

**Costs and Returns per acre from growing oats, 2006
Beaver County**

| | Quantity per acre | Unit | Price/cost per unit | Value/cost per acre | Base Value | Your Value |
|--|----------------------|-------------|------------------------|------------------------|------------|------------|
| Receipts | | | | | | |
| Oats | 91.0 | bushels | \$2.13 | \$194.13 | \$194.13 | |
| Straw | 0.65 | tons | \$43.00 | \$27.95 | \$27.95 | |
| Subtotal | | | | \$222.08 | \$222.08 | |
| Operating costs | | | | | | |
| Land preparation | | | | | | |
| Plowing | 1 | acre | \$5.88 | \$5.88 | \$5.88 | |
| Discing | 1 | acre | \$3.73 | \$3.73 | \$3.73 | |
| Land plane | 1 | acre | \$3.34 | \$3.34 | \$3.34 | |
| Roller harrow | 1 | acre | \$3.64 | \$3.64 | \$3.64 | |
| Planting | 1 | acre | \$2.96 | \$2.96 | \$2.96 | |
| Seed | 90 | pounds | \$0.17 | \$15.30 | \$15.30 | |
| Fertilization | | | | | | |
| Nitrogen (34-0-0) | 250 | pounds | \$0.18 | \$44.63 | \$44.63 | |
| Phosphate | - | pounds | \$0.18 | \$0.00 | \$0.00 | |
| Custom application | 1 | acre | \$7.82 | \$7.82 | \$7.82 | |
| Pesticides/herbicides | | | | | | |
| 2-4-D | 1.25 | pints | \$2.75 | \$3.44 | \$3.44 | |
| Custom application | 1 | acre | \$7.82 | \$7.82 | \$7.82 | |
| Irrigation (wheel line) | 2 | irrigations | | | | |
| Labor | 0.67 | hours | \$10.00 | \$6.67 | \$6.67 | |
| Water assessment | 1 | share | \$10.00 | \$10.00 | \$10.00 | |
| Repairs/maintenance | 1 | acre | \$2.30 | \$2.30 | \$2.30 | |
| Pumping | 22 | acre inch | \$0.00 | \$0.00 | \$0.00 | |
| Harvesting | | | | | | |
| Combining | 1 | acre | \$26.00 | \$26.00 | \$26.00 | |
| Haul grain (custom) | 91.0 | bushel | \$0.06 | \$5.46 | \$5.46 | |
| Baling | 0.65 | tons | \$4.79 | \$3.11 | \$3.11 | |
| Haul/stack straw | 0.65 | tons | \$3.63 | \$2.36 | \$2.36 | |
| Crop insurance (75% Yield, 100% Price) | 1 | acre | \$5.67 | \$5.67 | \$5.67 | |
| Interest on operating capital | | | 7.61% | \$3.78 | \$3.78 | |
| Subtotal | | | | \$163.92 | \$164.95 | |
| Ownership costs (excludes cost of land) | | | | \$97.96 | \$97.96 | |
| Farm insurance | 1 | acre | \$2.00 | \$2.00 | \$2.00 | |
| Machinery ownership costs | 1 | acre | \$87.71 | \$87.71 | \$87.71 | |
| Irrigation equipment | 1 | acre | \$8.25 | \$8.25 | \$8.25 | |
| Total costs | | | | \$261.88 | \$262.91 | |
| Net returns to owner for unpaid labor, management, equity and risk | | | | | | |
| Above operating costs | | | | \$58.16 | \$57.14 | |
| Above total listed costs | | | | -\$39.80 | -\$40.82 | |

Breakeven Table - Oats

Net returns per acre above operating costs

| Yield (Bu/Ac) | Selling Price (\$/Bu) | | | | |
|------------------|-----------------------|----------|---------|----------|----------|
| | \$1.13 | \$1.63 | \$2.13 | \$2.63 | \$3.13 |
| 76.00 | -\$48.94 | -\$10.94 | \$27.06 | \$65.06 | \$103.06 |
| 81.00 | -\$43.57 | -\$3.07 | \$37.43 | \$77.93 | \$118.43 |
| 86.00 | -\$38.20 | \$4.80 | \$47.80 | \$90.80 | \$133.80 |
| 91.00 | -\$32.84 | \$12.66 | \$58.16 | \$103.66 | \$149.16 |
| 96.00 | -\$27.47 | \$20.53 | \$68.53 | \$116.53 | \$164.53 |
| 101.00 | -\$22.10 | \$28.40 | \$78.90 | \$129.40 | \$179.90 |
| 106.00 | -\$16.74 | \$36.26 | \$89.26 | \$142.26 | \$195.26 |

Assumptions

1. Grain planted in late April and harvested in August.
2. Interest computed on land preparation and planting costs for 10 months and fertilization/herbicide/irrigation costs for 3 months.
3. Machinery operating costs include: fuel, oil, repairs and labor.
4. Machinery ownership costs are allocated based on equipment used for each crop.
5. Machinery ownership costs include depreciation, interest, insurance, and housing.

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