

Santa Barbara County

University of California
Cooperative Extension

ALFALFA HAY ESTABLISHMENT COST

COASTAL AREA
1983 - Cost Analysis Work Sheet

Warren E. Bendixen
Edward A. Yeary

Operating Costs/Hour

| | Fuel & Repairs | Deprec. | Interest | Total |
|--|----------------------------|---------|----------|---------|
| Equipment Operator - \$8.61* per hr. total | Heavy WD - 150 hp. \$23.08 | \$4.00 | \$2.80 | \$29.88 |
| Other Labor - 7.56* per hr. total | Medium WD - 80 hp. 11.15 | 2.10 | 1.50 | 14.75 |

| Operations | Tractor | Acres /Hour | Hours /Acre | Labor \$ | Fuel & Repairs \$ | Materials Kind and Amount | Cost/Acre | |
|-------------------------------|---------|-------------|-------------|----------------|-------------------|--|-----------------|-----------------|
| | | | | | | | Costs \$ | Sample \$ |
| Cultural Costs | | | | | | | | |
| Disc 3x | HWD | 4.00 | .75 | 6.46 | 17.31 | | | 23.77 |
| Subsoil | HWD | 1.25 | .80 | 6.89 | 18.46 | | | 25.35 |
| Fertilize | MWD | 5.00 | .20 | 1.72 | 2.23 | 100 lbs. P ₂ O ₅ @ 39¢ | 39.00 | 42.95 |
| Plant | MWD | 4.00 | .25 | 2.15 | 2.79 | Seed: 25 lbs. @ \$2.40/lbs. | 60.00 | 64.94 |
| Ringroll or Drag | MWD | 5.00 | .20 | 1.72 | 2.23 | | | 3.95 |
| Irrigate-sprinkler 3x | | 2.00 | 1.50 | 11.34 | 3.75 | water 1/2 acre ft. @ \$40.00/acre foot | 20.00 | 35.09 |
| Gopher control | | | | 2.00 | | material | 10.20 | 12.20 |
| Weed control | | | | | | materials & application | 39.00 | 39.00 |
| Miscellaneous labor | | | | 6.00 | | | | 6.00 |
| Repairs to equipment | | | | | 4.40 | | | 4.40 |
| Interest on operating capital | | | | | | | 7.90 | 7.90 |
| TOTAL CULTURAL COSTS | | | | \$38.28 | \$51.17 | | \$176.10 | \$265.55 |

Business & Misc Costs 3% of cultural costs 8.15

| Depreciation & Interest | Depreciation | | Interest 14% | |
|--|----------------|---------------|--------------|-----------------|
| | MED WD Tractor | \$ 1.37 | \$.98 | |
| Heavy WD Tractor | 6.20 | 4.34 | | |
| Other Equipment, \$110 30% | 3.30 | 2.31 | | |
| TOTAL DEPRECIATION & INTEREST | \$10.87 | \$7.63 | | \$ 18.50 |
| TOTAL COSTS TO ESTABLISH STAND | | | | \$292.20 |

*Social Security, Workman's Compensation, Insurance included

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ALFALFA HAY PRODUCTION
COASTAL AREA SPRINKLER IRRIGATED

Warren E. Bendixen
Edward A. Yeary

1983 - Cost Analysis Work Sheet

YIELD: 7 1/2 tons per acre

| | | Operating Costs/Hour | | | |
|------------------------------|---------------|----------------------|---------|----------|---------|
| | | Fuel & Repairs | Deprec. | Interest | Total |
| Equipment Operator - \$8.61* | per hr. total | | | | |
| Other Labor - 7.56* | per hr. total | | | | |
| MWD Med WD - 80 hp. | | \$11.15 | \$2.10 | \$1.50 | \$14.75 |

| Operations | Tractor | Acres /Hour | Hours /Acre | Labor | Fuel & Repairs | Cost/Acre | | | |
|--|---------|-------------|----------------------|---------|----------------|--|---------------------|----------|----------|
| | | | | | | Kind and Amount | Costs | Sample | Sample |
| Cultural Costs | | | | \$ | \$ | \$ | \$ | | |
| Irrigate 14x | | 2.00 | 7.00 | 52.92 | 12.00 | 3 1/2 acre feet @ \$40.00/acre ft. | 140.00 | 204.92 | |
| Fertilize | MWD | 5.00 | .20 | 1.72 | 2.23 | 100 lbs. P ₂ O ₅ @ 39¢ | 39.00 | 42.95 | |
| Gopher control | MWD | 5.00 | .20 | 3.72 | 2.23 | materials | 10.20 | 16.15 | |
| Insect control | | | | | | materials & application | 7.75+9.45 17.20 | 17.20 | |
| Weed control | | | | | | materials & application | 23.00+9.25 32.25 | 32.25 | |
| Repairs to equipment | | | | | 1.00 | | | 1.00 | |
| Interest on operating capital | | | | | | | 27.10 | 27.10 | |
| TOTAL CULTURAL COSTS | | | | \$58.36 | \$17.46 | | \$265.75 | \$341.57 | |
| Harvest Costs | | | | | | | | | |
| Swath 6x | | | | | | custom @ \$8.00/acre/time | | \$ 48.00 | |
| Rake 6x | | | | | | custom @ \$4.50/acre/time | | 27.00 | |
| Bale 6x | | | | | | custom @ \$12.80/ton x 7.5 tons (.80 bale) | | 96.00 | |
| Roadside 6X | | | | | | custom @ \$5.60/ton x 7.5 tons (.35 bale) | | 42.00 | |
| TOTAL HARVESTING COSTS | | | | | | | | \$213.00 | |
| Rent | | | | | | | | \$150.00 | |
| Business and miscellaneous costs | | | 8% of cultural costs | | | | | 56.37 | |
| Depreciation and Interest | | | | | | | | | |
| | | | | | | <u>Depreciation</u> | <u>Interest 14%</u> | | |
| | | | | | | Irrigation System, \$500 | \$ 33.33 | \$35.00 | |
| | | | | | | Alfalfa stand \$292 | 97.33 | 20.44 | |
| | | | | | | Equipment \$10 | 1.00 | .70 | |
| TOTAL DEPRECIATION & INTEREST | | | | | | | \$131.66 | \$56.14 | \$187.80 |
| TOTAL COST PER ACRE | | | | | | | | | \$948.74 |
| COST PER TON | | | | | | | | | \$126.50 |

*Social Security, Workman's Compensation, Insurance included