

LIMA BEANS - DRYLAND

University of California
Cooperative Extension

Santa Barbara County
1987 Cost Analysis Work Sheet

Warren E. Bendixen
Edward A. Yeary

YIELD: 1000 lbs/acre (clean basis)

Labor Costs*

	Wages/Hour
Equipment Operator -	\$8.60 per hr. total
Other Labor	6.55 per hr. total

Tractor Operating Costs/Hour

	Fuel & Rep.	Deprec.	Interest	Total
HWT - Wheel Diesel 150 hp	\$14.20	\$3.90	\$2.38	\$20.48
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	Trac- tor	Acres /Hour	Hours /Acre	Labor \$	Fuel & Repairs \$	Materials		Cost/Acre	
						Kind and Amount	Costs \$	Sample	Your Cost \$
<u>Cultural Costs</u>									
Disc 2x	HWT	5.0	.40	3.44	5.68				9.12
Harrow 2x	HWT	6.0	.34	2.92	4.83				7.75
Coil Tooth Chisel	MWT	2.0	.50	4.30	4.00				8.30
Springtooth 1x	MWT	4.0	.25	2.15	2.00				4.15
Weed Control - custom						Material \$18, Applic. \$9.25	27.25		27.25
Plant	MWT	3.3	.30	2.58	2.40	Seed 80 lbs. @ \$.42/lb.	33.60		38.58
Light Harrow	MWT	10.0	.10	.86	1.00				1.86
Cultivation 3x	SWT	1.0	1.00	8.60	5.10				13.70
Repairs to Equipment					10.00				10.00
Hand Hoe			2.00	13.10					13.10
Interest on Operating Capital - 12%							18.98		18.98
TOTAL CULTURAL COSTS				37.95	35.01		79.83		152.79
<u>HARVESTING COSTS</u>									
Cutting	SWT	3.3	.30	2.58	1.53				4.11
Windrow	SWT	3.3	.30	2.58	1.53				4.11
Hand Labor			.20	1.31					1.31
Threshing - custom						\$2.75 cwt. field run;15% over clean wt.			31.63
Haul - custom						\$.50 cwt. field run;15% over clean wt.			5.75
Cleaning - custom						\$4 cwt. field run;15% over clean wt.			46.00
Storage and Bags						Storage \$.75 cwt;bags \$.60 cwt. clean wt.			13.50
TOTAL HARVESTING COSTS				6.47	3.06				106.41
Rent - 20% of 1000 lbs. @ \$.32/lb.									64.00
Business and Office Costs - 4% of cultural, harvest, and rent costs									12.17
<u>Depreciation and Interest</u>									
						<u>Depreciation</u>	<u>Interest 11%</u>		
						Tractors \$ 8.97	\$ 5.27		
						Other Equipment \$250, 10 years 50%	12.50	6.88	
TOTAL DEPRECIATION AND INTEREST						\$21.47	\$12.15		33.62
TOTAL COST PER ACRE									368.99
TOTAL COST PER CWT - clean beans									36.90

*Social Security, Workman's Compensation, Insurance Included

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PROFIT AS AFFECTED BY YIELD AND PRICE

Yield in Lbs/Acre Clean Basis	Total Production Costs/Acre	Price in Dollars Per Cwt.								
		\$ 28.00	\$ 30.00	\$ 32.00	\$ 34.00	\$ 36.00	\$ 38.00	\$ 40.00	\$ 42.00	\$ 44.00
600	\$298.05	-130.05	-118.05	-106.05	- 94.05	- 82.05	- 70.05	- 58.05	- 46.05	- 34.05
700	\$315.78	-119.78	-105.78	- 91.78	- 77.78	- 63.78	- 49.78	- 35.78	- 21.78	- 7.78
800	\$333.52	-109.52	- 93.52	- 77.52	- 61.52	- 45.52	- 29.52	- 13.52	+ 2.48	+ 18.48
900	\$351.26	- 99.26	- 81.26	- 63.26	- 45.26	- 27.26	- 9.26	+ 8.74	+ 26.74	+ 44.74
1000	\$368.99	- 88.99	- 68.99	- 48.99	- 28.99	- 8.99	+ 11.01	+ 31.01	+ 51.01	+ 71.01
1100	\$386.73	- 78.73	- 56.73	- 34.73	- 12.73	+ 9.27	+ 31.27	+ 53.27	+ 75.27	+ 97.27
1200	\$404.46	- 68.46	- 44.46	-20.46	+ 3.54	+ 27.54	+ 51.54	+ 75.54	+ 99.54	+123.54
1300	\$422.19	- 58.19	- 32.19	- 6.19	+ 19.81	+ 45.81	+ 71.81	+ 97.81	+123.81	+149.81
1400	\$439.92	- 47.92	- 19.92	+ 8.08	+ 36.08	+ 64.08	+ 92.08	+120.08	+148.08	+176.08
1500	\$457.65	- 37.65	- 7.65	+ 22.35	+ 52.35	+ 82.35	+112.35	+142.35	+172.35	+202.35
1600	\$475.39	- 27.39	+ 4.61	+ 36.61	+ 68.61	+100.61	+132.61	+164.61	+196.61	+228.61

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