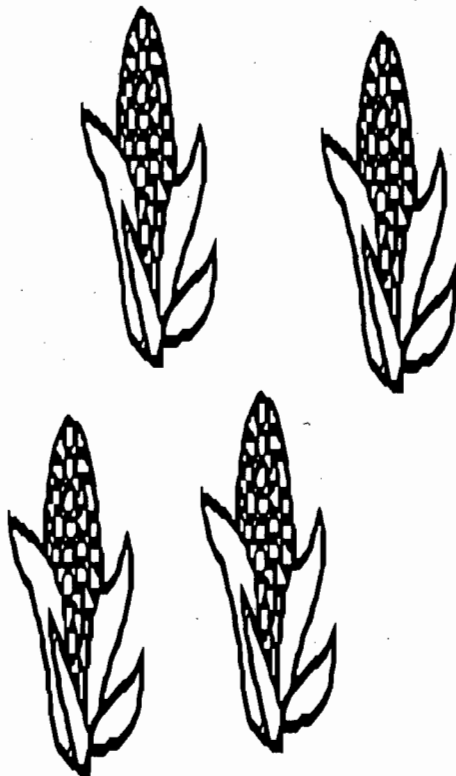


CORN
SAMPLE COSTS TO PRODUCE CORN
ON MINERAL AND PEAT SOILS
1989

SACRAMENTO COUNTY



UNIVERSITY OF CALIFORNIA
COOPERTIVE EXTENSION

1989 SAMPLE COSTS TO PRODUCE CORN ON MINERAL AND PEAT SOILS

SOIL REQUIREMENTS - Fertile, well-drained soils of organic or mineral type.

PLANTING DATES - March 20 to May 20. Early plantings are dependent upon soil temperatures. Longer season varieties should be planted first.

HARVEST DATES - September 15 to November 15. Target harvest moisture at 15.5%.

VARIETIES - Superior performance of single cross hybrids the past few years has caused a rapid change from the 4-way crosses. Consult local UC Farm Advisor for current variety recommendations adapted to your location. Varieties change rapidly.

SEEDING RATES - 10 to 15 lb/a depending on seed size, seed drop is usually 6-7 inches in the row resulting in stands of 24,000 to 28,000 plants/a. Populations greater than 30,000 plants/a have resulted in lodging.

FERTILIZER - Organic soils, 200 lbs/a 6-20-20, or 30 gallons 8-24-6 +Zn as starter. Cold wet soils increase the need for nitrogen. Mineral soils, same starter fertilizers, plus 100 lb nitrogen pre-plant and sidedress or water-run 50 lb/a. If potash levels are low, 400 lb/a should be applied broadcast and disced in. Potassium increases the stalk strength of corn.

IRRIGATION - 2.5 to 3.5 acre feet of water. On peat, sub-irrigate 3 times; on mineral soil 8-9 irrigations are needed, depending on variety and growing temperatures. Early irrigation is essential for high yields. If corn is stressed yields will be reduced and pests, such as mites and Fusarium Ear Rot, can be aggravated.

WEED CONTROL - Timely cultivation for watergrass and broadleaf weeds is a necessity. 2,4-D directed spray for escaped broadleaf weeds or atrazine + oil early post-emergence when weeds are less than 1.5 inches tall. Sutan, Surpass, Lasso, Dual plus Bladex in combination (except on peat soils) have provided excellent preplant incorporated weed control.

INSECT CONTROL - For mites, Comite provides fair to good control. Apply before plants are 3-4 feet tall. For cutworms apply seven bait, best to irrigate and then apply. Wireworms can be an occasional problem.

DISEASE CONTROL -

Sugar Cane Mosaic: Control Johnsongrass in surrounding fields with Roundup.

Root and Stalk Rots: Avoid plant stresses, use less susceptible adapted varieties.

Fusarium Ear Rot: Use less susceptible adapted varieties; do not allow fields to stress. Contact your Farm Advisor for more information.

Head Smut: Provide favorable seedbed conditions, use adapted varieties, rotations and good weed control. Use same management strategies for Boil Smut.

SAMPLE COST TO PRODUCE FIELD CORN ON MINERAL SOIL

CROP	FIELD CORN	GROSS INCOME	\$ 500.00
YIELD/ACRE IN TONS	5.0	TOTAL CASH EXPENSE/ACRE	547.41
MARKET VALUE/TONS	\$100.00	NET LOSS/ACRE	\$ -47.41

CULTURAL COSTS: FUEL & SEED

	<u>COST/A</u>	<u>LABOR COST/A</u>	<u>YOUR COST/A</u>
Chop stubble	\$ 0.28	\$ 1.50	_____
Disc 2x	1.08	1.76	_____
Chisel 2x, flat roll	3.20	4.20	_____
Disc 1x	0.54	0.88	_____
Float, harrow, ringroll	1.00	1.32	_____
Preplant Nitrogen, ringroll	0.70	1.05	_____
Float, roll	0.54	0.88	_____
Pre herbicide, do all 2x	1.00	1.76	_____
Float ringroll	0.54	0.88	_____
Plant	0.50	1.75	_____
Seed (10-15#/a) (\$65/bag of 80,000 seeds)	24.38		_____
Cultivate 1x lilliston	0.21	0.75	_____
Side dress nitrogen	0.22	0.57	_____
Open, close ditches	0.10	0.53	_____
Employee pickups	3.14		_____
TOTAL:	\$ 37.43	\$ 17.83*	_____

IRRIGATION

Irrigate 9x, pumping electric	\$ 10.00	\$ 42.75	_____
Drain Maintenance	1.00		_____
TOTAL:	\$ 11.00	\$ 42.75*	_____

CHEMICALS

APPLICATION

Roundup (1pt/a) by air, if needed	\$ 9.00	\$ 6.00	_____
Pre Nitrogen (150#/a) as NH ₃ or Aqua	25.50		_____
Dyfonate 10g for wireworm (10#/a)	10.00		_____
Sevin bait for cutworm (40#/a)	26.80	5.50	_____
Sutan 6.7E+Bladex 4L or Lasso/Bladex	25.93		_____
8-24-6 + Zinc starter (25gpa)	32.00		_____
Sidedress Nitrogen (50#/a) as aqua	9.00		_____
2,4-D for broadleaf weeds (1.5pt/a)	2.33	6.00	_____
Comite for spider mites (1qt/a)	13.09	6.00	_____
TOTAL:	\$153.65	\$ 23.50	_____

HARVEST

Combine	\$ 1.00		_____
Storage (Drying) \$3.00/ton	15.00		_____
TOTAL:	\$ 16.00		_____

* Included in labor budget

LABOR

COST/A

YOUR
COST/A

Cultural (\$5.25/hour)	\$ 17.83	_____
Irrigation (\$4.75/hour)	42.75	_____
Harvest (1 man)	3.00	_____
Storage labor (2 men)	4.36	_____
Overtime	<u>2.21</u>	_____

TOTAL: \$ 70.15

CASH OVERHEAD

Share rent (15% of gross income)	\$ 75.00	_____
Management salary/benefits	16.32	_____
Repairs, maintenance, supplies	70.00	_____
Employee benefits (36% of labor cost)	25.25	_____
Office management expense	10.86	_____
Insurance	5.00	_____
Taxes on equipment	<u>2.57</u>	_____

TOTAL: \$205.00

DEBT SERVICE

Interest on operating loan	\$ 29.25	_____
Interest on equipment	<u>1.43</u>	_____

TOTAL: \$ 30.68

TOTAL GROSS INCOME \$ 500.00

TOTAL CASH EXPENSE/ACRE ... 547.41

NET LOSS/ACRE \$ -47.41

NON-CASH COSTS

Equipment Depreciation	\$ 20.00	_____
Interest on Buildings	0.24	_____
Building Depreciation	<u>3.33</u>	_____

TOTAL: \$ 23.57

SAMPLE COST TO PRODUCE FIELD CORN ON PEAT TYPE SOILS

CROP	FIELD CORN	GROSS INCOME	\$ 450.00
YIELD/ACRE IN TONS	4.5	TOTAL CASH EXPENSE/ACRE	414.13
MARKET VALUE/TONS	\$100.00	NET INCOME/ACRE	\$ 35.87

CULTURAL COSTS: FUEL & SEED

	<u>COST/A</u>	<u>LABOR COST/A</u>	<u>YOUR COST/A</u>
Disc (2x)	\$ 0.89	\$ 1.76	_____
Plow	1.00	1.32	_____
Level plane, or float	0.67	0.88	_____
Winter spud ditch	0.44	0.78	_____
Eradicane application (Disc 2x or do all 1x)	1.08	1.76	_____
Plant/Apply dyfonate/starter fert.	0.50	1.05	_____
Seed (\$65/bag of approx 80,000 seeds)	24.38		_____
Cultivate (2x-3x)	0.43	0.78	_____
Spring spud ditch	0.44	0.78	_____
Employee pickups	3.14		_____
TOTAL:	\$ 32.97	\$ 9.11*	_____

IRRIGATION

Irrigate 3x, subsurface spud ditch	\$ 3.00		_____
Drain Maintenance	1.00		_____
TOTAL:	\$ 4.00		_____

CHEMICALS

APPLICATION

Roundup (1pt/a) by air, if needed	\$ 9.00	\$ 6.00	_____
8-24-6 + Zinc starter (25gpa)	32.00		_____
Eradicane for Johnsongrass (7-1/3pt/a)	22.83		_____
Dyfonate 10G for wireworms (10#/a)	10.00		_____
Sevin Bait for cutworms (40#/a)	26.80	5.50	_____
2,4-D for broadleaf weeds (1.5pt/a)	2.33	6.00	_____
Comite for spider mites (1qt/a)	13.09	6.00	_____
TOTAL	\$116.05	\$ 23.50	_____

HARVEST

Trucks	\$ 0.70		_____
Combine	1.00		_____
Storage (Drying) \$3.00/ton	13.50		_____
TOTAL:	\$ 15.20		_____

* Included in labor budget

LABOR

COST/A

YOUR COST/A

Cultural (\$5.25/hour)	\$ 9.11	_____
Harvest (1 man)	3.00	_____
Overtime	<u>2.21</u>	_____
TOTAL:	\$ 14.32	_____

CASH OVERHEAD

Share rent (15% of gross income)	\$ 67.50	_____
Management salary/benefits	16.32	_____
Repairs, maintenance, supplies	70.00	_____
Employee benefits (36% of labor cost)	5.16	_____
Office management expense	10.86	_____
Insurance	5.00	_____
Taxes on equipment	<u>2.57</u>	_____
TOTAL:	\$177.41	_____

DEBT SERVICE

Interest on operating loan	\$ 29.25	_____
Interest on equipment	<u>1.43</u>	_____
TOTAL:	\$ 30.68	_____

TOTAL GROSS INCOME	\$ 450.00
TOTAL CASH EXPENSE/ACRE ...	<u>414.13</u>
NET INCOME/ACRE	\$ 35.87

NON-CASH COSTS

Equipment Depreciation	\$ 20.00	_____
Interest on buildings	0.24	_____
Building depreciation	<u>3.33</u>	_____
TOTAL:	\$ 23.57	_____