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September 1946

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CORN PRODUCTION REQUIREMENTS

Nebraska

1943

PUMP IRRIGATED CORN

Fillmore County

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This report has been prepared by
members of the Department of Rural
Economics and the Agricultural Extension
Service with the aid of the cooperating
county extension agents and farmers.

Nebraska

COOPERATIVE EXTENSION WORK
IN AGRICULTURE AND HOME ECONOMICS

U. of N. Agr. College and U. S. Dept. of Agr. Cooperating
W. H. Brokaw, Director
Lincoln, Nebraska

PUMP IRRIGATION REQUIREMENTS AND COSTS

Corn cost records were secured from 12 farmers in 1943 who irrigated their corn by pumping from deep wells. The purpose of these records is to determine the cost and requirements of irrigating by these methods.

These studies show the average time to grow and harvest an acre of corn and the cost per acre and per bushel. The cost of tractor power and the cost of machinery used is the same that the Department of Rural Economics uses in all cost studies and is based on figures given in Nebraska bulletin 366 "Cost of Operating Farm Machinery in Nebraska."

Irrigation costs were determined by the records secured from the cooperating farmers. Unpaid family labor was charged at \$.60 per hour and board for hired labor at \$1.00 per day, in 1943. Production costs and requirements determined are those necessary to put corn in the crib.

Footnotes for Table 1

* First number in column indicates number of farms using either horses or tractor second number indicates the average number of hours per acre tractors, or horses were used on these farms.

** Cost per bushel includes a land charge: Acre costs do not.

1. These charges are for the field work only.

Table 1. Hours of labor used and costs of growing pump irrigated corn on 12 Fillmore County Nebraska Farms, 1943.

Item	Your farm	Average of 16 farms
Number of farms		12
Labor and power per acre: Hours		
To Husking		
Cultivation		
Man		3.16
Horse*	4-	2.55
Tractor		2.66
Irrigation		
Man		5.92
Horse	1-	.40
Tractor	6-	.17
Total to husking		
Man		9.08
Horse*	4-	2.59
Tractor*		2.72
For Husking		
Man		2.89
Horse	8-	8.37
Tractor	9-	1.05
Total (up to and for husking)		
Man		11.97
Horse	9-	8.43
Tractor		3.34
Irrigation cost per acre		
Labor		\$ 3.55
Equipment ¹		.10
Power ¹		.03
Pumping charge		3.87
Total Irrigation cost per acre		7.55
Costs per acre (total)		
Labor		\$ 7.59
Power		2.10
Equipment		1.24
Miscellaneous		4.88
Total cost per acre		\$15.81
Number of acres		
		82.3
Yield per acre: Bushel		
Total yield		46.3
Tenants share		31.9
Cost per bushel**		
		.50
Average Number of Irrigations		
		3