NET IN 0 20 CWT(CLEAN)/A AND VARYING PRICES

				1		
1	Pricekcwt	\$21.00	\$23.00	\$25.00	\$27.00	\$29.00
	Income/A		-\$41.34	i	\$14.66	\$42.66
	THEOME/A	- \$03.34	- 541.34	-413.34	\$14.00	\$42.00

NET INCOME @ \$25.00/CWT AND VARYING YIELD IN CWT/A

cwt/A 16 18 Income/A -\$68.27 -\$37.39 -\$		24 0.51
---	--	------------

RELATIONSHIP BETWEEN YIELD CWT/A, TOTAL COSTS, AND COSTS/CWT AT \$25.00/CWT SELLING PRICE

cwt/A	16	18	20	22	24
cwt/A Total Costs Cost cwt	\$468.27	\$487.39	\$513.34	\$529.25	\$549.49
LOST CML	\$29.27	\$27.08	\$25.67	\$24.06	\$22.90

MANAGEMENT INCOME FROM VARYING YIELDS @ \$25.00/CWT SELLING PRICE (rounded off)

Yield cwt/A	16	18 2	0 22	24
Cash Costs, Dep., Ints	\$448	\$465 \$4	88 \$502	\$520
Gross Income	\$400	\$450 \$5	00 \$550	\$600
Mgt. Income/A	-\$ 48	-\$ 15 +\$	12 · +\$ 48	+\$ 80

tonsuit your farm advisor if you have questions regarding this production cost study or dry bean production.

Farm Advisors Office Butte County

March 1977 Revised October 1979

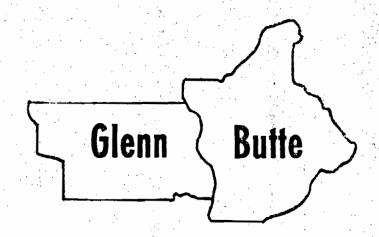
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Cooperative Extension Work in Agriculture and Home Economics, College of Agriculture, University of California and United States Department of Agriculture, cooperating

SAMPLE COST of PRODUCTION DRY BEANS

Oct 1979

Tenant-Landowner Basis



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Davis, California

BASIS OF DRY BEAN COST STUDY

- 1. This study is based on a 1,100 acre field crop operation with 250 acres of dry beans. Other crops grown on the ranch may include one or more of the following: grain, alfalfa hay, grain sorghum, sugar beets, corn, safflower, etc.

 Much of the equipment is used on the entire acreage sometime during the year.
 - For reasons of simplicity, we used a landlord-tenant operation with a 75-25 division of the crop. In this study the tenant delivers the crop to the warehouse, but the landlord pays his own warehouse costs.
- 2. In allocating the equipment cost per acre the following calculations were made: (a) "Original Cost" of equipment is the estimated new cost and includes 6% sales tax. (b) "Cost Per Acre" is the new cost divided by the number of acres the equipment will be used on. (c) "Depreciation" is based on the "Per Acre Cost" divided by the expected life of the equipment. (d) "Interest" on investment is figured on one-half of the new cost per acre multiplied by 9%.
- 3. Miscellaneous expenses are estimated to be about 6% of the total cultural and harvest costs. They include such costs as preparing roadways, general weed control, office, bookkeeping, interest on operating money, etc.
- 4. Labor costs are based on a \$6.00 hourly rate for skilled labor and \$3.75 hourly rate for unskilled (irrigator). Included are cash wages, compensation insurance, social security and other benefits that the employer might pay.
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- Management (what the grower's decision making is worth) is figured at 5% of the market value of the crop.
- 7. Production operations will vary from year to year and some costs will not be the same for all growers. Insecticide, herbicide and fertilizer rates and costs will also be different some years and with some growers.
- 8. These sample costs may not represent the cost of any one individual grower but should serve as a useful guide in reviewing the typical costs in dry bean production. Growers are encouraged to make use of the column "Grower Costs Per Acre" to permit a comparison of the costs in this study with their own.
- 9. Growers from Butte and Glenn Counties participated in furnishing information for compiling the basic information in this study. Some information was obtained from agricultural supply houses. Appreciation is expressed to them for their time and help.

EQUIPMENT AND BUILDING LIST

1tem	Cost	(Acres)	Acre	(Years)	clation	at 9%
Tractor, 130-150 HP Tr. Diesel	\$ 77,500	1100	\$ 70.45	20	\$ 3.52	\$ 3.17
Tractor, 120 HP Wh Diesel	33,000	1100	30.00	15	2.00	1.35
Tractor, 100 HP Wh Diesel	27,000	1100	24.55	15	1.63	1.10
Plow 4-18 hydraulic 2-way	8,000	880	9.09	15	.61	.41
*(Sp. tooth or field cult., 32')	6,000	(1100)	5.45	(15)	.36	.25
*(Chisel, heavy duty, 16')	6,200	(880)	7.05	(15)	.47	.32
*(Disc, stubble, 12')	9,300	(880)	10.57	(15)	.70	.48
Disc, offset, 21'	13,000	1100	11.82	15	.79	.53
Triplane, 16'	9,300	880	10.57	15	.70	.48
Disc, tandem, 21'	9,300	1100	8.45] 10	.85	.38
Bedding tools, 6-row	3,700	880	4.20	15	.28	.19
Ditcher, 5'	3,000	1100	2.73	20 -	.14	.12
Ditch plow, 3 bottom, used	1,200	1100	1.09	10	.11	.05
Rolling cultivator, 6-row	5,500	1100	5.00	10	.50	.90
if iter, 6-row	4,000	880	4.55	10	.46	.20
letanks (2 sets)	3,000	880	3.41	.10	.34	.29
Cultivator sled and equipment	5,500	880	6.25	10	.63	.28
Cutter, 6-row	5,000	250	20.00	20	1.00	.90
Windrower, 6-row	5,000	250	20.00	10	2.00	.90
Tool carrier, used	5,000	1100	4.55	20	.23	.20

1100 -

1100

1100

880

1100

1100

880

6.73

8.45

6.73

1.59

11.18

27.27

\$ 324.57

2.84

10

7

15

30

20

7,400

9,300

7,400

1,400

12,300

30,000 2,500

\$ 322,300

*Listed on inventory and may be used by some operators but not included in totals.

Truck, used, 2 ton

Siphons, 400-2".

Shop tools

Buildings

TOTAL

Pickups, two (2), used

Tank, nurse, w/pump, 1500 gal.

Pickup

Cost Per Life

Depre-

.67

1.69

2.24

.23

.75

.91

.14

\$ 23.95

. 30

.38

.30

.07

.50

.13

1.23

\$ 15.89

Interest

Original Use

Annual

SAMPLE COSTS TO PRODUCE COMMON DRY BEANS Butte and Glenn Counties, October 1979

		Butte a	na Gienn Co	unties, October 1979		1
	Hours			and Labor Cost Per Acre		1
Cultural Operation	Per Acre	Labor	Fuel & Repairs	Materials Kind and Quantity Cost	Total	Grower'
curtural operation	ACTE	Labor	Repairs	Kind and Quantity Cost	Total	Cost/A
Cultural Costs					100 46 70	
low (or chisel) lx	.33	\$ 1.98	\$ 5.71		\$ 7.69	
Disc lx	.14	.84	2.26		3.10	
riplane 2x	.28	1.68	4.00		5.58	
Landplane 3x (4th yr.) Fertilize	.19 .14	1.14	2.89 1.82	100# N/A 0 16 16 00	4.03	
er critize	. 14	. 04	1.02	100# N/A @ .16 16.00 Rent applicator 1.65	20.31	
Incorporate Herbicide Disc 2x	.32	1.92	2.23	Herbicide @ 6.30 6.30	10.45	- 11
_ist Beds	.13	.78	.87		1.65	
Ditch prep. 3x	.24	1.44	4.59		6.03	1.11
Irrigate (pre + 6x)	9.80	36.75		3 1/2 ac.ft./A @ 5.65 19.78	56.53	
		1	1 00			
Incorporate layby herb rolling cultivator 2x	.33	1.98	1.98	Herbicide @ 8.00 8.00	11.96	
Plant & starter fert.	.50	3.00	4.44	Seed 70# @ .34/lb. 23.80 Starter 8-24-0 16.00	47.24	
Pest control, air 2x		:		Insecticide Miticide 31.00	47.24	
csc concrot, arr zx				Airplane @ 3.50/A 7.00	38.00	
Misc., downtime, etc.	1.50	9.00	1.25	7.00	10.25	
		463.05				<u> </u>
TOTAL CULTURAL COSTS		\$61.35	\$32.04	\$129.53	\$222.92	<u> </u>
Harvest Costs						
Cut beans	.20	\$ 1.20	\$.35		\$ 1.55	
Windrow	.20	1.20	1.45		2.65	
Hand turn row ends	.10	. 38			.38	
Thresh, custom			2.5	1.00/cwt + \$10.00/A \$32.22	32.22	
Hauling, custom		!	· ·	.20/cwt 4.44	4.44	
Warehousing						ļ
Tenant's share - 75% Cleaning	<u>.</u>			16.7 cwt @ 1.20 20.04	20.04	
Sacks (clean beans)				15.0 cwt @ .40 6.00	6.00	
Storage				15.0 cwt @ .35 5.25	5.25	:
TOTAL HARVEST COSTS		\$ 2.78	\$ 1.80	\$67.95		
	<u> </u>	,,,			7,200	
Cash overhead	·					
Misc., office, etc.				harvest costs	17.73	
Taxes Rent	•		of investme	nt/acre crop, delivered,	8.27	
Kenc			00 cwt @ \$2		125.00	. ***
TOTAL CASH OVERHEAD		ΨΟ.	00 000 0 42		\$151.00	
		• •				
TOTAL CASH COST	· · · · · · · · · · · · · · · · · · ·	<u> </u>	· .		\$446.45	·
Management 5% of 20 cwt	@ \$25.0	0	<u> </u>		\$ 25.00	
				Annual Cost		
INVESTMENT		Per A	kcre [Depreciation Interest @ 9%	,	
Irrigation syste	m .	\$ 1.5		\$.22 \$.07		, ,
Buildings		27.9		.93 1.26		1.00
Equipment	•	301.5		25.84 13.57		
TOTAL		\$330.9	5	\$26.99 \$14.90	\$ 41.89	2
TOTAL COST PER ACRE					\$513.34	
Cost per cwt @ 20 cwt yi	eld (cl	eaned)			\$ 25.67	

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