

GARBANZO BEANS - DRYLAND

University of California Santa Barbara County
 Cooperative Extension 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	Tractor	Acres /Hour	Hours /Acres	Labor	Fuel & Repairs	Materials Kind and Amount	Cost/Acre	
							Costs	Sample Your Cost
<u>Cultural Costs</u>								
Disc 2x		Ac	Hr	\$	\$		\$	\$
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						Materials \$18, Applic. \$9.25	27.25	27.25
Light Harrow	MWT	10.0	.10	.86	1.00			1.86
Cultivation 3x	SWT	1.0	1.00	8.60	5.10			13.70
Hoing (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%							18.35	18.35
TOTAL CULTURAL COSTS				44.07	34.61		93.60	172.28
<u>HARVESTING COSTS</u>								
Cutting	SWT	4.3	.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.		30.80
Hauling						.50/cwt field run:12% over clean wt.		5.60
Cleaning						1.60/cwt field run:12% over clean wt.		17.92
Storage & Bags						Storage .75/cwt, Bags .60/cwt clean wt		13.50
TOTAL HARVESTING COSTS			.95	7.97	4.34			80.13
Rent - Value of 20% share or 200 lbs. @ \$.30 lb.								60.00
Business and Office Costs - 4% of cultural, harvest, rent								11.76
<u>Depreciation and Interest</u>								
					<u>Depreciation</u>	<u>Interest 11%</u>		
					Tractors	\$ 7.34	\$ 4.30	
					Other equipment \$250, 10 years 50%	12.50	6.88	
TOTAL DEPRECIATION AND INTEREST					\$19.84	\$11.18		31.02
TOTAL COST PER ACRE								355.19
TOTAL COST PER CWT								35.52

*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.								
		\$ 26.00	\$ 28.00	\$ 30.00	\$ 32.00	\$ 34.00	\$ 36.00	\$ 38.00	\$ 40.00	\$ 42.00
500	\$284.78	-154.78	-144.78	-134.78	-124.78	-114.78	-104.78	- 94.78	- 84.78	- 74.78
600	\$298.86	-142.86	-130.86	-118.86	-106.86	- 94.86	- 82.86	- 70.86	- 58.86	- 46.86
700	\$312.94	-130.94	-116.94	-102.94	- 88.94	- 74.94	- 60.94	- 46.94	- 32.94	- 18.94
800	\$327.01	-119.01	-103.01	- 87.01	- 71.01	- 55.01	- 39.01	- 23.01	- 7.01	+ 8.99
900	\$341.10	-107.10	- 89.10	- 71.10	- 53.10	- 35.10	- 17.10	+ .90	+ 18.90	+ 36.90
1000	\$355.19	- 95.19	- 75.19	- 55.19	- 35.19	- 15.19	+ 4.81	+ 24.81	+ 44.81	+ 64.81
1100	\$369.28	- 83.28	- 61.28	- 39.28	- 17.28	+ 4.72	+ 26.72	+ 48.22	+ 70.22	+ 92.22
1200	\$383.36	- 71.36	- 47.36	- 23.36	+ .64	+ 24.64	+ 48.64	+ 72.64	+ 96.64	+120.64
1300	\$397.44	- 59.44	- 33.44	- 7.44	+ 18.56	+ 44.56	+ 70.56	+ 96.56	+122.56	+148.56
1400	\$411.52	- 47.52	- 19.52	+ 8.48	+ 36.48	+ 64.48	+ 92.48	+120.48	+148.48	+176.48
1500	\$425.60	- 35.60	- 5.60	+ 24.40	+ 54.50	+ 84.40	+114.40	+144.40	+174.40	+204.40

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