

# CLEMSON COOPERATIVE EXTENSION

Last revised: 1/15/2016

## HYBRID BERMUDAGRASS FOR HAY

ESTIMATED MAINTENANCE COSTS AND RETURNS PER ACRE  
5 TON YIELD FROM 4 CUTTINGS (800 LB - ROUND BALE)

|   | UNIT | QUANTITY | PRICE OR<br>COST/UNIT | TOTAL<br>PER ACRE | YOUR<br>FARM  |
|---|------|----------|-----------------------|-------------------|---------------|
| <b>1. GROSS RECEIPTS</b>                      |      |          |                       |                   |               |
| BERMUDAGRASS                                  | TON  | 5.00     | \$120.00              | \$600.00          |               |
| TOTAL RECEIPTS:                               |      |          |                       | <b>\$600.00</b>   | <b>\$0.00</b> |
| <b>2. VARIABLE COSTS</b>                      |      |          |                       |                   |               |
| FERTILIZER                                    |      |          |                       |                   |               |
| NITROGEN                                      | LBS  | 150.00   | \$0.77                | \$115.50          |               |
| PHOSPHATE                                     | LBS  | 70.00    | \$0.49                | \$34.30           |               |
| POTASH  | LBS  | 210.00   | \$0.33                | \$69.30           |               |
| LIQ. NITROGEN (SPREAD)                        | LBS  | 140.00   | \$0.40                | \$56.00           |               |
| LIME (SPREAD)                                 | TON  | 0.50     | \$45.00               | \$22.50           |               |
| HERBICIDES                                    | ACRE | 1.00     | \$98.19               | \$98.19           |               |
| CUSTOM SPREAD                                 | ACRE | 1.00     | \$10.00               | \$10.00           |               |
| TWINE   | BALE | 12.50    | \$0.15                | \$1.88            |               |
| TRACTOR/MACHINERY                             | ACRE | 1.00     | \$75.17               | \$75.17           |               |
| LABOR   | HRS  | 6.02     | \$9.50                | \$57.19           |               |
| INTEREST ON OP. CAP.                          | DOL. | \$270.02 | 5.0%                  | \$13.50           |               |
| TOTAL VARIABLE COSTS:                         |      |          |                       | <b>\$553.53</b>   | <b>\$0.00</b> |
| <b>3. INCOME ABOVE VARIABLE COSTS:</b>        |      |          |                       | <b>\$46.47</b>    | <b>\$0.00</b> |
| <b>4. FIXED COSTS</b>                         |      |          |                       |                   |               |
| TRACTOR/MACHINERY                             | ACRE | 1.00     | \$112.41              | \$112.41          |               |
| PRORATED ESTABLISHMENT COST                   | ACRE | 1.00     | \$46.69               | \$46.69           |               |
| TOTAL FIXED COSTS:                            |      |          |                       | <b>\$159.10</b>   | <b>\$0.00</b> |
| <b>5. OTHER COSTS</b>                         |      |          |                       |                   |               |
| LAND RENT                                     | ACRE | 1.00     | \$40.00               | \$40.00           |               |
| GENERAL OVERHEAD                              | DOL. | \$553.53 | 7.0%                  | \$38.75           |               |
| TOTAL OTHER COSTS:                            |      |          |                       | <b>\$78.75</b>    | <b>\$0.00</b> |
| <b>6. TOTAL COSTS:</b>                        |      |          |                       | <b>\$791.38</b>   | <b>\$0.00</b> |
| <b>7. NET RETURNS TO RISK AND MANAGEMENT:</b> |      |          |                       | <b>-\$191.38</b>  | <b>\$0.00</b> |

| <b><u>BREAK-EVEN YIELD</u></b> |          | <b><u>BREAK-EVEN PRICE</u></b> |          |
|--------------------------------|----------|--------------------------------|----------|
| VARIABLE COSTS                 | 4.61 TON | VARIABLE COSTS                 | \$110.71 |
| TOTAL COSTS                    | 6.59 TON | TOTAL COSTS                    | \$158.28 |

\* PLEASE NOTE: THIS BUDGET IS FOR PLANNING PURPOSES ONLY.

\*\* ESTABLISHMENT COST AMORTIZED OVER 10 YEARS.

\*\*\* LIME AND FERTILIZER SHOULD BE BASED ON A SOIL TEST.

\*\*\*\* GROSS RECEIPTS WILL VARY AS TO BE SOLD TO HORSE OR CATTLE CONSUMPTION.

## HYBRID BERMUDAGRASS FOR HAY

| PER ACRE MACHINERY AND LABOR REQUIREMENTS FOR BERMUDAGRASS HAY |                   |            |             |               |                |             |
|--|-------------------|------------|-------------|---------------|----------------|-------------|
| MONTH  | OPERATION         | TIMES OVER | LABOR HOURS | MACHINE HOURS | VARIABLE COSTS | FIXED COSTS |
| 3  | BUSHHOG 14'       | 1.00       | 0.17        | 0.15          | \$1.33         | \$2.13      |
| 6,7&8  | MOWER-CONDITIONER | 4.00       | 1.58        | 1.44          | \$19.88        | \$37.36     |
| 6,7&8  | WINDROWER         | 4.00       | 0.75        | 0.68          | \$5.32         | \$6.40      |
| 6,7&8  | TEDDER            | 4.00       | 1.10        | 1.00          | \$8.00         | \$12.92     |
| 6,7&8  | ROUND BALER       | 4.00       | 1.67        | 1.52          | \$27.44        | \$35.92     |
| 6,7&8  | FRONT-END LOADER  | 4.00       | 0.84        | 0.76          | \$6.52         | \$8.76      |
| 6,7&8  | TRUCK 1.5 TON     | 4.00       | 1.01        | 0.92          | \$6.68         | \$8.92      |
| PER ACRE TOTALS FOR SELECTED OPERATIONS                        |                   |            | 7.12        | 6.47          | \$75.17        | \$112.41    |
| UNALLOCATED LABOR(HRS./AC.)                                    |                   |            | 8.90        |               |                |             |

| INCOME ABOVE VARIABLE COSTS AT DIFFERING YIELDS AND PRICES |                 |          |          |          |          |
|--|-----------------|----------|----------|----------|----------|
| YIELD  | PRICE (\$/ton.) |          |          |          |          |
| TON  | \$108.00        | \$114.00 | \$120.00 | \$126.00 | \$132.00 |
| 4.00   | -\$121.53       | -\$97.53 | -\$73.53 | -\$49.53 | -\$25.53 |
| 4.50   | -\$67.53        | -\$40.53 | -\$13.53 | \$13.47  | \$40.47  |
| 5.00   | -\$13.53        | \$16.47  | \$46.47  | \$76.47  | \$106.47 |
| 5.50   | \$40.47         | \$73.47  | \$106.47 | \$139.47 | \$172.47 |
| 6.00   | \$94.47         | \$130.47 | \$166.47 | \$202.47 | \$238.47 |

| CHEMICAL USE ASSUMPTIONS FOR HYBRID BERMUDAGRASS FOR HAY |      |          |                    |                |       |
|--|------|----------|--------------------|----------------|-------|
|  | UNIT | QUANTITY | PRICE OR COST/UNIT | TOTAL PER ACRE | MONTH |
| HERBICIDES:  |      |          |                    |                |       |
| picloram+2,4-D (Grazon P+D)                              | PT   | 2.00     | \$4.75             | \$9.50         | JUNE  |
| carbaryl (Sevin)   | LB   | 1.50     | \$46.50            | \$69.75        | AUG   |
| pendimethalin (Prowl)                                    | PT   | 3.00     | \$6.31             | \$18.94        | FEB   |
| TOTAL:   |      |          |                    | \$98.19        |       |

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