

CLEMSON

EXTENSION

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HYBRID BERMUDAGRASS FOR HAY

ESTIMATED MAINTENANCE COSTS AND RETURNS PER ACRE, 2008/2009
5 TON YIELD FROM 4 CUTTINGS (SMALL SQUARE BALES)

| | UNIT | QUANTITY | PRICE OR COST/UNIT | TOTAL PER ACRE | YOUR FARM |
|---|------|----------|--------------------|------------------|-----------|
| 1. GROSS RECEIPTS | | | | | |
| BERMUDAGRASS | TON | 5.00 | \$120.00 | \$600.00 | _____ |
| TOTAL RECEIPTS: | | | | \$600.00 | _____ |
| 2. VARIABLE COSTS | | | | | |
| FERTILIZER | | | | | |
| NITROGEN | LBS | 150.00 | \$0.59 | \$88.50 | _____ |
| PHOSPHATE | LBS | 70.00 | \$0.52 | \$36.40 | _____ |
| POTASH | LBS | 210.00 | \$0.26 | \$54.60 | _____ |
| LIQ. NITROGEN (SPREAD) | LBS | 140.00 | \$0.49 | \$68.60 | _____ |
| LIME (SPREAD) | TON | 0.50 | \$52.50 | \$26.25 | _____ |
| HERBICIDES | ACRE | 1.00 | \$10.63 | \$10.63 | _____ |
| CUSTOM SPREAD | ACRE | 1.00 | \$8.00 | \$8.00 | _____ |
| TWINE | BALE | 200.00 | \$0.14 | \$28.00 | _____ |
| TRACTOR/MACHINERY | ACRE | 1.00 | \$85.68 | \$85.68 | _____ |
| LABOR | HRS | 15.44 | \$6.50 | \$100.36 | _____ |
| INTEREST ON OP. CAP. | DOL. | \$203.33 | 9.0% | \$18.30 | _____ |
| TOTAL VARIABLE COSTS: | | | | \$525.32 | _____ |
| 3. INCOME ABOVE VARIABLE COSTS: | | | | \$74.68 | _____ |
| 4. FIXED COSTS | | | | | |
| TRACTOR/MACHINERY | ACRE | 1.00 | \$125.96 | \$125.96 | _____ |
| PRORATED ESTABLISHMENT COST | ACRE | 1.00 | \$42.95 | \$42.95 | _____ |
| TOTAL FIXED COSTS: | | | | \$168.91 | _____ |
| 5. OTHER COSTS | | | | | |
| LAND RENT | ACRE | 1.00 | \$25.00 | \$25.00 | _____ |
| GENERAL OVERHEAD | DOL. | \$525.32 | 9.0% | \$47.28 | _____ |
| TOTAL OTHER COSTS: | | | | \$72.28 | _____ |
| 6. TOTAL COSTS: | | | | \$766.51 | _____ |
| 7. NET RETURNS TO RISK AND MANAGEMENT: | | | | -\$166.51 | _____ |

BREAK-EVEN YIELD

VARIABLE COSTS
TOTAL COSTS

4.38 TON
6.39 TON

BREAK-EVEN PRICE

VARIABLE COSTS
TOTAL COSTS

\$105.06
\$153.30

* 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 |
| 6,7&8 | MOWER-CONDITIONER | 4.00 | 1.58 | 1.44 | \$22.12 | \$40.44 |
| 6,7&8 | WINDROWER | 4.00 | 0.75 | 0.68 | \$6.84 | \$7.00 |
| 6,7&8 | TEDDER | 4.00 | 1.10 | 1.00 | \$10.16 | \$14.12 |
| 6,7&8 | PTO BALER | 4.00 | 1.67 | 1.52 | \$33.32 | \$48.20 |
| 6,7&8 | BALE WAGON | 4.00 | 0.75 | 0.68 | \$7.32 | \$6.88 |
| 6,7&8 | TRUCK 1.5 TON | 4.00 | 1.01 | 0.92 | \$5.92 | \$9.32 |
| PER ACRE TOTALS FOR SELECTED OPERATIONS | | | 6.86 | 6.24 | \$85.68 | \$125.96 |
| UNALLOCATED LABOR(HRS./AC.) | | | 8.58 | | | |

| 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 | -\$93.32 | -\$69.32 | -\$45.32 | -\$21.32 | \$2.68 |
| 4.50 | -\$39.32 | -\$12.32 | \$14.68 | \$41.68 | \$68.68 |
| 5.00 | \$14.68 | \$44.68 | \$74.68 | \$104.68 | \$134.68 |
| 5.50 | \$68.68 | \$101.68 | \$134.68 | \$167.68 | \$200.68 |
| 6.00 | \$122.68 | \$158.68 | \$194.68 | \$230.68 | \$266.68 |

| CHEMICAL USE ASSUMPTIONS FOR HYBRID BERMUDAGRASS FOR HAY | | | | | |
|--|------|----------|-----------------------|-------------------|-------|
| | UNIT | QUANTITY | PRICE OR COST/UNIT | TOTAL PER ACRE | MONTH |
| HERBICIDES: | | | | | |
| 2,4-D | PT | 1.50 | \$1.69 | \$2.53 | MAR |
| carbaryl (Sevin) | LB | 1.50 | \$5.40 | \$8.10 | AUG |
| TOTAL: | | | | \$10.63 | |

The above listed chemicals are examples and do not imply exclusive recommendations by Clemson University. The "Pest Management Handbook" must be consulted. Production assumptions provided by John Andrae, Extension Specialist, 864-656-3504, jandrae@clemson.edu.

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