

SAMPLE COSTS
TO PRODUCE
DRY BEANS

BUTTE & GLENN COUNTIES

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Yield: 18 Cwt/A Clean Beans (20 Cwt/A Uncleaned)
 Labor: Skilled \$3.60/hr; Unskilled \$2.90/hr
 including fringe benefits
 (revised March 1974)

SAMPLE COSTS TO PRODUCE COMMON DRY BEANS

Butte and Glenn Counties, March 1974

Operation	Hours Per Acre	Cash and Labor Cost Per Acre				Grower's Production Costs
		Labor	Fuel and Repairs	Materials		
				Kind and Quantity	Cost	
<u>Cultural Costs</u>						
Disc 4X (offset)	1.00	\$ 3.60	\$ 5.79		\$	\$ 9.39
and Plane 2X						
(every 4th year)	.20	.72	.95	Rent @ \$1.00/A	.50	2.17
Disel	.25	.90	1.42			2.32
Fertilize (aqua NH ₃)	.30	1.08	1.43	Rent rig, .75/A 80 lbs N/A, 10.20	10.95	13.46
Row, spike tooth	.13	.47	.71			1.18
Corporate Herbicide						
Disc 2X	.60	2.16	2.85	Rent tag-a-long, .50/A herbicide, 7.20	7.70	12.71
Plant	.25	.90	.67			1.57
Plant Beds (4 row)	.30	1.08	.75			1.83
Plant 3X (season)	.11	.72	.61			1.33
Pump (pre + 6X)	7.25	21.02		Pumping Charge	6.52	27.54
Row Out and Grade						
Ditch 3X (season)	.06	.39	.32			.71
Plant Beds (4 row)	.40	1.44	.87			2.31
Plant (4 row)	.50	1.80	1.69	Seed 70 lbs @ \$50.00/Cwt	35.00	38.49
Plant Beds	.25	.90	.62			1.52
Plant	.40	1.44	1.57			3.01
Plant (airplane						
Plant 2 1/2X)				Insecticide and Miticide	17.10	17.10
Plant Weeding	.50	1.45				1.45
TOTAL CULTURAL COSTS		\$40.07	\$20.25		\$77.77	\$138.09

Operation	Hours Per Acre	Cash and Labor Cost Per Acre				Grower's Production Costs	
		Labor	Fuel and Repairs	Materials			Total
				Kind and Quantity	Cost		
<u>Harvest Costs</u>							
Cut and Windrow		\$	\$	Custom	\$ 9.00	\$ 9.00	
Hand Turn Row Ends	.10	.29				.29	
Thresh				Custom @ .75/Cwt + 7.50/A	22.50	22.50	
Tractor (pull thresher)	.30		1.42			1.42	
Hauling (6000 lbs/trip)	.30	.87		20-mile round trip @ .12/mile	.80	1.67	
Warehousing (tenants share - 75%)							
Cleaning				15 Cwt @ .60/Cwt	9.00	9.00	
Sacks (clean beans)				13.5 Cwt @ .40/each	5.40	5.40	
Storage (clean beans)				13.5 Cwt @ 7.00/ton	4.73	4.73	
TOTAL HARVEST COSTS		\$1.16	\$1.42		\$51.43	\$ 54.01	
<u>Cash Overhead</u>							
Misc., office, etc.				6% of Cultural and Harvest Costs		\$ 11.53	
Taxes on Equipment						2.73	
Rent				25% of Uncleaned Crop Delivered (landlord pays own cleaning--4.5 Cwt net)		83.62	
TOTAL CASH OVERHEAD						\$ 97.88	
TOTAL CASH COST						\$289.98	
Management 5% of 18 Cwt @ 20.00/Cwt						\$ 18.00	
<u>INVESTMENT</u>							
	Per Acre			Annual Cost			
Land	_____			Depreciation	Interest		
Irrigation System	_____			_____	_____		
Buildings	_____			_____	_____		
Equipment	140.22			11.28	5.62		
Total	140.22			11.28	5.62	\$ 16.90	
TOTAL COST PER ACRE						\$324.88	
Cost Per Cwt @ 18 Cwt (cleaned) Yield						\$ 18.05	

Return Per Acre @ 18 Cwt/A Yield Clean Beans/A at Various Prices

were made: (a) "Cost" of equipment is the estimated cost for new equipment. Except where otherwise designated, all equipment listed is based on the new cost. (b) "Cost per acre" is the new or used cost divided by the number of acres on which the equipment will be used. (c) "Depreciation" is based upon the "per acre cost" divided by the expected life of the equipment. (d) "Interest" on investment is figured on one-half the new cost per acre multiplied by 8%.

4. Miscellaneous expenses have been found to be approximately 6% of the total cultural and harvest costs. Included are such costs as preparing roadways, general weed control, office, bookkeeping, interest on operating money (for six months or less), etc.
5. Operating costs (Fuel & Repair) includes cost of fuel, maintenance, replacement parts, tires, grease, etc. This information was obtained from Machinery Costs and Performance, 1972 (Adjusted) by A. D. Reed, University of California Extension Economist, stationed at Davis.
6. Included in these sample costs is a management fee of 5%. This rewards the grower for his management decisions.

General Considerations

It should be understood that these sample costs are a "composite" and do not represent any single operation. A column is provided for the grower to compare his costs against those shown. Larger or smaller acreages and different sized equipment will cause rates for different operations to be different than those shown in this study.

Growers may be able to reduce their costs of production some years by reducing the number of operations for land preparation. However, in a wet spring or following certain crops, the number of operations in land preparation may be greater than those shown.

On some soils, growers are applying phosphorus to their fields. This would be an additional cost. Other growers have applied zinc to correct deficiencies (cost varies with source and whether applied as foliar or preplant). Some growers apply 100-120 pounds of nitrogen per acre--not 80 pounds of nitrogen per acre as shown in this study.

Insecticide and miticide costs will vary from year to year depending upon the problem encountered and the materials used.

Information for this study was provided by bean growers and agri-business representatives. Appreciation is expressed for their time and help.

EQUIPMENT LIST

Item	Total Cost	Annual Use (acres)	Cost Per Acre	Life (years)
Tractor, Crawler, Diesel 80 hp	\$36,000	640	\$ 56.25	15
Tractor, Wheel, Diesel, 70 hp	9,450	640	14.77	10
Disc, 12 ft - offset	4,725	640	7.38	10
Chisel, 12 ft	1,890	640	2.95	10
Float, 12 X 24	600	300	2.00	10
Rolling Cultivator, 4 row	2,600	300	8.67	15
Ditcher, 4 ft	1,300	300	4.33	10
Planter, 4 row Ventura	1,850	300	6.17	10
Ring Roller, 20 ft	2,200	300	7.33	20
Truck, 1 1/2 ton (used)	4,500	640	7.03	10
Disc, 12 ft, tandem	2,000	640	3.12	10
Harrow, spike tooth, 32 ft	1,200	640	1.88	20
Fuel Storage	750	640	1.17	15
Plow, 5-14"	1,500	300	5.00	10
Grader (used)	700	300	2.33	15
Pickup	4,000	640	6.25	10
Siphon Tubes 100, 2"	115	300	} .04	10
200, 1 1/2"	306	300		.10
Bedding Bar and Furrowing Shovels, 4 row	2,100	300	3.45	10
TOTAL	\$77,786		\$140.22	

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