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SAMPLE COSTS TO PRODUCE ALFALFA - Butte County

4 year stand, 7 ton yield \$100 per ton received
 Labor rate: \$5.50/hr. tractor operator
 \$4.50/hr. irrigators

| Operation | Cash and Labor Costs per Acre | | | | | Total |
|---|-------------------------------|-------------|--------------------------------------|-----------|----------------|----------------|
| | Hours per Acre | Labor | Fuel Kind and Quantity | Materials | Cost | |
| Cultural Costs: | | | | | | |
| Irrigate | 5 | 27.50 | 4 ac. ft. water @ \$12.50/ ac.ft. | | 50.00 | 27.50 50.00 |
| Ditch maintenance | .5 | 2.75 | | | | 2.75 |
| Insect control 2x | | | material application | | 11.20 6.70 | 11.20 6.70 |
| Winter weed control | | | material application | | 29.00 6.00 | 29.00 6.00 |
| Pickup and Truck use | | | | | | 2.83 |
| Interest on operating loan - 6 mo. @ 14% annual | | | | | | 9.52 |
| TOTAL CULTURAL COSTS | | | | | | 145.50 |
| Custom harvest | | | \$27/ ton | | | 189.00 |
| Cash Overhead | | | | | | |
| Misc., office, etc. | | | | | | 7.27 |
| Taxes, insurance, repairs | | | | | | 1.18 |
| Rent - 25% of 7 tons @ \$100/ton | | | | | | 175.00 |
| TOTAL CASH OVERHEAD COSTS | | | | | | 183.45 |
| TOTAL CASH COSTS | | | | | | 517.95 |
| TOTAL CASH COST PER TON @ 7 TON YIELD | | | | | | 73.99 |
| TOTAL CASH COST PER TON @ 6 TON YIELD * | | | | | | 77.66 |
| Investment | Per Acre | Annual Cost | | | Interest @ 12% | |
| | | | Depreciation | | | |
| Stand | 290 | | 73 | | 17 | |
| Irrigation system | 360 | | 18 | | 22 | |
| Equipment | 51 | | 5 | | 3 | |
| TOTAL | 701 | | 96 | | 42 | 137.90 |
| TOTAL COSTS PER ACRE | | | | | | 655.85 |
| COST PER TON @ 7 TON YIELD | | | | | | 93.69 |
| COST PER TON @ 6 TON YIELD | | | | | | 100.64 |

*Adjusted for reduced rent and harvest costs at lower yield

SAMPLE COSTS TO ESTABLISH ALFALFA
BUTTE COUNTY

Labor rate \$5.50/hr. tractor operator
\$4.50/hr. irrigators

| Operation | Hours per Acre | Cash and Labor Costs per Acre | | | Materials Kind and Quantity | Cost | Total |
|---|-------------------|-------------------------------|------|--|--------------------------------|----------------|-------|
| | | Labor | Fuel | | | | |
| Land preparation | | | | | | | |
| Chisel 1x | .40 | 2.20 | 9.78 | | | 11.98 | |
| Disc 2x | .26 | 1.43 | 6.10 | | | 7.53 | |
| Landplane 2x | .34 | 1.87 | 6.62 | | | 8.49 | |
| Pull checks | .05 | .28 | .86 | | | 1.14 | |
| Shape checks | .10 | .55 | 2.13 | | | 2.68 | |
| Weed control | | | | material application | 15.00 3.35 | 15.00 3.35 | |
| Disc | .13 | .72 | 3.05 | | | 3.77 | |
| Fertilize | .33 | 1.82 | 3.31 | 400 lbs. 0-25-0 SSP @ \$180/ton | 36.00 | 41.13 | |
| Disc | .13 | .72 | 3.05 | | | 3.77 | |
| Springtooth 3x | .25 | 1.38 | 5.29 | | | 6.67 | |
| Plant drill w/roller seed | .25 | 1.38 | 1.62 | drill rental 25 lbs.coated seed @ \$2.50/lb | .50 62.50 | 3.50 62.50 | |
| Irrigation | 1.56 | 7.02 | | 6" water @ \$25 per acre foot sprinkler rental | 12.50 23.00 | 19.52 23.00 | |
| Interest on operating capital @ 14% for 6 mo. | | | | | | 14.98 | |
| TOTAL CULTURAL COSTS | | | | | | 228.98 | |
| Cash Overhead | | | | | | | |
| Misc., Office, etc. | | | | | | 11.00 | |
| Taxes, insurance, repairs | | | | | | 1.18 | |
| TOTAL CASH OVERHEAD COSTS | | | | | | 12.18 | |
| TOTAL CASH COSTS | | | | | | 241.16 | |
| Investment | | | | | | | |
| | Per Acre | Annual Cost | | Interest @ 12% | | | |
| | | Depreciation | | | | | |
| Irrigation system | 360.00 | 18.00 | | 22.00 | | | |
| Equipment | 51.00 | 5.00 | | 3.00 | | | |
| TOTAL | 411.00 | 23.00 | | 25.00 | | 48.00 | |
| TOTAL CASH COSTS PER ACRE | | | | | | 289.16 | |

COST OF PRODUCING ALFALFA AT VARYING YIELDS

| | TONS PER ACRE | | | |
|-----------------|---------------|--------|--------|--------|
| | 5 | 6 | 7 | 8 |
| Cultural costs | 159.00 | 159.00 | 159.00 | 159.00 |
| Harvest cost | 135.00 | 162.00 | 189.00 | 216.00 |
| Cash overhead | 140.88 | 167.23 | 193.58 | 219.93 |
| Total cash cost | 434.88 | 488.23 | 541.58 | 594.93 |
| Investment cost | 137.00 | 137.00 | 137.00 | 137.00 |
| Total cost | 571.88 | 625.23 | 678.58 | 731.93 |

Income Above Cash Costs at Varying Yields & Prices

| \$/TON | TONS PER ACRE | | | |
|--------|---------------|--------|--------|--------|
| | 5 | 6 | 7 | 8 |
| 80.00 | -34.88 | -8.23 | 18.42 | 45.07 |
| 90.00 | 15.12 | 51.77 | 88.42 | 125.07 |
| 100.00 | 65.12 | 111.77 | 158.42 | 205.07 |
| 110.00 | 115.12 | 171.77 | 228.42 | 285.07 |
| 120.00 | 165.12 | 231.77 | 298.42 | 365.07 |

Income Above Total Costs

| \$/TON | TONS PER ACRE | | | |
|--------|---------------|---------|---------|--------|
| | 5 | 6 | 7 | 8 |
| 80.00 | -171.88 | -145.23 | -118.58 | -91.93 |
| 90.00 | -121.88 | -85.23 | -48.58 | -11.93 |
| 100.00 | -71.88 | -25.23 | 21.42 | 68.07 |
| 110.00 | -21.88 | 34.77 | 91.42 | 148.07 |
| 120.00 | 28.12 | 94.77 | 161.42 | 228.07 |