

**Estimating 2007 Costs of Production, Cotton
 Northeast Boll Weevil Eradication Zone, Center Pivot, 12 Row,
 Stale Seedbed, Bt/RR, AG-1051-12-06**

| 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 | _____ |
| 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 DZ | ac | 14.00 | 1.0000 | 14.00 | _____ |
| 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 | | | | | |
| 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 | 13.48 | 1.0000 | 13.48 | _____ |
| TOTAL DIRECT EXPENSES | | | | 469.62 | _____ |
| 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 | | | | 626.69 | _____ |

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Table 2. Estimated resource use and costs for field operations, per acre AG-1051, NE, CP, 12R, 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 | 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/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 | 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 | | | | | | | | | | | 1.5000 | 1.97 | 2.96 | 2.96 |
| Dual Magnum | pt | | | | | | | | | | | 1.0000 | 12.66 | 12.66 | 12.66 |
| 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 DZ | ac | | | 1.00 | Jul | | | | | | | 1.0000 | 14.00 | 14.00 | 14.00 |
| 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 |
| 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 | | | | 358.13 | 613.21 |
| INTEREST ON OPERATING CAPITAL | | | | | | | | | | | | | | | 13.48 |
| UNALLOCATED LABOR | | | | | | | | | | | | | | | 0.00 |
| TOTAL SPECIFIED COST | | | | | | | | | | | | | | | 626.69 |

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