
| Sprayer(600-750Gal) | 60' | | 0.017 | 1.00 | May | 0.53 | 1.05 | | | 0.02 | 0.23 | | | | 1.81 |
| Dual Magnum | pt | | | | | | | | | | | 1.0000 | 12.66 | 12.66 | 12.66 |
| Glyphosate Plus | pt | | | | | | | | | | | 1.0000 | 1.97 | 1.97 | 1.97 |
| Sprayer(600-750Gal) | 60' | | 0.017 | 1.00 | Jun | 0.53 | 1.05 | | | 0.02 | 0.23 | | | | 1.81 |
| Glyphosate Plus | pt | | | | | | | | | | | 1.5000 | 1.97 | 2.96 | 2.96 |
| Spray (Band) | 27' Fold | MFWD 170 | 0.062 | 0.20 | Jun | 0.28 | 0.35 | 0.03 | 0.05 | 0.01 | 0.16 | | | | 0.87 |
| Caparol 4L | pt | | | | | | | | | | | 0.1500 | 3.71 | 0.56 | 0.56 |
| Glyphosate Plus | pt | | | | | | | | | | | 0.2000 | 1.97 | 0.39 | 0.39 |
| Cstm Ap Air - 3 gal | appl | | | 1.00 | Jun | | | | | | | 1.0000 | 5.10 | 5.10 | 5.10 |
| Centric 40WG | oz | | | | | | | | | | | 2.0000 | 4.60 | 9.20 | 9.20 |
| Spray (Direct/Layby) | 8R-38 | MFWD 170 | 0.066 | 1.00 | Jun | 1.54 | 1.85 | 0.25 | 0.38 | 0.10 | 0.86 | | | | 4.88 |
| Direx 80 DF | lb | | | | | | | | | | | 0.3300 | 3.89 | 1.28 | 1.28 |
| Glyphosate Plus | pt | | | | | | | | | | | 1.0000 | 1.97 | 1.97 | 1.97 |
| Cstm Ap Air - 5 gal | appl | | | 1.00 | Jul | | | | | | | 1.0000 | 5.50 | 5.50 | 5.50 |
| Trimax | oz | | | | | | | | | | | 1.5000 | 4.47 | 6.72 | 6.72 |
| Insect Scouting | acre | | | 1.00 | Jul | | | | | | | 1.0000 | 10.00 | 10.00 | 10.00 |
| Cstm Ap Air - 5 gal | appl | | | 1.00 | Jul | | | | | | | 1.0000 | 5.50 | 5.50 | 5.50 |
| Orthene 90S | lb | | | | | | | | | | | 0.5000 | 8.59 | 4.30 | 4.30 |
| Cstm Ap Air - 5 gal | appl | | | 1.00 | Jul | | | | | | | 1.0000 | 5.50 | 5.50 | 5.50 |
| Bidrin 8L | oz | | | | | | | | | | | 8.0000 | 0.76 | 6.16 | 6.16 |
| Eradication Fee | SE/C ac | | | 1.00 | Jul | | | | | | | 1.0000 | 12.00 | 12.00 | 12.00 |
| Cstm Ap Air - 5 gal | appl | | | 1.00 | Jul | | | | | | | 1.0000 | 5.50 | 5.50 | 5.50 |
| Orthene 90S | lb | | | | | | | | | | | 0.5000 | 8.59 | 4.30 | 4.30 |
| Cstm Ap Air - 5 gal | appl | | | 1.00 | Jul | | | | | | | 1.0000 | 5.50 | 5.50 | 5.50 |
| Pyrethroid | ac | | | | | | | | | | | 1.0000 | 6.00 | 6.00 | 6.00 |
| Cstm Ap Air - 5 gal | appl | | | 1.00 | Aug | | | | | | | 1.0000 | 5.50 | 5.50 | 5.50 |
| Bidrin 8L | oz | | | | | | | | | | | 8.0000 | 0.76 | 6.16 | 6.16 |
| Cstm Ap Air - 5 gal | appl | | | 1.00 | Aug | | | | | | | 1.0000 | 5.50 | 5.50 | 5.50 |
| Pyrethroid | ac | | | | | | | | | | | 1.0000 | 6.00 | 6.00 | 6.00 |
| Cstm Ap Air - 5 gal | appl | | | 1.00 | Sep | | | | | | | 1.0000 | 5.50 | 5.50 | 5.50 |
| CottonQuik | pt | | | | | | | | | | | 3.0000 | 3.27 | 9.83 | 9.83 |

| | | | | | | | | | | | | | | | | |
|-------------------------------|------------|------|-----|-------|------|-----|-------|-------|-------|-------|-------|--------|-------|------|--------|--------|
| Dropp 50 WP | 1b | | | | | | | | | | | 0.1000 | 40.75 | 4.08 | 4.08 | |
| Boll Buggy-1st pick | 4R-38(325) | MFWD | 190 | 0.257 | 1.00 | Oct | 6.57 | 7.52 | 1.65 | 4.25 | 0.25 | 2.32 | | | 22.31 | |
| Cotton Picker-1st-BB | 4R-38(255) | | | 0.257 | | | 17.03 | 45.60 | | | 0.51 | 4.33 | | | 66.96 | |
| Module Builder-1st | 4R-38(255) | MFWD | 190 | 0.257 | 1.00 | Oct | 6.57 | 7.52 | 2.17 | 5.60 | 0.51 | 4.33 | | | 26.19 | |
| | | | | | | | ----- | ----- | ----- | ----- | ----- | ----- | | | ----- | |
| TOTALS | | | | | | | 50.62 | 85.32 | 7.94 | 19.06 | 2.23 | 19.37 | | | 296.82 | 479.13 |
| INTEREST ON OPERATING CAPITAL | | | | | | | | | | | | | | | | 11.31 |
| UNALLOCATED LABOR | | | | | | | | | | | | | | | | 0.00 |
| TOTAL SPECIFIED COST | | | | | | | | | | | | | | | | 490.44 |

Information presented in this document is prepared solely as a general guide and is not intended to recognize or predict the costs and returns from any one particular farm operation. The mention of any commercial product in this analysis does not imply its endorsement by the University of Arkansas Cooperative Extension Service over other products not named, nor does the omission imply that they are not satisfactory. This budget does not include costs for land, overhead, or management.

Table 3. Alternative cotton production practices and which cotton budgets contain them.

| Production Practice | Cost per acre^a | Budget No. |
|---|--|---|
| Bud worm/boll worm control | | |
| Lannate (1 gal./ 4 acres) | \$19.23 | None |
| Larvin (1 gal./ 3.5 acres) | \$22.93 | None |
| Tracer (1 gal./ 64 acres) | \$18.41 | None |
| Tracer (1/2 rate) + Pyretheroid | \$18.19 | None |
| Defoliation for Irrigated Cotton | \$27.79 | All budgets except: AG-1027, 1038, and 1048 |
| Defoliation for Dryland Cotton | \$19.55 | AG-1027, 1038, and 1048 |
| Cruiser seed treatment | \$9.31 | AG-1027, 1028, 1029, 1030, 1032, 1033, 1034, 1035, 1036, 1038, 1039, 1040, 1042, 1043, 1044, 1045, 1047, 1048, 1049, 1050, 1051, 1053, 1054, 1055 |
| Gaucho seed treatment | \$9.31 | AG-1031 and 1041 |
| Avicta Complete Pak seed treatment | \$21.60 | None |
| Harvest 4 row harvester, first pick ^b | \$66.96 | AG-1027, 1028, 1029, 1030, 1038, 1047, and 1054 |
| 4 row harvester, second pick ^b | \$56.73 | None |
| 6 row harvester, (38" rows), first pick ^b | \$66.39 | All budgets except: AG-1027, 1028, 1029, 1030, 1038, 1047, and 10542 |
| 6 row harvester, (38" rows), second pick ^b | \$56.23 | None |
| Irrigation, furrow (3 ac. in) | \$8.35 per app. Plus a fixed cost of \$25.32 | AG-1030, 1031, 1033, 1034, 1035, 1036, 1037, 1040, 1041, 1042, 1043, 1044, 1048, 1049, and 1050 |
| Irrigation, center pivot (1 ac. in) | \$5.75 per app. Plus a fixed cost of \$69.24 | AG-1028, 1029, 1032, 1039, 1045, 1046, 1051, 1052, 1053, 1054, and 1055 |
| Irrigation, furrow, stationary relift (3 ac. in) | \$4.63 per app. Plus a fixed cost of \$24.79 | None |
| Module Builder | \$26.19 | All |
| Row cultivate plus directed spray | \$6.42 + material | None |
| Staple herbicide banded application (0.6 oz) | \$14.40 | None |
| Prowl, and Incorporate (1.2 pints) | \$8.55 | None |
| Treflan, Incorporated application (0.75 pints) | \$9.16 | None |
| Treflan and Incorporate (1.5 pints) | \$10.98 | None |

^a Machinery costs per acre assume that each machine is fully utilized on the farm.

^bThis harvest cost includes the direct and fixed costs of the cotton picker only.

The authors gratefully acknowledge the contributions of Ken Smith, Glenn Studebaker, and Gus Lorenz in the construction of the 2007 cotton budgets. For additional information on cotton economics contact Rob Hogan at the Northeast Research and Extension Center 870-526-2199 extension 108.

View and print all of the Arkansas crop budgets at http://www.uaex.edu/depts/ag_economics/crop_budgets.htm



**Estimating 2007 Costs of Production, Cotton
Southeast/Central Boll Weevil Eradication Zone, Center Pivot, 8 Row,
Conventional Till, Roundup Ready
AG-1028-12-06**

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|--------------------------|-------|---------|----------|---------|-----------|
| | | dollars | | dollars | |
| DIRECT EXPENSES | | | | | |
| HARVEST AIDS | | | | | |
| Ethephon | pint | 3.69 | 2.0000 | 7.39 | _____ |
| Def 6 | pt | 5.32 | 1.1600 | 6.17 | _____ |
| Dropp 50 WP | lb | 40.75 | 0.1000 | 4.08 | _____ |
| FERTILIZERS | | | | | |
| 0-60-120-10-1 | acre | 45.56 | 1.0000 | 45.56 | _____ |
| Urea, Solid (46% N) | lb | 0.17 | 218.0000 | 38.15 | _____ |
| FUNGICIDES | | | | | |
| Terraclor 15 G | lb | 1.32 | 7.0000 | 9.24 | _____ |
| HERBICIDES | | | | | |
| Glyphosate Plus | pt | 1.97 | 6.1000 | 12.02 | _____ |
| Clarity | pt | 11.00 | 0.5000 | 5.50 | _____ |
| Gramoxone Extra | pt | 4.86 | 0.2500 | 1.22 | _____ |
| Cotoran 4L | pt | 4.79 | 1.6000 | 7.66 | _____ |
| Dual Magnum | pt | 12.66 | 1.0000 | 12.66 | _____ |
| Caparol 4L | pt | 3.71 | 0.7500 | 2.78 | _____ |
| Valor SX | lb | 65.50 | 0.0562 | 3.68 | _____ |
| INSECTICIDES | | | | | |
| Centric 40WG | oz | 4.60 | 2.0000 | 9.20 | _____ |
| Trimax | oz | 4.47 | 1.5000 | 6.72 | _____ |
| Orthene 90S | lb | 8.59 | 1.0000 | 8.59 | _____ |
| Bidrin 8L | oz | 0.76 | 16.0000 | 12.31 | _____ |
| Pyrethroid | ac | 6.00 | 2.0000 | 12.00 | _____ |
| CROP SEED | | | | | |
| Cottonseed RR | thous | 0.42 | 45.0000 | 18.90 | _____ |
| Cruiser Seed Trmnt | thous | 0.20 | 45.0000 | 9.00 | _____ |
| TECHNOLOGY FEE | | | | | |
| RR Cotton Tech Fee S | thous | 0.61 | 45.0000 | 27.59 | _____ |
| Eradication Fee SE/C | ac | 12.00 | 1.0000 | 12.00 | _____ |
| GROWTH REGULATORS | | | | | |
| Mepiquat Chloride | oz | 0.15 | 26.0000 | 4.06 | _____ |
| CUSTOM HIRE | | | | | |
| Cstm Ap Air - 3 gal | appl | 5.10 | 1.0000 | 5.10 | _____ |
| Cstm Ap Air - 5 gal | appl | 5.50 | 9.0000 | 49.50 | _____ |
| Insect Scouting | acre | 10.00 | 1.0000 | 10.00 | _____ |
| OPERATOR LABOR | | | | | |
| Tractors | hour | 9.00 | 1.3211 | 11.90 | _____ |
| Self-Propelled | hour | 9.00 | 0.3150 | 2.84 | _____ |
| IRRIGATION LABOR | | | | | |
| Center pivot Irr. | hour | 7.80 | 0.0568 | 0.42 | _____ |
| HAND LABOR | | | | | |
| Implements | hour | 7.80 | 0.3802 | 2.97 | _____ |
| Self-Propelled | hour | 7.80 | 0.2864 | 2.24 | _____ |
| DIESEL FUEL | | | | | |
| Tractors | gal | 2.22 | 12.5850 | 27.94 | _____ |
| Self-Propelled | gal | 2.22 | 3.9732 | 8.81 | _____ |
| Center pivot Irr. | gal | 2.22 | 14.0000 | 31.08 | _____ |
| REPAIR & MAINTENANCE | | | | | |
| Implements | acre | 9.15 | 1.0000 | 9.15 | _____ |
| Tractors | acre | 4.91 | 1.0000 | 4.91 | _____ |
| Self-Propelled | acre | 9.94 | 1.0000 | 9.94 | _____ |
| Center pivot Irr. | ac-in | 1.09 | 7.0000 | 7.70 | _____ |
| INTEREST ON OP. CAP. | acre | 13.05 | 1.0000 | 13.05 | _____ |
| TOTAL DIRECT EXPENSES | | | | 474.08 | _____ |
| FIXED EXPENSES | | | | | |
| Implements | acre | 21.95 | 1.0000 | 21.95 | _____ |
| Tractors | acre | 37.75 | 1.0000 | 37.75 | _____ |
| Self-Propelled | acre | 49.01 | 1.0000 | 49.01 | _____ |
| Center pivot Irr. | each | 9000.94 | 0.0076 | 69.24 | _____ |
| TOTAL FIXED EXPENSES | | | | 177.95 | _____ |
| TOTAL SPECIFIED EXPENSES | | | | 652.03 | _____ |

Robert Hogan, Jr.
Extension
Economist
- Farm
Management

H. Scott Stiles
Extension
Economist - Risk
Management

Frank Groves
Research
Verification
Coordinator

Table 2. Estimated resource use and costs for field operations, per acre AG-1028 SE, CP, 8R, Conv., RR, University of Arkansas

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | POWER UNIT SIZE | PERF RATE | TIMES OVER | MTH | POWER UNIT COST | | EQUIPMENT COST | | ALLOC LABOR | | OPERATING/DURABLE INPUT | | | TOTAL COST |
|-------------------------------|---------------|--------------------|--------------|---------------|-----|-------------------|-------|----------------|-------|-------------|------|-------------------------|-------|-------|---------------|
| | | | | | | DIRECT | FIXED | DIRECT | FIXED | HOURS | COST | AMOUNT | PRICE | COST | |
| | | | | | | -----dollars----- | | | | dollars | | -----dollars----- | | | |
| Stalk Shredder-Flail | 20' | MFWD 150 | 0.082 | 1.00 | Oct | 1.67 | 1.92 | 1.29 | 0.98 | 0.08 | 0.74 | | | | 6.60 |
| Heavy Disk | 27' | MFWD 190 | 0.075 | 1.00 | Oct | 1.93 | 2.21 | 0.75 | 1.99 | 0.07 | 0.68 | | | | 7.56 |
| Chisel Plow(Folding) | 24' | MFWD 190 | 0.076 | 1.00 | Oct | 1.95 | 2.23 | 0.61 | 1.36 | 0.07 | 0.69 | | | | 6.84 |
| Field Cultivate | 32' | MFWD 225 | 0.046 | 1.00 | Nov | 1.39 | 1.44 | 0.31 | 1.64 | 0.04 | 0.42 | | | | 5.20 |
| Fert Appl - T & O | 8r27 | MFWD 170 | 0.050 | 1.00 | Nov | 1.15 | 1.38 | | | 0.05 | 0.45 | | | | 2.98 |
| 0-60-120-10-1 | acre | | | | | | | | | | | 1.0000 | 45.56 | 45.56 | 45.56 |
| Disk Bed (Hipper)Fld | 8R-38 | MFWD 190 | 0.074 | 1.00 | Nov | 1.89 | 2.16 | 0.29 | 0.95 | 0.07 | 0.67 | | | | 5.96 |
| Sprayer(600-750Gal) | 60' | | 0.017 | 1.00 | Feb | 0.53 | 1.05 | | | 0.02 | 0.23 | | | | 1.81 |
| Glyphosate Plus | pt | | | | | | | | | | | 1.5000 | 1.97 | 2.96 | 2.96 |
| Clarity | pt | | | | | | | | | | | 0.5000 | 11.00 | 5.50 | 5.50 |
| Sprayer(600-750Gal) | 60' | | 0.017 | 0.25 | Apr | 0.13 | 0.26 | | | 0.00 | 0.06 | | | | 0.45 |
| Gramoxone Extra | pt | | | | | | | | | | | 0.2500 | 4.86 | 1.22 | 1.22 |
| Disk Bed (Hipper)Fld | 8R-38 | MFWD 190 | 0.074 | 1.00 | Apr | 1.89 | 2.16 | 0.29 | 0.95 | 0.07 | 0.67 | | | | 5.96 |
| Row Cond (Harrow) | 26' | MFWD 190 | 0.057 | 1.00 | Apr | 1.47 | 1.67 | 0.14 | 0.72 | 0.05 | 0.52 | | | | 4.52 |
| Plant & Pre Folding | 8R-40 | MFWD 190 | 0.076 | 1.00 | May | 1.95 | 2.23 | 1.15 | 2.76 | 0.15 | 1.29 | | | | 9.38 |
| Cottonseed RR | thous | | | | | | | | | | | 45.0000 | 0.42 | 18.90 | 18.90 |
| RR Cotton Tech Fee | S thous | | | | | | | | | | | 45.0000 | 0.61 | 27.59 | 27.59 |
| Cruiser Seed Trmnt | thous | | | | | | | | | | | 45.0000 | 0.20 | 9.00 | 9.00 |
| Terraclor 15 G | lb | | | | | | | | | | | 7.0000 | 1.32 | 9.24 | 9.24 |
| Cotoran 4L | pt | | | | | | | | | | | 1.6000 | 4.79 | 7.66 | 7.66 |
| Fert Appl - T & O | 8r27 | MFWD 170 | 0.050 | 1.00 | May | 1.15 | 1.38 | | | 0.05 | 0.45 | | | | 2.98 |
| Urea, Solid (46% N) | lb | | | | | | | | | | | 109.0000 | 0.17 | 19.08 | 19.08 |
| Sprayer(600-750Gal) | 60' | | 0.017 | 1.00 | May | 0.53 | 1.05 | | | 0.02 | 0.23 | | | | 1.81 |
| Glyphosate Plus | pt | | | | | | | | | | | 1.5000 | 1.97 | 2.96 | 2.96 |
| Dual Magnum | pt | | | | | | | | | | | 1.0000 | 12.66 | 12.66 | 12.66 |
| Sprayer(600-750Gal) | 60' | | 0.017 | 1.00 | Jun | 0.53 | 1.05 | | | 0.02 | 0.23 | | | | 1.81 |
| Glyphosate Plus | pt | | | | | | | | | | | 1.5000 | 1.97 | 2.96 | 2.96 |
| Fert Appl - T & O | 8r27 | MFWD 170 | 0.050 | 1.00 | Jun | 1.15 | 1.38 | | | 0.05 | 0.45 | | | | 2.98 |
| Urea, Solid (46% N) | lb | | | | | | | | | | | 109.0000 | 0.17 | 19.08 | 19.08 |
| Spray (Direct/Hood) | 8R-38 | MFWD 170 | 0.066 | 1.00 | Jun | 1.54 | 1.85 | 0.43 | 0.65 | 0.10 | 0.86 | | | | 5.33 |
| Caparol 4L | pt | | | | | | | | | | | 0.7500 | 3.71 | 2.78 | 2.78 |
| Glyphosate Plus | pt | | | | | | | | | | | 1.0000 | 1.97 | 1.97 | 1.97 |
| Cstm Ap Air - 3 gal | appl | | | 1.00 | Jun | | | | | | | 1.0000 | 5.10 | 5.10 | 5.10 |
| Centric 40WG | oz | | | | | | | | | | | 2.0000 | 4.60 | 9.20 | 9.20 |
| Mepiquat Chloride | oz | | | | | | | | | | | 4.0000 | 0.15 | 0.63 | 0.63 |
| Spray (Band) | 40' Fold | MFWD 170 | 0.042 | 0.60 | Jun | 0.58 | 0.70 | 0.07 | 0.10 | 0.03 | 0.33 | | | | 1.78 |
| Valor SX | lb | | | | | | | | | | | 0.0562 | 65.50 | 3.68 | 3.68 |
| Glyphosate Plus | pt | | | | | | | | | | | 0.6000 | 1.97 | 1.18 | 1.18 |
| Cstm Ap Air - 5 gal | appl | | | 1.00 | Jul | | | | | | | 1.0000 | 5.50 | 5.50 | 5.50 |
| Trimax | oz | | | | | | | | | | | 1.5000 | 4.47 | 6.72 | 6.72 |
| Insect Scouting | acre | | | 1.00 | Jul | | | | | | | 1.0000 | 10.00 | 10.00 | 10.00 |
| Cstm Ap Air - 5 gal | appl | | | 1.00 | Jul | | | | | | | 1.0000 | 5.50 | 5.50 | 5.50 |
| Orthene 90S | lb | | | | | | | | | | | 0.5000 | 8.59 | 4.30 | 4.30 |
| Cstm Ap Air - 5 gal | appl | | | 1.00 | Jul | | | | | | | 1.0000 | 5.50 | 5.50 | 5.50 |
| Bidrin 8L | oz | | | | | | | | | | | 8.0000 | 0.76 | 6.16 | 6.16 |
| Mepiquat Chloride | oz | | | | | | | | | | | 10.0000 | 0.15 | 1.56 | 1.56 |
| Eradication Fee SE/C | ac | | | 1.00 | Jul | | | | | | | 1.0000 | 12.00 | 12.00 | 12.00 |
| Cstm Ap Air - 5 gal | appl | | | 1.00 | Jul | | | | | | | 1.0000 | 5.50 | 5.50 | 5.50 |
| Orthene 90S | lb | | | | | | | | | | | 0.5000 | 8.59 | 4.30 | 4.30 |
| Cstm Ap Air - 5 gal | appl | | | 1.00 | Jul | | | | | | | 1.0000 | 5.50 | 5.50 | 5.50 |

| | | | | | | | | | | | | | | | | |
|-------------------------------|------------|------|-----|-------|------|-----|-------|-------|-------|-------|------|---------|--------|------|--------|--------|
| Pyrethroid | ac | | | | | | | | | | | 1.0000 | 6.00 | 6.00 | 6.00 | |
| Mepiquat Chloride | oz | | | | | | | | | | | 12.0000 | 0.15 | 1.88 | 1.88 | |
| Cstm Ap Air - 5 gal | appl | 1.00 | Aug | | | | | | | | | 1.0000 | 5.50 | 5.50 | 5.50 | |
| Bidrin 8L | oz | | | | | | | | | | | 8.0000 | 0.76 | 6.16 | 6.16 | |
| Cstm Ap Air - 5 gal | appl | 1.00 | Aug | | | | | | | | | 1.0000 | 5.50 | 5.50 | 5.50 | |
| Pyrethroid | ac | | | | | | | | | | | 1.0000 | 6.00 | 6.00 | 6.00 | |
| Cstm Ap Air - 5 gal | appl | 1.00 | Sep | | | | | | | | | 1.0000 | 5.50 | 5.50 | 5.50 | |
| Ethephon | pint | | | | | | | | | | | 0.4000 | 3.69 | 1.48 | 1.48 | |
| Def 6 | pt | | | | | | | | | | | 0.5000 | 5.32 | 2.66 | 2.66 | |
| Dropp 50 WP | lb | | | | | | | | | | | 0.1000 | 40.75 | 4.08 | 4.08 | |
| Cstm Ap Air - 5 gal | appl | 1.00 | Sep | | | | | | | | | 1.0000 | 5.50 | 5.50 | 5.50 | |
| Ethephon | pint | | | | | | | | | | | 1.6000 | 3.69 | 5.91 | 5.91 | |
| Def 6 | pt | | | | | | | | | | | 0.6600 | 5.32 | 3.51 | 3.51 | |
| Boll Buggy-1st pick | 4R-38(255) | MFWD | 190 | 0.257 | 1.00 | Oct | 6.57 | 7.52 | 1.65 | 4.25 | 0.25 | 2.32 | | | 22.31 | |
| Cotton Picker-1st-BB | 4R-38(255) | | | 0.257 | | | 17.03 | 45.60 | | | 0.51 | 4.33 | | | 66.96 | |
| Module Builder-1st | 4R-38(255) | MFWD | 190 | 0.257 | 1.00 | Oct | 6.57 | 7.52 | 2.17 | 5.60 | 0.51 | 4.33 | | | 26.19 | |
| Center pivot Irr. | each | | | 1.00 | Jun | | | | | 69.24 | | | 0.0076 | | 69.24 | |
| Application 1 | ac-in | | | | | | | | 5.54 | | 0.00 | 0.06 | 1.0000 | | 5.60 | |
| Application 2 | ac-in | | | | | | | | 5.54 | | 0.00 | 0.06 | 1.0000 | | 5.60 | |
| Application 3 | ac-in | | | | | | | | 5.54 | | 0.00 | 0.06 | 1.0000 | | 5.60 | |
| Application 4 | ac-in | | | | | | | | 5.54 | | 0.00 | 0.06 | 1.0000 | | 5.60 | |
| Application 5 | ac-in | | | | | | | | 5.54 | | 0.00 | 0.06 | 1.0000 | | 5.60 | |
| Application 6 | ac-in | | | | | | | | 5.54 | | 0.00 | 0.06 | 1.0000 | | 5.60 | |
| Application 7 | ac-in | | | | | | | | 5.54 | | 0.00 | 0.06 | 1.0000 | | 5.60 | |
| ----- | | | | | | | | | | | | | | | | |
| TOTALS | | | | | | | 51.60 | 86.76 | 47.93 | 91.19 | 2.35 | 20.37 | | | 341.13 | 638.98 |
| INTEREST ON OPERATING CAPITAL | | | | | | | | | | | | | | | | 13.05 |
| UNALLOCATED LABOR | | | | | | | | | | | | | | | | 0.00 |
| TOTAL SPECIFIED COST | | | | | | | | | | | | | | | | 652.03 |

Information presented in this document is prepared solely as a general guide and is not intended to recognize or predict the costs and returns from any one particular farm operation. The mention of any commercial product in this analysis does not imply its endorsement by the University of Arkansas Cooperative Extension Service over other products not named, nor does the omission imply that they are not satisfactory. This budget does not include costs for land, overhead, or management.

Table 3. Alternative cotton production practices and which cotton budgets contain them.

| Production Practice | Cost per acre^a | Budget No. |
|---|--|---|
| Bud worm/boll worm control | | |
| Lannate (1 gal./ 4 acres) | \$19.23 | None |
| Larvin (1 gal./ 3.5 acres) | \$22.93 | None |
| Tracer (1 gal./ 64 acres) | \$18.41 | None |
| Tracer (1/2 rate) + Pyretheroid | \$18.19 | None |
| Defoliation for Irrigated Cotton | \$27.79 | All budgets except: AG-1027, 1038, and 1048 |
| Defoliation for Dryland Cotton | \$19.55 | AG-1027, 1038, and 1048 |
| Cruiser seed treatment | \$9.31 | AG-1027, 1028, 1029, 1030, 1032, 1033, 1034, 1035, 1036, 1038, 1039, 1040, 1042, 1043, 1044, 1045, 1047, 1048, 1049, 1050, 1051, 1053, 1054, 1055 |
| Gaucho seed treatment | \$9.31 | AG-1031 and 1041 |
| Avicta Complete Pak seed treatment | \$21.60 | None |
| Harvest 4 row harvester, first pick ^b | \$66.96 | AG-1027, 1028, 1029, 1030, 1038, 1047, and 1054 |
| 4 row harvester, second pick ^b | \$56.73 | None |
| 6 row harvester, (38" rows), first pick ^b | \$66.39 | All budgets except: AG-1027, 1028, 1029, 1030, 1038, 1047, and 10542 |
| 6 row harvester, (38" rows), second pick ^b | \$56.23 | None |
| Irrigation, furrow (3 ac. in) | \$8.35 per app. Plus a fixed cost of \$25.32 | AG-1030, 1031, 1033, 1034, 1035, 1036, 1037, 1040, 1041, 1042, 1043, 1044, 1048, 1049, and 1050 |
| Irrigation, center pivot (1 ac. in) | \$5.75 per app. Plus a fixed cost of \$69.24 | AG-1028, 1029, 1032, 1039, 1045, 1046, 1051, 1052, 1053, 1054, and 1055 |
| Irrigation, furrow, stationary relift (3 ac. in) | \$4.63 per app. Plus a fixed cost of \$24.79 | None |
| Module Builder | \$26.19 | All |
| Row cultivate plus directed spray | \$6.42 + material | None |
| Staple herbicide banded application (0.6 oz) | \$14.40 | None |
| Prowl, and Incorporate (1.2 pints) | \$8.55 | None |
| Treflan, Incorporated application (0.75 pints) | \$9.16 | None |
| Treflan and Incorporate (1.5 pints) | \$10.98 | None |

^a Machinery costs per acre assume that each machine is fully utilized on the farm.

^bThis harvest cost includes the direct and fixed costs of the cotton picker only.

The authors gratefully acknowledge the contributions of Ken Smith, Glenn Studebaker, and Gus Lorenz in the construction of the 2007 cotton budgets. For additional information on cotton economics contact Rob Hogan at the Northeast Research and Extension Center 870-526-2199 extension 108.

View and print all of the Arkansas crop budgets at http://www.uaex.edu/depts/ag_economics/crop_budgets.htm



**Estimating 2007 Costs of Production, Cotton
Southeast/Central Boll Weevil Eradication Zone, Center Pivot, 8 Row,
Conventional Till, Bt/RR, AG-1029-12-06**

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|--------------------------|-------|---------|----------|---------|-----------|
| | | dollars | | dollars | |
| DIRECT EXPENSES | | | | | |
| HARVEST AIDS | | | | | |
| Finish 6 | pt | 7.50 | 0.3300 | 2.48 | _____ |
| Def 6 | pt | 5.32 | 1.1600 | 6.17 | _____ |
| Dropp 50 WP | lb | 40.75 | 0.1000 | 4.08 | _____ |
| Ethephon | pint | 3.69 | 1.6000 | 5.91 | _____ |
| FERTILIZERS | | | | | |
| 0-60-120-10-1 | acre | 45.56 | 1.0000 | 45.56 | _____ |
| Urea, Solid (46% N) | lb | 0.17 | 218.0000 | 38.15 | _____ |
| FUNGICIDES | | | | | |
| Terraclor 15 G | lb | 1.32 | 7.0000 | 9.24 | _____ |
| HERBICIDES | | | | | |
| Glyphosate Plus | pt | 1.97 | 6.1000 | 12.02 | _____ |
| Clarity | pt | 11.00 | 0.5000 | 5.50 | _____ |
| Gramoxone Extra | pt | 4.86 | 0.2500 | 1.22 | _____ |
| Cotoran 4L | pt | 4.79 | 1.6000 | 7.66 | _____ |
| Dual Magnum | pt | 12.66 | 1.0000 | 12.66 | _____ |
| Caparol 4L | pt | 3.71 | 0.7500 | 2.78 | _____ |
| Valor SX | lb | 65.50 | 0.0562 | 3.68 | _____ |
| INSECTICIDES | | | | | |
| Centric 40WG | oz | 4.60 | 2.0000 | 9.20 | _____ |
| Trimax | oz | 4.47 | 1.5000 | 6.72 | _____ |
| Orthene 90S | lb | 8.59 | 1.0000 | 8.59 | _____ |
| Bidrin 8L | oz | 0.76 | 16.0000 | 12.31 | _____ |
| Pyrethroid | ac | 6.00 | 2.0000 | 12.00 | _____ |
| CROP SEED | | | | | |
| Cottonseed Bt/RR | thous | 0.45 | 45.0000 | 20.25 | _____ |
| Cruiser Seed Trmnt | thous | 0.20 | 45.0000 | 9.00 | _____ |
| TECHNOLOGY FEE | | | | | |
| BtRR Cott Tech Fee S | thous | 1.06 | 45.0000 | 47.70 | _____ |
| Eradication Fee SE/C | ac | 12.00 | 1.0000 | 12.00 | _____ |
| GROWTH REGULATORS | | | | | |
| Mepiquat Chloride | oz | 0.15 | 26.0000 | 4.06 | _____ |
| CUSTOM HIRE | | | | | |
| Cstm Ap Air - 3 gal | appl | 5.10 | 1.0000 | 5.10 | _____ |
| Cstm Ap Air - 5 gal | appl | 5.50 | 9.0000 | 49.50 | _____ |
| Insect Scouting | acre | 10.00 | 1.0000 | 10.00 | _____ |
| OPERATOR LABOR | | | | | |
| Tractors | hour | 9.00 | 1.3211 | 11.90 | _____ |
| Self-Propelled | hour | 9.00 | 0.3150 | 2.84 | _____ |
| IRRIGATION LABOR | | | | | |
| Center pivot Irr. | hour | 7.80 | 0.0568 | 0.42 | _____ |
| HAND LABOR | | | | | |
| Implements | hour | 7.80 | 0.3802 | 2.97 | _____ |
| Self-Propelled | hour | 7.80 | 0.2864 | 2.24 | _____ |
| DIESEL FUEL | | | | | |
| Tractors | gal | 2.22 | 12.5850 | 27.94 | _____ |
| Self-Propelled | gal | 2.22 | 3.9732 | 8.81 | _____ |
| Center pivot Irr. | gal | 2.22 | 14.0000 | 31.08 | _____ |
| REPAIR & MAINTENANCE | | | | | |
| Implements | acre | 9.15 | 1.0000 | 9.15 | _____ |
| Tractors | acre | 4.91 | 1.0000 | 4.91 | _____ |
| Self-Propelled | acre | 9.94 | 1.0000 | 9.94 | _____ |
| Center pivot Irr. | ac-in | 1.09 | 7.0000 | 7.70 | _____ |
| INTEREST ON OP. CAP. | acre | 13.80 | 1.0000 | 13.80 | _____ |
| TOTAL DIRECT EXPENSES | | | | 497.29 | _____ |
| FIXED EXPENSES | | | | | |
| Implements | acre | 21.95 | 1.0000 | 21.95 | _____ |
| Tractors | acre | 37.75 | 1.0000 | 37.75 | _____ |
| Self-Propelled | acre | 49.01 | 1.0000 | 49.01 | _____ |
| Center pivot Irr. | each | 9000.94 | 0.0076 | 69.24 | _____ |
| TOTAL FIXED EXPENSES | | | | 177.95 | _____ |
| TOTAL SPECIFIED EXPENSES | | | | 675.24 | _____ |

Robert Hogan, Jr.
Extension
Economist
- Farm
Management

H. Scott Stiles
Extension
Economist - Risk
Management

Frank Groves
Research
Verification
Coordinator

Table 2. Estimated resource use and costs for field operations, per acre, AG-1029, SE, CP, 8R, Conv., Bt/RR, University of Arkansas

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | POWER UNIT SIZE | PERF RATE | TIMES OVER | MTH | POWER UNIT COST | | EQUIPMENT COST | | ALLOC LABOR | | OPERATING/DURABLE INPUT | | | TOTAL COST |
|-------------------------------|---------------|--------------------|--------------|---------------|-----|-------------------|-------|----------------|-------|-------------|------|-------------------------|-------|-------|---------------|
| | | | | | | DIRECT | FIXED | DIRECT | FIXED | HOURS | COST | AMOUNT | PRICE | COST | |
| | | | | | | -----dollars----- | | | | dollars | | -----dollars----- | | | |
| Stalk Shredder-Flail | 20' | MFWD 150 | 0.082 | 1.00 | Oct | 1.67 | 1.92 | 1.29 | 0.98 | 0.08 | 0.74 | | | | 6.60 |
| Heavy Disk | 27' | MFWD 190 | 0.075 | 1.00 | Oct | 1.93 | 2.21 | 0.75 | 1.99 | 0.07 | 0.68 | | | | 7.56 |
| Chisel Plow(Folding) | 24' | MFWD 190 | 0.076 | 1.00 | Oct | 1.95 | 2.23 | 0.61 | 1.36 | 0.07 | 0.69 | | | | 6.84 |
| Field Cultivate | 32' | MFWD 225 | 0.046 | 1.00 | Nov | 1.39 | 1.44 | 0.31 | 1.64 | 0.04 | 0.42 | | | | 5.20 |
| Fert Appl - T & O | 8r27 | MFWD 170 | 0.050 | 1.00 | Nov | 1.15 | 1.38 | | | 0.05 | 0.45 | | | | 2.98 |
| 0-60-120-10-1 | acre | | | | | | | | | | | 1.0000 | 45.56 | 45.56 | 45.56 |
| Disk Bed (Hipper)Fld | 8R-38 | MFWD 190 | 0.074 | 1.00 | Nov | 1.89 | 2.16 | 0.29 | 0.95 | 0.07 | 0.67 | | | | 5.96 |
| Sprayer(600-750Gal) | 60' | | 0.017 | 1.00 | Feb | 0.53 | 1.05 | | | 0.02 | 0.23 | | | | 1.81 |
| Glyphosate Plus | pt | | | | | | | | | | | 1.5000 | 1.97 | 2.96 | 2.96 |
| Clarity | pt | | | | | | | | | | | 0.5000 | 11.00 | 5.50 | 5.50 |
| Sprayer(600-750Gal) | 60' | | 0.017 | 0.25 | Apr | 0.13 | 0.26 | | | 0.00 | 0.06 | | | | 0.45 |
| Gramoxone Extra | pt | | | | | | | | | | | 0.2500 | 4.86 | 1.22 | 1.22 |
| Disk Bed (Hipper)Fld | 8R-38 | MFWD 190 | 0.074 | 1.00 | Apr | 1.89 | 2.16 | 0.29 | 0.95 | 0.07 | 0.67 | | | | 5.96 |
| Row Cond (Harrow) | 26' | MFWD 190 | 0.057 | 1.00 | Apr | 1.47 | 1.67 | 0.14 | 0.72 | 0.05 | 0.52 | | | | 4.52 |
| Plant & Pre Folding | 8r-40 | MFWD 190 | 0.076 | 1.00 | May | 1.95 | 2.23 | 1.15 | 2.76 | 0.15 | 1.29 | | | | 9.38 |
| Cottonseed Bt/RR | thous | | | | | | | | | | | 45.0000 | 0.45 | 20.25 | 20.25 |
| BtRR Cott Tech Fee | S thous | | | | | | | | | | | 45.0000 | 1.06 | 47.70 | 47.70 |
| Cruiser Seed Trmnt | thous | | | | | | | | | | | 45.0000 | 0.20 | 9.00 | 9.00 |
| Terraclor 15 G | lb | | | | | | | | | | | 7.0000 | 1.32 | 9.24 | 9.24 |
| Cotoran 4L | pt | | | | | | | | | | | 1.6000 | 4.79 | 7.66 | 7.66 |
| Fert Appl - T & O | 8r27 | MFWD 170 | 0.050 | 1.00 | May | 1.15 | 1.38 | | | 0.05 | 0.45 | | | | 2.98 |
| Urea, Solid (46% N) | lb | | | | | | | | | | | 109.0000 | 0.17 | 19.08 | 19.08 |
| Sprayer(600-750Gal) | 60' | | 0.017 | 1.00 | May | 0.53 | 1.05 | | | 0.02 | 0.23 | | | | 1.81 |
| Glyphosate Plus | pt | | | | | | | | | | | 1.5000 | 1.97 | 2.96 | 2.96 |
| Dual Magnum | pt | | | | | | | | | | | 1.0000 | 12.66 | 12.66 | 12.66 |
| Sprayer(600-750Gal) | 60' | | 0.017 | 1.00 | Jun | 0.53 | 1.05 | | | 0.02 | 0.23 | | | | 1.81 |
| Glyphosate Plus | pt | | | | | | | | | | | 1.5000 | 1.97 | 2.96 | 2.96 |
| Fert Appl - T & O | 8r27 | MFWD 170 | 0.050 | 1.00 | Jun | 1.15 | 1.38 | | | 0.05 | 0.45 | | | | 2.98 |
| Urea, Solid (46% N) | lb | | | | | | | | | | | 109.0000 | 0.17 | 19.08 | 19.08 |
| Spray (Direct/Hood) | 8R-38 | MFWD 170 | 0.066 | 1.00 | Jun | 1.54 | 1.85 | 0.43 | 0.65 | 0.10 | 0.86 | | | | 5.33 |
| Caparol 4L | pt | | | | | | | | | | | 0.7500 | 3.71 | 2.78 | 2.78 |
| Glyphosate Plus | pt | | | | | | | | | | | 1.0000 | 1.97 | 1.97 | 1.97 |
| Cstm Ap Air - 3 gal | appl | | | 1.00 | Jun | | | | | | | 1.0000 | 5.10 | 5.10 | 5.10 |
| Centric 40WG | oz | | | | | | | | | | | 2.0000 | 4.60 | 9.20 | 9.20 |
| Mepiquat Chloride | oz | | | | | | | | | | | 4.0000 | 0.15 | 0.63 | 0.63 |
| Spray (Band) | 40' Fold | MFWD 170 | 0.042 | 0.60 | Jun | 0.58 | 0.70 | 0.07 | 0.10 | 0.03 | 0.33 | | | | 1.78 |
| Valor SX | lb | | | | | | | | | | | 0.0562 | 65.50 | 3.68 | 3.68 |
| Glyphosate Plus | pt | | | | | | | | | | | 0.6000 | 1.97 | 1.18 | 1.18 |
| Cstm Ap Air - 5 gal | appl | | | 1.00 | Jul | | | | | | | 1.0000 | 5.50 | 5.50 | 5.50 |
| Trimax | oz | | | | | | | | | | | 1.5000 | 4.47 | 6.72 | 6.72 |
| Insect Scouting | acre | | | 1.00 | Jul | | | | | | | 1.0000 | 10.00 | 10.00 | 10.00 |
| Cstm Ap Air - 5 gal | appl | | | 1.00 | Jul | | | | | | | 1.0000 | 5.50 | 5.50 | 5.50 |
| Orthene 90S | lb | | | | | | | | | | | 0.5000 | 8.59 | 4.30 | 4.30 |
| Cstm Ap Air - 5 gal | appl | | | 1.00 | Jul | | | | | | | 1.0000 | 5.50 | 5.50 | 5.50 |
| Bidrin 8L | oz | | | | | | | | | | | 8.0000 | 0.76 | 6.16 | 6.16 |
| Mepiquat Chloride | oz | | | | | | | | | | | 10.0000 | 0.15 | 1.56 | 1.56 |
| Eradication Fee SE/C | ac | | | 1.00 | Jul | | | | | | | 1.0000 | 12.00 | 12.00 | 12.00 |
| Cstm Ap Air - 5 gal | appl | | | 1.00 | Jul | | | | | | | 1.0000 | 5.50 | 5.50 | 5.50 |
| Orthene 90S | lb | | | | | | | | | | | 0.5000 | 8.59 | 4.30 | 4.30 |
| Cstm Ap Air - 5 gal | appl | | | 1.00 | Jul | | | | | | | 1.0000 | 5.50 | 5.50 | 5.50 |
| Pyrethroid | ac | | | | | | | | | | | 1.0000 | 6.00 | 6.00 | 6.00 |

| | | | | | | | | | | | | | | | |
|-------------------------------|------------|----------|-------|------|-----|-------|-------|-------|-------|------|-------|---------|-------|--------|--------|
| Mepiquat Chloride | oz | | | | | | | | | | | 12.0000 | 0.15 | 1.88 | 1.88 |
| Cstm Ap Air - 5 gal | appl | 1.00 | Aug | | | | | | | | | 1.0000 | 5.50 | 5.50 | 5.50 |
| Bidrin 8L | oz | | | | | | | | | | | 8.0000 | 0.76 | 6.16 | 6.16 |
| Cstm Ap Air - 5 gal | appl | 1.00 | Aug | | | | | | | | | 1.0000 | 5.50 | 5.50 | 5.50 |
| Pyrethroid | ac | | | | | | | | | | | 1.0000 | 6.00 | 6.00 | 6.00 |
| Cstm Ap Air - 5 gal | appl | 1.00 | Sep | | | | | | | | | 1.0000 | 5.50 | 5.50 | 5.50 |
| Finish 6 | pt | | | | | | | | | | | 0.3300 | 7.50 | 2.48 | 2.48 |
| Def 6 | pt | | | | | | | | | | | 0.5000 | 5.32 | 2.66 | 2.66 |
| Dropp 50 WP | lb | | | | | | | | | | | 0.1000 | 40.75 | 4.08 | 4.08 |
| Cstm Ap Air - 5 gal | appl | 1.00 | Sep | | | | | | | | | 1.0000 | 5.50 | 5.50 | 5.50 |
| Ethephon | pint | | | | | | | | | | | 1.6000 | 3.69 | 5.91 | 5.91 |
| Def 6 | pt | | | | | | | | | | | 0.6600 | 5.32 | 3.51 | 3.51 |
| Boll Buggy-1st pick | 4R-38(255) | MFWD 190 | 0.257 | 1.00 | Oct | 6.57 | 7.52 | 1.65 | 4.25 | 0.25 | 2.32 | | | | 22.31 |
| Cotton Picker-1st-BB | 4R-38(255) | | 0.257 | | | 17.03 | 45.60 | | | 0.51 | 4.33 | | | | 66.96 |
| Module Builder-1st | 4R-38(255) | MFWD 190 | 0.257 | 1.00 | Oct | 6.57 | 7.52 | 2.17 | 5.60 | 0.51 | 4.33 | | | | 26.19 |
| Center pivot Irr. | each | | 1.00 | Jun | | | | | 69.24 | | | 0.0076 | | | 69.24 |
| Application 1 | ac-in | | | | | | | 5.54 | | 0.00 | 0.06 | 1.0000 | | | 5.60 |
| Application 2 | ac-in | | | | | | | 5.54 | | 0.00 | 0.06 | 1.0000 | | | 5.60 |
| Application 3 | ac-in | | | | | | | 5.54 | | 0.00 | 0.06 | 1.0000 | | | 5.60 |
| Application 4 | ac-in | | | | | | | 5.54 | | 0.00 | 0.06 | 1.0000 | | | 5.60 |
| Application 5 | ac-in | | | | | | | 5.54 | | 0.00 | 0.06 | 1.0000 | | | 5.60 |
| Application 6 | ac-in | | | | | | | 5.54 | | 0.00 | 0.06 | 1.0000 | | | 5.60 |
| Application 7 | ac-in | | | | | | | 5.54 | | 0.00 | 0.06 | 1.0000 | | | 5.60 |
| TOTALS | | | | | | 51.60 | 86.76 | 47.93 | 91.19 | 2.35 | 20.37 | | | 363.59 | 661.44 |
| INTEREST ON OPERATING CAPITAL | | | | | | | | | | | | | | | 13.80 |
| UNALLOCATED LABOR | | | | | | | | | | | | | | | 0.00 |
| TOTAL SPECIFIED COST | | | | | | | | | | | | | | | 675.24 |

Information presented in this document is prepared solely as a general guide and is not intended to recognize or predict the costs and returns from any one particular farm operation. The mention of any commercial product in this analysis does not imply its endorsement by the University of Arkansas Cooperative Extension Service over other products not named, nor does the omission imply that they are not satisfactory. This budget does not include costs for land, overhead, or management.

Table 3. Alternative cotton production practices and which cotton budgets contain them.

| Production Practice | Cost per acre^a | Budget No. |
|---|--|---|
| Bud worm/boll worm control | | |
| Lannate (1 gal./ 4 acres) | \$19.23 | None |
| Larvin (1 gal./ 3.5 acres) | \$22.93 | None |
| Tracer (1 gal./ 64 acres) | \$18.41 | None |
| Tracer (1/2 rate) + Pyretheroid | \$18.19 | None |
| Defoliation for Irrigated Cotton | \$27.79 | All budgets except: AG-1027, 1038, and 1048 |
| Defoliation for Dryland Cotton | \$19.55 | AG-1027, 1038, and 1048 |
| Cruiser seed treatment | \$9.31 | AG-1027, 1028, 1029, 1030, 1032, 1033, 1034, 1035, 1036, 1038, 1039, 1040, 1042, 1043, 1044, 1045, 1047, 1048, 1049, 1050, 1051, 1053, 1054, 1055 |
| Gaucho seed treatment | \$9.31 | AG-1031 and 1041 |
| Avicta Complete Pak seed treatment | \$21.60 | None |
| Harvest 4 row harvester, first pick ^b | \$66.96 | AG-1027, 1028, 1029, 1030, 1038, 1047, and 1054 |
| 4 row harvester, second pick ^b | \$56.73 | None |
| 6 row harvester, (38" rows), first pick ^b | \$66.39 | All budgets except: AG-1027, 1028, 1029, 1030, 1038, 1047, and 10542 |
| 6 row harvester, (38" rows), second pick ^b | \$56.23 | None |
| Irrigation, furrow (3 ac. in) | \$8.35 per app. Plus a fixed cost of \$25.32 | AG-1030, 1031, 1033, 1034, 1035, 1036, 1037, 1040, 1041, 1042, 1043, 1044, 1048, 1049, and 1050 |
| Irrigation, center pivot (1 ac. in) | \$5.75 per app. Plus a fixed cost of \$69.24 | AG-1028, 1029, 1032, 1039, 1045, 1046, 1051, 1052, 1053, 1054, and 1055 |
| Irrigation, furrow, stationary relift (3 ac. in) | \$4.63 per app. Plus a fixed cost of \$24.79 | None |
| Module Builder | \$26.19 | All |
| Row cultivate plus directed spray | \$6.42 + material | None |
| Staple herbicide banded application (0.6 oz) | \$14.40 | None |
| Prowl, and Incorporate (1.2 pints) | \$8.55 | None |
| Treflan, Incorporated application (0.75 pints) | \$9.16 | None |
| Treflan and Incorporate (1.5 pints) | \$10.98 | None |

^a Machinery costs per acre assume that each machine is fully utilized on the farm.

^bThis harvest cost includes the direct and fixed costs of the cotton picker only.

The authors gratefully acknowledge the contributions of Ken Smith, Glenn Studebaker, and Gus Lorenz in the construction of the 2007 cotton budgets. For additional information on cotton economics contact Rob Hogan at the Northeast Research and Extension Center 870-526-2199 extension 108.

View and print all of the Arkansas crop budgets at http://www.uaex.edu/depts/ag_economics/crop_budgets.htm

Estimating 2007 Costs of Production, Cotton
Southeast/Central Boll Weevil Eradication Zone, Center Pivot, 8 Row,
Stale Seedbed, Bt/RR, AG-1030-12-06

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|--------------------------|-------|---------|----------|---------|-----------|
| | | dollars | | dollars | |
| DIRECT EXPENSES | | | | | |
| HARVEST AIDS | | | | | |
| Aim | oz | 5.42 | 1.0000 | 5.42 | _____ |
| Dropp 50 WP | lb | 40.75 | 0.1000 | 4.08 | _____ |
| Finish 6 | pt | 7.50 | 0.3300 | 2.48 | _____ |
| Ethephon | pint | 3.69 | 1.6000 | 5.91 | _____ |
| FERTILIZERS | | | | | |
| 0-60-120-10-1 | acre | 45.56 | 1.0000 | 45.56 | _____ |
| Urea, Solid (46% N) | lb | 0.17 | 218.0000 | 38.15 | _____ |
| FUNGICIDES | | | | | |
| Terraclor 15 G | lb | 1.32 | 7.0000 | 9.24 | _____ |
| HERBICIDES | | | | | |
| Glyphosate Plus | pt | 1.97 | 6.1000 | 12.02 | _____ |
| Clarity | pt | 11.00 | 0.5000 | 5.50 | _____ |
| Gramoxone Extra | pt | 4.86 | 0.2500 | 1.22 | _____ |
| Dual Magnum | pt | 12.66 | 1.0000 | 12.66 | _____ |
| Caparol 4L | pt | 3.71 | 0.7500 | 2.78 | _____ |
| Valor SX | lb | 65.50 | 0.0562 | 3.68 | _____ |
| INSECTICIDES | | | | | |
| Centric 40WG | oz | 4.60 | 2.0000 | 9.20 | _____ |
| Trimax | oz | 4.47 | 1.5000 | 6.72 | _____ |
| Orthene 90S | lb | 8.59 | 1.0000 | 8.59 | _____ |
| Bidrin 8L | oz | 0.76 | 16.0000 | 12.31 | _____ |
| Pyrethroid | ac | 6.00 | 2.0000 | 12.00 | _____ |
| IRRIGATION SUPPLIES | | | | | |
| IrrPipe+lay+pickup | acre | 10.30 | 1.0000 | 10.30 | _____ |
| CROP SEED | | | | | |
| Cottonseed Bt/RR | thous | 0.45 | 45.0000 | 20.25 | _____ |
| Cruiser Seed Trmnt | thous | 0.20 | 45.0000 | 9.00 | _____ |
| TECHNOLOGY FEE | | | | | |
| BtRR Cott Tech Fee N | thous | 1.07 | 45.0000 | 48.15 | _____ |
| Eradication Fee SE/C | ac | 12.00 | 1.0000 | 12.00 | _____ |
| GROWTH REGULATORS | | | | | |
| Mepiquat Chloride | oz | 0.15 | 26.0000 | 4.06 | _____ |
| ADJUVANTS | | | | | |
| Surfactant (80-20) | pt | 1.25 | 0.4000 | 0.50 | _____ |
| CUSTOM HIRE | | | | | |
| Cstm Ap Air - 3 gal | appl | 5.10 | 1.0000 | 5.10 | _____ |
| Cstm Ap Air - 5 gal | appl | 5.50 | 9.0000 | 49.50 | _____ |
| Insect Scouting | acre | 10.00 | 1.0000 | 10.00 | _____ |
| OPERATOR LABOR | | | | | |
| Tractors | hour | 9.00 | 1.2238 | 11.02 | _____ |
| Self-Propelled | hour | 9.00 | 0.3150 | 2.84 | _____ |
| IRRIGATION LABOR | | | | | |
| Furrow Irr. | hour | 7.80 | 0.3017 | 2.36 | _____ |
| HAND LABOR | | | | | |
| Implements | hour | 7.80 | 0.3876 | 3.03 | _____ |
| Self-Propelled | hour | 7.80 | 0.2864 | 2.24 | _____ |
| DIESEL FUEL | | | | | |
| Tractors | gal | 2.22 | 11.8244 | 26.26 | _____ |
| Self-Propelled | gal | 2.22 | 3.9732 | 8.81 | _____ |
| Furrow Irr. | gal | 2.22 | 12.0000 | 26.64 | _____ |
| REPAIR & MAINTENANCE | | | | | |
| Implements | acre | 7.93 | 1.0000 | 7.93 | _____ |
| Tractors | acre | 4.55 | 1.0000 | 4.55 | _____ |
| Self-Propelled | acre | 9.94 | 1.0000 | 9.94 | _____ |
| Furrow Irr. | ac-in | 0.29 | 12.0000 | 3.52 | _____ |
| INTEREST ON OP. CAP. | acre | 13.99 | 1.0000 | 13.99 | _____ |
| TOTAL DIRECT EXPENSES | | | | 489.56 | _____ |
| FIXED EXPENSES | | | | | |
| Implements | acre | 17.61 | 1.0000 | 17.61 | _____ |
| Tractors | acre | 35.10 | 1.0000 | 35.10 | _____ |
| Self-Propelled | acre | 49.01 | 1.0000 | 49.01 | _____ |
| Furrow Irr. | each | 3038.56 | 0.0083 | 25.32 | _____ |
| TOTAL FIXED EXPENSES | | | | 127.04 | _____ |
| TOTAL SPECIFIED EXPENSES | | | | 616.60 | _____ |

Robert Hogan, Jr.
Extension
Economist
- Farm
Management

H. Scott Stiles
Extension
Economist - Risk
Management

Frank Groves
Research
Verification
Coordinator

Table 2. Estimated resource use and costs for field operations, per acre, AG-1030, SE/Cen, Furrow, 8R, Stale, Bt/RR, University of Arkansas

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | POWER UNIT SIZE | PERF RATE | TIMES OVER | MTH | POWER UNIT COST | | EQUIPMENT COST | | ALLOC LABOR | | OPERATING/DURABLE INPUT | | | TOTAL COST |
|-------------------------------|---------------|--------------------|--------------|---------------|-----|-------------------|-------|----------------|-------|-------------|------|-------------------------|-------|-------|---------------|
| | | | | | | DIRECT | FIXED | DIRECT | FIXED | HOURS | COST | AMOUNT | PRICE | COST | |
| | | | | | | -----dollars----- | | | | dollars | | -----dollars----- | | | |
| Stalk Shredder-Flail | 20' | MFWD 150 | 0.082 | 1.00 | Oct | 1.67 | 1.92 | 1.29 | 0.98 | 0.08 | 0.74 | | | | 6.60 |
| TerraTill Bed w/roll | 4R-38 | MFWD 225 | 0.160 | 1.00 | Nov | 4.78 | 4.98 | 0.66 | 1.47 | 0.16 | 1.45 | | | | 13.34 |
| Fert Appl - T & O | 8r27 | MFWD 170 | 0.050 | 1.00 | Nov | 1.15 | 1.38 | | | 0.05 | 0.45 | | | | 2.98 |
| 0-60-120-10-1 | acre | | | | | | | | | | | 1.0000 | 45.56 | 45.56 | 45.56 |
| Disk Bed (Hipper)Fld | 8R-38 | MFWD 190 | 0.074 | 1.00 | Nov | 1.89 | 2.16 | 0.29 | 0.95 | 0.07 | 0.67 | | | | 5.96 |
| Sprayer(600-750Gal) | 60' | | 0.017 | 1.00 | Feb | 0.53 | 1.05 | | | 0.02 | 0.23 | | | | 1.81 |
| Glyphosate Plus | pt | | | | | | | | | | | 1.5000 | 1.97 | 2.96 | 2.96 |
| Clarity | pt | | | | | | | | | | | 0.5000 | 11.00 | 5.50 | 5.50 |
| Sprayer(600-750Gal) | 60' | | 0.017 | 0.25 | Apr | 0.13 | 0.26 | | | 0.00 | 0.06 | | | | 0.45 |
| Gramoxone Extra | pt | | | | | | | | | | | 0.2500 | 4.86 | 1.22 | 1.22 |
| Row Cond (Harrow) | 26' | MFWD 190 | 0.057 | 1.00 | Apr | 1.47 | 1.67 | 0.14 | 0.72 | 0.05 | 0.52 | | | | 4.52 |
| Plant & Pre Folding | 8r-40 | MFWD 190 | 0.076 | 1.00 | May | 1.95 | 2.23 | 1.15 | 2.76 | 0.15 | 1.29 | | | | 9.38 |
| Cottonseed Bt/RR | thous | | | | | | | | | | | 45.0000 | 0.45 | 20.25 | 20.25 |
| BtRR Cott Tech Fee | N thous | | | | | | | | | | | 45.0000 | 1.07 | 48.15 | 48.15 |
| Cruiser Seed Trmnt | thous | | | | | | | | | | | 45.0000 | 0.20 | 9.00 | 9.00 |
| Terraclor 15 G | lb | | | | | | | | | | | 7.0000 | 1.32 | 9.24 | 9.24 |
| Fert Appl - T & O | 8r27 | MFWD 170 | 0.050 | 1.00 | May | 1.15 | 1.38 | | | 0.05 | 0.45 | | | | 2.98 |
| Urea, Solid (46% N) | lb | | | | | | | | | | | 109.0000 | 0.17 | 19.08 | 19.08 |
| Sprayer(600-750Gal) | 60' | | 0.017 | 1.00 | May | 0.53 | 1.05 | | | 0.02 | 0.23 | | | | 1.81 |
| Glyphosate Plus | pt | | | | | | | | | | | 1.5000 | 1.97 | 2.96 | 2.96 |
| Sprayer(600-750Gal) | 60' | | 0.017 | 1.00 | May | 0.53 | 1.05 | | | 0.02 | 0.23 | | | | 1.81 |
| Glyphosate Plus | pt | | | | | | | | | | | 1.5000 | 1.97 | 2.96 | 2.96 |
| Dual Magnum | pt | | | | | | | | | | | 1.0000 | 12.66 | 12.66 | 12.66 |
| Fert Appl - T & O | 8r27 | MFWD 170 | 0.050 | 1.00 | Jun | 1.15 | 1.38 | | | 0.05 | 0.45 | | | | 2.98 |
| Urea, Solid (46% N) | lb | | | | | | | | | | | 109.0000 | 0.17 | 19.08 | 19.08 |
| Spray (Direct/Hood) | 8R-38 | MFWD 170 | 0.066 | 1.00 | Jun | 1.54 | 1.85 | 0.43 | 0.65 | 0.10 | 0.86 | | | | 5.33 |
| Caparol 4L | pt | | | | | | | | | | | 0.7500 | 3.71 | 2.78 | 2.78 |
| Glyphosate Plus | pt | | | | | | | | | | | 1.0000 | 1.97 | 1.97 | 1.97 |
| Cstm Ap Air - 3 gal | appl | | | 1.00 | Jun | | | | | | | 1.0000 | 5.10 | 5.10 | 5.10 |
| Centric 40WG | oz | | | | | | | | | | | 2.0000 | 4.60 | 9.20 | 9.20 |
| Mepiquat Chloride | oz | | | | | | | | | | | 4.0000 | 0.15 | 0.63 | 0.63 |
| Spray (Direct/Layby) | 8R-38 | MFWD 170 | 0.066 | 0.60 | Jun | 0.92 | 1.11 | 0.15 | 0.23 | 0.06 | 0.52 | | | | 2.93 |
| Valor SX | lb | | | | | | | | | | | 0.0562 | 65.50 | 3.68 | 3.68 |
| Glyphosate Plus | pt | | | | | | | | | | | 0.6000 | 1.97 | 1.18 | 1.18 |
| IrrPipe+lay+pickup | acre | | | 1.00 | Jun | | | | | | | 1.0000 | 10.30 | 10.30 | 10.30 |
| Cstm Ap Air - 5 gal | appl | | | 1.00 | Jul | | | | | | | 1.0000 | 5.50 | 5.50 | 5.50 |
| Trimax | oz | | | | | | | | | | | 1.5000 | 4.47 | 6.72 | 6.72 |
| Insect Scouting | acre | | | 1.00 | Jul | | | | | | | 1.0000 | 10.00 | 10.00 | 10.00 |
| Cstm Ap Air - 5 gal | appl | | | 1.00 | Jul | | | | | | | 1.0000 | 5.50 | 5.50 | 5.50 |
| Orthene 90S | lb | | | | | | | | | | | 0.5000 | 8.59 | 4.30 | 4.30 |
| Cstm Ap Air - 5 gal | appl | | | 1.00 | Jul | | | | | | | 1.0000 | 5.50 | 5.50 | 5.50 |
| Bidrin 8L | oz | | | | | | | | | | | 8.0000 | 0.76 | 6.16 | 6.16 |
| Mepiquat Chloride | oz | | | | | | | | | | | 10.0000 | 0.15 | 1.56 | 1.56 |
| Eradication Fee SE/C | ac | | | 1.00 | Jul | | | | | | | 1.0000 | 12.00 | 12.00 | 12.00 |
| Cstm Ap Air - 5 gal | appl | | | 1.00 | Jul | | | | | | | 1.0000 | 5.50 | 5.50 | 5.50 |
| Orthene 90S | lb | | | | | | | | | | | 0.5000 | 8.59 | 4.30 | 4.30 |
| Cstm Ap Air - 5 gal | appl | | | 1.00 | Jul | | | | | | | 1.0000 | 5.50 | 5.50 | 5.50 |
| Pyrethroid | ac | | | | | | | | | | | 1.0000 | 6.00 | 6.00 | 6.00 |
| Mepiquat Chloride | oz | | | | | | | | | | | 12.0000 | 0.15 | 1.88 | 1.88 |
| Cstm Ap Air - 5 gal | appl | | | 1.00 | Aug | | | | | | | 1.0000 | 5.50 | 5.50 | 5.50 |
| Bidrin 8L | oz | | | | | | | | | | | 8.0000 | 0.76 | 6.16 | 6.16 |

| | | | | | | | | | | | | | | | | |
|-------------------------------|------------|------|-----|-------|------|-----|-------|-------|-------|-------|-------|--------|--------|-------|--------|--------|
| Cstm Ap Air - 5 gal | appl | | | 1.00 | Aug | | | | | | | 1.0000 | 5.50 | 5.50 | 5.50 | |
| Pyrethroid | ac | | | | | | | | | | | 1.0000 | 6.00 | 6.00 | 6.00 | |
| Cstm Ap Air - 5 gal | appl | | | 1.00 | Sep | | | | | | | 1.0000 | 5.50 | 5.50 | 5.50 | |
| Aim | oz | | | | | | | | | | | 0.3300 | 5.42 | 1.79 | 1.79 | |
| Dropp 50 WP | lb | | | | | | | | | | | 0.1000 | 40.75 | 4.08 | 4.08 | |
| Finish 6 | pt | | | | | | | | | | | 0.3300 | 7.50 | 2.48 | 2.48 | |
| Surfactant (80-20) | pt | | | | | | | | | | | 0.2000 | 1.25 | 0.25 | 0.25 | |
| Cstm Ap Air - 5 gal | appl | | | 1.00 | Sep | | | | | | | 1.0000 | 5.50 | 5.50 | 5.50 | |
| Aim | oz | | | | | | | | | | | 0.6700 | 5.42 | 3.63 | 3.63 | |
| Ethephon | pint | | | | | | | | | | | 1.6000 | 3.69 | 5.91 | 5.91 | |
| Surfactant (80-20) | pt | | | | | | | | | | | 0.2000 | 1.25 | 0.25 | 0.25 | |
| Boll Buggy-1st pick | 4R-38(255) | MFWD | 190 | 0.257 | 1.00 | Oct | 6.57 | 7.52 | 1.65 | 4.25 | 0.25 | 2.32 | | | 22.31 | |
| Cotton Picker-1st-BB | 4R-38(255) | | | 0.257 | | | 17.03 | 45.60 | | | 0.51 | 4.33 | | | 66.96 | |
| Module Builder-1st | 4R-38(255) | MFWD | 190 | 0.257 | 1.00 | Oct | 6.57 | 7.52 | 2.17 | 5.60 | 0.51 | 4.33 | | | 26.19 | |
| Furrow Irr. | each | | | 1.00 | Jun | | | | | 25.32 | | | 0.0083 | | 25.32 | |
| Application 1 | ac-in | | | | | | | | | 7.54 | 0.07 | 0.59 | 3.0000 | | 8.13 | |
| Application 2 | ac-in | | | | | | | | | 7.54 | 0.07 | 0.59 | 3.0000 | | 8.13 | |
| Application 3 | ac-in | | | | | | | | | 7.54 | 0.07 | 0.59 | 3.0000 | | 8.13 | |
| Application 4 | ac-in | | | | | | | | | 7.54 | 0.07 | 0.59 | 3.0000 | | 8.13 | |
| | | | | | | | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | |
| TOTALS | | | | | | | 49.56 | 84.11 | 38.09 | 42.93 | 2.51 | 21.49 | | | 366.43 | 602.61 |
| INTEREST ON OPERATING CAPITAL | | | | | | | | | | | | | | | | 13.99 |
| UNALLOCATED LABOR | | | | | | | | | | | | | | | | 0.00 |
| TOTAL SPECIFIED COST | | | | | | | | | | | | | | | | 616.60 |

Information presented in this document is prepared solely as a general guide and is not intended to recognize or predict the costs and returns from any one particular farm operation. The mention of any commercial product in this analysis does not imply its endorsement by the University of Arkansas Cooperative Extension Service over other products not named, nor does the omission imply that they are not satisfactory. This budget does not include costs for land, overhead, or management.

Table 3. Alternative cotton production practices and which cotton budgets contain them.

| Production Practice | Cost per acre^a | Budget No. |
|---|--|---|
| Bud worm/boll worm control | | |
| Lannate (1 gal./ 4 acres) | \$19.23 | None |
| Larvin (1 gal./ 3.5 acres) | \$22.93 | None |
| Tracer (1 gal./ 64 acres) | \$18.41 | None |
| Tracer (1/2 rate) + Pyretheroid | \$18.19 | None |
| Defoliation for Irrigated Cotton | \$27.79 | All budgets except: AG-1027, 1038, and 1048 |
| Defoliation for Dryland Cotton | \$19.55 | AG-1027, 1038, and 1048 |
| Cruiser seed treatment | \$9.31 | AG-1027, 1028, 1029, 1030, 1032, 1033, 1034, 1035, 1036, 1038, 1039, 1040, 1042, 1043, 1044, 1045, 1047, 1048, 1049, 1050, 1051, 1053, 1054, 1055 |
| Gaucho seed treatment | \$9.31 | AG-1031 and 1041 |
| Avicta Complete Pak seed treatment | \$21.60 | None |
| Harvest 4 row harvester, first pick ^b | \$66.96 | AG-1027, 1028, 1029, 1030, 1038, 1047, and 1054 |
| 4 row harvester, second pick ^b | \$56.73 | None |
| 6 row harvester, (38" rows), first pick ^b | \$66.39 | All budgets except: AG-1027, 1028, 1029, 1030, 1038, 1047, and 10542 |
| 6 row harvester, (38" rows), second pick ^b | \$56.23 | None |
| Irrigation, furrow (3 ac. in) | \$8.35 per app. Plus a fixed cost of \$25.32 | AG-1030, 1031, 1033, 1034, 1035, 1036, 1037, 1040, 1041, 1042, 1043, 1044, 1048, 1049, and 1050 |
| Irrigation, center pivot (1 ac. in) | \$5.75 per app. Plus a fixed cost of \$69.24 | AG-1028, 1029, 1032, 1039, 1045, 1046, 1051, 1052, 1053, 1054, and 1055 |
| Irrigation, furrow, stationary relift (3 ac. in) | \$4.63 per app. Plus a fixed cost of \$24.79 | None |
| Module Builder | \$26.19 | All |
| Row cultivate plus directed spray | \$6.42 + material | None |
| Staple herbicide banded application (0.6 oz) | \$14.40 | None |
| Prowl, and Incorporate (1.2 pints) | \$8.55 | None |
| Treflan, Incorporated application (0.75 pints) | \$9.16 | None |
| Treflan and Incorporate (1.5 pints) | \$10.98 | None |

^a Machinery costs per acre assume that each machine is fully utilized on the farm.

^bThis harvest cost includes the direct and fixed costs of the cotton picker only.

The authors gratefully acknowledge the contributions of Ken Smith, Glenn Studebaker, and Gus Lorenz in the construction of the 2007 cotton budgets. For additional information on cotton economics contact Rob Hogan at the Northeast Research and Extension Center 870-526-2199 extension 108.

View and print all of the Arkansas crop budgets at http://www.uaex.edu/depts/ag_economics/crop_budgets.htm

Estimating 2007 Costs of Production, Cotton
Southeast/Central Boll Weevil Eradication Zone, Furrow, 12 Row,
Conventional Till, Bt/RR, AG-1031-12-06

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|--------------------------|-------|---------|----------|---------|-----------|
| | | dollars | | dollars | |
| DIRECT EXPENSES | | | | | |
| HARVEST AIDS | | | | | |
| Ethephon | pint | 3.69 | 2.0000 | 7.39 | _____ |
| Def 6 | pt | 5.32 | 1.1600 | 6.17 | _____ |
| Dropp 50 WP | lb | 40.75 | 0.1000 | 4.08 | _____ |
| FERTILIZERS | | | | | |
| 0-60-120-10-1 | acre | 45.56 | 1.0000 | 45.56 | _____ |
| Urea, Solid (46% N) | lb | 0.17 | 218.0000 | 38.15 | _____ |
| FUNGICIDES | | | | | |
| Terraclor 15 G | lb | 1.32 | 7.0000 | 9.24 | _____ |
| HERBICIDES | | | | | |
| Glyphosate Plus | pt | 1.97 | 6.1000 | 12.02 | _____ |
| Clarity | pt | 11.00 | 0.5000 | 5.50 | _____ |
| Gramoxone Extra | pt | 4.86 | 0.2500 | 1.22 | _____ |
| Cotoran 4L | pt | 4.79 | 1.6000 | 7.66 | _____ |
| Dual Magnum | pt | 12.66 | 1.0000 | 12.66 | _____ |
| Caparol 4L | pt | 3.71 | 0.7500 | 2.78 | _____ |
| Valor SX | lb | 65.50 | 0.0562 | 3.68 | _____ |
| INSECTICIDES | | | | | |
| Centric 40WG | oz | 4.60 | 2.0000 | 9.20 | _____ |
| Trimax | oz | 4.47 | 1.5000 | 6.72 | _____ |
| Orthene 90S | lb | 8.59 | 1.0000 | 8.59 | _____ |
| Bidrin 8L | oz | 0.76 | 16.0000 | 12.31 | _____ |
| Pyrethroid | ac | 6.00 | 2.0000 | 12.00 | _____ |
| IRRIGATION SUPPLIES | | | | | |
| IrrPipe+lay+pickup | acre | 10.30 | 1.0000 | 10.30 | _____ |
| CROP SEED | | | | | |
| Cottonseed Bt/RR | thous | 0.45 | 45.0000 | 20.25 | _____ |
| Gaucho Grande | thous | 0.20 | 45.0000 | 9.00 | _____ |
| TECHNOLOGY FEE | | | | | |
| BtRR Cott Tech Fee S | thous | 1.06 | 45.0000 | 47.70 | _____ |
| Eradication Fee SE/C | ac | 12.00 | 1.0000 | 12.00 | _____ |
| GROWTH REGULATORS | | | | | |
| Mepiquat Chloride | oz | 0.15 | 26.0000 | 4.06 | _____ |
| CUSTOM HIRE | | | | | |
| Cstm Ap Air - 3 gal | appl | 5.10 | 1.0000 | 5.10 | _____ |
| Cstm Ap Air - 5 gal | appl | 5.50 | 9.0000 | 49.50 | _____ |
| Insect Scouting | acre | 10.00 | 1.0000 | 10.00 | _____ |
| OPERATOR LABOR | | | | | |
| Tractors | hour | 9.00 | 0.9845 | 8.85 | _____ |
| Self-Propelled | hour | 9.00 | 0.2163 | 1.96 | _____ |
| IRRIGATION LABOR | | | | | |
| Furrow Irr. | hour | 7.80 | 0.3017 | 2.36 | _____ |
| HAND LABOR | | | | | |
| Implements | hour | 7.80 | 0.2580 | 2.01 | _____ |
| Self-Propelled | hour | 7.80 | 0.1943 | 1.52 | _____ |
| DIESEL FUEL | | | | | |
| Tractors | gal | 2.22 | 9.8111 | 21.77 | _____ |
| Self-Propelled | gal | 2.22 | 3.3803 | 7.51 | _____ |
| Furrow Irr. | gal | 2.22 | 12.0000 | 26.64 | _____ |
| REPAIR & MAINTENANCE | | | | | |
| Implements | acre | 7.70 | 1.0000 | 7.70 | _____ |
| Tractors | acre | 3.73 | 1.0000 | 3.73 | _____ |
| Self-Propelled | acre | 10.18 | 1.0000 | 10.18 | _____ |
| Furrow Irr. | ac-in | 0.29 | 12.0000 | 3.52 | _____ |
| INTEREST ON OP. CAP. | acre | 13.71 | 1.0000 | 13.71 | _____ |
| TOTAL DIRECT EXPENSES | | | | 484.35 | _____ |
| FIXED EXPENSES | | | | | |
| Implements | acre | 18.44 | 1.0000 | 18.44 | _____ |
| Tractors | acre | 28.53 | 1.0000 | 28.53 | _____ |
| Self-Propelled | acre | 49.87 | 1.0000 | 49.87 | _____ |
| Furrow Irr. | each | 3038.56 | 0.0083 | 25.32 | _____ |
| TOTAL FIXED EXPENSES | | | | 122.16 | _____ |
| TOTAL SPECIFIED EXPENSES | | | | 606.51 | _____ |

Robert Hogan, Jr.
Extension
Economist
 – Farm
Management

H. Scott Stiles
Extension
Economist – Risk
Management

Frank Groves
Research
Verification
Coordinator

Table 2. Estimated resource use and costs for field operations, per acre, AG-1031, SE, Furrow, 12R, Conv., Bt/RR, University of Arkansas

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | POWER UNIT SIZE | PERF RATE | TIMES OVER | MTH | POWER UNIT COST | | EQUIPMENT COST | | ALLOC LABOR | | OPERATING/DURABLE INPUT | | | TOTAL COST |
|-------------------------------|---------------|--------------------|--------------|---------------|-----|-------------------|-------|----------------|-------|-------------|------|-------------------------|-------|-------|---------------|
| | | | | | | DIRECT | FIXED | DIRECT | FIXED | HOURS | COST | AMOUNT | PRICE | COST | |
| | | | | | | -----dollars----- | | | | dollars | | -----dollars----- | | | |
| Stalk Shredder-Flail | 20' | MFWD 150 | 0.082 | 1.00 | Oct | 1.67 | 1.92 | 1.29 | 0.98 | 0.08 | 0.74 | | | | 6.60 |
| Heavy Disk | 27' | MFWD 190 | 0.075 | 1.00 | Oct | 1.93 | 2.21 | 0.75 | 1.99 | 0.07 | 0.68 | | | | 7.56 |
| Chisel Plow(Folding) | 24' | MFWD 190 | 0.076 | 1.00 | Oct | 1.95 | 2.23 | 0.61 | 1.36 | 0.07 | 0.69 | | | | 6.84 |
| Field Cultivate | 32' | MFWD 225 | 0.046 | 1.00 | Nov | 1.39 | 1.44 | 0.31 | 1.64 | 0.04 | 0.42 | | | | 5.20 |
| Fert Appl - T & O | 12r40 | MFWD 190 | 0.033 | 1.00 | Nov | 0.85 | 0.97 | | | 0.03 | 0.30 | | | | 2.12 |
| 0-60-120-10-1 | acre | | | | | | | | | | | 1.0000 | 45.56 | 45.56 | 45.56 |
| Disk Bed (Hipper) | 12R-38 | MFWD 225 | 0.049 | 1.00 | Nov | 1.47 | 1.53 | 0.29 | 0.96 | 0.04 | 0.44 | | | | 4.69 |
| Sprayer(600-825Gal) | 90' | | 0.011 | 1.00 | Feb | 0.36 | 0.74 | | | 0.01 | 0.16 | | | | 1.26 |
| Glyphosate Plus | pt | | | | | | | | | | | 1.5000 | 1.97 | 2.96 | 2.96 |
| Clarity | pt | | | | | | | | | | | 0.5000 | 11.00 | 5.50 | 5.50 |
| Sprayer(600-825Gal) | 90' | | 0.011 | 0.25 | Apr | 0.09 | 0.19 | | | 0.00 | 0.04 | | | | 0.32 |
| Gramoxone Extra | pt | | | | | | | | | | | 0.2500 | 4.86 | 1.22 | 1.22 |
| Disk Bed (Hipper) | 12R-38 | MFWD 225 | 0.049 | 1.00 | Apr | 1.47 | 1.53 | 0.29 | 0.96 | 0.04 | 0.44 | | | | 4.69 |
| Row Cond (Harrow) | 38' | MFWD 225 | 0.039 | 1.00 | Apr | 1.17 | 1.22 | 0.16 | 0.86 | 0.03 | 0.35 | | | | 3.76 |
| Plant & Pre Folding | 12R-40 | MFWD 225 | 0.050 | 1.00 | May | 1.51 | 1.57 | 1.03 | 2.48 | 0.10 | 0.86 | | | | 7.45 |
| Cottonseed Bt/RR | thous | | | | | | | | | | | 45.0000 | 0.45 | 20.25 | 20.25 |
| BtRR Cott Tech Fee | S thous | | | | | | | | | | | 45.0000 | 1.06 | 47.70 | 47.70 |
| Gaucho Grande | thous | | | | | | | | | | | 45.0000 | 0.20 | 9.00 | 9.00 |
| Terraclor 15 G | lb | | | | | | | | | | | 7.0000 | 1.32 | 9.24 | 9.24 |
| Cotoran 4L | pt | | | | | | | | | | | 1.6000 | 4.79 | 7.66 | 7.66 |
| Fert Appl - T & O | 12r40 | MFWD 190 | 0.033 | 1.00 | May | 0.85 | 0.97 | | | 0.03 | 0.30 | | | | 2.12 |
| Urea, Solid (46% N) | lb | | | | | | | | | | | 109.0000 | 0.17 | 19.08 | 19.08 |
| Sprayer(600-825Gal) | 90' | | 0.011 | 1.00 | May | 0.36 | 0.74 | | | 0.01 | 0.16 | | | | 1.26 |
| Glyphosate Plus | pt | | | | | | | | | | | 1.5000 | 1.97 | 2.96 | 2.96 |
| Dual Magnum | pt | | | | | | | | | | | 1.0000 | 12.66 | 12.66 | 12.66 |
| Sprayer(600-750Gal) | 60' | | 0.017 | 1.00 | Jun | 0.53 | 1.05 | | | 0.02 | 0.23 | | | | 1.81 |
| Glyphosate Plus | pt | | | | | | | | | | | 1.5000 | 1.97 | 2.96 | 2.96 |
| Fert Appl - T & O | 12r40 | MFWD 190 | 0.033 | 1.00 | Jun | 0.85 | 0.97 | | | 0.03 | 0.30 | | | | 2.12 |
| Urea, Solid (46% N) | lb | | | | | | | | | | | 109.0000 | 0.17 | 19.08 | 19.08 |
| Spray (Direct/Hood) | 12R-38 | MFWD 170 | 0.044 | 1.00 | Jun | 1.03 | 1.23 | 0.35 | 0.53 | 0.06 | 0.57 | | | | 3.71 |
| Caparol 4L | pt | | | | | | | | | | | 0.7500 | 3.71 | 2.78 | 2.78 |
| Glyphosate Plus | pt | | | | | | | | | | | 1.0000 | 1.97 | 1.97 | 1.97 |
| Cstm Ap Air - 3 gal | appl | | | 1.00 | Jun | | | | | | | 1.0000 | 5.10 | 5.10 | 5.10 |
| Centric 40WG | oz | | | | | | | | | | | 2.0000 | 4.60 | 9.20 | 9.20 |
| Mepiquat Chloride | oz | | | | | | | | | | | 4.0000 | 0.15 | 0.63 | 0.63 |
| Spray (Band) | 40' Fold | MFWD 170 | 0.042 | 0.60 | Jun | 0.58 | 0.70 | 0.07 | 0.10 | 0.03 | 0.33 | | | | 1.78 |
| Valor SX | lb | | | | | | | | | | | 0.0562 | 65.50 | 3.68 | 3.68 |
| Glyphosate Plus | pt | | | | | | | | | | | 0.6000 | 1.97 | 1.18 | 1.18 |
| IrrPipe+lay+pickup | acre | | | 1.00 | Jun | | | | | | | 1.0000 | 10.30 | 10.30 | 10.30 |
| Cstm Ap Air - 5 gal | appl | | | 1.00 | Jul | | | | | | | 1.0000 | 5.50 | 5.50 | 5.50 |
| Trimax | oz | | | | | | | | | | | 1.5000 | 4.47 | 6.72 | 6.72 |
| Insect Scouting | acre | | | 1.00 | Jul | | | | | | | 1.0000 | 10.00 | 10.00 | 10.00 |
| Cstm Ap Air - 5 gal | appl | | | 1.00 | Jul | | | | | | | 1.0000 | 5.50 | 5.50 | 5.50 |
| Orthene 90S | lb | | | | | | | | | | | 0.5000 | 8.59 | 4.30 | 4.30 |
| Cstm Ap Air - 5 gal | appl | | | 1.00 | Jul | | | | | | | 1.0000 | 5.50 | 5.50 | 5.50 |
| Bidrin 8L | oz | | | | | | | | | | | 8.0000 | 0.76 | 6.16 | 6.16 |
| Mepiquat Chloride | oz | | | | | | | | | | | 10.0000 | 0.15 | 1.56 | 1.56 |
| Eradication Fee SE/C | ac | | | 1.00 | Jul | | | | | | | 1.0000 | 12.00 | 12.00 | 12.00 |
| Cstm Ap Air - 5 gal | appl | | | 1.00 | Jul | | | | | | | 1.0000 | 5.50 | 5.50 | 5.50 |
| Orthene 90S | lb | | | | | | | | | | | 0.5000 | 8.59 | 4.30 | 4.30 |

| | | | | | | | | | | | | | | | |
|-------------------------------|------------|----------|-------|------|-----|-------|-------|-------|-------|------|-------|---------|-------|--------|--------|
| Cstm Ap Air - 5 gal | appl | | | 1.00 | Jul | | | | | | | 1.0000 | 5.50 | 5.50 | 5.50 |
| Pyrethroid | ac | | | | | | | | | | | 1.0000 | 6.00 | 6.00 | 6.00 |
| Mepiquat Chloride | oz | | | | | | | | | | | 12.0000 | 0.15 | 1.88 | 1.88 |
| Cstm Ap Air - 5 gal | appl | | | 1.00 | Aug | | | | | | | 1.0000 | 5.50 | 5.50 | 5.50 |
| Bidrin 8L | oz | | | | | | | | | | | 8.0000 | 0.76 | 6.16 | 6.16 |
| Cstm Ap Air - 5 gal | appl | | | 1.00 | Aug | | | | | | | 1.0000 | 5.50 | 5.50 | 5.50 |
| Pyrethroid | ac | | | | | | | | | | | 1.0000 | 6.00 | 6.00 | 6.00 |
| Cstm Ap Air - 5 gal | appl | | | 1.00 | Sep | | | | | | | 1.0000 | 5.50 | 5.50 | 5.50 |
| Ethephon | pint | | | | | | | | | | | 0.4000 | 3.69 | 1.48 | 1.48 |
| Def 6 | pt | | | | | | | | | | | 0.5000 | 5.32 | 2.66 | 2.66 |
| Dropp 50 WP | lb | | | | | | | | | | | 0.1000 | 40.75 | 4.08 | 4.08 |
| Cstm Ap Air - 5 gal | appl | | | 1.00 | Sep | | | | | | | 1.0000 | 5.50 | 5.50 | 5.50 |
| Ethephon | pint | | | | | | | | | | | 1.6000 | 3.69 | 5.91 | 5.91 |
| Def 6 | pt | | | | | | | | | | | 0.6600 | 5.32 | 3.51 | 3.51 |
| Boll Buggy-1st pick | 6R-38(325) | MFWD 190 | 0.172 | 1.00 | Oct | 4.39 | 5.02 | 1.10 | 2.84 | 0.17 | 1.55 | | | | 14.90 |
| Cotton Picker-1st-BB | 6R-38(330) | | 0.172 | | | 16.35 | 47.15 | | | 0.34 | 2.89 | | | | 66.39 |
| Module Builder-1st | 6R-38(325) | MFWD 190 | 0.172 | 1.00 | Oct | 4.39 | 5.02 | 1.45 | 3.74 | 0.34 | 2.89 | | | | 17.49 |
| Furrow Irr. | each | | | 1.00 | Jun | | | | 25.32 | | | 0.0083 | | | 25.32 |
| Application 1 | ac-in | | | | | | | 7.54 | | 0.07 | 0.59 | 3.0000 | | | 8.13 |
| Application 2 | ac-in | | | | | | | 7.54 | | 0.07 | 0.59 | 3.0000 | | | 8.13 |
| Application 3 | ac-in | | | | | | | 7.54 | | 0.07 | 0.59 | 3.0000 | | | 8.13 |
| Application 4 | ac-in | | | | | | | 7.54 | | 0.07 | 0.59 | 3.0000 | | | 8.13 |
| TOTALS | | | | | | 43.19 | 78.40 | 37.86 | 43.76 | 1.95 | 16.70 | | | 372.89 | 592.80 |
| INTEREST ON OPERATING CAPITAL | | | | | | | | | | | | | | | 13.71 |
| UNALLOCATED LABOR | | | | | | | | | | | | | | | 0.00 |
| TOTAL SPECIFIED COST | | | | | | | | | | | | | | | 606.51 |

Information presented in this document is prepared solely as a general guide and is not intended to recognize or predict the costs and returns from any one particular farm operation. The mention of any commercial product in this analysis does not imply its endorsement by the University of Arkansas Cooperative Extension Service over other products not named, nor does the omission imply that they are not satisfactory. This budget does not include costs for land, overhead, or management.

Table 3. Alternative cotton production practices and which cotton budgets contain them.

| Production Practice | Cost per acre^a | Budget No. |
|---|--|---|
| Bud worm/boll worm control | | |
| Lannate (1 gal./ 4 acres) | \$19.23 | None |
| Larvin (1 gal./ 3.5 acres) | \$22.93 | None |
| Tracer (1 gal./ 64 acres) | \$18.41 | None |
| Tracer (1/2 rate) + Pyretheroid | \$18.19 | None |
| Defoliation for Irrigated Cotton | \$27.79 | All budgets except: AG-1027, 1038, and 1048 |
| Defoliation for Dryland Cotton | \$19.55 | AG-1027, 1038, and 1048 |
| Cruiser seed treatment | \$9.31 | AG-1027, 1028, 1029, 1030, 1032, 1033, 1034, 1035, 1036, 1038, 1039, 1040, 1042, 1043, 1044, 1045, 1047, 1048, 1049, 1050, 1051, 1053, 1054, 1055 |
| Gaucho seed treatment | \$9.31 | AG-1031 and 1041 |
| Avicta Complete Pak seed treatment | \$21.60 | None |
| Harvest 4 row harvester, first pick ^b | \$66.96 | AG-1027, 1028, 1029, 1030, 1038, 1047, and 1054 |
| 4 row harvester, second pick ^b | \$56.73 | None |
| 6 row harvester, (38" rows), first pick ^b | \$66.39 | All budgets except: AG-1027, 1028, 1029, 1030, 1038, 1047, and 10542 |
| 6 row harvester, (38" rows), second pick ^b | \$56.23 | None |
| Irrigation, furrow (3 ac. in) | \$8.35 per app. Plus a fixed cost of \$25.32 | AG-1030, 1031, 1033, 1034, 1035, 1036, 1037, 1040, 1041, 1042, 1043, 1044, 1048, 1049, and 1050 |
| Irrigation, center pivot (1 ac. in) | \$5.75 per app. Plus a fixed cost of \$69.24 | AG-1028, 1029, 1032, 1039, 1045, 1046, 1051, 1052, 1053, 1054, and 1055 |
| Irrigation, furrow, stationary relift (3 ac. in) | \$4.63 per app. Plus a fixed cost of \$24.79 | None |
| Module Builder | \$26.19 | All |
| Row cultivate plus directed spray | \$6.42 + material | None |
| Staple herbicide banded application (0.6 oz) | \$14.40 | None |
| Prowl, and Incorporate (1.2 pints) | \$8.55 | None |
| Treflan, Incorporated application (0.75 pints) | \$9.16 | None |
| Treflan and Incorporate (1.5 pints) | \$10.98 | None |

^a Machinery costs per acre assume that each machine is fully utilized on the farm.

^bThis harvest cost includes the direct and fixed costs of the cotton picker only.

The authors gratefully acknowledge the contributions of Ken Smith, Glenn Studebaker, and Gus Lorenz in the construction of the 2007 cotton budgets. For additional information on cotton economics contact Rob Hogan at the Northeast Research and Extension Center 870-526-2199 extension 108.

View and print all of the Arkansas crop budgets at http://www.uaex.edu/depts/ag_economics/crop_budgets.htm

Estimating 2007 Costs of Production, Cotton
Southeast/Central Boll Weevil Eradication Zone, Center Pivot, 12 Row,
State Seedbed, BGII/RRF
AG-1032-12-06

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|---------------------------------|-------|---------|----------|---------|-----------|
| | | dollars | | dollars | |
| DIRECT EXPENSES | | | | | |
| HARVEST AIDS | | | | | |
| Def 6 | pt | 5.32 | 0.7750 | 4.12 | _____ |
| Dropp 50 WP | lb | 40.75 | 0.1000 | 4.08 | _____ |
| Ethephon | pint | 3.69 | 1.9000 | 7.02 | _____ |
| FERTILIZERS | | | | | |
| 0-60-120-10-1 | acre | 45.56 | 1.0000 | 45.56 | _____ |
| Urea, Solid (46% N) | lb | 0.17 | 218.0000 | 38.15 | _____ |
| FUNGICIDES | | | | | |
| Terraclor 15 G | lb | 1.32 | 7.0000 | 9.24 | _____ |
| HERBICIDES | | | | | |
| Glyphosate Plus | pt | 1.97 | 6.1000 | 12.02 | _____ |
| Clarity | pt | 11.00 | 0.5000 | 5.50 | _____ |
| Gramoxone Extra | pt | 4.86 | 0.2500 | 1.22 | _____ |
| Dual Magnum | pt | 12.66 | 1.0000 | 12.66 | _____ |
| Caparol 4L | pt | 3.71 | 0.7500 | 2.78 | _____ |
| Valor SX | lb | 65.50 | 0.0562 | 3.68 | _____ |
| INSECTICIDES | | | | | |
| Centric 40WG | oz | 4.60 | 2.0000 | 9.20 | _____ |
| Trimax | oz | 4.47 | 1.5000 | 6.72 | _____ |
| Orthene 90S | lb | 8.59 | 1.0000 | 8.59 | _____ |
| Bidrin 8L | oz | 0.76 | 16.0000 | 12.31 | _____ |
| Pyrethroid | ac | 6.00 | 2.0000 | 12.00 | _____ |
| CROP SEED | | | | | |
| Cottonsd BGII/RRFlex | thous | 0.48 | 45.0000 | 21.60 | _____ |
| Cruiser Seed Trmnt | thous | 0.20 | 45.0000 | 9.00 | _____ |
| TECHNOLOGY FEE | | | | | |
| BGII/RRF Tech S | thous | 1.42 | 45.0000 | 63.90 | _____ |
| Eradication Fee SE/C | ac | 12.00 | 1.0000 | 12.00 | _____ |
| GROWTH REGULATORS | | | | | |
| Mepiquat Chloride | oz | 0.15 | 26.0000 | 4.06 | _____ |
| CUSTOM HIRE | | | | | |
| Cstm Ap Air - 3 gal | appl | 5.10 | 1.0000 | 5.10 | _____ |
| Cstm Ap Air - 5 gal | appl | 5.50 | 9.0000 | 49.50 | _____ |
| Insect Scouting | acre | 10.00 | 1.0000 | 10.00 | _____ |
| OPERATOR LABOR | | | | | |
| Tractors | hour | 9.00 | 0.8439 | 7.59 | _____ |
| Self-Propelled | hour | 9.00 | 0.2104 | 1.91 | _____ |
| IRRIGATION LABOR | | | | | |
| Center pivot Irr. | hour | 7.80 | 0.0568 | 0.42 | _____ |
| HAND LABOR | | | | | |
| Implements | hour | 7.80 | 0.2580 | 2.01 | _____ |
| Self-Propelled | hour | 7.80 | 0.1914 | 1.50 | _____ |
| DIESEL FUEL | | | | | |
| Tractors | gal | 2.22 | 8.4570 | 18.76 | _____ |
| Self-Propelled | gal | 2.22 | 3.3198 | 7.38 | _____ |
| Center pivot Irr. | gal | 2.22 | 14.0000 | 31.08 | _____ |
| REPAIR & MAINTENANCE | | | | | |
| Implements | acre | 6.33 | 1.0000 | 6.33 | _____ |
| Tractors | acre | 3.19 | 1.0000 | 3.19 | _____ |
| Self-Propelled | acre | 10.14 | 1.0000 | 10.14 | _____ |
| Center pivot Irr. | ac-in | 1.09 | 7.0000 | 7.70 | _____ |
| INTEREST ON OP. CAP. | acre | 14.00 | 1.0000 | 14.00 | _____ |
| TOTAL DIRECT EXPENSES | | | | 482.08 | _____ |
| FIXED EXPENSES | | | | | |
| Implements | acre | 13.82 | 1.0000 | 13.82 | _____ |
| Tractors | acre | 24.45 | 1.0000 | 24.45 | _____ |
| Self-Propelled | acre | 49.56 | 1.0000 | 49.56 | _____ |
| Center pivot Irr. | each | 9000.94 | 0.0076 | 69.24 | _____ |
| TOTAL FIXED EXPENSES | | | | 157.07 | _____ |
| TOTAL SPECIFIED EXPENSES | | | | 639.15 | _____ |

Robert Hogan, Jr.
Extension
Economist
 – Farm
Management

H. Scott Stiles
Extension
Economist – Risk
Management

Frank Groves
Research
Verification
Coordinator

Table 2. Estimated resource use and costs for field operations, per acre, AG-1032, SE, CP, 12R, Stale, BGII/RRF, University of Arkansas

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | POWER UNIT SIZE | PERF RATE | TIMES OVER | MTH | POWER UNIT COST | | EQUIPMENT COST | | ALLOC LABOR | | OPERATING/DURABLE INPUT | | | TOTAL COST |
|-------------------------------|---------------|--------------------|--------------|---------------|-----|-------------------|-------|----------------|-------|-------------|------|-------------------------|-------|-------|---------------|
| | | | | | | DIRECT | FIXED | DIRECT | FIXED | HOURS | COST | AMOUNT | PRICE | COST | |
| | | | | | | -----dollars----- | | | | dollars | | -----dollars----- | | | |
| Stalk Shredder-Flail | 20' | MFWD 150 | 0.082 | 1.00 | Oct | 1.67 | 1.92 | 1.29 | 0.98 | 0.08 | 0.74 | | | | 6.60 |
| TerraTill Bed w/roll | 6R-38 | MFWD 225 | 0.107 | 1.00 | Nov | 3.19 | 3.33 | 0.59 | 1.33 | 0.10 | 0.97 | | | | 9.41 |
| Fert Appl - T & O | 12r40 | MFWD 190 | 0.033 | 1.00 | Nov | 0.85 | 0.97 | | | 0.03 | 0.30 | | | | 2.12 |
| 0-60-120-10-1 | acre | | | | | | | | | | | 1.0000 | 45.56 | 45.56 | 45.56 |
| Disk Bed (Hipper) | 12R-38 | MFWD 225 | 0.049 | 1.00 | Nov | 1.47 | 1.53 | 0.29 | 0.96 | 0.04 | 0.44 | | | | 4.69 |
| Sprayer(600-825Gal) | 90' | | 0.011 | 1.00 | Feb | 0.36 | 0.74 | | | 0.01 | 0.16 | | | | 1.26 |
| Glyphosate Plus | pt | | | | | | | | | | | 1.5000 | 1.97 | 2.96 | 2.96 |
| Clarity | pt | | | | | | | | | | | 0.5000 | 11.00 | 5.50 | 5.50 |
| Sprayer(600-825Gal) | 90' | | 0.011 | 0.25 | Apr | 0.09 | 0.19 | | | 0.00 | 0.04 | | | | 0.32 |
| Gramoxone Extra | pt | | | | | | | | | | | 0.2500 | 4.86 | 1.22 | 1.22 |
| Row Cond (Harrow) | 38' | MFWD 225 | 0.039 | 1.00 | Apr | 1.17 | 1.22 | 0.16 | 0.86 | 0.03 | 0.35 | | | | 3.76 |
| Plant & Pre Folding | 12R-40 | MFWD 225 | 0.050 | 1.00 | May | 1.51 | 1.57 | 1.03 | 2.48 | 0.10 | 0.86 | | | | 7.45 |
| Cottonsd BGII/RRFlex | thous | | | | | | | | | | | 45.0000 | 0.48 | 21.60 | 21.60 |
| BGII/RRF Tech S | thous | | | | | | | | | | | 45.0000 | 1.42 | 63.90 | 63.90 |
| Cruiser Seed Trmnt | thous | | | | | | | | | | | 45.0000 | 0.20 | 9.00 | 9.00 |
| Terraclor 15 G | lb | | | | | | | | | | | 7.0000 | 1.32 | 9.24 | 9.24 |
| Fert Appl - T & O | 12r40 | MFWD 190 | 0.033 | 1.00 | May | 0.85 | 0.97 | | | 0.03 | 0.30 | | | | 2.12 |
| Urea, Solid (46% N) | lb | | | | | | | | | | | 109.0000 | 0.17 | 19.08 | 19.08 |
| Sprayer(600-825Gal) | 90' | | 0.011 | 1.00 | May | 0.36 | 0.74 | | | 0.01 | 0.16 | | | | 1.26 |
| Glyphosate Plus | pt | | | | | | | | | | | 1.5000 | 1.97 | 2.96 | 2.96 |
| Dual Magnum | pt | | | | | | | | | | | 1.0000 | 12.66 | 12.66 | 12.66 |
| Sprayer(600-825Gal) | 90' | | 0.011 | 1.00 | May | 0.36 | 0.74 | | | 0.01 | 0.16 | | | | 1.26 |
| Glyphosate Plus | pt | | | | | | | | | | | 1.5000 | 1.97 | 2.96 | 2.96 |
| Fert Appl - T & O | 12r40 | MFWD 190 | 0.033 | 1.00 | Jun | 0.85 | 0.97 | | | 0.03 | 0.30 | | | | 2.12 |
| Urea, Solid (46% N) | lb | | | | | | | | | | | 109.0000 | 0.17 | 19.08 | 19.08 |
| Spray (Direct/Hood) | 12R-38 | MFWD 170 | 0.044 | 1.00 | Jun | 1.03 | 1.23 | 0.35 | 0.53 | 0.06 | 0.57 | | | | 3.71 |
| Caparol 4L | pt | | | | | | | | | | | 0.7500 | 3.71 | 2.78 | 2.78 |
| Glyphosate Plus | pt | | | | | | | | | | | 1.0000 | 1.97 | 1.97 | 1.97 |
| Cstm Ap Air - 3 gal | appl | | | 1.00 | Jun | | | | | | | 1.0000 | 5.10 | 5.10 | 5.10 |
| Centric 40WG | oz | | | | | | | | | | | 2.0000 | 4.60 | 9.20 | 9.20 |
| Mepiquat Chloride | oz | | | | | | | | | | | 4.0000 | 0.15 | 0.63 | 0.63 |
| Spray (Band) | 40' Fold | MFWD 170 | 0.042 | 0.60 | Jun | 0.58 | 0.70 | 0.07 | 0.10 | 0.03 | 0.33 | | | | 1.78 |
| Valor SX | lb | | | | | | | | | | | 0.0562 | 65.50 | 3.68 | 3.68 |
| Glyphosate Plus | pt | | | | | | | | | | | 0.6000 | 1.97 | 1.18 | 1.18 |
| Cstm Ap Air - 5 gal | appl | | | 1.00 | Jul | | | | | | | 1.0000 | 5.50 | 5.50 | 5.50 |
| Trimax | oz | | | | | | | | | | | 1.5000 | 4.47 | 6.72 | 6.72 |
| Insect Scouting | acre | | | 1.00 | Jul | | | | | | | 1.0000 | 10.00 | 10.00 | 10.00 |
| Cstm Ap Air - 5 gal | appl | | | 1.00 | Jul | | | | | | | 1.0000 | 5.50 | 5.50 | 5.50 |
| Orthene 90S | lb | | | | | | | | | | | 0.5000 | 8.59 | 4.30 | 4.30 |
| Cstm Ap Air - 5 gal | appl | | | 1.00 | Jul | | | | | | | 1.0000 | 5.50 | 5.50 | 5.50 |
| Bidrin 8L | oz | | | | | | | | | | | 8.0000 | 0.76 | 6.16 | 6.16 |
| Mepiquat Chloride | oz | | | | | | | | | | | 10.0000 | 0.15 | 1.56 | 1.56 |
| Eradication Fee SE/C | ac | | | 1.00 | Jul | | | | | | | 1.0000 | 12.00 | 12.00 | 12.00 |
| Cstm Ap Air - 5 gal | appl | | | 1.00 | Jul | | | | | | | 1.0000 | 5.50 | 5.50 | 5.50 |
| Orthene 90S | lb | | | | | | | | | | | 0.5000 | 8.59 | 4.30 | 4.30 |
| Cstm Ap Air - 5 gal | appl | | | 1.00 | Jul | | | | | | | 1.0000 | 5.50 | 5.50 | 5.50 |
| Pyrethroid | ac | | | | | | | | | | | 1.0000 | 6.00 | 6.00 | 6.00 |
| Mepiquat Chloride | oz | | | | | | | | | | | 12.0000 | 0.15 | 1.88 | 1.88 |
| Cstm Ap Air - 5 gal | appl | | | 1.00 | Aug | | | | | | | 1.0000 | 5.50 | 5.50 | 5.50 |
| Bidrin 8L | oz | | | | | | | | | | | 8.0000 | 0.76 | 6.16 | 6.16 |
| Cstm Ap Air - 5 gal | appl | | | 1.00 | Aug | | | | | | | 1.0000 | 5.50 | 5.50 | 5.50 |

| | | | | | | | | | | | | | | | |
|-------------------------------|------------|----------|-------|------|-----|-------|-------|-------|-------|------|-------|--------|-------|--------|--------|
| Pyrethroid | ac | | | | | | | | | | | 1.0000 | 6.00 | 6.00 | 6.00 |
| Cstm Ap Air - 5 gal | appl | 1.00 | Sep | | | | | | | | | 1.0000 | 5.50 | 5.50 | 5.50 |
| Def 6 | pt | | | | | | | | | | | 0.4000 | 5.32 | 2.13 | 2.13 |
| Dropp 50 WP | lb | | | | | | | | | | | 0.1000 | 40.75 | 4.08 | 4.08 |
| Ethephon | pint | | | | | | | | | | | 0.4000 | 3.69 | 1.48 | 1.48 |
| Cstm Ap Air - 5 gal | appl | 1.00 | Sep | | | | | | | | | 1.0000 | 5.50 | 5.50 | 5.50 |
| Def 6 | pt | | | | | | | | | | | 0.3750 | 5.32 | 2.00 | 2.00 |
| Ethephon | pint | | | | | | | | | | | 1.5000 | 3.69 | 5.54 | 5.54 |
| Boll Buggy-1st pick | 6R-38(325) | MFWD 190 | 0.172 | 1.00 | Oct | 4.39 | 5.02 | 1.10 | 2.84 | 0.17 | 1.55 | | | | 14.90 |
| Cotton Picker-1st-BB | 6R-38(330) | | 0.172 | | | 16.35 | 47.15 | | | 0.34 | 2.89 | | | | 66.39 |
| Module Builder-1st | 6R-38(325) | MFWD 190 | 0.172 | 1.00 | Oct | 4.39 | 5.02 | 1.45 | 3.74 | 0.34 | 2.89 | | | | 17.49 |
| Center pivot Irr. | each | | 1.00 | Jun | | | | | 69.24 | | | 0.0076 | | | 69.24 |
| Application 1 | ac-in | | | | | | | 5.54 | | 0.00 | 0.06 | 1.0000 | | | 5.60 |
| Application 2 | ac-in | | | | | | | 5.54 | | 0.00 | 0.06 | 1.0000 | | | 5.60 |
| Application 3 | ac-in | | | | | | | 5.54 | | 0.00 | 0.06 | 1.0000 | | | 5.60 |
| Application 4 | ac-in | | | | | | | 5.54 | | 0.00 | 0.06 | 1.0000 | | | 5.60 |
| Application 5 | ac-in | | | | | | | 5.54 | | 0.00 | 0.06 | 1.0000 | | | 5.60 |
| Application 6 | ac-in | | | | | | | 5.54 | | 0.00 | 0.06 | 1.0000 | | | 5.60 |
| Application 7 | ac-in | | | | | | | 5.54 | | 0.00 | 0.06 | 1.0000 | | | 5.60 |
| TOTALS | | | | | | 39.47 | 74.01 | 45.11 | 83.06 | 1.56 | 13.43 | | | 370.07 | 625.15 |
| INTEREST ON OPERATING CAPITAL | | | | | | | | | | | | | | | 14.00 |
| UNALLOCATED LABOR | | | | | | | | | | | | | | | 0.00 |
| TOTAL SPECIFIED COST | | | | | | | | | | | | | | | 639.15 |

Information presented in this document is prepared solely as a general guide and is not intended to recognize or predict the costs and returns from any one particular farm operation. The mention of any commercial product in this analysis does not imply its endorsement by the University of Arkansas Cooperative Extension Service over other products not named, nor does the omission imply that they are not satisfactory. This budget does not include costs for land, overhead, or management.

Table 3. Alternative cotton production practices and which cotton budgets contain them.

| Production Practice | Cost per acre^a | Budget No. |
|---|--|---|
| Bud worm/boll worm control | | |
| Lannate (1 gal./ 4 acres) | \$19.23 | None |
| Larvin (1 gal./ 3.5 acres) | \$22.93 | None |
| Tracer (1 gal./ 64 acres) | \$18.41 | None |
| Tracer (1/2 rate) + Pyretheroid | \$18.19 | None |
| Defoliation for Irrigated Cotton | \$27.79 | All budgets except: AG-1027, 1038, and 1048 |
| Defoliation for Dryland Cotton | \$19.55 | AG-1027, 1038, and 1048 |
| Cruiser seed treatment | \$9.31 | AG-1027, 1028, 1029, 1030, 1032, 1033, 1034, 1035, 1036, 1038, 1039, 1040, 1042, 1043, 1044, 1045, 1047, 1048, 1049, 1050, 1051, 1053, 1054, 1055 |
| Gaucho seed treatment | \$9.31 | AG-1031 and 1041 |
| Avicta Complete Pak seed treatment | \$21.60 | None |
| Harvest 4 row harvester, first pick ^b | \$66.96 | AG-1027, 1028, 1029, 1030, 1038, 1047, and 1054 |
| 4 row harvester, second pick ^b | \$56.73 | None |
| 6 row harvester, (38" rows), first pick ^b | \$66.39 | All budgets except: AG-1027, 1028, 1029, 1030, 1038, 1047, and 10542 |
| 6 row harvester, (38" rows), second pick ^b | \$56.23 | None |
| Irrigation, furrow (3 ac. in) | \$8.35 per app. Plus a fixed cost of \$25.32 | AG-1030, 1031, 1033, 1034, 1035, 1036, 1037, 1040, 1041, 1042, 1043, 1044, 1048, 1049, and 1050 |
| Irrigation, center pivot (1 ac. in) | \$5.75 per app. Plus a fixed cost of \$69.24 | AG-1028, 1029, 1032, 1039, 1045, 1046, 1051, 1052, 1053, 1054, and 1055 |
| Irrigation, furrow, stationary relift (3 ac. in) | \$4.63 per app. Plus a fixed cost of \$24.79 | None |
| Module Builder | \$26.19 | All |
| Row cultivate plus directed spray | \$6.42 + material | None |
| Staple herbicide banded application (0.6 oz) | \$14.40 | None |
| Prowl, and Incorporate (1.2 pints) | \$8.55 | None |
| Treflan, Incorporated application (0.75 pints) | \$9.16 | None |
| Treflan and Incorporate (1.5 pints) | \$10.98 | None |

^a Machinery costs per acre assume that each machine is fully utilized on the farm.

^bThis harvest cost includes the direct and fixed costs of the cotton picker only.

The authors gratefully acknowledge the contributions of Ken Smith, Glenn Studebaker, and Gus Lorenz in the construction of the 2007 cotton budgets. For additional information on cotton economics contact Rob Hogan at the Northeast Research and Extension Center 870-526-2199 extension 108.

View and print all of the Arkansas crop budgets at http://www.uaex.edu/depts/ag_economics/crop_budgets.htm

Estimating 2007 Costs of Production, Cotton
Southeast/Central Boll Weevil Eradication Zone, Furrow, 12 Row,
Stale Seedbed, BGII/RRF, AG-1033-12-06

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|---------------------------------|-------|---------|----------|---------|-----------|
| | | dollars | | dollars | |
| DIRECT EXPENSES | | | | | |
| HARVEST AIDS | | | | | |
| Aim | oz | 5.42 | 1.0000 | 5.42 | _____ |
| Dropp 50 WP | lb | 40.75 | 0.1000 | 4.08 | _____ |
| Finish 6 | pt | 7.50 | 0.3300 | 2.48 | _____ |
| Ethephon | pint | 3.69 | 1.6000 | 5.91 | _____ |
| FERTILIZERS | | | | | |
| 0-60-120-10-1 | acre | 45.56 | 1.0000 | 45.56 | _____ |
| Urea, Solid (46% N) | lb | 0.17 | 218.0000 | 38.15 | _____ |
| FUNGICIDES | | | | | |
| Terraclor 15 G | lb | 1.32 | 7.0000 | 9.24 | _____ |
| HERBICIDES | | | | | |
| Glyphosate Plus | pt | 1.97 | 6.1000 | 12.02 | _____ |
| Clarity | pt | 11.00 | 0.5000 | 5.50 | _____ |
| Gramoxone Extra | pt | 4.86 | 0.2500 | 1.22 | _____ |
| Dual Magnum | pt | 12.66 | 1.0000 | 12.66 | _____ |
| Caparol 4L | pt | 3.71 | 0.7500 | 2.78 | _____ |
| Valor SX | lb | 65.50 | 0.0562 | 3.68 | _____ |
| INSECTICIDES | | | | | |
| Centric 40WG | oz | 4.60 | 2.0000 | 9.20 | _____ |
| Trimax | oz | 4.47 | 1.5000 | 6.72 | _____ |
| Orthene 90S | lb | 8.59 | 1.0000 | 8.59 | _____ |
| Bidrin 8L | oz | 0.76 | 16.0000 | 12.31 | _____ |
| Pyrethroid | ac | 6.00 | 2.0000 | 12.00 | _____ |
| IRRIGATION SUPPLIES | | | | | |
| IrrPipe+lay+pickup | acre | 10.30 | 1.0000 | 10.30 | _____ |
| CROP SEED | | | | | |
| Cottonsd BGII/RRFlex | thous | 0.48 | 45.0000 | 21.60 | _____ |
| Cruiser Seed Trmnt | thous | 0.20 | 45.0000 | 9.00 | _____ |
| TECHNOLOGY FEE | | | | | |
| BGII/RRF Tech S | thous | 1.42 | 45.0000 | 63.90 | _____ |
| Eradication Fee SE/C | ac | 12.00 | 1.0000 | 12.00 | _____ |
| GROWTH REGULATORS | | | | | |
| Mepiquat Chloride | oz | 0.15 | 26.0000 | 4.06 | _____ |
| ADJUVANTS | | | | | |
| Surfactant (80-20) | pt | 1.25 | 0.4000 | 0.50 | _____ |
| CUSTOM HIRE | | | | | |
| Cstm Ap Air - 3 gal | appl | 5.10 | 1.0000 | 5.10 | _____ |
| Cstm Ap Air - 5 gal | appl | 5.50 | 9.0000 | 49.50 | _____ |
| Insect Scouting | acre | 10.00 | 1.0000 | 10.00 | _____ |
| OPERATOR LABOR | | | | | |
| Tractors | hour | 9.00 | 0.8439 | 7.59 | _____ |
| Self-Propelled | hour | 9.00 | 0.2104 | 1.91 | _____ |
| IRRIGATION LABOR | | | | | |
| Furrow Irr. | hour | 7.80 | 0.3017 | 2.36 | _____ |
| HAND LABOR | | | | | |
| Implements | hour | 7.80 | 0.2580 | 2.01 | _____ |
| Self-Propelled | hour | 7.80 | 0.1914 | 1.50 | _____ |
| DIESEL FUEL | | | | | |
| Tractors | gal | 2.22 | 8.4570 | 18.76 | _____ |
| Self-Propelled | gal | 2.22 | 3.3198 | 7.38 | _____ |
| Furrow Irr. | gal | 2.22 | 12.0000 | 26.64 | _____ |
| REPAIR & MAINTENANCE | | | | | |
| Implements | acre | 6.33 | 1.0000 | 6.33 | _____ |
| Tractors | acre | 3.19 | 1.0000 | 3.19 | _____ |
| Self-Propelled | acre | 10.14 | 1.0000 | 10.14 | _____ |
| Furrow Irr. | ac-in | 0.29 | 12.0000 | 3.52 | _____ |
| INTEREST ON OP. CAP. | acre | 14.18 | 1.0000 | 14.18 | _____ |
| TOTAL DIRECT EXPENSES | | | | 489.04 | _____ |
| FIXED EXPENSES | | | | | |
| Implements | acre | 13.82 | 1.0000 | 13.82 | _____ |
| Tractors | acre | 24.45 | 1.0000 | 24.45 | _____ |
| Self-Propelled | acre | 49.56 | 1.0000 | 49.56 | _____ |
| Furrow Irr. | each | 3038.56 | 0.0083 | 25.32 | _____ |
| TOTAL FIXED EXPENSES | | | | 113.15 | _____ |
| TOTAL SPECIFIED EXPENSES | | | | 602.19 | _____ |

Robert Hogan, Jr.
Extension
Economist
 – Farm
Management

H. Scott Stiles
Extension
Economist – Risk
Management

Frank Groves
Research
Verification
Coordinator

Table 2. Estimated resource use and costs for field operations, per acre, AG-1033, SE, Furrow, 12R, Stale, BGII/RRF, University of Arkansas

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | POWER UNIT SIZE | PERF TIMES | | | POWER UNIT COST | | EQUIPMENT COST | | ALLOC LABOR | | OPERATING/DURABLE INPUT | | | TOTAL COST |
|-------------------------------|---------------|--------------------|------------|------|-----|-------------------|-------|----------------|-------|-------------|------|-------------------------|-------|-------|---------------|
| | | | RATE | OVER | MTH | DIRECT | FIXED | DIRECT | FIXED | HOURS | COST | AMOUNT | PRICE | COST | |
| | | | | | | -----dollars----- | | | | dollars | | -----dollars----- | | | |
| Stalk Shredder-Flail | 20' | MFWD 150 | 0.082 | 1.00 | Oct | 1.67 | 1.92 | 1.29 | 0.98 | 0.08 | 0.74 | | | | 6.60 |
| TerraTill Bed w/roll | 6R-38 | MFWD 225 | 0.107 | 1.00 | Nov | 3.19 | 3.33 | 0.59 | 1.33 | 0.10 | 0.97 | | | | 9.41 |
| Fert Appl - T & O | 12r40 | MFWD 190 | 0.033 | 1.00 | Nov | 0.85 | 0.97 | | | 0.03 | 0.30 | | | | 2.12 |
| 0-60-120-10-1 | acre | | | | | | | | | | | 1.0000 | 45.56 | 45.56 | 45.56 |
| Disk Bed (Hipper) | 12R-38 | MFWD 225 | 0.049 | 1.00 | Nov | 1.47 | 1.53 | 0.29 | 0.96 | 0.04 | 0.44 | | | | 4.69 |
| Sprayer(600-825Gal) | 90' | | 0.011 | 1.00 | Feb | 0.36 | 0.74 | | | 0.01 | 0.16 | | | | 1.26 |
| Glyphosate Plus | pt | | | | | | | | | | | 1.5000 | 1.97 | 2.96 | 2.96 |
| Clarity | pt | | | | | | | | | | | 0.5000 | 11.00 | 5.50 | 5.50 |
| Sprayer(600-825Gal) | 90' | | 0.011 | 0.25 | Apr | 0.09 | 0.19 | | | 0.00 | 0.04 | | | | 0.32 |
| Gramoxone Extra | pt | | | | | | | | | | | 0.2500 | 4.86 | 1.22 | 1.22 |
| Row Cond (Harrow) | 38' | MFWD 225 | 0.039 | 1.00 | Apr | 1.17 | 1.22 | 0.16 | 0.86 | 0.03 | 0.35 | | | | 3.76 |
| Plant & Pre Folding | 12R-40 | MFWD 225 | 0.050 | 1.00 | May | 1.51 | 1.57 | 1.03 | 2.48 | 0.10 | 0.86 | | | | 7.45 |
| Cottonsd BGII/RRFlex | thous | | | | | | | | | | | 45.0000 | 0.48 | 21.60 | 21.60 |
| BGII/RRF Tech S | thous | | | | | | | | | | | 45.0000 | 1.42 | 63.90 | 63.90 |
| Cruiser Seed Trmnt | thous | | | | | | | | | | | 45.0000 | 0.20 | 9.00 | 9.00 |
| Terraclor 15 G | lb | | | | | | | | | | | 7.0000 | 1.32 | 9.24 | 9.24 |
| Fert Appl - T & O | 12r40 | MFWD 190 | 0.033 | 1.00 | May | 0.85 | 0.97 | | | 0.03 | 0.30 | | | | 2.12 |
| Urea, Solid (46% N) | lb | | | | | | | | | | | 109.0000 | 0.17 | 19.08 | 19.08 |
| Sprayer(600-825Gal) | 90' | | 0.011 | 1.00 | May | 0.36 | 0.74 | | | 0.01 | 0.16 | | | | 1.26 |
| Glyphosate Plus | pt | | | | | | | | | | | 1.5000 | 1.97 | 2.96 | 2.96 |
| Dual Magnum | pt | | | | | | | | | | | 1.0000 | 12.66 | 12.66 | 12.66 |
| Sprayer(600-825Gal) | 90' | | 0.011 | 1.00 | May | 0.36 | 0.74 | | | 0.01 | 0.16 | | | | 1.26 |
| Glyphosate Plus | pt | | | | | | | | | | | 1.5000 | 1.97 | 2.96 | 2.96 |
| Fert Appl - T & O | 12r40 | MFWD 190 | 0.033 | 1.00 | Jun | 0.85 | 0.97 | | | 0.03 | 0.30 | | | | 2.12 |
| Urea, Solid (46% N) | lb | | | | | | | | | | | 109.0000 | 0.17 | 19.08 | 19.08 |
| Spray (Direct/Hood) | 12R-38 | MFWD 170 | 0.044 | 1.00 | Jun | 1.03 | 1.23 | 0.35 | 0.53 | 0.06 | 0.57 | | | | 3.71 |
| Caparol 4L | pt | | | | | | | | | | | 0.7500 | 3.71 | 2.78 | 2.78 |
| Glyphosate Plus | pt | | | | | | | | | | | 1.0000 | 1.97 | 1.97 | 1.97 |
| Cstm Ap Air - 3 gal | appl | | | 1.00 | Jun | | | | | | | 1.0000 | 5.10 | 5.10 | 5.10 |
| Centric 40WG | oz | | | | | | | | | | | 2.0000 | 4.60 | 9.20 | 9.20 |
| Mepiquat Chloride | oz | | | | | | | | | | | 4.0000 | 0.15 | 0.63 | 0.63 |
| Spray (Band) | 40' Fold | MFWD 170 | 0.042 | 0.60 | Jun | 0.58 | 0.70 | 0.07 | 0.10 | 0.03 | 0.33 | | | | 1.78 |
| Valor SX | lb | | | | | | | | | | | 0.0562 | 65.50 | 3.68 | 3.68 |
| Glyphosate Plus | pt | | | | | | | | | | | 0.6000 | 1.97 | 1.18 | 1.18 |
| IrrPipe+lay+pickup | acre | | | 1.00 | Jun | | | | | | | 1.0000 | 10.30 | 10.30 | 10.30 |
| Cstm Ap Air - 5 gal | appl | | | 1.00 | Jul | | | | | | | 1.0000 | 5.50 | 5.50 | 5.50 |
| Trimax | oz | | | | | | | | | | | 1.5000 | 4.47 | 6.72 | 6.72 |
| Insect Scouting | acre | | | 1.00 | Jul | | | | | | | 1.0000 | 10.00 | 10.00 | 10.00 |
| Cstm Ap Air - 5 gal | appl | | | 1.00 | Jul | | | | | | | 1.0000 | 5.50 | 5.50 | 5.50 |
| Orthene 90S | lb | | | | | | | | | | | 0.5000 | 8.59 | 4.30 | 4.30 |
| Cstm Ap Air - 5 gal | appl | | | 1.00 | Jul | | | | | | | 1.0000 | 5.50 | 5.50 | 5.50 |
| Bidrin 8L | oz | | | | | | | | | | | 8.0000 | 0.76 | 6.16 | 6.16 |
| Mepiquat Chloride | oz | | | | | | | | | | | 10.0000 | 0.15 | 1.56 | 1.56 |
| Eradication Fee SE/C | ac | | | 1.00 | Jul | | | | | | | 1.0000 | 12.00 | 12.00 | 12.00 |
| Cstm Ap Air - 5 gal | appl | | | 1.00 | Jul | | | | | | | 1.0000 | 5.50 | 5.50 | 5.50 |
| Orthene 90S | lb | | | | | | | | | | | 0.5000 | 8.59 | 4.30 | 4.30 |
| Cstm Ap Air - 5 gal | appl | | | 1.00 | Jul | | | | | | | 1.0000 | 5.50 | 5.50 | 5.50 |
| Pyrethroid | ac | | | | | | | | | | | 1.0000 | 6.00 | 6.00 | 6.00 |
| Mepiquat Chloride | oz | | | | | | | | | | | 12.0000 | 0.15 | 1.88 | 1.88 |
| Cstm Ap Air - 5 gal | appl | | | 1.00 | Aug | | | | | | | 1.0000 | 5.50 | 5.50 | 5.50 |

| | | | | | | | | | | | | | | | | |
|-------------------------------|------------|----------|-------|------|-----|-------|-------|-------|-------|-------|-------|--|--------|-------|--------|--------|
| Bidrin 8L | oz | | | | | | | | | | | | 8.0000 | 0.76 | 6.16 | 6.16 |
| Cstm Ap Air - 5 gal | appl | 1.00 | Aug | | | | | | | | | | 1.0000 | 5.50 | 5.50 | 5.50 |
| Pyrethroid | ac | | | | | | | | | | | | 1.0000 | 6.00 | 6.00 | 6.00 |
| Cstm Ap Air - 5 gal | appl | 1.00 | Sep | | | | | | | | | | 1.0000 | 5.50 | 5.50 | 5.50 |
| Aim | oz | | | | | | | | | | | | 0.3300 | 5.42 | 1.79 | 1.79 |
| Dropp 50 WP | lb | | | | | | | | | | | | 0.1000 | 40.75 | 4.08 | 4.08 |
| Finish 6 | pt | | | | | | | | | | | | 0.3300 | 7.50 | 2.48 | 2.48 |
| Surfactant (80-20) | pt | | | | | | | | | | | | 0.2000 | 1.25 | 0.25 | 0.25 |
| Cstm Ap Air - 5 gal | appl | 1.00 | Sep | | | | | | | | | | 1.0000 | 5.50 | 5.50 | 5.50 |
| Aim | oz | | | | | | | | | | | | 0.6700 | 5.42 | 3.63 | 3.63 |
| Ethephon | pint | | | | | | | | | | | | 1.6000 | 3.69 | 5.91 | 5.91 |
| Surfactant (80-20) | pt | | | | | | | | | | | | 0.2000 | 1.25 | 0.25 | 0.25 |
| Boll Buggy-1st pick | 6R-38(325) | MFWD 190 | 0.172 | 1.00 | Oct | 4.39 | 5.02 | 1.10 | 2.84 | 0.17 | 1.55 | | | | | 14.90 |
| Cotton Picker-1st-BB | 6R-38(330) | | 0.172 | | | 16.35 | 47.15 | | | 0.34 | 2.89 | | | | | 66.39 |
| Module Builder-1st | 6R-38(325) | MFWD 190 | 0.172 | 1.00 | Oct | 4.39 | 5.02 | 1.45 | 3.74 | 0.34 | 2.89 | | | | | 17.49 |
| Furrow Irr. | each | | 1.00 | Jun | | | | | 25.32 | | | | 0.0083 | | | 25.32 |
| Application 1 | ac-in | | | | | | | 7.54 | | 0.07 | 0.59 | | 3.0000 | | | 8.13 |
| Application 2 | ac-in | | | | | | | 7.54 | | 0.07 | 0.59 | | 3.0000 | | | 8.13 |
| Application 3 | ac-in | | | | | | | 7.54 | | 0.07 | 0.59 | | 3.0000 | | | 8.13 |
| Application 4 | ac-in | | | | | | | 7.54 | | 0.07 | 0.59 | | 3.0000 | | | 8.13 |
| | | | | | | ----- | ----- | ----- | ----- | ----- | ----- | | | | ----- | ----- |
| TOTALS | | | | | | 39.47 | 74.01 | 36.49 | 39.14 | 1.80 | 15.37 | | | | 383.53 | 588.01 |
| INTEREST ON OPERATING CAPITAL | | | | | | | | | | | | | | | | 14.18 |
| UNALLOCATED LABOR | | | | | | | | | | | | | | | | 0.00 |
| TOTAL SPECIFIED COST | | | | | | | | | | | | | | | | 602.19 |

Information presented in this document is prepared solely as a general guide and is not intended to recognize or predict the costs and returns from any one particular farm operation. The mention of any commercial product in this analysis does not imply its endorsement by the University of Arkansas Cooperative Extension Service over other products not named, nor does the omission imply that they are not satisfactory. This budget does not include costs for land, overhead, or management.

Table 3. Alternative cotton production practices and which cotton budgets contain them.

| Production Practice | Cost per acre^a | Budget No. |
|---|--|---|
| Bud worm/boll worm control | | |
| Lannate (1 gal./ 4 acres) | \$19.23 | None |
| Larvin (1 gal./ 3.5 acres) | \$22.93 | None |
| Tracer (1 gal./ 64 acres) | \$18.41 | None |
| Tracer (1/2 rate) + Pyretheroid | \$18.19 | None |
| Defoliation for Irrigated Cotton | \$27.79 | All budgets except: AG-1027, 1038, and 1048 |
| Defoliation for Dryland Cotton | \$19.55 | AG-1027, 1038, and 1048 |
| Cruiser seed treatment | \$9.31 | AG-1027, 1028, 1029, 1030, 1032, 1033, 1034, 1035, 1036, 1038, 1039, 1040, 1042, 1043, 1044, 1045, 1047, 1048, 1049, 1050, 1051, 1053, 1054, 1055 |
| Gaucho seed treatment | \$9.31 | AG-1031 and 1041 |
| Avicta Complete Pak seed treatment | \$21.60 | None |
| Harvest 4 row harvester, first pick ^b | \$66.96 | AG-1027, 1028, 1029, 1030, 1038, 1047, and 1054 |
| 4 row harvester, second pick ^b | \$56.73 | None |
| 6 row harvester, (38" rows), first pick ^b | \$66.39 | All budgets except: AG-1027, 1028, 1029, 1030, 1038, 1047, and 10542 |
| 6 row harvester, (38" rows), second pick ^b | \$56.23 | None |
| Irrigation, furrow (3 ac. in) | \$8.35 per app. Plus a fixed cost of \$25.32 | AG-1030, 1031, 1033, 1034, 1035, 1036, 1037, 1040, 1041, 1042, 1043, 1044, 1048, 1049, and 1050 |
| Irrigation, center pivot (1 ac. in) | \$5.75 per app. Plus a fixed cost of \$69.24 | AG-1028, 1029, 1032, 1039, 1045, 1046, 1051, 1052, 1053, 1054, and 1055 |
| Irrigation, furrow, stationary relift (3 ac. in) | \$4.63 per app. Plus a fixed cost of \$24.79 | None |
| Module Builder | \$26.19 | All |
| Row cultivate plus directed spray | \$6.42 + material | None |
| Staple herbicide banded application (0.6 oz) | \$14.40 | None |
| Prowl, and Incorporate (1.2 pints) | \$8.55 | None |
| Treflan, Incorporated application (0.75 pints) | \$9.16 | None |
| Treflan and Incorporate (1.5 pints) | \$10.98 | None |

^a Machinery costs per acre assume that each machine is fully utilized on the farm.

^bThis harvest cost includes the direct and fixed costs of the cotton picker only.

The authors gratefully acknowledge the contributions of Ken Smith, Glenn Studebaker, and Gus Lorenz in the construction of the 2007 cotton budgets. For additional information on cotton economics contact Rob Hogan at the Northeast Research and Extension Center 870-526-2199 extension 108.

View and print all of the Arkansas crop budgets at http://www.uaex.edu/depts/ag_economics/crop_budgets.htm



**Estimating 2007 Costs of Production, Cotton
Southeast/Central Boll Weevil Eradication Zone, Furrow, 12 Row,
Stale Seedbed, Bt/LL, AG-1034-12-06**

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|---------------------------------|-------|---------|----------|---------|-----------|
| | | dollars | | dollars | |
| DIRECT EXPENSES | | | | | |
| HARVEST AIDS | | | | | |
| Aim | oz | 5.42 | 1.0000 | 5.42 | _____ |
| Dropp 50 WP | lb | 40.75 | 0.1000 | 4.08 | _____ |
| Finish 6 | pt | 7.50 | 0.3300 | 2.48 | _____ |
| Ethephon | pint | 3.69 | 1.6000 | 5.91 | _____ |
| FERTILIZERS | | | | | |
| 0-60-120-10-1 | acre | 45.56 | 1.0000 | 45.56 | _____ |
| Urea, Solid (46% N) | lb | 0.17 | 218.0000 | 38.15 | _____ |
| FUNGICIDES | | | | | |
| Terraclor 15 G | lb | 1.32 | 7.0000 | 9.24 | _____ |
| HERBICIDES | | | | | |
| Glyphosate Plus | pt | 1.97 | 6.1000 | 12.02 | _____ |
| Clarity | pt | 11.00 | 0.5000 | 5.50 | _____ |
| Gramoxone Extra | pt | 4.86 | 0.2500 | 1.22 | _____ |
| Dual Magnum | pt | 12.66 | 1.0000 | 12.66 | _____ |
| Caparol 4L | pt | 3.71 | 0.7500 | 2.78 | _____ |
| Valor SX | lb | 65.50 | 0.0562 | 3.68 | _____ |
| INSECTICIDES | | | | | |
| Centric 40WG | oz | 4.60 | 2.0000 | 9.20 | _____ |
| Trimax | oz | 4.47 | 1.5000 | 6.72 | _____ |
| Orthene 90S | lb | 8.59 | 1.0000 | 8.59 | _____ |
| Bidrin 8L | oz | 0.76 | 16.0000 | 12.31 | _____ |
| Pyrethroid | ac | 6.00 | 2.0000 | 12.00 | _____ |
| IRRIGATION SUPPLIES | | | | | |
| IrrPipe+lax+pickup | acre | 10.30 | 1.0000 | 10.30 | _____ |
| CROP SEED | | | | | |
| Cottonseed WS/RRFlex | thous | 0.55 | 45.0000 | 24.75 | _____ |
| Cruiser Seed Trmnt | thous | 0.20 | 45.0000 | 9.00 | _____ |
| TECHNOLOGY FEE | | | | | |
| WS/RRF Tech S | thous | 1.32 | 45.0000 | 59.40 | _____ |
| Eradication Fee SE/C | ac | 12.00 | 1.0000 | 12.00 | _____ |
| GROWTH REGULATORS | | | | | |
| Mepiquat Chloride | oz | 0.15 | 26.0000 | 4.06 | _____ |
| ADJUVANTS | | | | | |
| Surfactant (80-20) | pt | 1.25 | 0.4000 | 0.50 | _____ |
| CUSTOM HIRE | | | | | |
| Cstm Ap Air - 3 gal | appl | 5.10 | 1.0000 | 5.10 | _____ |
| Cstm Ap Air - 5 gal | appl | 5.50 | 9.0000 | 49.50 | _____ |
| Insect Scouting | acre | 10.00 | 1.0000 | 10.00 | _____ |
| OPERATOR LABOR | | | | | |
| Tractors | hour | 9.00 | 0.8439 | 7.59 | _____ |
| Self-Propelled | hour | 9.00 | 0.2104 | 1.91 | _____ |
| IRRIGATION LABOR | | | | | |
| Furrow Irr. | hour | 7.80 | 0.3017 | 2.36 | _____ |
| HAND LABOR | | | | | |
| Implements | hour | 7.80 | 0.2580 | 2.01 | _____ |
| Self-Propelled | hour | 7.80 | 0.1914 | 1.50 | _____ |
| DIESEL FUEL | | | | | |
| Tractors | gal | 2.22 | 8.4570 | 18.76 | _____ |
| Self-Propelled | gal | 2.22 | 3.3198 | 7.38 | _____ |
| Furrow Irr. | gal | 2.22 | 12.0000 | 26.64 | _____ |
| REPAIR & MAINTENANCE | | | | | |
| Implements | acre | 6.33 | 1.0000 | 6.33 | _____ |
| Tractors | acre | 3.19 | 1.0000 | 3.19 | _____ |
| Self-Propelled | acre | 10.14 | 1.0000 | 10.14 | _____ |
| Furrow Irr. | ac-in | 0.29 | 12.0000 | 3.52 | _____ |
| INTEREST ON OP. CAP. | acre | 14.13 | 1.0000 | 14.13 | _____ |
| TOTAL DIRECT EXPENSES | | | | 487.64 | _____ |
| FIXED EXPENSES | | | | | |
| Implements | acre | 13.82 | 1.0000 | 13.82 | _____ |
| Tractors | acre | 24.45 | 1.0000 | 24.45 | _____ |
| Self-Propelled | acre | 49.56 | 1.0000 | 49.56 | _____ |
| Furrow Irr. | each | 3038.56 | 0.0083 | 25.32 | _____ |
| TOTAL FIXED EXPENSES | | | | 113.15 | _____ |
| TOTAL SPECIFIED EXPENSES | | | | 600.79 | _____ |

Robert Hogan, Jr.
Extension
Economist
- Farm
Management

H. Scott Stiles
Extension
Economist - Risk
Management

Frank Groves
Research
Verification
Coordinator

Table 2. Estimated resource use and costs for field operations, per acre, AG-1034, SE, Furrow, 12R, Stale, WS/RRF, University of Arkansas

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | POWER UNIT SIZE | PERF TIMES | | | POWER UNIT COST | | EQUIPMENT COST | | ALLOC LABOR | | OPERATING/DURABLE INPUT | | | TOTAL COST |
|-------------------------------|---------------|--------------------|------------|------|-----|-------------------|-------|----------------|-------|-------------|------|-------------------------|-------|-------|---------------|
| | | | RATE | OVER | MTH | DIRECT | FIXED | DIRECT | FIXED | HOURS | COST | AMOUNT | PRICE | COST | |
| | | | | | | -----dollars----- | | | | dollars | | -----dollars----- | | | |
| Stalk Shredder-Flail | 20' | MFWD 150 | 0.082 | 1.00 | Oct | 1.67 | 1.92 | 1.29 | 0.98 | 0.08 | 0.74 | | | | 6.60 |
| TerraTill Bed w/roll | 6R-38 | MFWD 225 | 0.107 | 1.00 | Nov | 3.19 | 3.33 | 0.59 | 1.33 | 0.10 | 0.97 | | | | 9.41 |
| Fert Appl - T & O | 12r40 | MFWD 190 | 0.033 | 1.00 | Nov | 0.85 | 0.97 | | | 0.03 | 0.30 | | | | 2.12 |
| 0-60-120-10-1 | acre | | | | | | | | | | | 1.0000 | 45.56 | 45.56 | 45.56 |
| Disk Bed (Hipper) | 12R-38 | MFWD 225 | 0.049 | 1.00 | Nov | 1.47 | 1.53 | 0.29 | 0.96 | 0.04 | 0.44 | | | | 4.69 |
| Sprayer(600-825Gal) | 90' | | 0.011 | 1.00 | Feb | 0.36 | 0.74 | | | 0.01 | 0.16 | | | | 1.26 |
| Glyphosate Plus | pt | | | | | | | | | | | 1.5000 | 1.97 | 2.96 | 2.96 |
| Clarity | pt | | | | | | | | | | | 0.5000 | 11.00 | 5.50 | 5.50 |
| Sprayer(600-825Gal) | 90' | | 0.011 | 0.25 | Apr | 0.09 | 0.19 | | | 0.00 | 0.04 | | | | 0.32 |
| Gramoxone Extra | pt | | | | | | | | | | | 0.2500 | 4.86 | 1.22 | 1.22 |
| Row Cond (Harrow) | 38' | MFWD 225 | 0.039 | 1.00 | Apr | 1.17 | 1.22 | 0.16 | 0.86 | 0.03 | 0.35 | | | | 3.76 |
| Plant & Pre Folding | 12R-40 | MFWD 225 | 0.050 | 1.00 | May | 1.51 | 1.57 | 1.03 | 2.48 | 0.10 | 0.86 | | | | 7.45 |
| Cottonseed WS/RRFlex | thous | | | | | | | | | | | 45.0000 | 0.55 | 24.75 | 24.75 |
| WS/RRF Tech S | thous | | | | | | | | | | | 45.0000 | 1.32 | 59.40 | 59.40 |
| Cruiser Seed Trmnt | thous | | | | | | | | | | | 45.0000 | 0.20 | 9.00 | 9.00 |
| Terraclor 15 G | lb | | | | | | | | | | | 7.0000 | 1.32 | 9.24 | 9.24 |
| Fert Appl - T & O | 12r40 | MFWD 190 | 0.033 | 1.00 | May | 0.85 | 0.97 | | | 0.03 | 0.30 | | | | 2.12 |
| Urea, Solid (46% N) | lb | | | | | | | | | | | 109.0000 | 0.17 | 19.08 | 19.08 |
| Sprayer(600-825Gal) | 90' | | 0.011 | 1.00 | May | 0.36 | 0.74 | | | 0.01 | 0.16 | | | | 1.26 |
| Glyphosate Plus | pt | | | | | | | | | | | 1.5000 | 1.97 | 2.96 | 2.96 |
| Dual Magnum | pt | | | | | | | | | | | 1.0000 | 12.66 | 12.66 | 12.66 |
| Sprayer(600-825Gal) | 90' | | 0.011 | 1.00 | May | 0.36 | 0.74 | | | 0.01 | 0.16 | | | | 1.26 |
| Glyphosate Plus | pt | | | | | | | | | | | 1.5000 | 1.97 | 2.96 | 2.96 |
| Fert Appl - T & O | 12r40 | MFWD 190 | 0.033 | 1.00 | Jun | 0.85 | 0.97 | | | 0.03 | 0.30 | | | | 2.12 |
| Urea, Solid (46% N) | lb | | | | | | | | | | | 109.0000 | 0.17 | 19.08 | 19.08 |
| Spray (Direct/Hood) | 12R-38 | MFWD 170 | 0.044 | 1.00 | Jun | 1.03 | 1.23 | 0.35 | 0.53 | 0.06 | 0.57 | | | | 3.71 |
| Caparol 4L | pt | | | | | | | | | | | 0.7500 | 3.71 | 2.78 | 2.78 |
| Glyphosate Plus | pt | | | | | | | | | | | 1.0000 | 1.97 | 1.97 | 1.97 |
| Cstm Ap Air - 3 gal | appl | | | 1.00 | Jun | | | | | | | 1.0000 | 5.10 | 5.10 | 5.10 |
| Centric 40WG | oz | | | | | | | | | | | 2.0000 | 4.60 | 9.20 | 9.20 |
| Mepiquat Chloride | oz | | | | | | | | | | | 4.0000 | 0.15 | 0.63 | 0.63 |
| Spray (Band) | 40' Fold | MFWD 170 | 0.042 | 0.60 | Jun | 0.58 | 0.70 | 0.07 | 0.10 | 0.03 | 0.33 | | | | 1.78 |
| Valor SX | lb | | | | | | | | | | | 0.0562 | 65.50 | 3.68 | 3.68 |
| Glyphosate Plus | pt | | | | | | | | | | | 0.6000 | 1.97 | 1.18 | 1.18 |
| IrrPipe+lay+pickup | acre | | | 1.00 | Jun | | | | | | | 1.0000 | 10.30 | 10.30 | 10.30 |
| Cstm Ap Air - 5 gal | appl | | | 1.00 | Jul | | | | | | | 1.0000 | 5.50 | 5.50 | 5.50 |
| Trimax | oz | | | | | | | | | | | 1.5000 | 4.47 | 6.72 | 6.72 |
| Insect Scouting | acre | | | 1.00 | Jul | | | | | | | 1.0000 | 10.00 | 10.00 | 10.00 |
| Cstm Ap Air - 5 gal | appl | | | 1.00 | Jul | | | | | | | 1.0000 | 5.50 | 5.50 | 5.50 |
| Orthene 90S | lb | | | | | | | | | | | 0.5000 | 8.59 | 4.30 | 4.30 |
| Cstm Ap Air - 5 gal | appl | | | 1.00 | Jul | | | | | | | 1.0000 | 5.50 | 5.50 | 5.50 |
| Bidrin 8L | oz | | | | | | | | | | | 8.0000 | 0.76 | 6.16 | 6.16 |
| Mepiquat Chloride | oz | | | | | | | | | | | 10.0000 | 0.15 | 1.56 | 1.56 |
| Eradication Fee SE/C | ac | | | 1.00 | Jul | | | | | | | 1.0000 | 12.00 | 12.00 | 12.00 |
| Cstm Ap Air - 5 gal | appl | | | 1.00 | Jul | | | | | | | 1.0000 | 5.50 | 5.50 | 5.50 |
| Orthene 90S | lb | | | | | | | | | | | 0.5000 | 8.59 | 4.30 | 4.30 |
| Cstm Ap Air - 5 gal | appl | | | 1.00 | Jul | | | | | | | 1.0000 | 5.50 | 5.50 | 5.50 |
| Pyrethroid | ac | | | | | | | | | | | 1.0000 | 6.00 | 6.00 | 6.00 |
| Mepiquat Chloride | oz | | | | | | | | | | | 12.0000 | 0.15 | 1.88 | 1.88 |
| Cstm Ap Air - 5 gal | appl | | | 1.00 | Aug | | | | | | | 1.0000 | 5.50 | 5.50 | 5.50 |

| | | | | | | | | | | | | | | | | |
|-------------------------------|------------|----------|-------|------|-----|-------|-------|-------|-------|-------|-------|--|--------|-------|--------|--------|
| Bidrin 8L | oz | | | | | | | | | | | | 8.0000 | 0.76 | 6.16 | 6.16 |
| Cstm Ap Air - 5 gal | appl | 1.00 | Aug | | | | | | | | | | 1.0000 | 5.50 | 5.50 | 5.50 |
| Pyrethroid | ac | | | | | | | | | | | | 1.0000 | 6.00 | 6.00 | 6.00 |
| Cstm Ap Air - 5 gal | appl | 1.00 | Sep | | | | | | | | | | 1.0000 | 5.50 | 5.50 | 5.50 |
| Aim | oz | | | | | | | | | | | | 0.3300 | 5.42 | 1.79 | 1.79 |
| Dropp 50 WP | lb | | | | | | | | | | | | 0.1000 | 40.75 | 4.08 | 4.08 |
| Finish 6 | pt | | | | | | | | | | | | 0.3300 | 7.50 | 2.48 | 2.48 |
| Surfactant (80-20) | pt | | | | | | | | | | | | 0.2000 | 1.25 | 0.25 | 0.25 |
| Cstm Ap Air - 5 gal | appl | 1.00 | Sep | | | | | | | | | | 1.0000 | 5.50 | 5.50 | 5.50 |
| Aim | oz | | | | | | | | | | | | 0.6700 | 5.42 | 3.63 | 3.63 |
| Ethephon | pint | | | | | | | | | | | | 1.6000 | 3.69 | 5.91 | 5.91 |
| Surfactant (80-20) | pt | | | | | | | | | | | | 0.2000 | 1.25 | 0.25 | 0.25 |
| Boll Buggy-1st pick | 6R-38(325) | MFWD 190 | 0.172 | 1.00 | Oct | 4.39 | 5.02 | 1.10 | 2.84 | 0.17 | 1.55 | | | | | 14.90 |
| Cotton Picker-1st-BB | 6R-38(330) | | 0.172 | | | 16.35 | 47.15 | | | 0.34 | 2.89 | | | | | 66.39 |
| Module Builder-1st | 6R-38(325) | MFWD 190 | 0.172 | 1.00 | Oct | 4.39 | 5.02 | 1.45 | 3.74 | 0.34 | 2.89 | | | | | 17.49 |
| Furrow Irr. | each | | 1.00 | Jun | | | | | 25.32 | | | | 0.0083 | | | 25.32 |
| Application 1 | ac-in | | | | | | | 7.54 | | 0.07 | 0.59 | | 3.0000 | | | 8.13 |
| Application 2 | ac-in | | | | | | | 7.54 | | 0.07 | 0.59 | | 3.0000 | | | 8.13 |
| Application 3 | ac-in | | | | | | | 7.54 | | 0.07 | 0.59 | | 3.0000 | | | 8.13 |
| Application 4 | ac-in | | | | | | | 7.54 | | 0.07 | 0.59 | | 3.0000 | | | 8.13 |
| | | | | | | ----- | ----- | ----- | ----- | ----- | ----- | | | | ----- | ----- |
| TOTALS | | | | | | 39.47 | 74.01 | 36.49 | 39.14 | 1.80 | 15.37 | | | | 382.18 | 586.66 |
| INTEREST ON OPERATING CAPITAL | | | | | | | | | | | | | | | | 14.13 |
| UNALLOCATED LABOR | | | | | | | | | | | | | | | | 0.00 |
| TOTAL SPECIFIED COST | | | | | | | | | | | | | | | | 600.79 |

Information presented in this document is prepared solely as a general guide and is not intended to recognize or predict the costs and returns from any one particular farm operation. The mention of any commercial product in this analysis does not imply its endorsement by the University of Arkansas Cooperative Extension Service over other products not named, nor does the omission imply that they are not satisfactory. This budget does not include costs for land, overhead, or management.

Table 3. Alternative cotton production practices and which cotton budgets contain them.

| Production Practice | Cost per acre^a | Budget No. |
|---|--|---|
| Bud worm/boll worm control | | |
| Lannate (1 gal./ 4 acres) | \$19.23 | None |
| Larvin (1 gal./ 3.5 acres) | \$22.93 | None |
| Tracer (1 gal./ 64 acres) | \$18.41 | None |
| Tracer (1/2 rate) + Pyretheroid | \$18.19 | None |
| Defoliation for Irrigated Cotton | \$27.79 | All budgets except: AG-1027, 1038, and 1048 |
| Defoliation for Dryland Cotton | \$19.55 | AG-1027, 1038, and 1048 |
| Cruiser seed treatment | \$9.31 | AG-1027, 1028, 1029, 1030, 1032, 1033, 1034, 1035, 1036, 1038, 1039, 1040, 1042, 1043, 1044, 1045, 1047, 1048, 1049, 1050, 1051, 1053, 1054, 1055 |
| Gaucho seed treatment | \$9.31 | AG-1031 and 1041 |
| Avicta Complete Pak seed treatment | \$21.60 | None |
| Harvest 4 row harvester, first pick ^b | \$66.96 | AG-1027, 1028, 1029, 1030, 1038, 1047, and 1054 |
| 4 row harvester, second pick ^b | \$56.73 | None |
| 6 row harvester, (38" rows), first pick ^b | \$66.39 | All budgets except: AG-1027, 1028, 1029, 1030, 1038, 1047, and 10542 |
| 6 row harvester, (38" rows), second pick ^b | \$56.23 | None |
| Irrigation, furrow (3 ac. in) | \$8.35 per app. Plus a fixed cost of \$25.32 | AG-1030, 1031, 1033, 1034, 1035, 1036, 1037, 1040, 1041, 1042, 1043, 1044, 1048, 1049, and 1050 |
| Irrigation, center pivot (1 ac. in) | \$5.75 per app. Plus a fixed cost of \$69.24 | AG-1028, 1029, 1032, 1039, 1045, 1046, 1051, 1052, 1053, 1054, and 1055 |
| Irrigation, furrow, stationary relift (3 ac. in) | \$4.63 per app. Plus a fixed cost of \$24.79 | None |
| Module Builder | \$26.19 | All |
| Row cultivate plus directed spray | \$6.42 + material | None |
| Staple herbicide banded application (0.6 oz) | \$14.40 | None |
| Prowl, and Incorporate (1.2 pints) | \$8.55 | None |
| Treflan, Incorporated application (0.75 pints) | \$9.16 | None |
| Treflan and Incorporate (1.5 pints) | \$10.98 | None |

^a Machinery costs per acre assume that each machine is fully utilized on the farm.

^bThis harvest cost includes the direct and fixed costs of the cotton picker only.

The authors gratefully acknowledge the contributions of Ken Smith, Glenn Studebaker, and Gus Lorenz in the construction of the 2007 cotton budgets. For additional information on cotton economics contact Rob Hogan at the Northeast Research and Extension Center 870-526-2199 extension 108.

View and print all of the Arkansas crop budgets at http://www.uaex.edu/depts/ag_economics/crop_budgets.htm



**Estimating 2007 Costs of Production, Cotton
Southeast/Central Boll Weevil Eradication Zone, Furrow, 12 Row,
Stale Seedbed, Roundup Ready Flex, AG-1035-12-06**

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|--------------------------|-------|---------|----------|---------|-----------|
| | | dollars | | dollars | |
| DIRECT EXPENSES | | | | | |
| HARVEST AIDS | | | | | |
| Finish 6 | pt | 7.50 | 1.3300 | 9.98 | _____ |
| Def 6 | pt | 5.32 | 0.3750 | 2.00 | _____ |
| FERTILIZERS | | | | | |
| 0-60-120-10-1 | acre | 45.56 | 1.0000 | 45.56 | _____ |
| Urea, Solid (46% N) | lb | 0.17 | 218.0000 | 38.15 | _____ |
| FUNGICIDES | | | | | |
| Terraclor 15 G | lb | 1.32 | 7.0000 | 9.24 | _____ |
| HERBICIDES | | | | | |
| Glyphosate Plus | pt | 1.97 | 6.1000 | 12.02 | _____ |
| Clarity | pt | 11.00 | 0.5000 | 5.50 | _____ |
| Gramoxone Extra | pt | 4.86 | 0.2500 | 1.22 | _____ |
| Dual Magnum | pt | 12.66 | 1.0000 | 12.66 | _____ |
| Caparol 4L | pt | 3.71 | 0.7500 | 2.78 | _____ |
| Valor SX | lb | 65.50 | 0.0562 | 3.68 | _____ |
| INSECTICIDES | | | | | |
| Centric 40WG | oz | 4.60 | 2.0000 | 9.20 | _____ |
| Trimax | oz | 4.47 | 1.5000 | 6.72 | _____ |
| Orthene 90S | lb | 8.59 | 1.0000 | 8.59 | _____ |
| Bidrin 8L | oz | 0.76 | 16.0000 | 12.31 | _____ |
| Pyrethroid | ac | 6.00 | 2.0000 | 12.00 | _____ |
| IRRIGATION SUPPLIES | | | | | |
| IrrPipe+lax+pickup | acre | 10.30 | 1.0000 | 10.30 | _____ |
| CROP SEED | | | | | |
| Cottonseed RRFlex | thous | 0.49 | 45.0000 | 22.05 | _____ |
| Cruiser Seed Trmnt | thous | 0.20 | 45.0000 | 9.00 | _____ |
| TECHNOLOGY FEE | | | | | |
| RR Flex Tech Fee S | thous | 0.78 | 45.0000 | 35.10 | _____ |
| Eradication Fee SE/C | ac | 12.00 | 1.0000 | 12.00 | _____ |
| GROWTH REGULATORS | | | | | |
| Mepiquat Chloride | oz | 0.15 | 26.0000 | 4.06 | _____ |
| CUSTOM HIRE | | | | | |
| Cstm Ap Air - 3 gal | appl | 5.10 | 1.0000 | 5.10 | _____ |
| Cstm Ap Air - 5 gal | appl | 5.50 | 8.0000 | 44.00 | _____ |
| Insect Scouting | acre | 10.00 | 1.0000 | 10.00 | _____ |
| OPERATOR LABOR | | | | | |
| Tractors | hour | 9.00 | 0.8439 | 7.59 | _____ |
| Self-Propelled | hour | 9.00 | 0.2104 | 1.91 | _____ |
| IRRIGATION LABOR | | | | | |
| Furrow Irr. | hour | 7.80 | 0.3017 | 2.36 | _____ |
| HAND LABOR | | | | | |
| Implements | hour | 7.80 | 0.2580 | 2.01 | _____ |
| Self-Propelled | hour | 7.80 | 0.1914 | 1.50 | _____ |
| DIESEL FUEL | | | | | |
| Tractors | gal | 2.22 | 8.4570 | 18.76 | _____ |
| Self-Propelled | gal | 2.22 | 3.3198 | 7.38 | _____ |
| Furrow Irr. | gal | 2.22 | 12.0000 | 26.64 | _____ |
| REPAIR & MAINTENANCE | | | | | |
| Implements | acre | 6.33 | 1.0000 | 6.33 | _____ |
| Tractors | acre | 3.19 | 1.0000 | 3.19 | _____ |
| Self-Propelled | acre | 10.14 | 1.0000 | 10.14 | _____ |
| Furrow Irr. | ac-in | 0.29 | 12.0000 | 3.52 | _____ |
| INTEREST ON OP. CAP. | acre | 13.13 | 1.0000 | 13.13 | _____ |
| TOTAL DIRECT EXPENSES | | | | 447.73 | _____ |
| FIXED EXPENSES | | | | | |
| Implements | acre | 13.82 | 1.0000 | 13.82 | _____ |
| Tractors | acre | 24.45 | 1.0000 | 24.45 | _____ |
| Self-Propelled | acre | 49.56 | 1.0000 | 49.56 | _____ |
| Furrow Irr. | each | 3038.56 | 0.0083 | 25.32 | _____ |
| TOTAL FIXED EXPENSES | | | | 113.15 | _____ |
| TOTAL SPECIFIED EXPENSES | | | | 560.88 | _____ |

Robert Hogan, Jr.
Extension
Economist
- Farm
Management

H. Scott Stiles
Extension
Economist - Risk
Management

Frank Groves
Research
Verification
Coordinator

Table 2. Estimated resource use and costs for field operations, per acre, AG-1035, SE, Furrow, 12R, Stale, RRF, University of Arkansas

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | POWER UNIT SIZE | PERF TIMES | | | POWER UNIT COST | | EQUIPMENT COST | | ALLOC LABOR | | OPERATING/DURABLE INPUT | | | TOTAL COST |
|-------------------------------|---------------|--------------------|------------|------|-----|-------------------|-------|----------------|-------|-------------|------|-------------------------|-------|-------|---------------|
| | | | RATE | OVER | MTH | DIRECT | FIXED | DIRECT | FIXED | HOURS | COST | AMOUNT | PRICE | COST | |
| | | | | | | -----dollars----- | | | | dollars | | -----dollars----- | | | |
| Stalk Shredder-Flail | 20' | MFWD 150 | 0.082 | 1.00 | Oct | 1.67 | 1.92 | 1.29 | 0.98 | 0.08 | 0.74 | | | | 6.60 |
| TerraTill Bed w/roll | 6R-38 | MFWD 225 | 0.107 | 1.00 | Nov | 3.19 | 3.33 | 0.59 | 1.33 | 0.10 | 0.97 | | | | 9.41 |
| Fert Appl - T & O | 12r40 | MFWD 190 | 0.033 | 1.00 | Nov | 0.85 | 0.97 | | | 0.03 | 0.30 | | | | 2.12 |
| 0-60-120-10-1 | acre | | | | | | | | | | | 1.0000 | 45.56 | 45.56 | 45.56 |
| Disk Bed (Hipper) | 12R-38 | MFWD 225 | 0.049 | 1.00 | Nov | 1.47 | 1.53 | 0.29 | 0.96 | 0.04 | 0.44 | | | | 4.69 |
| Sprayer(600-825Gal) | 90' | | 0.011 | 1.00 | Feb | 0.36 | 0.74 | | | 0.01 | 0.16 | | | | 1.26 |
| Glyphosate Plus | pt | | | | | | | | | | | 1.5000 | 1.97 | 2.96 | 2.96 |
| Clarity | pt | | | | | | | | | | | 0.5000 | 11.00 | 5.50 | 5.50 |
| Sprayer(600-825Gal) | 90' | | 0.011 | 0.25 | Apr | 0.09 | 0.19 | | | 0.00 | 0.04 | | | | 0.32 |
| Gramoxone Extra | pt | | | | | | | | | | | 0.2500 | 4.86 | 1.22 | 1.22 |
| Row Cond (Harrow) | 38' | MFWD 225 | 0.039 | 1.00 | Apr | 1.17 | 1.22 | 0.16 | 0.86 | 0.03 | 0.35 | | | | 3.76 |
| Plant & Pre Folding | 12R-40 | MFWD 225 | 0.050 | 1.00 | May | 1.51 | 1.57 | 1.03 | 2.48 | 0.10 | 0.86 | | | | 7.45 |
| Cottonseed RRflex | thous | | | | | | | | | | | 45.0000 | 0.49 | 22.05 | 22.05 |
| RR Flex Tech Fee S | thous | | | | | | | | | | | 45.0000 | 0.78 | 35.10 | 35.10 |
| Cruiser Seed Trmnt | thous | | | | | | | | | | | 45.0000 | 0.20 | 9.00 | 9.00 |
| Terraclor 15 G | lb | | | | | | | | | | | 7.0000 | 1.32 | 9.24 | 9.24 |
| Fert Appl - T & O | 12r40 | MFWD 190 | 0.033 | 1.00 | May | 0.85 | 0.97 | | | 0.03 | 0.30 | | | | 2.12 |
| Urea, Solid (46% N) | lb | | | | | | | | | | | 109.0000 | 0.17 | 19.08 | 19.08 |
| Sprayer(600-825Gal) | 90' | | 0.011 | 1.00 | May | 0.36 | 0.74 | | | 0.01 | 0.16 | | | | 1.26 |
| Glyphosate Plus | pt | | | | | | | | | | | 1.5000 | 1.97 | 2.96 | 2.96 |
| Dual Magnum | pt | | | | | | | | | | | 1.0000 | 12.66 | 12.66 | 12.66 |
| Sprayer(600-825Gal) | 90' | | 0.011 | 1.00 | May | 0.36 | 0.74 | | | 0.01 | 0.16 | | | | 1.26 |
| Glyphosate Plus | pt | | | | | | | | | | | 1.5000 | 1.97 | 2.96 | 2.96 |
| Fert Appl - T & O | 12r40 | MFWD 190 | 0.033 | 1.00 | Jun | 0.85 | 0.97 | | | 0.03 | 0.30 | | | | 2.12 |
| Urea, Solid (46% N) | lb | | | | | | | | | | | 109.0000 | 0.17 | 19.08 | 19.08 |
| Spray (Direct/Hood) | 12R-38 | MFWD 170 | 0.044 | 1.00 | Jun | 1.03 | 1.23 | 0.35 | 0.53 | 0.06 | 0.57 | | | | 3.71 |
| Caparol 4L | pt | | | | | | | | | | | 0.7500 | 3.71 | 2.78 | 2.78 |
| Glyphosate Plus | pt | | | | | | | | | | | 1.0000 | 1.97 | 1.97 | 1.97 |
| Cstm Ap Air - 3 gal | appl | | | 1.00 | Jun | | | | | | | 1.0000 | 5.10 | 5.10 | 5.10 |
| Centric 40WG | oz | | | | | | | | | | | 2.0000 | 4.60 | 9.20 | 9.20 |
| Mepiquat Chloride | oz | | | | | | | | | | | 4.0000 | 0.15 | 0.63 | 0.63 |
| Spray (Band) | 40' Fold | MFWD 170 | 0.042 | 0.60 | Jun | 0.58 | 0.70 | 0.07 | 0.10 | 0.03 | 0.33 | | | | 1.78 |
| Valor SX | lb | | | | | | | | | | | 0.0562 | 65.50 | 3.68 | 3.68 |
| Glyphosate Plus | pt | | | | | | | | | | | 0.6000 | 1.97 | 1.18 | 1.18 |
| IrrPipe+lay+pickup | acre | | | 1.00 | Jun | | | | | | | 1.0000 | 10.30 | 10.30 | 10.30 |
| Cstm Ap Air - 5 gal | appl | | | 1.00 | Jul | | | | | | | 1.0000 | 5.50 | 5.50 | 5.50 |
| Trimax | oz | | | | | | | | | | | 1.5000 | 4.47 | 6.72 | 6.72 |
| Insect Scouting | acre | | | 1.00 | Jul | | | | | | | 1.0000 | 10.00 | 10.00 | 10.00 |
| Cstm Ap Air - 5 gal | appl | | | 1.00 | Jul | | | | | | | 1.0000 | 5.50 | 5.50 | 5.50 |
| Orthene 90S | lb | | | | | | | | | | | 0.5000 | 8.59 | 4.30 | 4.30 |
| Cstm Ap Air - 5 gal | appl | | | 1.00 | Jul | | | | | | | 1.0000 | 5.50 | 5.50 | 5.50 |
| Bidrin 8L | oz | | | | | | | | | | | 8.0000 | 0.76 | 6.16 | 6.16 |
| Mepiquat Chloride | oz | | | | | | | | | | | 10.0000 | 0.15 | 1.56 | 1.56 |
| Eradication Fee SE/C | ac | | | 1.00 | Jul | | | | | | | 1.0000 | 12.00 | 12.00 | 12.00 |
| Cstm Ap Air - 5 gal | appl | | | 1.00 | Jul | | | | | | | 1.0000 | 5.50 | 5.50 | 5.50 |
| Orthene 90S | lb | | | | | | | | | | | 0.5000 | 8.59 | 4.30 | 4.30 |
| Cstm Ap Air - 5 gal | appl | | | 1.00 | Jul | | | | | | | 1.0000 | 5.50 | 5.50 | 5.50 |
| Pyrethroid | ac | | | | | | | | | | | 1.0000 | 6.00 | 6.00 | 6.00 |
| Mepiquat Chloride | oz | | | | | | | | | | | 12.0000 | 0.15 | 1.88 | 1.88 |
| Cstm Ap Air - 5 gal | appl | | | 1.00 | Aug | | | | | | | 1.0000 | 5.50 | 5.50 | 5.50 |

| | | | | | | | | | | | | | | | |
|-------------------------------|---------------------|-------|------|-----|-------|-------|-------|-------|------|-------|--|--------|------|--------|--------|
| Bidrin 8L | oz | | | | | | | | | | | 8.0000 | 0.76 | 6.16 | 6.16 |
| Cstm Ap Air - 5 gal | appl | 1.00 | Aug | | | | | | | | | 1.0000 | 5.50 | 5.50 | 5.50 |
| Pyrethroid | ac | | | | | | | | | | | 1.0000 | 6.00 | 6.00 | 6.00 |
| Cstm Ap Air - 5 gal | appl | 1.00 | Sep | | | | | | | | | 1.0000 | 5.50 | 5.50 | 5.50 |
| Finish 6 | pt | | | | | | | | | | | 1.3300 | 7.50 | 9.98 | 9.98 |
| Def 6 | pt | | | | | | | | | | | 0.3750 | 5.32 | 2.00 | 2.00 |
| Boll Buggy-1st pick | 6R-38(325) MFWD 190 | 0.172 | 1.00 | Oct | 4.39 | 5.02 | 1.10 | 2.84 | 0.17 | 1.55 | | | | | 14.90 |
| Cotton Picker-1st-BB | 6R-38(330) | 0.172 | | | 16.35 | 47.15 | | | 0.34 | 2.89 | | | | | 66.39 |
| Module Builder-1st | 6R-38(325) MFWD 190 | 0.172 | 1.00 | Oct | 4.39 | 5.02 | 1.45 | 3.74 | 0.34 | 2.89 | | | | | 17.49 |
| Furrow Irr. | each | 1.00 | Jun | | | | | 25.32 | | | | 0.0083 | | | 25.32 |
| Application 1 | ac-in | | | | | | | 7.54 | 0.07 | 0.59 | | 3.0000 | | | 8.13 |
| Application 2 | ac-in | | | | | | | 7.54 | 0.07 | 0.59 | | 3.0000 | | | 8.13 |
| Application 3 | ac-in | | | | | | | 7.54 | 0.07 | 0.59 | | 3.0000 | | | 8.13 |
| Application 4 | ac-in | | | | | | | 7.54 | 0.07 | 0.59 | | 3.0000 | | | 8.13 |
| TOTALS | | | | | 39.47 | 74.01 | 36.49 | 39.14 | 1.80 | 15.37 | | | | 343.27 | 547.75 |
| INTEREST ON OPERATING CAPITAL | | | | | | | | | | | | | | | 13.13 |
| UNALLOCATED LABOR | | | | | | | | | | | | | | | 0.00 |
| TOTAL SPECIFIED COST | | | | | | | | | | | | | | | 560.88 |

Information presented in this document is prepared solely as a general guide and is not intended to recognize or predict the costs and returns from any one particular farm operation. The mention of any commercial product in this analysis does not imply its endorsement by the University of Arkansas Cooperative Extension Service over other products not named, nor does the omission imply that they are not satisfactory. This budget does not include costs for land, overhead, or management.

Table 3. Alternative cotton production practices and which cotton budgets contain them.

| Production Practice | Cost per acre^a | Budget No. |
|---|--|---|
| Bud worm/boll worm control | | |
| Lannate (1 gal./ 4 acres) | \$19.23 | None |
| Larvin (1 gal./ 3.5 acres) | \$22.93 | None |
| Tracer (1 gal./ 64 acres) | \$18.41 | None |
| Tracer (1/2 rate) + Pyretheroid | \$18.19 | None |
| Defoliation for Irrigated Cotton | \$27.79 | All budgets except: AG-1027, 1038, and 1048 |
| Defoliation for Dryland Cotton | \$19.55 | AG-1027, 1038, and 1048 |
| Cruiser seed treatment | \$9.31 | AG-1027, 1028, 1029, 1030, 1032, 1033, 1034, 1035, 1036, 1038, 1039, 1040, 1042, 1043, 1044, 1045, 1047, 1048, 1049, 1050, 1051, 1053, 1054, 1055 |
| Gaucho seed treatment | \$9.31 | AG-1031 and 1041 |
| Avicta Complete Pak seed treatment | \$21.60 | None |
| Harvest 4 row harvester, first pick ^b | \$66.96 | AG-1027, 1028, 1029, 1030, 1038, 1047, and 1054 |
| 4 row harvester, second pick ^b | \$56.73 | None |
| 6 row harvester, (38" rows), first pick ^b | \$66.39 | All budgets except: AG-1027, 1028, 1029, 1030, 1038, 1047, and 10542 |
| 6 row harvester, (38" rows), second pick ^b | \$56.23 | None |
| Irrigation, furrow (3 ac. in) | \$8.35 per app. Plus a fixed cost of \$25.32 | AG-1030, 1031, 1033, 1034, 1035, 1036, 1037, 1040, 1041, 1042, 1043, 1044, 1048, 1049, and 1050 |
| Irrigation, center pivot (1 ac. in) | \$5.75 per app. Plus a fixed cost of \$69.24 | AG-1028, 1029, 1032, 1039, 1045, 1046, 1051, 1052, 1053, 1054, and 1055 |
| Irrigation, furrow, stationary relift (3 ac. in) | \$4.63 per app. Plus a fixed cost of \$24.79 | None |
| Module Builder | \$26.19 | All |
| Row cultivate plus directed spray | \$6.42 + material | None |
| Staple herbicide banded application (0.6 oz) | \$14.40 | None |
| Prowl, and Incorporate (1.2 pints) | \$8.55 | None |
| Treflan, Incorporated application (0.75 pints) | \$9.16 | None |
| Treflan and Incorporate (1.5 pints) | \$10.98 | None |

^a Machinery costs per acre assume that each machine is fully utilized on the farm.

^bThis harvest cost includes the direct and fixed costs of the cotton picker only.

The authors gratefully acknowledge the contributions of Ken Smith, Glenn Studebaker, and Gus Lorenz in the construction of the 2007 cotton budgets. For additional information on cotton economics contact Rob Hogan at the Northeast Research and Extension Center 870-526-2199 extension 108.

View and print all of the Arkansas crop budgets at http://www.uaex.edu/depts/ag_economics/crop_budgets.htm



**Estimating 2007 Costs of Production, Cotton
Southeast/Central Boll Weevil Eradication Zone, Furrow, 12 Row,
Stale Seedbed, Bt/LL, AG-1036-12-06**

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|---------------------------------|-------|---------|----------|---------|-----------|
| | | dollars | | dollars | |
| DIRECT EXPENSES | | | | | |
| HARVEST AIDS | | | | | |
| Aim | oz | 5.42 | 1.0000 | 5.42 | _____ |
| Dropp 50 WP | lb | 40.75 | 0.1000 | 4.08 | _____ |
| Finish 6 | pt | 7.50 | 0.3300 | 2.48 | _____ |
| Ethephon | pint | 3.69 | 1.6000 | 5.91 | _____ |
| FERTILIZERS | | | | | |
| 0-60-120-10-1 | acre | 45.56 | 1.0000 | 45.56 | _____ |
| Urea, Solid (46% N) | lb | 0.17 | 218.0000 | 38.15 | _____ |
| FUNGICIDES | | | | | |
| Terraclor 15 G | lb | 1.32 | 7.0000 | 9.24 | _____ |
| HERBICIDES | | | | | |
| Glyphosate Plus | pt | 1.97 | 1.5000 | 2.96 | _____ |
| Clarity | pt | 11.00 | 0.5000 | 5.50 | _____ |
| Gramoxone Extra | pt | 4.86 | 0.2500 | 1.22 | _____ |
| Ignite 280 SL | pt | 4.43 | 4.3125 | 19.14 | _____ |
| Direx 80 DF | lb | 3.89 | 0.3300 | 1.28 | _____ |
| Valor SX | lb | 65.50 | 0.1250 | 8.19 | _____ |
| INSECTICIDES | | | | | |
| Centric 40WG | oz | 4.60 | 2.0000 | 9.20 | _____ |
| Trimax | oz | 4.47 | 1.5000 | 6.72 | _____ |
| Orthene 90S | lb | 8.59 | 1.0000 | 8.59 | _____ |
| Bidrin 8L | oz | 0.76 | 16.0000 | 12.31 | _____ |
| Pyrethroid | ac | 6.00 | 2.0000 | 12.00 | _____ |
| IRRIGATION SUPPLIES | | | | | |
| IrrPipe+lax+pickup | acre | 10.30 | 1.0000 | 10.30 | _____ |
| CROP SEED | | | | | |
| Cottonseed Bt/LL | thous | 0.52 | 45.0000 | 23.40 | _____ |
| Cruiser Seed Trmnt | thous | 0.20 | 45.0000 | 9.00 | _____ |
| TECHNOLOGY FEE | | | | | |
| Bt/LL Tech S | thous | 0.74 | 45.0000 | 33.30 | _____ |
| Eradication Fee SE/C | ac | 12.00 | 1.0000 | 12.00 | _____ |
| GROWTH REGULATORS | | | | | |
| Mepiquat Chloride | oz | 0.15 | 26.0000 | 4.06 | _____ |
| ADJUVANTS | | | | | |
| Surfactant (80-20) | pt | 1.25 | 0.4000 | 0.50 | _____ |
| CUSTOM HIRE | | | | | |
| Cstm Ap Air - 3 gal | appl | 5.10 | 1.0000 | 5.10 | _____ |
| Cstm Ap Air - 5 gal | appl | 5.50 | 9.0000 | 49.50 | _____ |
| Insect Scouting | acre | 10.00 | 1.0000 | 10.00 | _____ |
| OPERATOR LABOR | | | | | |
| Tractors | hour | 9.00 | 0.8185 | 7.36 | _____ |
| Self-Propelled | hour | 9.00 | 0.2104 | 1.91 | _____ |
| IRRIGATION LABOR | | | | | |
| Furrow Irr. | hour | 7.80 | 0.3017 | 2.36 | _____ |
| HAND LABOR | | | | | |
| Implements | hour | 7.80 | 0.2453 | 1.91 | _____ |
| Self-Propelled | hour | 7.80 | 0.1914 | 1.50 | _____ |
| DIESEL FUEL | | | | | |
| Tractors | gal | 2.22 | 8.2349 | 18.27 | _____ |
| Self-Propelled | gal | 2.22 | 3.3198 | 7.38 | _____ |
| Furrow Irr. | gal | 2.22 | 12.0000 | 26.64 | _____ |
| REPAIR & MAINTENANCE | | | | | |
| Implements | acre | 6.20 | 1.0000 | 6.20 | _____ |
| Tractors | acre | 3.10 | 1.0000 | 3.10 | _____ |
| Self-Propelled | acre | 10.14 | 1.0000 | 10.14 | _____ |
| Furrow Irr. | ac-in | 0.29 | 12.0000 | 3.52 | _____ |
| INTEREST ON OP. CAP. | acre | 13.14 | 1.0000 | 13.14 | _____ |
| TOTAL DIRECT EXPENSES | | | | 458.58 | _____ |
| FIXED EXPENSES | | | | | |
| Implements | acre | 13.62 | 1.0000 | 13.62 | _____ |
| Tractors | acre | 23.75 | 1.0000 | 23.75 | _____ |
| Self-Propelled | acre | 49.56 | 1.0000 | 49.56 | _____ |
| Furrow Irr. | each | 3038.56 | 0.0083 | 25.32 | _____ |
| TOTAL FIXED EXPENSES | | | | 112.25 | _____ |
| TOTAL SPECIFIED EXPENSES | | | | 570.83 | _____ |

**Robert Hogan, Jr.
Extension
Economist
- Farm
Management**

**H. Scott Stiles
Extension
Economist - Risk
Management**

**Frank Groves
Research
Verification
Coordinator**

Table 2. Estimated resource use and costs for field operations, per acre, AG-1036, SE, Furrow, 12R, Stale, Bt/LL, University of Arkansas

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | POWER UNIT SIZE | PERF RATE | TIMES OVER | MTH | POWER UNIT COST | | EQUIPMENT COST | | ALLOC | LABOR | OPERATING/DURABLE INPUT | | | TOTAL COST |
|-------------------------------|---------------|--------------------|--------------|---------------|-----|-------------------|-------|----------------|-------|---------|-------|-------------------------|-------|-------|---------------|
| | | | | | | DIRECT | FIXED | DIRECT | FIXED | HOURS | COST | AMOUNT | PRICE | COST | |
| | | | | | | -----dollars----- | | | | dollars | | -----dollars----- | | | |
| Stalk Shredder-Flail | 20' | MFWD 150 | 0.082 | 1.00 | Oct | 1.67 | 1.92 | 1.29 | 0.98 | 0.08 | 0.74 | | | | 6.60 |
| TerraTill Bed w/roll | 6R-38 | MFWD 225 | 0.107 | 1.00 | Nov | 3.19 | 3.33 | 0.59 | 1.33 | 0.10 | 0.97 | | | | 9.41 |
| Fert Appl - T & O | 12r40 | MFWD 190 | 0.033 | 1.00 | Nov | 0.85 | 0.97 | | | 0.03 | 0.30 | | | | 2.12 |
| 0-60-120-10-1 | acre | | | | | | | | | | | 1.0000 | 45.56 | 45.56 | 45.56 |
| Disk Bed (Hipper) | 12R-38 | MFWD 225 | 0.049 | 1.00 | Nov | 1.47 | 1.53 | 0.29 | 0.96 | 0.04 | 0.44 | | | | 4.69 |
| Sprayer(600-825Gal) | 90' | | 0.011 | 1.00 | Feb | 0.36 | 0.74 | | | 0.01 | 0.16 | | | | 1.26 |
| Glyphosate Plus | pt | | | | | | | | | | | 1.5000 | 1.97 | 2.96 | 2.96 |
| Clarity | pt | | | | | | | | | | | 0.5000 | 11.00 | 5.50 | 5.50 |
| Sprayer(600-825Gal) | 90' | | 0.011 | 0.25 | Apr | 0.09 | 0.19 | | | 0.00 | 0.04 | | | | 0.32 |
| Gramoxone Extra | pt | | | | | | | | | | | 0.2500 | 4.86 | 1.22 | 1.22 |
| Row Cond (Harrow) | 38' | MFWD 225 | 0.039 | 1.00 | Apr | 1.17 | 1.22 | 0.16 | 0.86 | 0.03 | 0.35 | | | | 3.76 |
| Plant & Pre Folding | 12R-40 | MFWD 225 | 0.050 | 1.00 | May | 1.51 | 1.57 | 1.03 | 2.48 | 0.10 | 0.86 | | | | 7.45 |
| Cottonseed Bt/LL | thous | | | | | | | | | | | 45.0000 | 0.52 | 23.40 | 23.40 |
| Bt/LL Tech S | thous | | | | | | | | | | | 45.0000 | 0.74 | 33.30 | 33.30 |
| Cruiser Seed Trmnt | thous | | | | | | | | | | | 45.0000 | 0.20 | 9.00 | 9.00 |
| Terraclor 15 G | lb | | | | | | | | | | | 7.0000 | 1.32 | 9.24 | 9.24 |
| Fert Appl - T & O | 12r40 | MFWD 190 | 0.033 | 1.00 | May | 0.85 | 0.97 | | | 0.03 | 0.30 | | | | 2.12 |
| Urea, Solid (46% N) | lb | | | | | | | | | | | 109.0000 | 0.17 | 19.08 | 19.08 |
| Sprayer(600-825Gal) | 90' | | 0.011 | 1.00 | May | 0.36 | 0.74 | | | 0.01 | 0.16 | | | | 1.26 |
| Ignite 280 SL | pt | | | | | | | | | | | 1.4375 | 4.43 | 6.38 | 6.38 |
| Sprayer(600-825Gal) | 90' | | 0.011 | 1.00 | May | 0.36 | 0.74 | | | 0.01 | 0.16 | | | | 1.26 |
| Ignite 280 SL | pt | | | | | | | | | | | 1.4375 | 4.43 | 6.38 | 6.38 |
| Fert Appl - T & O | 12r40 | MFWD 190 | 0.033 | 1.00 | Jun | 0.85 | 0.97 | | | 0.03 | 0.30 | | | | 2.12 |
| Urea, Solid (46% N) | lb | | | | | | | | | | | 109.0000 | 0.17 | 19.08 | 19.08 |
| Spray (Direct/Layby) | 12R-38 | MFWD 170 | 0.044 | 1.00 | Jun | 1.03 | 1.23 | 0.29 | 0.43 | 0.06 | 0.57 | | | | 3.55 |
| Direx 80 DF | lb | | | | | | | | | | | 0.3300 | 3.89 | 1.28 | 1.28 |
| Ignite 280 SL | pt | | | | | | | | | | | 1.4375 | 4.43 | 6.38 | 6.38 |
| Valor SX | lb | | | | | | | | | | | 0.1250 | 65.50 | 8.19 | 8.19 |
| Cstm Ap Air - 3 gal | appl | | | 1.00 | Jun | | | | | | | 1.0000 | 5.10 | 5.10 | 5.10 |
| Centric 40WG | oz | | | | | | | | | | | 2.0000 | 4.60 | 9.20 | 9.20 |
| Mepiquat Chloride | oz | | | | | | | | | | | 4.0000 | 0.15 | 0.63 | 0.63 |
| IrrPipe+lay+pickup | acre | | | 1.00 | Jun | | | | | | | 1.0000 | 10.30 | 10.30 | 10.30 |
| Cstm Ap Air - 5 gal | appl | | | 1.00 | Jul | | | | | | | 1.0000 | 5.50 | 5.50 | 5.50 |
| Trimax | oz | | | | | | | | | | | 1.5000 | 4.47 | 6.72 | 6.72 |
| Insect Scouting | acre | | | 1.00 | Jul | | | | | | | 1.0000 | 10.00 | 10.00 | 10.00 |
| Cstm Ap Air - 5 gal | appl | | | 1.00 | Jul | | | | | | | 1.0000 | 5.50 | 5.50 | 5.50 |
| Orthene 90S | lb | | | | | | | | | | | 0.5000 | 8.59 | 4.30 | 4.30 |
| Cstm Ap Air - 5 gal | appl | | | 1.00 | Jul | | | | | | | 1.0000 | 5.50 | 5.50 | 5.50 |
| Bidrin 8L | oz | | | | | | | | | | | 8.0000 | 0.76 | 6.16 | 6.16 |
| Mepiquat Chloride | oz | | | | | | | | | | | 10.0000 | 0.15 | 1.56 | 1.56 |
| Eradication Fee SE/C | ac | | | 1.00 | Jul | | | | | | | 1.0000 | 12.00 | 12.00 | 12.00 |
| Cstm Ap Air - 5 gal | appl | | | 1.00 | Jul | | | | | | | 1.0000 | 5.50 | 5.50 | 5.50 |
| Orthene 90S | lb | | | | | | | | | | | 0.5000 | 8.59 | 4.30 | 4.30 |
| Cstm Ap Air - 5 gal | appl | | | 1.00 | Jul | | | | | | | 1.0000 | 5.50 | 5.50 | 5.50 |
| Pyrethroid | ac | | | | | | | | | | | 1.0000 | 6.00 | 6.00 | 6.00 |
| Mepiquat Chloride | oz | | | | | | | | | | | 12.0000 | 0.15 | 1.88 | 1.88 |
| Cstm Ap Air - 5 gal | appl | | | 1.00 | Aug | | | | | | | 1.0000 | 5.50 | 5.50 | 5.50 |
| Bidrin 8L | oz | | | | | | | | | | | 8.0000 | 0.76 | 6.16 | 6.16 |
| Cstm Ap Air - 5 gal | appl | | | 1.00 | Aug | | | | | | | 1.0000 | 5.50 | 5.50 | 5.50 |
| Pyrethroid | ac | | | | | | | | | | | 1.0000 | 6.00 | 6.00 | 6.00 |
| Cstm Ap Air - 5 gal | appl | | | 1.00 | Sep | | | | | | | 1.0000 | 5.50 | 5.50 | 5.50 |

| | | | | | | | | | | | | | | | |
|-------------------------------|------------|----------|-------|------|-----|-------|-------|-------|-------|-------|-------|--------|-------|--------|--------|
| Aim | oz | | | | | | | | | | | 0.3300 | 5.42 | 1.79 | 1.79 |
| Dropp 50 WP | lb | | | | | | | | | | | 0.1000 | 40.75 | 4.08 | 4.08 |
| Finish 6 | pt | | | | | | | | | | | 0.3300 | 7.50 | 2.48 | 2.48 |
| Surfactant (80-20) | pt | | | | | | | | | | | 0.2000 | 1.25 | 0.25 | 0.25 |
| Cstm Ap Air - 5 gal | appl | | 1.00 | Sep | | | | | | | | 1.0000 | 5.50 | 5.50 | 5.50 |
| Aim | oz | | | | | | | | | | | 0.6700 | 5.42 | 3.63 | 3.63 |
| Ethephon | pint | | | | | | | | | | | 1.6000 | 3.69 | 5.91 | 5.91 |
| Surfactant (80-20) | pt | | | | | | | | | | | 0.2000 | 1.25 | 0.25 | 0.25 |
| Boll Buggy-1st pick | 6R-38(325) | MFWD 190 | 0.172 | 1.00 | Oct | 4.39 | 5.02 | 1.10 | 2.84 | 0.17 | 1.55 | | | | 14.90 |
| Cotton Picker-1st-BB | 6R-38(330) | | 0.172 | | | 16.35 | 47.15 | | | 0.34 | 2.89 | | | | 66.39 |
| Module Builder-1st | 6R-38(325) | MFWD 190 | 0.172 | 1.00 | Oct | 4.39 | 5.02 | 1.45 | 3.74 | 0.34 | 2.89 | | | | 17.49 |
| Furrow Irr. | each | | | 1.00 | Jun | | | | 25.32 | | | 0.0083 | | | 25.32 |
| Application 1 | ac-in | | | | | | | 7.54 | | 0.07 | 0.59 | 3.0000 | | | 8.13 |
| Application 2 | ac-in | | | | | | | 7.54 | | 0.07 | 0.59 | 3.0000 | | | 8.13 |
| Application 3 | ac-in | | | | | | | 7.54 | | 0.07 | 0.59 | 3.0000 | | | 8.13 |
| Application 4 | ac-in | | | | | | | 7.54 | | 0.07 | 0.59 | 3.0000 | | | 8.13 |
| | | | | | | ----- | ----- | ----- | ----- | ----- | ----- | | | ----- | ----- |
| TOTALS | | | 38.89 | | | 73.31 | 36.36 | 38.94 | 1.76 | 15.04 | | | | 355.15 | 557.69 |
| INTEREST ON OPERATING CAPITAL | | | | | | | | | | | | | | | 13.14 |
| UNALLOCATED LABOR | | | | | | | | | | | | | | | 0.00 |
| TOTAL SPECIFIED COST | | | | | | | | | | | | | | | 570.83 |

Information presented in this document is prepared solely as a general guide and is not intended to recognize or predict the costs and returns from any one particular farm operation. The mention of any commercial product in this analysis does not imply its endorsement by the University of Arkansas Cooperative Extension Service over other products not named, nor does the omission imply that they are not satisfactory. This budget does not include costs for land, overhead, or management.

Table 3. Alternative cotton production practices and which cotton budgets contain them.

| Production Practice | Cost per acre^a | Budget No. |
|---|--|---|
| Bud worm/boll worm control | | |
| Lannate (1 gal./ 4 acres) | \$19.23 | None |
| Larvin (1 gal./ 3.5 acres) | \$22.93 | None |
| Tracer (1 gal./ 64 acres) | \$18.41 | None |
| Tracer (1/2 rate) + Pyretheroid | \$18.19 | None |
| Defoliation for Irrigated Cotton | \$27.79 | All budgets except: AG-1027, 1038, and 1048 |
| Defoliation for Dryland Cotton | \$19.55 | AG-1027, 1038, and 1048 |
| Cruiser seed treatment | \$9.31 | AG-1027, 1028, 1029, 1030, 1032, 1033, 1034, 1035, 1036, 1038, 1039, 1040, 1042, 1043, 1044, 1045, 1047, 1048, 1049, 1050, 1051, 1053, 1054, 1055 |
| Gaucho seed treatment | \$9.31 | AG-1031 and 1041 |
| Avicta Complete Pak seed treatment | \$21.60 | None |
| Harvest 4 row harvester, first pick ^b | \$66.96 | AG-1027, 1028, 1029, 1030, 1038, 1047, and 1054 |
| 4 row harvester, second pick ^b | \$56.73 | None |
| 6 row harvester, (38" rows), first pick ^b | \$66.39 | All budgets except: AG-1027, 1028, 1029, 1030, 1038, 1047, and 10542 |
| 6 row harvester, (38" rows), second pick ^b | \$56.23 | None |
| Irrigation, furrow (3 ac. in) | \$8.35 per app. Plus a fixed cost of \$25.32 | AG-1030, 1031, 1033, 1034, 1035, 1036, 1037, 1040, 1041, 1042, 1043, 1044, 1048, 1049, and 1050 |
| Irrigation, center pivot (1 ac. in) | \$5.75 per app. Plus a fixed cost of \$69.24 | AG-1028, 1029, 1032, 1039, 1045, 1046, 1051, 1052, 1053, 1054, and 1055 |
| Irrigation, furrow, stationary relift (3 ac. in) | \$4.63 per app. Plus a fixed cost of \$24.79 | None |
| Module Builder | \$26.19 | All |
| Row cultivate plus directed spray | \$6.42 + material | None |
| Staple herbicide banded application (0.6 oz) | \$14.40 | None |
| Prowl, and Incorporate (1.2 pints) | \$8.55 | None |
| Treflan, Incorporated application (0.75 pints) | \$9.16 | None |
| Treflan and Incorporate (1.5 pints) | \$10.98 | None |

^a Machinery costs per acre assume that each machine is fully utilized on the farm.

^bThis harvest cost includes the direct and fixed costs of the cotton picker only.

The authors gratefully acknowledge the contributions of Ken Smith, Glenn Studebaker, and Gus Lorenz in the construction of the 2007 cotton budgets. For additional information on cotton economics contact Rob Hogan at the Northeast Research and Extension Center 870-526-2199 extension 108.

View and print all of the Arkansas crop budgets at http://www.uaex.edu/depts/ag_economics/crop_budgets.htm

**Estimating 2007 Costs of Production, Cotton
 Southeast/Central Boll Weevil Eradication Zone, Furrow,
 12 Row, No-Till, BGII/LL, AG-1037-12-06**

| ITEM | UNIT | PRICE | QUANTITY | AMOUNT | YOUR FARM |
|---------------------------------|-------|---------|----------|---------|-----------|
| | | dollars | | dollars | |
| DIRECT EXPENSES | | | | | |
| HARVEST AIDS | | | | | |
| Def 6 | pt | 5.32 | 1.1600 | 6.17 | _____ |
| Finish 6 | pt | 7.50 | 0.3300 | 2.48 | _____ |
| Dropp 50 WP | lb | 40.75 | 0.1000 | 4.08 | _____ |
| Ethephon | pint | 3.69 | 1.6000 | 5.91 | _____ |
| FERTILIZERS | | | | | |
| 0-60-120-10-1 | acre | 45.56 | 1.0000 | 45.56 | _____ |
| Urea, Solid (46% N) | lb | 0.17 | 218.0000 | 38.15 | _____ |
| FUNGICIDES | | | | | |
| Ridomil Gold PC | lb | 1.93 | 7.0000 | 13.51 | _____ |
| HERBICIDES | | | | | |
| Glyphosate Plus | pt | 1.97 | 4.6000 | 9.06 | _____ |
| Clarity | pt | 11.00 | 0.5000 | 5.50 | _____ |
| Gramoxone Extra | pt | 4.86 | 0.2500 | 1.22 | _____ |
| Cotoran 4L | pt | 4.79 | 1.6000 | 7.66 | _____ |
| Caparol 4L | pt | 3.71 | 0.7500 | 2.78 | _____ |
| Valor SX | lb | 65.50 | 0.0562 | 3.68 | _____ |
| INSECTICIDES | | | | | |
| Temik 15G Grit | lb | 3.20 | 3.5000 | 11.20 | _____ |
| Baythroid 2 | oz | 2.61 | 0.2000 | 0.52 | _____ |
| Centric 40WG | oz | 4.60 | 2.0000 | 9.20 | _____ |
| Trimax | oz | 4.47 | 1.5000 | 6.72 | _____ |
| Orthene 90S | lb | 8.59 | 1.0000 | 8.59 | _____ |
| Bidrin 8L | oz | 0.76 | 16.0000 | 12.31 | _____ |
| Pyrethroid | ac | 6.00 | 2.0000 | 12.00 | _____ |
| IRRIGATION SUPPLIES | | | | | |
| IrrPipe+lay+pickup | acre | 10.30 | 1.0000 | 10.30 | _____ |
| CROP SEED | | | | | |
| Cottonsd BGII/RRFlex | thous | 0.48 | 45.0000 | 21.60 | _____ |
| TECHNOLOGY FEE | | | | | |
| BGII/RRF Tech S | thous | 1.42 | 45.0000 | 63.90 | _____ |
| Eradication Fee SE/C | ac | 12.00 | 1.0000 | 12.00 | _____ |
| GROWTH REGULATORS | | | | | |
| Mepiquat Chloride | oz | 0.15 | 1.6250 | 0.25 | _____ |
| CUSTOM HIRE | | | | | |
| Cstm Ap Air - 3 gal | appl | 5.10 | 1.0000 | 5.10 | _____ |
| Insect Scouting | acre | 10.00 | 1.0000 | 10.00 | _____ |
| Cstm Ap Air - 5 gal | appl | 5.50 | 9.0000 | 49.50 | _____ |
| OPERATOR LABOR | | | | | |
| Tractors | hour | 9.00 | 0.6474 | 5.82 | _____ |
| Self-Propelled | hour | 9.00 | 0.2104 | 1.91 | _____ |
| IRRIGATION LABOR | | | | | |
| Furrow Irr. | hour | 7.80 | 0.3017 | 2.36 | _____ |
| HAND LABOR | | | | | |
| Implements | hour | 7.80 | 0.2406 | 1.87 | _____ |
| Self-Propelled | hour | 7.80 | 0.1914 | 1.50 | _____ |
| DIESEL FUEL | | | | | |
| Tractors | gal | 2.22 | 6.2069 | 13.76 | _____ |
| Self-Propelled | gal | 2.22 | 3.3198 | 7.38 | _____ |
| Furrow Irr. | gal | 2.22 | 12.0000 | 26.64 | _____ |
| REPAIR & MAINTENANCE | | | | | |
| Implements | acre | 5.22 | 1.0000 | 5.22 | _____ |
| Tractors | acre | 2.41 | 1.0000 | 2.41 | _____ |
| Self-Propelled | acre | 10.14 | 1.0000 | 10.14 | _____ |
| Furrow Irr. | ac-in | 0.29 | 12.0000 | 3.52 | _____ |
| INTEREST ON OP. CAP. | acre | 17.95 | 1.0000 | 17.95 | _____ |
| TOTAL DIRECT EXPENSES | | | | 479.48 | _____ |
| FIXED EXPENSES | | | | | |
| Implements | acre | 11.30 | 1.0000 | 11.30 | _____ |
| Tractors | acre | 18.41 | 1.0000 | 18.41 | _____ |
| Self-Propelled | acre | 49.56 | 1.0000 | 49.56 | _____ |
| Furrow Irr. | each | 3038.56 | 0.0083 | 25.32 | _____ |
| TOTAL FIXED EXPENSES | | | | 104.59 | _____ |
| TOTAL SPECIFIED EXPENSES | | | | 584.07 | _____ |

Robert Hogan, Jr.
 Extension
 Economist
 – Farm
 Management

H. Scott Stiles
 Extension
 Economist – Risk
 Management

Frank Groves
 Research
 Verification
 Coordinator

Table 2. Estimated resource use and costs for field operations, per acre, AG-1037, SE/Cen, Furrow,12R, Notill, BGII/RRF, University of Arkansas

| OPERATION/ OPERATING INPUT | SIZE/ UNIT | POWER UNIT SIZE | PERF RATE | TIMES OVER | MTH | POWER UNIT COST | | EQUIPMENT COST | | ALLOC LABOR | | OPERATING/DURABLE INPUT | | | TOTAL COST |
|-------------------------------|---------------|--------------------|--------------|---------------|-----|-------------------|-------|----------------|-------|-------------|------|-------------------------|-------|-------|---------------|
| | | | | | | DIRECT | FIXED | DIRECT | FIXED | HOURS | COST | AMOUNT | PRICE | COST | |
| | | | | | | -----dollars----- | | | | dollars | | -----dollars----- | | | |
| Stalk Shredder-Flail | 20' | MFWD 150 | 0.082 | 1.00 | Oct | 1.67 | 1.92 | 1.29 | 0.98 | 0.08 | 0.74 | | | | 6.60 |
| Sprayer(600-825Gal) | 90' | | 0.011 | 1.00 | Feb | 0.36 | 0.74 | | | 0.01 | 0.16 | | | | 1.26 |
| Glyphosate Plus | pt | | | | | | | | | | | 1.5000 | 1.97 | 2.96 | 2.96 |
| Clarity | pt | | | | | | | | | | | 0.5000 | 11.00 | 5.50 | 5.50 |
| Fert Appl - T & O | 12r40 | MFWD 190 | 0.033 | 1.00 | Mar | 0.85 | 0.97 | | | 0.03 | 0.30 | | | | 2.12 |
| 0-60-120-10-1 | acre | | | | | | | | | | | 1.0000 | 45.56 | 45.56 | 45.56 |
| Sprayer(600-825Gal) | 90' | | 0.011 | 0.25 | Apr | 0.09 | 0.19 | | | 0.00 | 0.04 | | | | 0.32 |
| Gramoxone Extra | pt | | | | | | | | | | | 0.2500 | 4.86 | 1.22 | 1.22 |
| Row Cond (Harrow) | 38' | MFWD 225 | 0.039 | 1.00 | Apr | 1.17 | 1.22 | 0.16 | 0.86 | 0.03 | 0.35 | | | | 3.76 |
| NT Plant&Pre-Folding | 12R-38 | MFWD 190 | 0.055 | 1.00 | May | 1.42 | 1.62 | 1.15 | 2.78 | 0.11 | 0.93 | | | | 7.90 |
| Cottonsd BGII/RRFlex | thous | | | | | | | | | | | 45.0000 | 0.48 | 21.60 | 21.60 |
| BGII/RRF Tech S | thous | | | | | | | | | | | 45.0000 | 1.42 | 63.90 | 63.90 |
| Temik 15G Grit | lb | | | | | | | | | | | 3.5000 | 3.20 | 11.20 | 11.20 |
| Cotoran 4L | pt | | | | | | | | | | | 1.6000 | 4.79 | 7.66 | 7.66 |
| Baythroid 2 | oz | | | | | | | | | | | 0.2000 | 2.61 | 0.52 | 0.52 |
| Ridomil Gold PC | lb | | | | | | | | | | | 7.0000 | 1.93 | 13.51 | 13.51 |
| Fert Appl - T & O | 12r40 | MFWD 190 | 0.033 | 1.00 | May | 0.85 | 0.97 | | | 0.03 | 0.30 | | | | 2.12 |
| Urea, Solid (46% N) | lb | | | | | | | | | | | 109.0000 | 0.17 | 19.08 | 19.08 |
| Sprayer(600-825Gal) | 90' | | 0.011 | 1.00 | May | 0.36 | 0.74 | | | 0.01 | 0.16 | | | | 1.26 |
| Glyphosate Plus | pt | | | | | | | | | | | 1.5000 | 1.97 | 2.96 | 2.96 |
| Sprayer(600-825Gal) | 90' | | 0.011 | 1.00 | May | 0.36 | 0.74 | | | 0.01 | 0.16 | | | | 1.26 |
| Glyphosate Plus | pt | | | | | | | | | | | 1.0000 | 1.97 | 1.97 | 1.97 |
| Caparol 4L | pt | | | | | | | | | | | 0.7500 | 3.71 | 2.78 | 2.78 |
| Fert Appl - T & O | 12r40 | MFWD 190 | 0.033 | 1.00 | Jun | 0.85 | 0.97 | | | 0.03 | 0.30 | | | | 2.12 |
| Urea, Solid (46% N) | lb | | | | | | | | | | | 109.0000 | 0.17 | 19.08 | 19.08 |
| Cstm Ap Air - 3 gal | appl | | | 1.00 | Jun | | | | | | | 1.0000 | 5.10 | 5.10 | 5.10 |
| Centric 40WG | oz | | | | | | | | | | | 2.0000 | 4.60 | 9.20 | 9.20 |
| Mepiquat Chloride | oz | | | | | | | | | | | 0.2500 | 0.15 | 0.04 | 0.04 |
| Spray (Band) | 40' Fold | MFWD 170 | 0.042 | 0.60 | Jun | 0.58 | 0.70 | 0.07 | 0.10 | 0.03 | 0.33 | | | | 1.78 |
| Valor SX | lb | | | | | | | | | | | 0.0562 | 65.50 | 3.68 | 3.68 |
| Glyphosate Plus | pt | | | | | | | | | | | 0.6000 | 1.97 | 1.18 | 1.18 |
| IrrPipe+lay+pickup | acre | | | 1.00 | Jun | | | | | | | 1.0000 | 10.30 | 10.30 | 10.30 |
| Insect Scouting | acre | | | 1.00 | Jul | | | | | | | 1.0000 | 10.00 | 10.00 | 10.00 |
| Cstm Ap Air - 5 gal | appl | | | 1.00 | Jul | | | | | | | 1.0000 | 5.50 | 5.50 | 5.50 |
| Trimax | oz | | | | | | | | | | | 1.5000 | 4.47 | 6.72 | 6.72 |
| Cstm Ap Air - 5 gal | appl | | | 1.00 | Jul | | | | | | | 1.0000 | 5.50 | 5.50 | 5.50 |
| Orthene 90S | lb | | | | | | | | | | | 0.5000 | 8.59 | 4.30 | 4.30 |
| Cstm Ap Air - 5 gal | appl | | | 1.00 | Jul | | | | | | | 1.0000 | 5.50 | 5.50 | 5.50 |
| Bidrin 8L | oz | | | | | | | | | | | 8.0000 | 0.76 | 6.16 | 6.16 |
| Mepiquat Chloride | oz | | | | | | | | | | | 0.6250 | 0.15 | 0.10 | 0.10 |
| Eradication Fee SE/C | ac | | | 1.00 | Jul | | | | | | | 1.0000 | 12.00 | 12.00 | 12.00 |
| Cstm Ap Air - 5 gal | appl | | | 1.00 | Jul | | | | | | | 1.0000 | 5.50 | 5.50 | 5.50 |
| Orthene 90S | lb | | | | | | | | | | | 0.5000 | 8.59 | 4.30 | 4.30 |
| Cstm Ap Air - 5 gal | appl | | | 1.00 | Jul | | | | | | | 1.0000 | 5.50 | 5.50 | 5.50 |
| Pyrethroid | ac | | | | | | | | | | | 1.0000 | 6.00 | 6.00 | 6.00 |
| Cstm Ap Air - 5 gal | appl | | | 1.00 | Aug | | | | | | | 1.0000 | 5.50 | 5.50 | 5.50 |
| Bidrin 8L | oz | | | | | | | | | | | 8.0000 | 0.76 | 6.16 | 6.16 |
| Mepiquat Chloride | oz | | | | | | | | | | | 0.7500 | 0.15 | 0.12 | 0.12 |
| Cstm Ap Air - 5 gal | appl | | | 1.00 | Aug | | | | | | | 1.0000 | 5.50 | 5.50 | 5.50 |
| Pyrethroid | ac | | | | | | | | | | | 1.0000 | 6.00 | 6.00 | 6.00 |
| Cstm Ap Air - 5 gal | appl | | | 1.00 | Sep | | | | | | | 1.0000 | 5.50 | 5.50 | 5.50 |

| | | | | | | | | | | | | | | | |
|-------------------------------|------------|----------|-------|------|-----|-------|-------|-------|-------|------|-------|--------|-------|--------|--------|
| Def 6 | pt | | | | | | | | | | | 0.5000 | 5.32 | 2.66 | 2.66 |
| Finish 6 | pt | | | | | | | | | | | 0.3300 | 7.50 | 2.48 | 2.48 |
| Dropp 50 WP | lb | | | | | | | | | | | 0.1000 | 40.75 | 4.08 | 4.08 |
| Cstm Ap Air - 5 gal | appl | 1.00 | Sep | | | | | | | | | 1.0000 | 5.50 | 5.50 | 5.50 |
| Def 6 | pt | | | | | | | | | | | 0.6600 | 5.32 | 3.51 | 3.51 |
| Ethephon | pint | | | | | | | | | | | 1.6000 | 3.69 | 5.91 | 5.91 |
| Boll Buggy-1st pick | 6R-38(325) | MFWD 190 | 0.172 | 1.00 | Oct | 4.39 | 5.02 | 1.10 | 2.84 | 0.17 | 1.55 | | | | 14.90 |
| Cotton Picker-1st-BB | 6R-38(330) | | 0.172 | | | 16.35 | 47.15 | | | 0.34 | 2.89 | | | | 66.39 |
| Module Builder-1st | 6R-38(325) | MFWD 190 | 0.172 | 1.00 | Oct | 4.39 | 5.02 | 1.45 | 3.74 | 0.34 | 2.89 | | | | 17.49 |
| Furrow Irr. | each | | 1.00 | Jun | | | | | | | | | | | 25.32 |
| Apply Water | ac-in | | | | | | | | 7.54 | 0.07 | 0.59 | 0.0083 | | | 25.32 |
| Application 2 | ac-in | | | | | | | | 7.54 | 0.07 | 0.59 | 3.0000 | | | 8.13 |
| Application 3 | ac-in | | | | | | | | 7.54 | 0.07 | 0.59 | 3.0000 | | | 8.13 |
| Application 4 | ac-in | | | | | | | | 7.54 | 0.07 | 0.59 | 3.0000 | | | 8.13 |
| TOTALS | | | | | | 33.69 | 67.97 | 35.38 | 36.62 | 1.59 | 13.46 | | | 379.00 | 566.12 |
| INTEREST ON OPERATING CAPITAL | | | | | | | | | | | | | | | 17.95 |
| UNALLOCATED LABOR | | | | | | | | | | | | | | | 0.00 |
| TOTAL SPECIFIED COST | | | | | | | | | | | | | | | 584.07 |

Information presented in this document is prepared solely as a general guide and is not intended to recognize or predict the costs and returns from any one particular farm operation. The mention of any commercial product in this analysis does not imply its endorsement by the University of Arkansas Cooperative Extension Service over other products not named, nor does the omission imply that they are not satisfactory. This budget does not include costs for land, overhead, or management.

Table 3. Alternative cotton production practices and which cotton budgets contain them.

| Production Practice | Cost per acre^a | Budget No. |
|---|--|---|
| Bud worm/boll worm control | | |
| Lannate (1 gal./ 4 acres) | \$19.23 | None |
| Larvin (1 gal./ 3.5 acres) | \$22.93 | None |
| Tracer (1 gal./ 64 acres) | \$18.41 | None |
| Tracer (1/2 rate) + Pyretheroid | \$18.19 | None |
| Defoliation for Irrigated Cotton | \$27.79 | All budgets except: AG-1027, 1038, and 1048 |
| Defoliation for Dryland Cotton | \$19.55 | AG-1027, 1038, and 1048 |
| Cruiser seed treatment | \$9.31 | AG-1027, 1028, 1029, 1030, 1032, 1033, 1034, 1035, 1036, 1038, 1039, 1040, 1042, 1043, 1044, 1045, 1047, 1048, 1049, 1050, 1051, 1053, 1054, 1055 |
| Gaucho seed treatment | \$9.31 | AG-1031 and 1041 |
| Avicta Complete Pak seed treatment | \$21.60 | None |
| Harvest 4 row harvester, first pick ^b | \$66.96 | AG-1027, 1028, 1029, 1030, 1038, 1047, and 1054 |
| 4 row harvester, second pick ^b | \$56.73 | None |
| 6 row harvester, (38" rows), first pick ^b | \$66.39 | All budgets except: AG-1027, 1028, 1029, 1030, 1038, 1047, and 10542 |
| 6 row harvester, (38" rows), second pick ^b | \$56.23 | None |
| Irrigation, furrow (3 ac. in) | \$8.35 per app. Plus a fixed cost of \$25.32 | AG-1030, 1031, 1033, 1034, 1035, 1036, 1037, 1040, 1041, 1042, 1043, 1044, 1048, 1049, and 1050 |
| Irrigation, center pivot (1 ac. in) | \$5.75 per app. Plus a fixed cost of \$69.24 | AG-1028, 1029, 1032, 1039, 1045, 1046, 1051, 1052, 1053, 1054, and 1055 |
| Irrigation, furrow, stationary relift (3 ac. in) | \$4.63 per app. Plus a fixed cost of \$24.79 | None |
| Module Builder | \$26.19 | All |
| Row cultivate plus directed spray | \$6.42 + material | None |
| Staple herbicide banded application (0.6 oz) | \$14.40 | None |
| Prowl, and Incorporate (1.2 pints) | \$8.55 | None |
| Treflan, Incorporated application (0.75 pints) | \$9.16 | None |
| Treflan and Incorporate (1.5 pints) | \$10.98 | None |

^a Machinery costs per acre assume that each machine is fully utilized on the farm.

^bThis harvest cost includes the direct and fixed costs of the cotton picker only.

The authors gratefully acknowledge the contributions of Ken Smith, Glenn Studebaker, and Gus Lorenz in the construction of the 2007 cotton budgets. For additional information on cotton economics contact Rob Hogan at the Northeast Research and Extension Center 870-526-2199 extension 108.

View and print all of the Arkansas crop budgets at http://www.uaex.edu/depts/ag_economics/crop_budgets.htm