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DRY LIMA BEANS
1977 Cost Analysis Work Sheet

Cooperative Extension
University of California
Santa Barbara County

LIMA BEAN YIELDS - 2400 lbs/acre
(clean beans)

Class I Equipment Operator - \$5.60*per hr. total
Class II Equipment Operator - 5.50*per hr. total
Other Labor - 4.52*per hr. total

Operating Costs

	Fuel & Repairs	Deprec.	Interest	Total
CT-Crawler Tractor 80 hp	\$7.10	\$3.08	\$2.30	\$12.48
WT-Wheel Tractor 60 hp	2.86	1.90	.95	5.71
SWT-Wheel Tractor 40 hp	2.16	1.60	.80	4.56

Operation	Trac- tor	**Acres /hour	Hours /acre	Labor \$	Fuel & Repairs \$	Materials Kind and Amount	Cost/Acre		
							Costs \$	Sample \$	Yours
<u>Cultural Costs</u>									
Disc 3x	CT	4.0	.75	4.12	6.80			10.92	
Chisel	CT	2.0	.50	2.75	4.05			6.80	
Landplane	CT	2.0	.50	2.75	4.55			7.30	
Harrow 2x	CT	10.0	.20	1.10	1.64			2.74	
Fertilize-custom						60 lb N, 60 lb P ₂ O ₅ , App. \$5.50	35.90	35.90	
Weed Control-custom						Material and application	22.75	22.75	
Plant	WT	3.3	.30	1.68	1.58	Seed: 100 lb @ 45¢	45.00	48.26	
Cultivate 4x	SWT	2.0	2.00	11.00	6.84			17.84	
Irrigate 3x			3.00	13.56	6.00	Water: 1.5 acre ft. @ \$14	21.00	40.56	
Hand hoe			5.00	22.60				22.60	
Pest Control-custom 2x						Material \$7.50; App. \$10	17.50	17.50	
Total Cultural Costs			12.25	\$59.56	\$31.46		\$142.15	\$233.17	
<u>Harvesting Costs</u>									
Cutting	SWT	3.3	.30	1.65	.95			2.60	
Windrow	SWT	3.3	.30	1.65	.83			2.48	
Hand Labor			1.00	4.52				4.52	
Threshing-custom						\$2 cwt. field run;15% over clean weight	55.20	55.20	
Haul-custom						20¢ cwt field run;15% over clean weight	5.52	5.52	
Cleaning-custom						2.50 cwt field run;15% over clean weight	69.00	69.00	
Storage and bags						Storage 35¢ cwt; bags 35¢ cwt	16.80	16.80	
Total Harvest Costs			1.60	\$ 7.82	\$ 1.78		\$146.52	\$156.12	
Rent - 12 month basis								\$200.00	
Business & miscellaneous costs 6% of cultural, harvest costs, and rent								35.36	
<u>Depreciation & Interest</u>									
						<u>Depreciation</u>	<u>Interest 8%</u>		
						Tractors	\$ 6.88		
						Other equip. \$180-10 yrs.	7.20		
Total Depreciation & Interest						\$28.73	\$14.08	\$ 42.81	
Total Cost per Acre								\$667.46	
Total Cost per Cwt (clean beans)								27.81	

*Social Security, Workman's Compensation, and all other payroll costs included.
** The number of acres per hour for each time the operation is done.

DRY LIMA BEANS - PROFITS AS AFFECTED BY YIELDS AND PRICE

YIELD Cwt/Acre	Total Production Costs/Acre	Dry Lima Beans - Price Per Cwt.							
		\$ 25.00	\$ 30.00	\$ 35.00	\$ 40.00	\$ 45.00	\$ 50.00	\$ 55.00	\$ 60.00
		\$ - Profit or Loss Per Acre							
14	\$604.01	-254.01	-184.01	-114.01	- 44.01	+ 25.99	95.99	165.99	235.99
16	616.70	-216.70	-136.70	- 56.70	+ 23.30	103.30	183.30	263.30	343.30
18	629.39	-179.39	- 89.39	+ 0.61	90.61	180.61	270.61	360.61	450.61
20	642.08	-142.08	- 42.08	+ 57.92	157.92	257.92	357.92	457.92	557.92
22	654.77	-104.77	+ 5.23	115.23	225.23	335.23	445.23	555.23	665.23
24	667.46	- 67.46	+ 52.54	172.54	292.54	412.54	532.54	652.54	772.54
26	680.15	- 30.15	+ 99.85	229.85	359.85	489.85	619.85	749.85	879.85
28	692.84	+ 7.16	147.16	287.16	427.16	567.16	707.16	847.16	987.16
30	705.53	44.47	194.47	344.47	494.47	644.47	794.47	944.47	1094.47
32	718.22	81.78	241.78	401.78	561.78	721.78	881.78	1041.78	1201.78
34	730.91	119.09	289.09	459.09	629.09	799.09	969.09	1139.09	1309.09
36	743.60	156.40	336.40	516.40	696.40	876.40	1056.40	1236.40	1416.40

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