

**WINTER ANNUAL FORAGE BUDGETS  
BROADCAST ESTABLISHMENT  
FOR GEORGIA**

**TECHNICAL INFORMATION FOR  
BUDGETS**

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THE UNIVERSITY OF GEORGIA  
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**ENVIRONMENTAL SCIENCES**

Table 1.A Estimated resource use and costs for field operations, per Acre

Rye

Conv. till - BroadcastUNIVERSITY OF GEORGIA, 2009

| OPERATION/<br>OPERATING INPUT | SIZE/<br>UNIT | POWER UNIT<br>SIZE | PERF TIMES |      |     | POWER UNIT COST   |       | EQUIPMENT COST |       | ALLOC LABOR |      | OPERATING/DURABLE INPUT |       |        | TOTAL<br>COST |
|-------------------------------|---------------|--------------------|------------|------|-----|-------------------|-------|----------------|-------|-------------|------|-------------------------|-------|--------|---------------|
|                               |               |                    | RATE       | OVER | MTH | DIRECT            | FIXED | DIRECT         | FIXED | HOURS       | COST | AMOUNT                  | PRICE | COST   |               |
|                               |               |                    |            |      |     | -----dollars----- |       |                |       | dollars     |      | -----dollars-----       |       |        |               |
| Lime (Spread)                 | ton           |                    |            | 1.00 | Sep |                   |       |                |       |             |      | 0.5000                  | 30.00 | 15.00  | 15.00         |
| Disk Harrow                   | 14'           | 2WD 105            | 0.140      | 1.00 | Sep | 1.91              | 1.36  | 0.42           | 1.02  | 0.14        | 1.44 |                         |       |        | 6.15          |
| Custom Spread + Seed appl     |               |                    |            | 1.00 | Oct |                   |       |                |       |             |      | 1.0000                  | 6.00  | 6.00   | 6.00          |
| Rye Seed                      | lb            |                    |            |      |     |                   |       |                |       |             |      | 120.0000                | 0.31  | 37.20  | 37.20         |
| Amm Nitrate (34-0-0)          | cwt           |                    |            |      |     |                   |       |                |       |             |      | 1.0000                  | 19.00 | 19.00  | 19.00         |
| Phosphate (18-46-0)           | cwt           |                    |            |      |     |                   |       |                |       |             |      | 1.1000                  | 20.00 | 22.00  | 22.00         |
| Potash (0-0-60)               | cwt           |                    |            |      |     |                   |       |                |       |             |      | 0.8500                  | 33.00 | 28.05  | 28.05         |
| Disk Harrow                   | 14'           | 2WD 105            | 0.140      | 1.00 | Oct | 1.91              | 1.36  | 0.42           | 1.02  | 0.14        | 1.44 |                         |       |        | 6.15          |
| Custom Spread(Truck) appl     |               |                    |            | 1.00 | Jan |                   |       |                |       |             |      | 1.0000                  | 6.00  | 6.00   | 6.00          |
| Amm Nitrate (34-0-0)          | cwt           |                    |            |      |     |                   |       |                |       |             |      | 1.4000                  | 19.00 | 26.60  | 26.60         |
| TOTALS                        |               |                    |            |      |     | 3.82              | 2.72  | 0.84           | 2.04  | 0.28        | 2.88 |                         |       | 159.85 | 172.15        |
| INTEREST ON OPERATING CAPITAL |               |                    |            |      |     |                   |       |                |       |             |      |                         |       |        | 5.54          |
| UNALLOCATED LABOR             |               |                    |            |      |     |                   |       |                |       |             |      |                         |       |        | 3.60          |
| TOTAL SPECIFIED COST          |               |                    |            |      |     |                   |       |                |       |             |      |                         |       |        | 181.29        |

Note: Fall 2009 prices. Costs may vary considerably by location

Table 4.A Estimated resource use and costs for field operations, per Acre  
 Ryegrass  
 Conv. till - Broadcast UNIVERSITY OF GEORGIA, 2009

| OPERATION/<br>OPERATING INPUT | SIZE/<br>UNIT | POWER UNIT<br>SIZE | PERF TIMES |      |     | POWER UNIT COST   |       | EQUIPMENT COST |       | ALLOC LABOR |      | OPERATING/DURABLE INPUT |       |        | TOTAL<br>COST |
|-------------------------------|---------------|--------------------|------------|------|-----|-------------------|-------|----------------|-------|-------------|------|-------------------------|-------|--------|---------------|
|                               |               |                    | RATE       | OVER | MTH | DIRECT            | FIXED | DIRECT         | FIXED | HOURS       | COST | AMOUNT                  | PRICE | COST   |               |
|                               |               |                    |            |      |     | -----dollars----- |       |                |       | dollars     |      | -----dollars-----       |       |        |               |
| Lime (Spread)                 | ton           |                    |            | 1.00 | Sep |                   |       |                |       |             |      | 0.5000                  | 30.00 | 15.00  | 15.00         |
| Disk Harrow                   | 14'           | 2WD 105            | 0.140      | 1.00 | Sep | 1.91              | 1.36  | 0.42           | 1.02  | 0.14        | 1.44 |                         |       |        | 6.15          |
| Custom Spread + Seed appl     |               |                    |            | 1.00 | Oct |                   |       |                |       |             |      | 1.0000                  | 6.00  | 6.00   | 6.00          |
| Ryegrass Seed                 | lb            |                    |            |      |     |                   |       |                |       |             |      | 30.0000                 | 0.38  | 11.40  | 11.40         |
| Amm Nitrate (34-0-0)          | cwt           |                    |            |      |     |                   |       |                |       |             |      | 1.0000                  | 19.00 | 19.00  | 19.00         |
| Phosphate (18-46-0)           | cwt           |                    |            |      |     |                   |       |                |       |             |      | 1.1000                  | 20.00 | 22.00  | 22.00         |
| Potash (0-0-60)               | cwt           |                    |            |      |     |                   |       |                |       |             |      | 0.8500                  | 33.00 | 28.05  | 28.05         |
| Disk Harrow                   | 14'           | 2WD 105            | 0.140      | 1.00 | Oct | 1.91              | 1.36  | 0.42           | 1.02  | 0.14        | 1.44 |                         |       |        | 6.15          |
| Custom Spread(Truck) appl     |               |                    |            | 1.00 | Jan |                   |       |                |       |             |      | 1.0000                  | 6.00  | 6.00   | 6.00          |
| Amm Nitrate (34-0-0)          | cwt           |                    |            |      |     |                   |       |                |       |             |      | 1.4000                  | 19.00 | 26.60  | 26.60         |
| Custom Spread(Truck) appl     |               |                    |            | 1.00 | Mar |                   |       |                |       |             |      | 1.0000                  | 6.00  | 6.00   | 6.00          |
| Amm Nitrate (34-0-0)          | cwt           |                    |            |      |     |                   |       |                |       |             |      | 1.4000                  | 19.00 | 26.60  | 26.60         |
| TOTALS                        |               |                    |            |      |     | 3.82              | 2.72  | 0.84           | 2.04  | 0.28        | 2.88 |                         |       | 166.65 | 178.95        |
| INTEREST ON OPERATING CAPITAL |               |                    |            |      |     |                   |       |                |       |             |      |                         |       |        | 4.84          |
| UNALLOCATED LABOR             |               |                    |            |      |     |                   |       |                |       |             |      |                         |       |        | 3.60          |
| TOTAL SPECIFIED COST          |               |                    |            |      |     |                   |       |                |       |             |      |                         |       |        | 187.39        |

Note: Fall 2009 prices. Costs may vary considerably by location

Table 7.A Estimated resource use and costs for field operations, per Acre  
 Rye/ryegrass  
 Conv. till - BroadcastUNIVERSITY OF GEORGIA, 2009

| OPERATION/<br>OPERATING INPUT | SIZE/<br>UNIT | POWER UNIT<br>SIZE | PERF TIMES |      |     | POWER UNIT COST   |       | EQUIPMENT COST |       | ALLOC LABOR |      | OPERATING/DURABLE INPUT |       |        | TOTAL<br>COST |
|-------------------------------|---------------|--------------------|------------|------|-----|-------------------|-------|----------------|-------|-------------|------|-------------------------|-------|--------|---------------|
|                               |               |                    | RATE       | OVER | MTH | DIRECT            | FIXED | DIRECT         | FIXED | HOURS       | COST | AMOUNT                  | PRICE | COST   |               |
|                               |               |                    |            |      |     | -----dollars----- |       |                |       | dollars     |      | -----dollars-----       |       |        |               |
| Lime (Spread)                 | ton           |                    |            | 1.00 | Sep |                   |       |                |       |             |      | 0.5000                  | 30.00 | 15.00  | 15.00         |
| Disk Harrow                   | 14'           | 2WD 105            | 0.140      | 1.00 | Sep | 1.91              | 1.36  | 0.42           | 1.02  | 0.14        | 1.44 |                         |       |        | 6.15          |
| Custom Spread + Seed appl     |               |                    |            | 1.00 | Oct |                   |       |                |       |             |      | 1.0000                  | 6.00  | 6.00   | 6.00          |
| Rye Seed                      | lb            |                    |            |      |     |                   |       |                |       |             |      | 90.0000                 | 0.31  | 27.90  | 27.90         |
| Ryegrass Seed                 | lb            |                    |            |      |     |                   |       |                |       |             |      | 25.0000                 | 0.38  | 9.50   | 9.50          |
| Amm Nitrate (34-0-0)          | cwt           |                    |            |      |     |                   |       |                |       |             |      | 1.0000                  | 19.00 | 19.00  | 19.00         |
| Phosphate (18-46-0)           | cwt           |                    |            |      |     |                   |       |                |       |             |      | 1.1000                  | 20.00 | 22.00  | 22.00         |
| Potash (0-0-60)               | cwt           |                    |            |      |     |                   |       |                |       |             |      | 0.8500                  | 33.00 | 28.05  | 28.05         |
| Disk Harrow                   | 14'           | 2WD 105            | 0.140      | 1.00 | Oct | 1.91              | 1.36  | 0.42           | 1.02  | 0.14        | 1.44 |                         |       |        | 6.15          |
| Custom Spread(Truck) appl     |               |                    |            | 1.00 | Jan |                   |       |                |       |             |      | 1.0000                  | 6.00  | 6.00   | 6.00          |
| Amm Nitrate (34-0-0)          | cwt           |                    |            |      |     |                   |       |                |       |             |      | 1.4000                  | 19.00 | 26.60  | 26.60         |
| Custom Spread(Truck) appl     |               |                    |            | 1.00 | Mar |                   |       |                |       |             |      | 1.0000                  | 6.00  | 6.00   | 6.00          |
| Amm Nitrate (34-0-0)          | cwt           |                    |            |      |     |                   |       |                |       |             |      | 1.4000                  | 19.00 | 26.60  | 26.60         |
| TOTALS                        |               |                    |            |      |     | 3.82              | 2.72  | 0.84           | 2.04  | 0.28        | 2.88 |                         |       | 192.65 | 204.95        |
| INTEREST ON OPERATING CAPITAL |               |                    |            |      |     |                   |       |                |       |             |      |                         |       |        | 5.75          |
| UNALLOCATED LABOR             |               |                    |            |      |     |                   |       |                |       |             |      |                         |       |        | 3.60          |
| TOTAL SPECIFIED COST          |               |                    |            |      |     |                   |       |                |       |             |      |                         |       |        | 214.30        |

Note: Fall 2009 prices. Costs may vary considerably by location

Table 10.A Estimated resource use and costs for field operations, per Acre  
Wheat/ryegrass  
Conv. till - BroadcastUNIVERSITY OF GEORGIA, 2009

| OPERATION/<br>OPERATING INPUT | SIZE/<br>UNIT | POWER UNIT<br>SIZE | PERF TIMES |      |     | POWER UNIT COST   |       | EQUIPMENT COST |       | ALLOC LABOR |      | OPERATING/DURABLE INPUT |       |        | TOTAL<br>COST |
|-------------------------------|---------------|--------------------|------------|------|-----|-------------------|-------|----------------|-------|-------------|------|-------------------------|-------|--------|---------------|
|                               |               |                    | RATE       | OVER | MTH | DIRECT            | FIXED | DIRECT         | FIXED | HOURS       | COST | AMOUNT                  | PRICE | COST   |               |
|                               |               |                    |            |      |     | -----dollars----- |       |                |       | dollars     |      | -----dollars-----       |       |        |               |
| Lime (Spread)                 | ton           |                    |            | 1.00 | Sep |                   |       |                |       |             |      | 0.5000                  | 30.00 | 15.00  | 15.00         |
| Disk Harrow                   | 14'           | 2WD 105            | 0.140      | 1.00 | Sep | 1.91              | 1.36  | 0.42           | 1.02  | 0.14        | 1.44 |                         |       |        | 6.15          |
| Custom Spread + Seed appl     |               |                    |            | 1.00 | Oct |                   |       |                |       |             |      | 1.0000                  | 6.00  | 6.00   | 6.00          |
| Wheat Seed                    | lb            |                    |            |      |     |                   |       |                |       |             |      | 90.0000                 | 0.26  | 23.40  | 23.40         |
| Ryegrass Seed                 | lb            |                    |            |      |     |                   |       |                |       |             |      | 25.0000                 | 0.38  | 9.50   | 9.50          |
| Amm Nitrate (34-0-0)          | cwt           |                    |            |      |     |                   |       |                |       |             |      | 1.0000                  | 19.00 | 19.00  | 19.00         |
| Phosphate (18-46-0)           | cwt           |                    |            |      |     |                   |       |                |       |             |      | 1.1000                  | 20.00 | 22.00  | 22.00         |
| Potash (0-0-60)               | cwt           |                    |            |      |     |                   |       |                |       |             |      | 0.8500                  | 33.00 | 28.05  | 28.05         |
| Disk Harrow                   | 14'           | 2WD 105            | 0.140      | 1.00 | Oct | 1.91              | 1.36  | 0.42           | 1.02  | 0.14        | 1.44 |                         |       |        | 6.15          |
| Custom Spread(Truck) appl     |               |                    |            | 1.00 | Jan |                   |       |                |       |             |      | 1.0000                  | 6.00  | 6.00   | 6.00          |
| Amm Nitrate (34-0-0)          | cwt           |                    |            |      |     |                   |       |                |       |             |      | 1.4000                  | 19.00 | 26.60  | 26.60         |
| Custom Spread(Truck) appl     |               |                    |            | 1.00 | Mar |                   |       |                |       |             |      | 1.0000                  | 6.00  | 6.00   | 6.00          |
| Amm Nitrate (34-0-0)          | cwt           |                    |            |      |     |                   |       |                |       |             |      | 1.4000                  | 19.00 | 26.60  | 26.60         |
| TOTALS                        |               |                    |            |      |     | 3.82              | 2.72  | 0.84           | 2.04  | 0.28        | 2.88 |                         |       | 188.15 | 200.45        |
| INTEREST ON OPERATING CAPITAL |               |                    |            |      |     |                   |       |                |       |             |      |                         |       |        | 5.59          |
| UNALLOCATED LABOR             |               |                    |            |      |     |                   |       |                |       |             |      |                         |       |        | 3.60          |
| TOTAL SPECIFIED COST          |               |                    |            |      |     |                   |       |                |       |             |      |                         |       |        | 209.64        |

Note: Fall 2009 prices. Costs may vary considerably by location

Table 13.A Estimated resource use and costs for field operations, per Acre  
 Oat/ryegrass  
 Conv. till - BroadcastUNIVERSITY OF GEORGIA, 2009

| OPERATION/<br>OPERATING INPUT | SIZE/<br>UNIT | POWER UNIT<br>SIZE | PERF TIMES |      |     | POWER UNIT COST   |       | EQUIPMENT COST |       | ALLOC LABOR |      | OPERATING/DURABLE INPUT |       |        | TOTAL<br>COST |
|-------------------------------|---------------|--------------------|------------|------|-----|-------------------|-------|----------------|-------|-------------|------|-------------------------|-------|--------|---------------|
|                               |               |                    | RATE       | OVER | MTH | DIRECT            | FIXED | DIRECT         | FIXED | HOURS       | COST | AMOUNT                  | PRICE | COST   |               |
|                               |               |                    |            |      |     | -----dollars----- |       |                |       | dollars     |      | -----dollars-----       |       |        |               |
| Lime (Spread)                 | ton           |                    |            | 1.00 | Sep |                   |       |                |       |             |      | 0.5000                  | 30.00 | 15.00  | 15.00         |
| Disk Harrow                   | 14'           | 2WD 105            | 0.140      | 1.00 | Sep | 1.91              | 1.36  | 0.42           | 1.02  | 0.14        | 1.44 |                         |       |        | 6.15          |
| Custom Spread + Seed appl     |               |                    |            | 1.00 | Oct |                   |       |                |       |             |      | 1.0000                  | 6.00  | 6.00   | 6.00          |
| Oat Seed                      | lb            |                    |            |      |     |                   |       |                |       |             |      | 90.0000                 | 0.31  | 27.90  | 27.90         |
| Ryegrass Seed                 | lb            |                    |            |      |     |                   |       |                |       |             |      | 25.0000                 | 0.38  | 9.50   | 9.50          |
| Amm Nitrate (34-0-0)          | cwt           |                    |            |      |     |                   |       |                |       |             |      | 1.0000                  | 19.00 | 19.00  | 19.00         |
| Phosphate (18-46-0)           | cwt           |                    |            |      |     |                   |       |                |       |             |      | 1.1000                  | 20.00 | 22.00  | 22.00         |
| Potash (0-0-60)               | cwt           |                    |            |      |     |                   |       |                |       |             |      | 0.8500                  | 33.00 | 28.05  | 28.05         |
| Disk Harrow                   | 14'           | 2WD 105            | 0.140      | 1.00 | Oct | 1.91              | 1.36  | 0.42           | 1.02  | 0.14        | 1.44 |                         |       |        | 6.15          |
| Custom Spread(Truck) appl     |               |                    |            | 1.00 | Jan |                   |       |                |       |             |      | 1.0000                  | 6.00  | 6.00   | 6.00          |
| Amm Nitrate (34-0-0)          | cwt           |                    |            |      |     |                   |       |                |       |             |      | 1.4000                  | 19.00 | 26.60  | 26.60         |
| Custom Spread(Truck) appl     |               |                    |            | 1.00 | Mar |                   |       |                |       |             |      | 1.0000                  | 6.00  | 6.00   | 6.00          |
| Amm Nitrate (34-0-0)          | cwt           |                    |            |      |     |                   |       |                |       |             |      | 1.4000                  | 19.00 | 26.60  | 26.60         |
| TOTALS                        |               |                    |            |      |     | 3.82              | 2.72  | 0.84           | 2.04  | 0.28        | 2.88 |                         |       | 192.65 | 204.95        |
| INTEREST ON OPERATING CAPITAL |               |                    |            |      |     |                   |       |                |       |             |      |                         |       |        | 5.75          |
| UNALLOCATED LABOR             |               |                    |            |      |     |                   |       |                |       |             |      |                         |       |        | 3.60          |
| TOTAL SPECIFIED COST          |               |                    |            |      |     |                   |       |                |       |             |      |                         |       |        | 214.30        |

Note: Fall 2009 prices. Costs may vary considerably by location