

SAMPLE COSTS TO PRODUCE BLACK EYE BEANS (SINGLE CROP) IN TULARE COUNTY

Cost Analysis Worksheet

Based on yield of 2391 lb./A dirt weight with 8% cleanout, or 2,200 lbs./A clean weight; field labor at \$4.50/hr. and equipment operator at \$5.00/hr., including benefits; 80 hp diesel tractor per hour cash costs of \$10.69, depreciation \$2.58 and interest \$1.94; 130 hp diesel tractor per hour cash costs of \$15.79, depreciation \$4.75, and interest \$3.56. Carol Frate, Tulare County Farm Advisor and Kent Olson, Economist, Cooperative Extension, U.C., Davis

| | SAMPLE COSTS | | MY COSTS | |
|---|--------------|-----------------|----------|-----|
| | PER | PER | PER | PER |
| | ACRE | CWT | ACRE | CWT |
| <u>Pre-harvest Cash Cost</u> | | | | |
| Land Preparation: 3 hrs. | | 52.17 | | |
| 2 hr. wheel tractor | | | | |
| 1 hr. crawler | | | | |
| Irrigate: 1 pre and 5 crop (3 acre ft. @ \$20/A ft.) | | 60.00 | | |
| 6 hrs. labor | | 27.00 | | |
| Herbicide: material | | 6.23 | | |
| application | | 5.50 | | |
| Plant: 25 lbs. @ 35¢/lb. | | 8.75 | | |
| 1/3 hr. + tractor | | 5.18 | | |
| Cultivate: 2 X's - 1 hr. total labor + tractor | | 15.69 | | |
| Insecticide: material | | 12.00 | | |
| air application | | 5.00 | | |
| Miscellaneous: lbaor, material, 1 hr. man + tractor | | 20.00 | | |
| Repairs | | 20.00 | | |
| Office and business costs | | 20.00 | | |
| County taxes | | 10.00 | | |
| Land costs | | 125.00 | | |
| Interest on Operating Costs (total preharvest cash costs) ÷ X 13% | | 25.51 | | |
| TOTAL PRE-HARVEST CASH COSTS | | 418.03 | | |
| <u>Harvesting Costs</u> | | | | |
| Cut and windrow - custom | | 24.00 | | |
| Custom combine \$16/A + \$1/cwt. - dirt weight | | 39.91 | | |
| Haul @ \$4.25/ton | | 5.08 | | |
| Warehouse costs (cleaning, fumigation, insurance, bags, etc.) \$3.50/cwt. | | 77.00 | | |
| TOTAL HARVESTING COSTS | | \$145.99 | | |
| TOTAL CASH COSTS | | \$564.02 | | |
| <u>Depreciation</u> | | | | |
| Irrigation system: \$350 - 16 yr. life | | 21.88 | | |
| Tractor - 80 hp diesel wheel - 4.3 hr. | | 11.09 | | |
| 130 hp diesel wheel - 1 hr. | | 4.75 | | |
| Other equipment: \$100 - 10 yr. life | | 10.00 | | |
| TOTAL DEPRECIATION | | \$47.72 | | |

(Over)

| SAMPLE COSTS | | MY COSTS | |
|--------------|---------|----------|---------|
| PER ACRE | PER CWT | PER ACRE | PER CWT |

Investment (13% Interest)

| | |
|--|-----------------|
| Irrigation system - (1/2 cost) | 22.75 |
| Tractor - 80 hp diesel wheel - 4.3 hr. | 8.34 |
| 130 hp diesel wheel - 1 hr. | 3.57 |
| Other equipment - (1/2 cost) - \$50 | 6.50 |
| TOTAL INVESTMENT COSTS | \$41.15 |
| TOTAL COST OF PRODUCTION | \$652.89 |

COST PER CWT. AT VARYING YIELDS AND WATER COSTS

Water @ \$20/A Ft.

| Yield cwt./Acre | 20 | 24 | 28 | 32 |
|-----------------|---------|---------|---------|---------|
| Cash Cost/Cwt. | \$27.72 | \$23.90 | \$21.17 | \$19.07 |
| Total Cost/Cwt. | 32.16 | 27.61 | 24.35 | 21.84 |

Water @ \$50/A Ft.

| | | | | |
|-----------------|---------|---------|---------|--------|
| Cash Cost/Cwt. | \$32.51 | \$27.90 | \$24.60 | @22.06 |
| Total Cost/Cwt. | 36.95 | 31.60 | 27.77 | 24.84 |

This cost analysis worksheet should be used only as a guide to assist producers in determining their production costs and as an aid in helping analyze costs and procedures. The figures shown are based on what are considered good management practices and do not represent industry averages.

There is a great deal of variation in production costs between areas within a county. For example, tractor size, tillage operations, number of trips and materials may be different for neighboring farmers.

The land cost is a value related to rental costs rather than the interest on the market value. For the person renting land, the rental price should be substituted for land cost; also, interest and depreciation on the irrigation system and county taxes should be eliminated.