

Agricultural Briefs

SACRAMENTO COUNTY

4145 Branch Center Road, Sacramento, California 95827
Telephone (916) 366 20131980 SAMPLE COST TO PRODUCE SAFFLOWER

AREAS OF ADAPTATION: Delta, Natomas - high water table soils; not adapted to hardpan soils.

PLANTING DATES: February 15 - April 15.

HARVEST DATES: August 1 - September 15, when moisture content of seed is about 8%.

SOIL REQUIREMENTS: Clays, clay loam, muck, non-hardpan soils.

VARIETIES: US-10, Gila.

SEEDING RATES: 35-50 lbs/acre, row planted, 7-20" rows. Increase seeding 10 lbs/ac for drilled plantings on sub-irrigated land.

FERTILIZER REQUIREMENTS: 120 lbs/ac nitrogen depending on previous crops and soil moisture conditions. Starter fertilizer 30 gal/ac 4-10-10 under the seed at planting or 200 lbs/ac 6-20-20.

IRRIGATION: Usually none. Not recommended, plant to moist.

ROTATION: Not recommended to plant prior to growing tomatoes, dodder problem seems worse after safflower. Dries out soil and takes land out of level.

NORMAL YIELD: 2000-3000 lbs/acre.

SPECIAL INSECT PROBLEMS: Cutworms, aphids, lygus, thrips. Early planting preferred to decrease possibility of damage from latter two.

DISEASE PROBLEMS: Usually not serious. Rust, phytophthora root rot, botrytis blight, fusarium, and verticillium wilt. Rust not a problem except when crop is grown two years consecutively in the same field. Phytophthora may occur when safflower is grown under irrigated conditions.

WEED CONTROL: Harrowing when 3-6 inches tall. Cultivation of row planted safflower. Eptam and Trifluralin pre-plant, soil-incorporated.

References: "Safflower", U.C. Circular 532.

Prepared by: Jack P. Orr, Field & Vegetable Crops Farm Advisor

1980 SAMPLE COST TO PRODUCE SAFFLOWER

Operation	Hours/ Acre	Labor/ Acre	Elec & Fuel/ Acre	Repairs/ Acre	Materials Kinds & Quantity/Acre	TOTAL Cost/Acre
<u>CULTURAL</u>						
Chop corn stubble	0.20	0.80	2.00	0.23		\$ 3.03
Disc 1X	0.13	0.52	1.70	0.34		2.56
Plow	0.34	1.36	2.80	1.63		5.79
Disc 2X	0.26	1.04	3.40	0.68		5.12
Level finish 2X	0.52	2.08	3.19	0.73		6.00
Chisel 2X	0.80	3.20	12.50	0.64		16.34
Nitrogen application	0.25	1.00	1.88	0.43	150 lbs/ac N @ 25¢/lb + tag-a-long \$2.00 - \$39.50	42.81
Herbicide application (Disc 2X)	0.26	1.04	3.40	0.68	Treflan 1-1/2 pts - \$6.18	11.30
Harrow + ringroll 2X	0.34	1.36	1.12	0.51		2.99
Drag + ringroll 1X	0.20	0.80	2.00	0.23		3.03
Planting operation (2 men)	0.33	2.64	2.00	1.10		5.74
Thin stand + weed control (harrow 2X)	0.34	1.36	1.12	0.51		2.99
TOTAL CULTURAL COST						\$107.07

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Operation	Hours/ Acre	Labor/ Acre	Elec & Fuel/ Acre	Repairs/ Acre	Materials Kinds & Quantity/Acre	TOTAL Cost/Acre
<u>HARVEST</u>						
Harvest (own harvester)	0.3	1.80	3.50	25 ac/day		\$ 9.05
<u>CASH OVERHEAD</u>						
Rent 33-1/3%	1 ton/ac @ \$275/ton					91.66
Taxes on equipment	421 x 0.93 = \$391.52 x 25% = \$97.88 x 0.13 = \$12.72					12.72
Misc. office, pick-up, secretary						15.00
Workman's Comp. 7-1/2%						1.42
Social Security 0.0613						1.16
Fringe Benefits (10%) vacation, health ins., life ins., unemployment ins.						1.90
TOTAL CASH OVERHEAD						\$123.86
TOTAL CASH COST/ACRE						\$239.98
TOTAL COST/TON						\$239.98
Management 5% of gross						\$ 13.75
<u>INVESTMENT</u> - 1976 Cost						
	Per Acre		Depreciation		Interest 12% of 50% Balance	
Building (30 yr. life)	\$ 46.00		\$ 1.20		\$ 2.18	
Equipment (10 yr. life)	421.30		42.13		25.27	
	\$467.30		\$43.33		\$27.45	\$ 70.78

Labor: \$4.00/hr
Harvester Operator: \$6.00/hr

Diesel: \$1.25/gal
Repairs: 1978 Farm Machinery Cost, A.D. Reed, L.A. Horel

UC Cooperative Extension