FIELD CORN.

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Sample

Costs of Production

Suggestions on Growing

University of California
Farm and Home Advisor's Office
2610 'M' Street
Bakersfield, California
Revised June, 1968

UC Cooperative Extension

The costs of production in any agricultural enterprise will vary considerably from ranch to ranch. The input and cost data in this booklet are sample costs. They are intended to be used only as educational guides in assisting you to appraise and plan your own crop and livestock program.

These cost data do not represent industry averages.

SUGGESTIONS ON GROWING FIELD CORN-Roy M. Barnes - Farm Advisor

SOIL REQUIREMENTS:

Corn can be grown on soils that grow good cotton, potatoes or alfalfa. Soils that contain medium to strong alkali will produce poor crops.

VARIETY:

There are many varieties of corn on the market.
Varieties may vary from very early; (120-130 days),
to late (150-160 days). Several companies have
varieties that perform well under Kern County
conditions. It may be well to contact the local
University of California Agricultural Extension
Service office for performance records on corn
varieties.

Most seed is sold pretreated for seed and soil-

SEED TREATMENT:

borne diseases.
PREPARATION OF SOIL AND PLANTING:

THE PROPERTY OF SOIL AND TEXASTING

Row width may be 36 to 40 inches. Corn, being a large seed, requires ample moisture during the 7 to 10 day germination period. A cotton planter with corn plates may be used. PLANTS SPACED 7-9" IN-THE-ROW HAVE GIVEN BEST YIELDS OF GRAIN.

PLANTING RATE:

Normally, about 13 pounds per acre

SPACING OF KERNELS FOR VARIOUS POPULATIONS PER ACRE

- N Spacing 18,000 19,000 20,000 22,000 24,000 28,000
 - 36 inches 9.7 9.2 8.7 7.9 7.3 6.2 38 inches 9.2 8.7 8.2 7.5 6.9 5.9
 - 40 inches 8.7 8.3 7.1 6.5 5.6 UC Cooperative Extension

COST ANALYSIS WORK SHEET

SAMPLE COSTS TO PRODUCE FIELD CORN IN KERN COUNTY (Single Crop) - 1968
Based on man labor at \$1.70 and \$1.90 per hour, including compensation insurance and Social Security;
35 H.P. wheel tractor cash cost per hour \$1.30; Depreciation \$.70; Interest \$.25

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* Roy M. Barnes	· ,	** Burt B.	Burlingame
Hours Operation Per Acre	Cash and Labor Cost Per Acre Fuel and Remairs- Materials and Labor Equipment Other Costs	Sample Costs	My Costs
Cultural: Land preparation 2.0 Plant and fertilize (2 men) .5 Irrigation: 1 pre, 6 crop 7.0 Hoe 2.0 Cultivate: 2 times 1.5 Taxes Miscellaneous overhead Total Cultural Costs	\$ 3.80 \$ 2.60 1.80 .65 Seed: 13 lbs. @ 28¢ \$ 3. Ni gen: 150 lbs. @ 12¢ 18. 11.90 2.50 Water: 3 ft. @ \$6.00 18. 3.40 2.85 1.95 12. 4.45 3.30 5.	00 24.09 00 32.40 3.40 4.80 50 12.50 50 13.25	
Harvest: Harvest Haul	Contract: \$10.00/A + 10¢/cwt. \$16. 6,000 lbs.@ \$2.00/ton 6.	00 \$ 16.00 00 6.00	
Total Harvest Costs		\$ 22.00	
Total Cash and Labor Costs	Cash and Labor Cost per cwt. @ 6,000 lbs. yield	\$118.84 (\$ 1.98)	
Costs at Varying Yields Pounds Total Cost Per Acre Per Cwt. 4,000 \$4.93 5,000 3.98 6,000 3.35 7,000 2.90 8,000 2.56	Annual Cost Per Acre Depreciation Interest	\$ 82.35 \$201.19 \$ 3.35	

^{*} Farm Advisor

PLANTING TIME:

Late March or early April plantings have produced best yields of grain. For ensilage, plantings may be made as late as June 15.

PLANTING DEPTH:

Planting depth should be governed by soil moisture but should not exceed 2-1/2-inches.

FERTILIZATION:

Nitrogen is essential for high yields---150-200 pounds of actual nitrogen are recommended. Phosphate should be applied, if used on cotton or other crops. Application of fertilizer should be made at seeding time, if possible, to avoid pruning the important shallow roots. Applying fertilizer after the tasseling and silking stage is of no value.

IRRIGATION:

Corn requires ample moisture throughout its entire growth. Frequency of irrigation will depend upon the kind of soil. Usually, an irrigation every 10 to 12 days is required. Water may be withheld after ears have dented.

CULTIVATION:

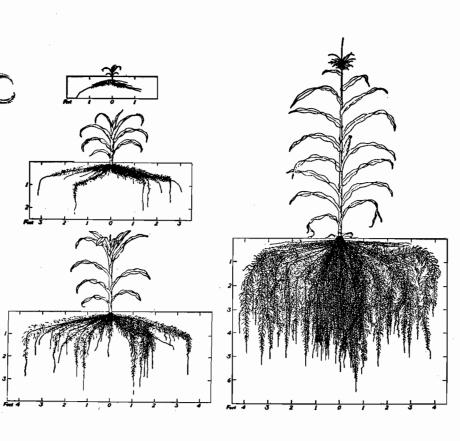
Cultivation is needed only for weed control. Shallow cultivation is best to avoid disturbing the important shallow roots; also, the soil will dry out as deeply as it is stirred.

HARVESTING:

Corn may be mechanically picked. Shelling may be accomplished simultaneously with picking. Corn is safe to store when the moisture is 15%. Normally, corn will shell about 80% grain from the ear.

YIELDS:

With proper care and management, yields of 6,000 to 8,000 pounds of grain may be expected.



The stalk and root system of a corn plant different stages of growth at the Nebraska Experiment Station. The roots do most of their spreading during early growth. After 6 weeks they move down to about 6 feet UC Cooperative Extension