

1984 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 June 20. Early plantings are dependent upon soil temperatures. Later or midseason plantings are dependent upon maturity groupings.

HARVEST DATES - September 15 to October 15.

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

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

FERTILIZER - Organic soils, 200 lbs/acre 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 lbs nitrogen pre-plant plus sidedress or water-run 50 b;s/ac if needed. If potash levels are low, 400 lbs/ac 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 depending on variety and growing temperatures. Early irrigation is essential for high yields.

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

INSECT CONTROL - Mites; Kelthane or Comite provides excellent control. Apply before plants are 3-4 feet tall. For cutworms apply seven bait, best to irrigate and then apply.

DISEASE CONTROL

- Sugar Cane Mosaic: control Johnsongrass in surrounding fields with Roundup.
- Root and Stalk Rots: Avoid plant stresses, use adapted varieties.
- Fusarium Ear Rot: avoid irrigation during calm, hot highly humid weather during milk and dough stage; use adapted varieties; do not allow fields to stress.
- Head Smut: provide favorable seedbed conditions, use adapted varieties, rotations and good weed control. Use same control measures for Boil Smut.

SAMPLE COST TO PRODUCE CORN ON MINERAL SOIL

TYPE OF CROP.....= CORN/MINERAL
 YIELD PER ACRE....= 4.5 TONS
 GROSS INCOME.....= 315,000.00

NUMBER OF ACRES.....= 500
 MARKET VALUE PER TONS..= 140
 GROSS INCOME/ACRE.....= 630.00

EXPENSES

TYPE -----	PER ACRE -----	TOTAL -----	CHANGES -----
CULTURAL FUEL COSTS -----			
Stubble Chop	1.00	500.00	-----
Disc 2x	2.20	1,100.00	-----
Plow	2.75	1,375.00	-----
Disc 1x	1.10	550.00	-----
Level Plane 2x	2.72	1,360.00	-----
Pre-N/float/roll	0.75	375.00	-----
Pre-Herb/Du-All	1.60	800.00	-----
Open/Close Ditches	0.40	200.00	-----
Float/Ringroll	0.75	375.00	-----
Plant	1.66	830.00	-----
Float/Harrow/Roll	0.75	375.00	-----
Cultivate 2x/Side-Seed Corn	2.20	1,100.00	-----
	24.00	12,000.00	-----
TOTAL ***	41.88	20,940.00	-----
IRRIGATION -----			
Irrig. 9x (\$12/AF)	36.00	18,000.00	-----
TOTAL ***	36.00	18,000.00	-----
CHEMICALS -----			
Pre-N (150 lbs/ac)	34.50	17,250.00	-----
Lasso/Bledex	28.60	14,300.00	-----
Starter 8-24-6 20g	29.90	14,950.00	-----
Sevin 40 lbs/ac	20.00	10,000.00	-----
Dyfonate	12.90	6,450.00	-----
Kelthane or Coaite	18.99	9,495.00	-----
Siddress N 50 lb/	11.50	5,750.00	-----
TOTAL ***	156.39	78,195.00	-----
HARVEST -----			
Trucks	1.00	500.00	-----
Storage (\$2/ton)	9.00	4,500.00	-----
Combine	3.00	1,500.00	-----
Hauling (\$5.50/T)	24.75	12,375.00	-----
TOTAL ***	37.75	18,875.00	-----

LABOR

Harvest (2 men)	4.40	2,200.00	-----
Cultural (#5/hr)	14.65	7,325.00	-----
Irrigation (#4/hr)	36.00	18,000.00	-----
Shop Mechanic	10.00	5,000.00	-----
Planting (1 man)			
1.17	585.00	-----	
TOTAL ***	66.22	33,110.00	-----

DEBT SERVICE

Interest on Loan	19.65	9,825.00	-----
Interest on Equip.	9.00	4,500.00	-----
TOTAL ***	28.65	14,325.00	-----

CASH OVERHEAD

Taxes on Equip.	2.57	1,285.00	-----
Share Rent (25%)	157.50	78,750.00	-----
Office/Mgmt. Exp.	15.00	7,500.00	-----
Emp. Benifits (30%)	19.95	9,975.00	-----
Repairs/Maintenan	54.25	27,125.00	-----
Mgmt. Sal/Benifits	35.00	17,500.00	-----
TOTAL ***	284.27	142,135.00	-----

TOTAL CASH EXPENSES #	651.16	# 325,580.00
NET INCOME @ 4.5 TONS		
#	-21.16	# -10,580.00

NON-CASH COSTS

Interest on Bldgs.	10.67	5,335.00	-----
Bldg. Depreciation	4.44	2,220.00	-----
Equip. Deprec.	37.50	18,750.00	-----
TOTAL NON-CASH COSTS #	52.61	# 26,305.00	-----

GRAPH OF CROP EXPENSES

TYPE	00%	10%	20%	30%	40%	50%	60%	70%
CULTURAL FUEL COSTS								
IRRIGATION								
CHEMICALS								
HARVEST								
LABOR								
DEBT SERVICE								
CASH OVERHEAD								
NON-CASH COSTS								

