

Cool Season Grass Clover, Baleage
Estimated Expenses per Acre^{1,2,3}

| Item | Description | Unit | Quantity | Price | Amount (\$/acre) | Amount (\$/ton) | Amount (\$/bale) |
|--|--------------------------|---------|-----------|----------|------------------|-----------------|------------------|
| Income | | | | | | | |
| Hay | Orchardgrass/Clover | ton | 4.80 | | \$ - | \$ - | \$ - |
| Expenses | | | | | | | |
| Prorated Establishment Costs | | | | | | | |
| Fertilizer | N ⁴ | lb | 60.00 | \$ 0.60 | \$ 35.92 | \$ 7.48 | \$ 3.98 |
| | P2O5 | lb | 30.00 | \$ 0.61 | \$ 18.41 | \$ 3.83 | \$ 2.04 |
| | K2O | lb | 30.00 | \$ 0.41 | \$ 12.26 | \$ 2.56 | \$ 1.36 |
| | Custom Application | acre | 1.00 | \$ 12.71 | \$ 12.71 | \$ 2.65 | \$ 1.41 |
| Lime & Application ^{5,6} | Custom Application | ton | 0.33 | \$ 43.63 | \$ 14.40 | \$ 3.00 | \$ 1.60 |
| Weed Control | | | | | | | |
| Post-Emerge ⁷ | Herbicide Application | acre | 1.00 | \$ 12.30 | \$ 12.30 | \$ 2.56 | \$ 1.36 |
| | Custom Application | acre | 1.00 | \$ 11.81 | \$ 11.81 | \$ 2.46 | \$ 1.31 |
| Pest Control | Pest Control Application | acre | | \$ 6.51 | \$ - | \$ - | \$ - |
| | Custom Application | acre | | \$ 11.81 | \$ - | \$ - | \$ - |
| Total Variable Expenses | | | | | \$ 169.34 | \$ 35.28 | \$ 18.79 |
| Return over Variable Expenses | | | | | | | |
| Custom Machinery Cost | | | | | | | |
| Disk Mowing | | cutting | 2 | \$ 16.50 | \$ 33.00 | \$ 6.88 | \$ 3.66 |
| Tedding | | cutting | 2 | \$ 6.67 | \$ 13.34 | \$ 2.78 | \$ 1.48 |
| Raking | | cutting | 2 | \$ 8.67 | \$ 17.34 | \$ 3.61 | \$ 1.92 |
| Baling | | cutting | 2 | \$ 15.17 | \$ 30.34 | \$ 6.32 | \$ 3.37 |
| Hauling | | bale | 9.01 | \$ 5.42 | \$ 48.86 | \$ 10.18 | \$ 5.42 |
| Wrapping | | bale | 9.01 | \$ 5.50 | \$ 49.58 | \$ 10.33 | \$ 5.50 |
| Total Custom Machinery Cost | | | | | \$ 192.45 | \$ 40.09 | \$ 21.35 |
| Interest on Operating Capital | 6 months | acre | \$ 169.34 | 8.0% | \$ 6.77 | \$ 1.41 | \$ 0.75 |
| Cash Rent | | acre | 1 | | \$ - | \$ - | \$ - |
| Storage | | | | | | | |
| Shrinkage Loss ⁸ | | annual | 15.0% | | \$ 55.29 | \$ 11.52 | \$ 6.13 |
| Total Budgeted Expenses | | | | | \$ 368.57 | \$ 76.79 | \$ 40.89 |
| Return to Land & Management | | | | | | | |

Round
4x5
1065

Cool Season Grass/Clover Hay, Establishment
Estimated Expenses per Acre

| Item | Description | Unit | Quantity | Price | Amount (\$/acre) |
|------------------------------------|--------------------|------|-----------|----------|------------------|
| Expenses | | | | | |
| Burndown | Burndown | acre | 1.00 | \$ 15.66 | \$ 15.66 |
| Seed | Orchardgrass | lb | 12.50 | \$ 3.02 | \$ 37.75 |
| | Red Clover | lb | 4.00 | \$ 3.33 | \$ 13.32 |
| | White Clover | lb | 2.00 | \$ 4.57 | \$ 9.14 |
| Fertilizer | N | lb | 30.00 | \$ 0.60 | \$ 17.96 |
| | P2O5 | lb | 60.00 | \$ 0.61 | \$ 36.81 |
| | K2O | lb | 60.00 | \$ 0.41 | \$ 24.53 |
| | Custom Application | acre | 1.00 | \$ 12.71 | \$ 12.71 |
| Lime & Application | Custom Application | ton | 2.00 | \$ 43.63 | \$ 87.26 |
| Total Variable Expenses | | | | | \$ 255.14 |
| Custom Machinery Cost | | | | | |
| Spraying | | acre | 1 | \$ 11.81 | \$ 11.81 |
| No-till Drill | | acre | 1 | \$ 17.08 | \$ 17.08 |
| Broadcast Seeding | | acre | 1 | \$ 15.00 | \$ 15.00 |
| Total Custom Machinery Cost | | | | | \$ 43.89 |
| Interest on Operating Capital | 6 months | acre | \$ 255.14 | 8.0% | \$ 10.21 |
| Total Budgeted Expenses | | | | | \$ 309.24 |

Establishment
Prorated Over Years⁹
6

Cool Season Grass and Cool Season Grass and Clover Assumptions

1. The budget is based on custom rates for machinery processes. Labor, operating, maintenance, and ownership costs are included in these rates. The baling rate includes binding.
2. The budget is based on no-till establishment.
3. Based on inline tube wrapping.
4. Sixty pounds of nitrogen will be applied in March, with the remainder applied during the growing season. If clover is included, it is assumed that 60 pounds of nitrogen will come from the clover.
5. Lime prorated at one ton over three years.
6. For a more accurate fertilizer and lime recommendation, take a soil sample. ([Instructions on how to take a soil sample.](#))
7. The post-emergence weed control is based on an average of three common practices. Burndown is a common practice. For weed control and/or burndown recommendations, contact the county Extension office. ([County office contact information.](#))
8. Storage loss is based on an average of multiple studies.
9. Establishment pro-rated expenses for hay are set for six years.