

GARBANZO BEANS - SPRINKLER IRRIGATED

University of California Santa Barbara County
 Cooperative Extension 1987 Cost Analysis Work Sheet

Warren E. Bendixen
 Edward A. Yeary

YIELD: 1800 lbs/acre (clean basis)

PROFIT AS AFFECTED BY YIELD AND PRICE

Yield lbs/acre Clean Basis	Total Production Costs/Acre	Price in Dollars Per CWT.								
		\$ 26.00	\$ 28.00	\$ 30.00	\$ 32.00	\$ 34.00	\$ 36.00	\$ 38.00	\$ 40.00	\$ 42.00
1200	\$398.38	- 86.38	- 62.38	- 38.38	- 14.38	+ 9.62	+ 33.62	+ 57.62	+ 81.62	+105.62
1400	\$426.57	- 62.57	- 34.57	- 6.57	+ 21.43	+ 49.43	+ 77.43	+105.43	+133.43	+161.43
1600	\$454.75	- 38.75	- 6.75	+ 25.25	+ 57.25	+ 89.25	+121.35	+153.25	+185.25	+217.25
1800	\$482.94	- 14.94	+ 21.06	+ 57.06	+ 93.06	+129.06	+165.06	+201.06	+237.06	+273.06
2000	\$511.12	+ 8.88	+ 48.88	+ 88.88	+128.88	+168.88	+208.88	+248.88	+288.88	+328.88
2200	\$539.30	+ 32.70	+ 76.70	+120.70	+164.70	+208.70	+252.70	+296.70	+340.70	+384.70
2400	\$567.49	+ 56.51	+104.51	+152.51	+200.51	+248.51	+296.51	+344.51	+392.51	+400.51
2600	\$595.67	+ 80.33	+132.33	+184.33	+236.33	+288.33	+340.33	+392.33	+444.33	+496.33
2800	\$623.86	+104.14	+160.14	+216.14	+272.14	+328.14	+384.14	+440.14	+496.14	+552.14
3000	\$652.04	+127.96	+187.96	+247.96	+307.96	+367.96	+427.96	+487.96	+547.96	+607.96

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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	Cost/Acre	
							Costs \$	Sample Your Cost \$
Cultural Costs								
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
Plant (4 rows)	MWT	4.0	.25	2.15	2.00	Seed 40 lbs @ \$.38 lb	15.20	19.35
Weed Control						Material \$18, Applic. \$9.25	27.25	27.25
Light Harrow	MWT	10.0	.10	.86	1.00			1.86
Irrigate 1x			.50	3.28	1.00	Water: 2" @ \$35/ac.ft.	5.83	10.11
Cultivation 3x	SWT	1.0	1.00	8.60	5.10			13.70
Hoeing (hand)			3.00	19.65				19.65
Insect Control						Insecticide \$6.65, Applic. \$7	13.65	13.65
Foliar Spray						Copper Spray \$5.15, Applic. \$14	19.15	19.15
Repairs to Equipment					10.00			10.00
Interest on Operating Capital - 12%							25.36	25.36
TOTAL CULTURAL COSTS				47.35	35.61		106.44	189.40
HARVESTING COSTS								
Cutting	SWT	4.0	.25	2.15	1.28			3.43
Rake 2x	SWT	3.0	.60	5.16	3.06			8.22
Hand Labor			.10	.66				.66
Threshing						2.75 field run:12% over clean wt		55.44
Hauling						.50/cwt field run:12% over clean wt		10.08
Cleaning						1.60/cwt field run:12% over clean wt		32.26
Storage & Bags						Storage .75/cwt, Bags .60/cwt clean wt		24.30
TOTAL HARVESTING COSTS			.95	7.97	4.34			134.39
Rent - Value of 20% share or 360 lbs @ \$.30 lb								108.00
Business and Office Costs - 4% of cultural, harvest, rent								16.26
Depreciation and Interest								
	Tractors					Depreciation \$ 7.34	Interest 11% \$ 4.30	
	Other equipment \$300, 10 years 50%					15.00	8.25	
TOTAL DEPRECIATION AND INTEREST						\$22.34	\$12.55	34.89
TOTAL COST PER ACRE								482.94
TOTAL COST PER CWT								26.83

*Social Security, Workman's Compensation, Insurance Included