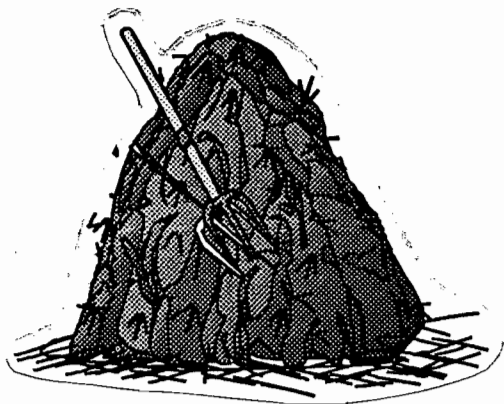
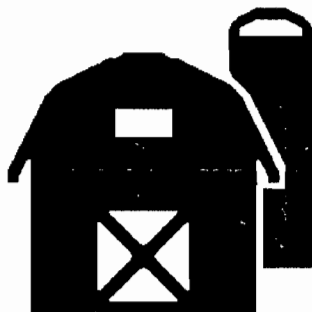


# ALFALFA HAY SANTA BARBARA COUNTY

1987

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UNIVERSITY OF CALIFORNIA  
COOPERATIVE EXTENSION

by  
Warren E. Bendixen  
Edward A. Yeary

# ALFALFA HAY PRODUCTION

University of California  
Cooperative Extension

Santa Barbara County  
1987 Cost Analysis Work Sheet

Warren E. Bendixen  
Edward A. Yeary

YIELD: 7 1/2 tons/acre

## Labor Costs\*

## Tractor Operating Costs/Hour

Wages/Hour		Fuel & Rep.	Deprec.	Interest	Total	
Equipment Operator -	\$ 8.60 per hr. total	MWT - Wheel Diesel 80 hp	\$8.00	\$2.50	\$1.38	\$11.88
Other Labor	6.55 per hr. total					

Operations	Tractor	Acres /Hour	Hours /Acre	Labor	Fuel & Repairs	Materials		Cost/Acre	
						Kind and Amount	Costs	Sample	Your Cost
<u>Cultural Costs</u>		Ac	Hr	\$	\$		\$	\$	\$
Irrigate 13x		2.00	8.00	52.40	12.00	3 1/4 acre ft. @ \$35/acre ft.	113.75	178.15	
Fertilize	MWT	5.00	.20	1.72	1.60	100 lbs P <sub>2</sub> O <sub>5</sub> @ \$.34, spreader			
						1.90 ac.	35.90	39.22	
Gopher Control	MWT	8.00	.13	1.12	1.04	Materials	6.60	8.76	
Insect Control						Materials \$15.50, Appl. \$8.75	24.25	24.25	
Weed Control						Materials \$30, Appl. \$10.95	40.95	40.95	
Repairs to Equipment							2.00	2.00	
Interest on Operating Capital - 12%							37.02	37.02	
<b>TOTAL CULTURAL COSTS</b>				55.24	14.64		260.47	330.35	

## HARVESTING COSTS - Owned Equipment; All Costs Included

Swath 6x	\$5.60/acre/time	33.60
Rake 6x	\$3.15/acre/time	18.90
Bale 6x	\$9.00/ton x 7.5 tons (.56 bale)	67.50
Roadside 6x	\$4.00/ton x 7.5 tons (.25 bale)	30.00
<b>TOTAL HARVESTING COSTS</b>		150.00

Rent  
Business and Office Costs - 4% of cultural, harvest, rent

## DEPRECIATION AND INTEREST

	Depreciation	Interest 11%	
Irrigation System \$500	\$ 33.33	\$27.50	
Alfalfa Stand \$215	71.67	11.83	
Equipment \$10	1.00	.55	
<b>TOTAL DEPRECIATION AND INTEREST</b>	\$106.00	\$39.88	145.88

**TOTAL COST PER ACRE**

799.96

**TOTAL COST PER TON @ 7 1/2 tons per acre**

106.66

\*Social Security, Workman's Compensation, Insurance Included

# ALFALFA HAY ESTABLISHMENT COST

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Edward A. Yeary

**Labor Costs\***

**Tractor Operating Costs/Hour**

	Wages/Hour		Fuel & Rep.	Deprec.	Interest	Total
Equipment Operator -	\$8.60 per hr. total		HWT - Wheel Diesel 150 hp	\$14.20	\$3.90	\$2.38
Other Labor	6.55 per hr. total		MWT - Wheel Diesel 80 hp	8.00	2.50	1.38
						\$20.48
						11.88

Operations	Tractor	Acres /Hour	Hours /Acre	Labor	Fuel & Repairs	Materials		Cost/Acre	
						Kind and Amount	Costs	Sample Your Cost	
<b>Cultural Costs</b>		Ac	Hr	\$	\$		\$	\$	\$
Disc 3x	HWT	5.00	.60	5.16	8.52				13.68
Subsoil or Rip	HWT	2.20	.45	3.87	6.40				10.27
Fertilize	MWT	5.00	.20	1.72	1.60	100 lbs P <sub>2</sub> O <sub>5</sub> @ \$.34, Spreader 1.90 ac.	35.90		39.22
Disc 1x, Incorp. Herb.	HWT	5.00	.20	1.72	2.84	Material \$17.50	17.50		22.06
Plant	MWT	3.00	.33	2.84	2.64	Seed: 25 lbs @ \$2.10/lbs	52.50		57.98
Drag	MWT	6.00	.17	1.46	1.36				2.82
Irrigate - Sprinkler 3x		2.00	1.50	9.83	3.00	Water 4 1/2" @ \$35/acre ft.	13.13		25.96
Gopher Control			.31	2.00		Material	2.60		4.60
Miscellaneous Labor			1.00	6.55					6.55
Repairs to Equipment					4.40				4.40
Interest on Operating Capital - 12%							5.80		5.80
<b>TOTAL CULTURAL COSTS</b>				35.15	30.76		127.43		193.34

Business and Office Costs - 3% of cultural costs

5.62

**DEPRECIATION AND INTEREST**

Depreciation

Interest 11%

HWT Tractor	\$4.88	\$2.98	
MWT Tractor	1.75	.97	
Other Equipment \$110 30%	3.30	1.81	
<b>TOTAL DEPRECIATION AND INTEREST</b>	<b>\$9.93</b>	<b>\$5.76</b>	<b>15.69</b>

**TOTAL COSTS TO ESTABLISH STAND**

214.65

\*Social Security, Workmen's Compensation, Insurance Included

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YIELD: 7 1/2 tons/acre

Profits Per Acre as Affected by Yield and Price

Yield Tons/Acre	Total Production Costs/Acre	Price - Dollars Per Ton							
		\$ 80.00	\$ 90.00	\$100.00	\$110.00	\$120.00	\$130.00	\$140.00	\$150.00
6.0	778.47	-298.47	-238.47	-178.47	-118.47	- 58.47	+ 1.53	+ 61.53	+121.53
6.5	785.63	-265.63	-200.63	-135.63	- 70.63	- 5.63	+ 59.37	+124.37	+189.37
7.0	792.80	-232.80	-162.80	- 92.80	- 22.80	+ 47.20	+117.20	+187.20	+257.20
7.5	799.96	-199.96	-124.96	- 49.96	+ 25.04	+100.04	+175.04	+250.04	+325.04
8.0	807.13	-167.13	- 87.13	- 7.13	+ 72.87	+152.87	+232.87	+312.87	+392.87
8.5	814.29	-134.29	- 49.29	+ 35.71	+120.71	+205.71	+290.71	+375.71	+460.71
9.0	821.46	-101.46	- 11.46	+ 78.54	+168.54	+258.54	+348.54	+438.54	+528.54
9.5	828.63	- 68.63	+ 26.37	+121.37	+216.37	+311.37	+406.37	+501.37	+596.37
10.0	835.79	- 35.79	+ 64.21	+164.21	+264.21	+364.21	+464.21	+564.21	+664.21

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