

LIMA BEANS - SPRINKLER IRRIGATED

University of California
Cooperative Extension

Santa Barbara County
1987 Cost Analysis Work Sheet

Warren E. Bendixen
Edward A. Yeary

YIELD: 2400 lbs/acre (clean basis)

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	\$20.48
Other Labor 6.55 per hr. total				MWT - Wheel Diesel 80 hp	8.00	2.50	1.38	11.88
				SWT - Small Wheel 50 hp	5.10	2.00	1.20	8.30
Operations	Tractor	Acres /Hour	Hours /Acre	Labor	Fuel & Repairs	Materials Kind and Amount	Costs	Cost/Acre Sample Your Cost
		Ac	Hr	\$	\$		\$	\$
CULTURAL COSTS								
Disc 3x	HWT	5.0	.60	5.16	8.52			13.68
Chisel	HWT	2.5	.40	3.44	5.68			9.12
Harrow 2x	HWT	6.0	.17	1.46	2.41			3.87
Fertilize - custom						60 lbs N, 60 lbs P ₂ O ₅ , Applic. \$8	43.40	43.40
Weed Control - custom						Material \$34.40, Applic. \$9	43.40	43.40
Plant	MWT	3.3	.30	2.58	2.40	Seed 110 lbs @ \$.42/lb	46.20	51.18
Post Emergence Herb.						Material \$18.75, Applic. \$10.90	29.65	29.65
Cultivate 4x	SWT	2.0	2.00	17.20	10.20			27.40
Irrigate 3x			1.50	9.83	5.00	Water 1 acre-foot @ \$35	35.00	49.83
Repairs to Equipment					12.00			12.00
Hand Hoe			5.00	32.75				32.75
Pest Cont. - custom 1x						Material \$5.27, Applic. \$13	18.27	18.27
Interest on Operating Capital - 12%							46.91	46.91
TOTAL CULTURAL COSTS				72.42	46.21		262.83	381.46
HARVESTING COSTS								
Cutting	SWT	3.3	.30	2.58	1.53			4.11
Windrow	SWT	3.3	.30	2.58	1.53			4.11
Hand Labor			1.00	6.55				6.55
Threshing - custom						\$2.75 cwt. field run;15% over clean wt.		75.90
Haul - custom						\$.50 cwt. field run;15% over clean wt.		13.80
Cleaning - custom						\$4 cwt. field run;15% over clean wt.		110.40
Storage and Bags						Storage \$.75 cwt;Bags \$.60 cwt. clean wt.		32.40
TOTAL HARVESTING COSTS			1.60	11.71	3.06			247.27
Rent								170.00
Business and Office Costs - 4% of cultural, harvest, and rent costs								30.07
DEPRECIATION AND INTEREST								
						Depreciation	Interest 11%	
						Irrigation System \$500, 1/2 cost	\$25.00	\$13.75
						Tractors	10.51	6.31
						Other Equipment \$250, 10 years	25.00	13.75
TOTAL DEPRECIATION AND INTEREST						\$60.51	\$33.81	94.32
TOTAL COST PER ACRE								923.12
TOTAL COST PER CWT - clean beans								38.46

*Social Security, Workman's Compensation, Insurance Included

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PROFIT AS AFFECTED BY YIELD AND PRICE

Yield lbs/acre Clean Basis	Total Production Costs/Acre	Price in Dollars Per Cwt.								
		\$ 30.00	\$ 32.00	\$ 34.00	\$ 36.00	\$ 38.00	\$ 40.00	\$ 42.00	\$ 44.00	\$ 46.00
1800	\$ 859.04	-319.04	-283.04	-247.04	-211.04	-175.04	-139.04	-103.04	- 67.04	- 31.04
2000	\$ 880.41	-280.41	-240.41	-200.41	-160.41	-120.41	- 80.41	- 40.41	- .41	+ 39.59
2200	\$ 901.78	-241.78	-197.78	-153.78	-109.78	- 65.78	- 21.78	+ 22.22	+ 66.22	+110.22
2400	\$ 923.12	-203.12	-155.12	-107.12	- 59.12	- 11.12	+ 36.88	+ 84.88	+132.88	+180.88
2600	\$ 944.49	-164.49	-112.49	- 60.49	- 8.49	+ 43.51	+ 95.51	+147.51	+199.51	+251.51
2800	\$ 965.86	-125.86	- 69.86	- 13.86	+ 42.14	+ 98.14	+154.14	+210.14	+266.14	+332.14
3000	\$ 987.24	- 87.24	- 27.24	+ 32.76	+ 92.76	+152.76	+212.76	+272.76	+332.76	+392.76
3200	\$1008.61	- 48.61	+ 15.39	+ 79.39	+143.39	+207.39	+271.39	+335.39	+399.39	+463.39
3400	\$1029.99	- 9.99	+ 58.01	+126.01	+194.01	+262.01	+330.01	+398.01	+466.01	+534.01
3600	\$1051.36	+ 28.64	+100.64	+172.64	+244.64	+316.64	+388.64	+460.64	+532.64	+604.64
3800	\$1072.74	+ 67.26	+143.26	+219.26	+295.26	+371.26	+447.26	+523.26	+599.26	+675.26
4000	\$1094.12	+105.88	+185.88	+265.88	+345.88	+425.88	+505.88	+585.88	+665.88	+745.88

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