

**Costs and Returns per acre from growing corn for silage, 2006  
Weber County**

|  | Quantity<br>per acre | Unit        | Price/cost<br>per unit | Value/cost<br>per acre | Base Value | Your Value |
|--|----------------------|-------------|------------------------|------------------------|------------|------------|
| <b>Receipts</b>  |                      |             |                        |                        |            |            |
| Corn silage  | 28.0                 | tons        | \$33.00                | \$924.00               | \$924.00   |            |
| Residue  | -                    | AUM         | \$0.00                 | \$0.00                 | \$0.00     |            |
|  | <b>Subtotal</b>      |             |                        | \$924.00               | \$924.00   |            |
| <b>Operating costs</b>   |                      |             |                        |                        |            |            |
| Land preparation   |                      |             |                        |                        |            |            |
| Plowing  | 1                    | acre        | \$5.88                 | \$5.88                 | \$5.88     |            |
| Discing  | 2                    | acre        | \$3.73                 | \$7.47                 | \$7.47     |            |
| Roller harrow  | 2                    | acre        | \$3.64                 | \$7.28                 | \$7.28     |            |
| Planting   | 1                    | acre        | \$5.28                 | \$5.28                 | \$5.28     |            |
| Seed   | 0.4                  | bags        | \$110.00               | \$48.40                | \$48.40    |            |
| Cultivation  |                      |             |                        |                        |            |            |
| first  | 1                    | acre        | \$2.94                 | \$2.94                 | \$2.94     |            |
| second   | 1                    | acre        | \$2.94                 | \$2.94                 | \$2.94     |            |
| Fertilization  |                      |             |                        |                        |            |            |
| Nitrogen (34-0-0)  | 455                  | pounds      | \$0.18                 | \$81.22                | \$81.22    |            |
| Phosphate (11-52-0)  | 48                   | pounds      | \$0.18                 | \$8.57                 | \$8.57     |            |
| Potassium (0-0-60)   | 42                   | pounds      | \$0.15                 | \$6.30                 | \$6.30     |            |
| Custom application   | 1                    | acre        | \$7.82                 | \$7.82                 | \$7.82     |            |
| Pesticides/herbicides  |                      |             |                        |                        |            |            |
| Lasso  | 2.00                 | Quart       | \$6.50                 | \$13.00                | \$13.00    |            |
| Phorate  | 6.75                 | pounds      | \$2.40                 | \$16.20                | \$16.20    |            |
| 2-4-D  | 2.00                 | pint        | \$2.75                 | \$5.50                 | \$5.50     |            |
| Custom application   | 1                    | acre        | \$7.82                 | \$7.82                 | \$7.82     |            |
| Irrigation (wheel line)  | 6                    | irrigations |                        |                        |            |            |
| Labor  | 2.00                 | hours       | \$10.00                | \$20.00                | \$20.00    |            |
| Water assessment   | 1                    | share       | \$25.00                | \$25.00                | \$25.00    |            |
| Repairs/maintenance  | 1                    | acre        | \$2.30                 | \$2.30                 | \$2.30     |            |
| Pumping  | 27                   | acre inch   | \$0.00                 | \$0.00                 | \$0.00     |            |
| Harvesting   |                      |             |                        |                        |            |            |
| Chopping   | 1                    | acre        | \$6.79                 | \$6.79                 | \$6.79     |            |
| Packing and pushing  | 1                    | acre        | \$5.73                 | \$5.73                 | \$5.73     |            |
| Trucking   | 2.5                  | loads/acre  | \$16.04                | \$39.31                | \$39.31    |            |
| Crop insurance (75% Yield, 100% Price)                             | 1                    | acre        | \$10.19                | \$10.19                | \$10.19    |            |
| Interest on operating capital                                      |                      |             | 7.61%                  | \$6.63                 | \$6.63     |            |
|  | <b>Subtotal</b>      |             |                        | \$342.56               | \$342.56   |            |
| Ownership costs (excludes cost of land)                            |                      |             |                        | \$199.52               | \$199.52   |            |
| Farm insurance   | 1                    | acre        | \$2.00                 | \$2.00                 | \$2.00     |            |
| Machinery ownership costs  | 1                    | acre        | \$189.27               | \$189.27               | \$189.27   |            |
| Irrigation equipment costs   | 1                    | acre        | \$8.25                 | \$8.25                 | \$8.25     |            |
|  | <b>Total costs</b>   |             |                        | \$542.09               | \$542.09   |            |
| Net returns to owner for unpaid labor, management, equity and risk |                      |             |                        |                        |            |            |
| Above operating costs  |                      |             |                        | \$581.44               | \$581.44   |            |
| Above total listed costs   |                      |             |                        | \$381.91               | \$381.91   |            |

**Breakeven Table - Corn Silage**  
Net returns per acre above operating costs

| Yield<br>(Ton/Ac) | Selling Price (\$/ton) |          |          |          |          |
|-------------------|------------------------|----------|----------|----------|----------|
|                   | \$23.00                | \$28.00  | \$33.00  | \$38.00  | \$43.00  |
| 26.50             | \$266.94               | \$399.44 | \$531.94 | \$664.44 | \$796.94 |
| 27.00             | \$278.44               | \$413.44 | \$548.44 | \$683.44 | \$818.44 |
| 27.50             | \$289.94               | \$427.44 | \$564.94 | \$702.44 | \$839.94 |
| 28.00             | \$301.44               | \$441.44 | \$581.44 | \$721.44 | \$861.44 |
| 28.50             | \$312.94               | \$455.44 | \$597.94 | \$740.44 | \$882.94 |
| 29.00             | \$324.44               | \$469.44 | \$614.44 | \$759.44 | \$904.44 |
| 29.50             | \$335.94               | \$483.44 | \$630.94 | \$778.44 | \$925.94 |

Assumptions

1. Corn planted in late March and harvested in September.
2. Interest computed on land preparation and planting costs for 6 months and cultivation, fertilization, herbicide and 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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