

Agricultural Briefs

SACRAMENTO COUNTY

1977 - SAMPLE COSTS TO PRODUCE SAFFLOWER
AND CULTURAL PRACTICES

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. If irrigation is planned, plant on beds. Do not allow plants to stress. Avoid prolonged irrigation, especially in warm weather. Provide adequate drainage.

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.

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COOPERATIVE EXTENSION WORK IN AGRICULTURE AND HOME ECONOMICS, Division of Agricultural Sciences,
University of California, U.S. Department of Agriculture and County of Sacramento cooperating

1977 - SAMPLE COSTS TO PRODUCE SAFFLOWER

OPERATION	HOURS/ ACRES	LABOR	FUEL & REPAIRS	MATERIALS	TOTAL COST/ACRE
				KIND AND QUANTITY	
<u>CULTURAL</u>					
-FALL-					
Disc 2x	0.5	1.75	2.44		4.19
Plow (5 bottom)	0.4	1.40	1.89		3.29
Disk 2x	0.5	1.75	2.44		4.19
Landplane 2x	0.66	2.32	3.48		5.80
Subsoil 2x	1.32	4.62	6.00		10.62
Nitrogen applic. and Disk	0.25	0.87	1.44	150 lbs. N/ac @ 25¢/lb + tag a long 1.50. Eptam 3 lbs/ac \$11.01 or Treflan 1 lb/ac \$8	41.31
Herbicide app. (Disk 2x)	0.5	1.75	2.44		15.21
Harrow & ringroll 2x	0.2	0.70	2.44		3.14
Drag & ringroll 1x	0.1	0.35	1.22		1.57
Planting operation (2 men)	0.33	2.31	2.60	Seed 32¢/lb, 25 lb/ac = \$8	10.95
Thin stand & Weed control (harrow 2x)	0.2	0.70	2.44		3.14
TOTAL CULTURAL COSTS					\$ 104.92
<u>HARVEST</u>					
Harvest (own harvester)	0.3	1.50	3.33		4.83
TOTAL HARVEST COSTS					\$ 4.83
<u>CASH OVERHEAD</u>					
Rent 33-1/3%	1-1/2 tons/ac @ \$250/ton = \$375				124.87
Taxes on equipment	\$421 x 0.93 = \$391.53 x 25% = \$97.88 x 0.13 = \$12.72				12.72
Misc. office					1.00
Workman's Comp. & Soc. Sec.					1.75
TOTAL CASH OVERHEAD					\$140.34
TOTAL CASH COST					\$250.09
Management 5% of gross					\$18.05
<u>INVESTMENT</u>					
Buildings (30 year life)	Per acre	Depreciation	Interest (Ann. cost)		
	\$46.00	\$ 1.20	\$ 1.44		
Equipment (10 year life)	421.30	42.13	10.45		
1976 costs		\$ 43.33	\$ 11.89	\$55.22	
TOTAL COST PER ACRE					\$323.36
TOTAL COST PER TON					\$323.36
	1.0 tons/ac				215.57
	1.5 tons/ac				161.68
	2.0 tons/ac				