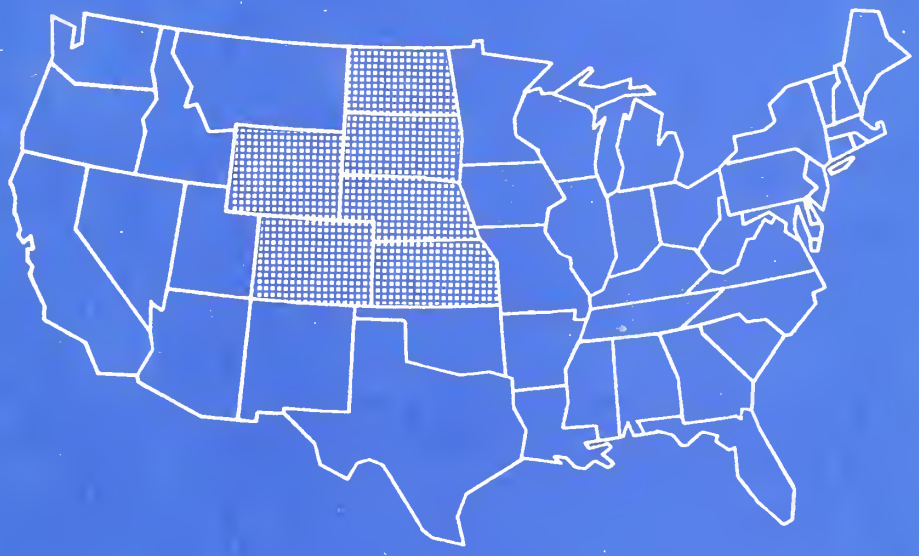
ERS 459

SELECTED U.S. CROP BUDGETS
Yields, Inputs, and Variable Costs



Volume III
Great Plains Region

U.S. DEPARTMENT OF AGRICULTURE ECONOMIC RESEARCH SERVICE

ABSTRACT

This report contains estimates of variable costs of producing major crops in 16 production areas in the Great Plains region of the United States. Crops include wheat, barley, corn, grain sorghum, oats, rye, flax, soybeans, and hay. Budgets show the quantity and value of specific preharvest and harvest inputs, total preharvest costs per acre planted, and total variable costs per acre planted. Detailed breakdowns of crop yields and rates of fertilization are also included.

Keywords: Crop costs, Crop budgets, Production costs, Great Plains region.

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Although these people and institutions share credit for developing the data base, they do not, of course, share responsibility for interpretation of the data in these budgets.

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Volume III.--Great Plains Region

by

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INTRODUCTION

This report is one of a set presenting estimates of variable costs of producing major crops in different regions of the United States. Regions, in addition to the Great Plains, include the Southeast, North Central, South Central, Southwest, and Northwest (fig. 1).

These budgets were developed by the Farm Production Economics Division of the Economic Research Service specifically for use in its Aggregate Production Analysis System (APAS). 1/ Similar assumptions and methodology were used in estimating the data in all six regions. Consequently, the budgets provide comparable estimates of crop yields and variable production costs both within and among the major crop-producing areas of the United States.

These reports are primarily for the use of other analysts and researchers; the budgets include only variable costs and are not intended to represent total production costs. Input items in the budgets are expressed in both physical and monetary terms. Thus, when appropriate, physical levels, price levels, or both can be adjusted to reflect up-to-date information. The budgets are a key data input to APAS and are adjusted as new information or circumstances require.

Geographic coverage, assumptions, and definitions are detailed in subsequent sections.

1/ This system is designed to provide estimates of response in aggregate production and resource use to changes in costs, prices, resource availabilities, and Government programs. For a description and analysis of this system and its organization see: W. Neill Schaller. "A National Model of Agricultural Production Response." Agr. Econ. Res. 20(2), Apr. 1968; and Jerry A. Sharples and W. Neill Schaller. "Predicting Short-Run Aggregate Adjustment to Policy Alternatives." Amer. Jour. Agr. Econ. 50(5), Dec. 1968.

PRODUCTION AREAS

Seven regions of the United States have been delineated for use in APAS, as shown in figure 1. States comprising the Great Plains region are North Dakota, South Dakota, Nebraska, Kansas, Wyoming, and Colorado. These States have been further subdivided into production areas representing similar cropping patterns, tillage practices, soil types, yields, and climatic conditions, as shown in figure 1. With the exception of irrigated crops, the budgets apply to the total production of each respective crop in the areas shown in figure 1. For irrigated crops, the budgets represent the entire irrigated crop acreage in the State, regardless of the area(s) in which it is located. For example, budgets for irrigated corn in Kansas are designated area Y and represent all the irrigated corn in areas S, T, V, and W.

The study region encompasses a wide range of growing conditions. Precipitation ranges from less than 12 inches a year in parts of eastern Colorado to slightly more than 40 inches in area W in southeastern Kansas. Mean maximum temperatures for July range from 80°F. in the northern areas to 96°F. in the southern areas. The average growing season varies from about 110 days in northern North Dakota to 200 days in parts of Kansas. Elevations range from about 5,000 feet in eastern Wyoming and Colorado to less than 1,000 feet along the eastern edge of the region.

Wheat is the major dryland cash crop in most of the Great Plains. Most wheat, as well as other small grains, is planted on summer-fallowed land in the more arid sections where annual rainfall is less than 24 inches. Feed grain production is the primary alternative to wheat; barley, corn, and grain sorghum are all produced in significant quantities. Barley predominates in the northern part of the region where the short growing season and cool nights give it an advantage over corn. Most of the corn is found in the higher rainfall areas of the east. Grain sorghum predominates in the southwestern third of the region due to its ability to withstand hot summer temperatures and drought. Corn or grain sorghum (depending on the growing season and temperatures) and alfalfa hay are the major crops in irrigated areas.

ASSUMPTIONS AND DEFINITIONS

The data presented herein have been obtained from several sources. Many of the technical coefficients are based on data from Regional Research Project GP-5, "Economic Problems in the Production and Marketing of Great Plains Wheat," and Regional Research Project W-54, "Appraisal of Opportunities for Adjusting Farming to Prospective Markets." These coefficients have been revised where necessary on the basis of field surveys, secondary data, and the judgment of agricultural economists in the region. Yield estimates for 1970 are based on historical acreages and production reported by the Statistical Reporting Service, U.S. Department of Agriculture. Estimates of fertilizer rates, pesticide use, crop insurance, and methods of harvesting crops are based on published and unpublished data from the Statistical Reporting Service and the Economic Research Service.

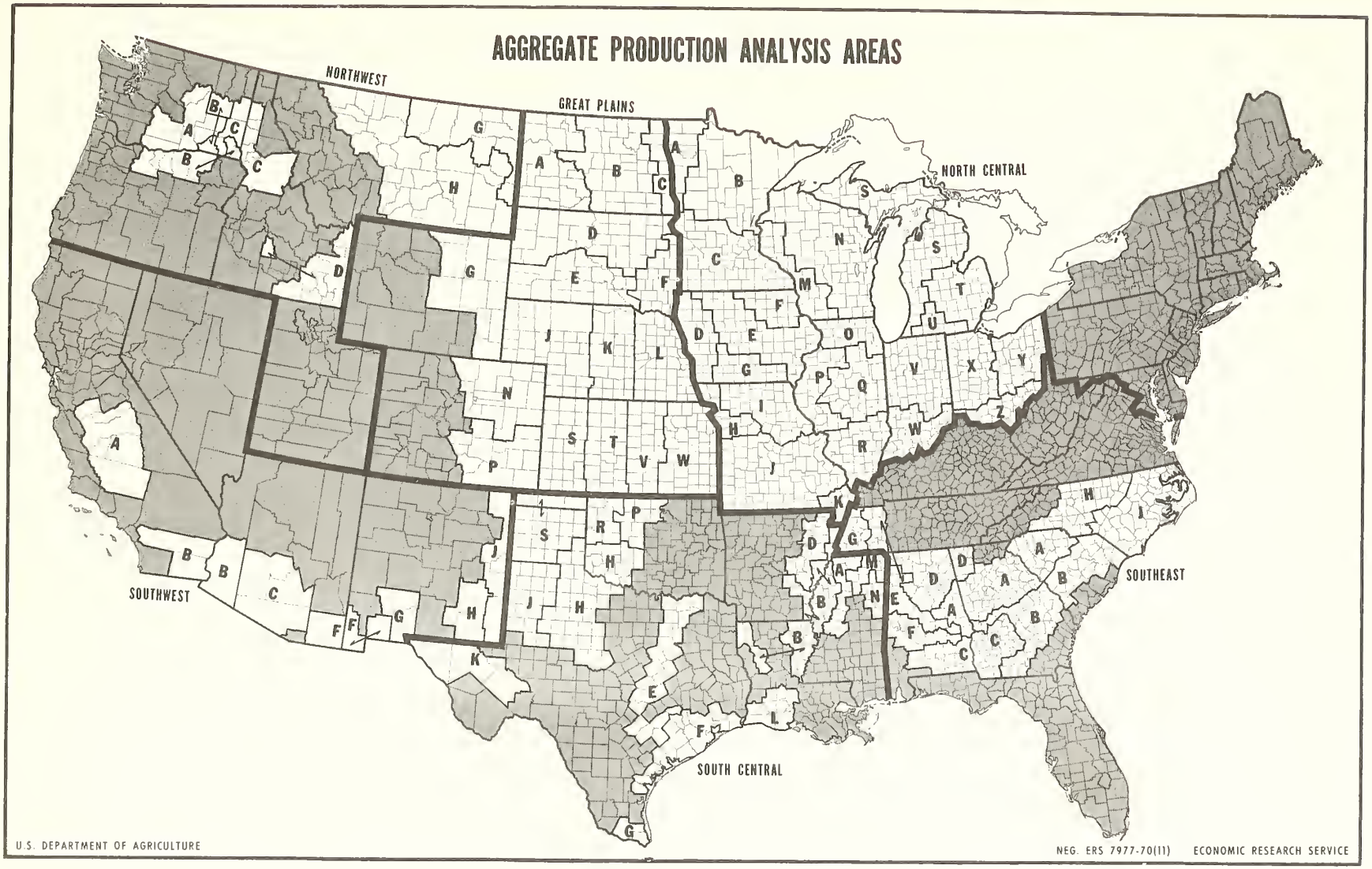
AGGREGATE PRODUCTION ANALYSIS AREAS
NORTHWEST
GREAT PLAINS
NORTH CENTRAL
SOUTHWEST
SOUTHEAST
SOUTH CENTRAL
U.S. DEPARTMENT OF AGRICULTURE
NEG. ERS 7977-70(11)
ECONOMIC RESEARCH SERVICE

Figure 1

Average Costs

The budgets reflect mean costs rather than modal or typical costs in the sense that the estimates relate to mean fertilizer and pesticide practices, average cost experience, etc., for all production in the respective producing areas. Harvesting costs are the weighted average costs of all important harvesting methods used in the respective areas. For example, the small grain budgets show both custom harvesting and harvesting by owned equipment, the share of each depending on the average ratio for the crop in the area.

In many cases, the information shown in the average budgets is sufficient to estimate the underlying typical budget. For example, the cost of harvesting wheat with an owned combine may be estimated by expanding the labor and equipment costs to cover the custom combined portion currently shown in the budget.

An exception to the principle of showing average practices has been made for summer fallow. In much of the Great Plains, some wheat and barley may be planted on summer-fallowed ground and the remainder on land that was cropped the previous year. In these cases, one budget has been prepared for the crop on summer fallow and a second for the crop under a continuous cropping system. Thus, a budget for "winter wheat on fallow" includes all the variable costs of a 2-year rotation of summer fallow and wheat, while the budget for "winter wheat" includes the annual variable cost of wheat under continuous cropping.

Costs Included

Since cost items are intended to be guides for shortrun (1-year-ahead) production decisions, overhead and fixed costs are not included in the budgets. Among the costs excluded are depreciation, insurance, interest, and taxes on equipment; interest and taxes on land; and farm overhead expenses. Such costs may be considered fixed during each cropping year and do not affect the choice of crops. On the other hand, variable costs (those reflected in the budgets) are tied directly to specific crops or enterprises and do enter into annual decisionmaking.

Labor costs do not conform to either of the above categories. Operator labor is normally considered a fixed cost, while some hired labor is seasonal and varies directly with the acreages of specific crops. However, in this report there is no differentiation between operator labor and hired labor. All labor shown is valued at the 1970 projected composite wage rate for hired farm labor, based on data reported by the Statistical Reporting Service, and represents all labor required for the crop (with the exception of custom operation).

Seed costs reflect the use of a specified percentage of purchased seed, with the remainder being homegrown; seed prices are, therefore, a blend between the price the farmers pay for seed and the farm value of the respective commodity. Pesticide costs are divided into two items, one showing the cost of all materials and a second component showing the cost of custom application. Crop insurance costs represent the premium paid by farmers less indemnities received, based on historical loss experiences.

Each budget includes an interest charge on preharvest expenses (except labor) at the rate of 7 percent a year. It is assumed that this money is required for 6 months for each crop; thus, a charge of 3.5 percent is shown in the budgets.

Harvest costs reflect the average harvesting methods for the crop in the respective areas; where a composite of methods is assumed, the mix is shown in the footnote. Due to crop abandonment from drought, hail, winterkilling, etc., the acreage harvested is usually less than the acreage planted; hence, any cost category is normally higher on a harvested-acre basis than on a planted-acre basis. This relationship is apparent in the two total harvest cost items shown in each budget.

Costs of storing crops after harvest are not included in the budgets. On-farm storage costs are mainly fixed costs and are, therefore, omitted. Off-farm commercial storage may be significant for portions of some crops; however, such costs are difficult to estimate and have not been included in the budgets.

Prices and Yields

Input prices and crop yields reflect projected 1970 yields, assuming normal weather conditions in 1970 and projected average technology.

ENTERPRISE BUDGETS

Budget data for the major crops in the Great Plains are presented in two sets of tables. First, summary tables of each crop are shown, indicating the yields per planted and harvested acre, the total variable cost, and the total variable cost per bushel or unit produced. Following these summary tables, individual crop budgets are presented in tables 12-172. These budgets show a more detailed breakdown of the preharvest and harvesting costs of each crop.

Wheat

Wheat budgets are summarized in tables 1-3, followed by the enterprise budgets for wheat in tables 12-57. As shown in tables 1 and 2, the slightly higher costs of durum, in comparison with other spring wheats, are more than offset by higher yields. Thus the cost per bushel of durum is lower than that of other spring wheat. Table 3 indicates that the per bushel cost of winter wheat is generally lower than either of the spring wheats. The median cost of winter wheat is $0.60 a bushel, while durum wheat is $0.615 and other spring wheat is $0.67.

The wheat summary tables also exhibit an important difference due to summer fallowing. Both yields and costs per acre are higher for a crop on summer fallow than for the same crop under continuous cropping. The tables show that the increased yield usually more than offsets the increased costs, resulting in lower costs per bushel under summer fallow than under continuous cropping. It should be noted, however, that the net return under summer fallow must defray the fixed costs on 2 acres of land, while the net returns under continuous cropping apply to only 1 acre.

Barley, Corn, and Grain Sorghum

Summaries of yields and variable production costs of the major feed grains are shown in tables 4-6; enterprise budgets for these crops are presented in tables 58-110. The per bushel costs of producing barley and grain sorghum are significantly lower than for corn. Median costs per bushel are $0.43 for barley, $0.39 for grain sorghum, and $0.59 for corn.

Corn budgets are for corn harvested as silage in North Dakota and corn harvested as grain in the remainder of the areas (tables 80-82). The short growing season in much of North Dakota allows very little corn to be harvested as grain.

Other Crops

Oats, rye, flax, soybeans, and hay budgets constitute the remainder of the tables, beginning with table 111. These budgets are summarized in tables 7-11.

Oats are produced in about the same areas as barley, but yields per bushel are generally higher, and production costs lower, than for barley. Rye yields deserve special mention. The production shown in the budgets and in table 8 is rye harvested for grain only. In many areas, particularly in Kansas and Nebraska, a large portion of the rye is planted for pasture and not harvested for grain. Thus, grain yields per planted acre in these regions are very low (for example, 3.6 bushels in Kansas area V), and the resulting cost per bushel of grain produced is rather high (table 8). A valid comparison between the net returns from rye and the net returns from other crops in these regions would require an estimate of the returns from the portion of rye used as pasture. Estimation of these pasture yields and values was considered beyond the scope of this analysis.

Flax and soybeans budgets are summarized in tables 9 and 10. Costs of producing flax range from $1.07 to $1.53 per bushel, while soybean costs range from $0.61 to $0.92 per bushel. Agronomic and marketing problems often cause lower acreages of these crops in the Great Plains than their net returns would suggest.

Alfalfa hay budgets are summarized in table 11. Yields vary from 0.95 to 3.51 tons per acre, while variable costs per ton range from $7.64 to $15.69 with a median of $9.07. In these budgets, the preharvest costs of planting alfalfa have been prorated over the years the stand is continued.

Table 1.--Summary of production and variable costs for durum wheat

Crop and area	Yield		Total variable cost	
	Per planted acre	Per harvested acre	Per planted acre	Per bushel
	Bushels	Bushels	Dollars	Dollars
Durum wheat on fallow:				
North Dakota:				
Area A	22.50	23.20	13.08	.58
Area B	26.90	27.70	14.07	.52
Area C	29.70	30.60	18.14	.61
Durum wheat after crop:				
North Dakota:				
Area A	17.80	18.70	11.19	.63
Area B	19.30	19.90	12.04	.62
Area C	26.20	27.00	16.67	.64

Table 2.--Summary of production and variable costs for other spring wheat

Crop and area	Yield		Total variable cost	
	Per planted acre	Per harvested acre	Per planted acre	Per bushel
	Bushels	Bushels	Dollars	Dollars
Other spring wheat on fallow:				
North Dakota:				
Area A	19.80	20.40	12.49	.63
Area B	23.50	24.20	13.50	.57
Area C	28.10	29.00	17.47	.62
South Dakota:				
Area D	20.50	21.40	13.81	.67
Area E	18.10	18.80	12.21	.67
Area F	21.40	22.10	13.85	.65
Wyoming:				
Area G	15.80	17.60	7.87	.50
Colorado:				
Area N	14.80	18.50	7.04	.48
Other spring wheat after crop:				
North Dakota:				
Area A	14.60	15.70	10.58	.72
Area B	15.50	16.10	11.42	.74
Area C	24.60	25.40	16.11	.65
South Dakota:				
Area D	14.70	15.60	11.82	.80
Area E	14.20	15.10	11.27	.79
Area F	17.10	17.60	12.70	.74
Wyoming:				
Area G	9.70	12.90	5.93	.61
Area H	29.30	31.50	21.99	.75
Colorado:				
Area R	34.00	37.80	24.24	.71

Table 3.--Summary of production and variable costs for winter wheat

Crop and area	Yield		Total variable cost	
	Per planted acre	Per harvested acre	Per planted acre	Per bushel
	Bushels	Bushels	Dollars	Dollars
Winter wheat on fallow:				
South Dakota:				
Area D	20.80	26.00	13.01	.63
Area E	23.10	27.20	11.48	.50
Wyoming:				
Area G	19.10	22.20	7.16	.37
Nebraska:				
Area J	22.80	26.50	8.41	.37
Area K	24.90	27.10	11.19	.45
Area L	28.00	29.20	14.17	.51
Colorado:				
Area N	17.10	21.10	6.55	.38
Area P	10.20	17.90	5.56	.55
Kansas:				
Area S	20.20	24.90	7.88	.39
Area T	19.60	22.00	9.98	.51
Area V	25.60	26.70	15.57	.61
Winter wheat after crop:				
South Dakota:				
Area D	14.10	18.80	12.43	.88
Area E	14.90	18.60	10.50	.70
Nebraska:				
Area J	13.40	19.10	5.96	.44
Area K	17.50	19.40	10.69	.61
Area L	25.00	26.90	14.89	.60
Area M	34.00	35.40	23.13	.68
Colorado:				
Area R	33.00	34.70	23.59	.71
Kansas:				
Area S	13.00	20.60	5.73	.44
Area T	15.10	17.40	9.29	.62
Area V	22.60	24.30	16.04	.71
Area W	24.60	25.60	18.62	.76
Area Y	32.70	34.40	20.16	.62

Table 4.--Summary of production and variable costs for barley

Crop and area	Yield		Total variable cost	
	Per planted acre	Per harvested acre	Per planted acre	Per bushel
	Bushels	Bushels	Dollars	Dollars
Barley on fallow:				
North Dakota:				
Area A	32.40	35.60	10.87	.34
Area B	38.70	41.60	12.80	.33
Area C	40.00	42.10	16.50	.41
South Dakota:				
Area D	33.70	36.20	13.03	.39
Wyoming:				
Area G	17.00	21.30	7.40	.44
Nebraska:				
Area J	16.60	22.10	6.30	.38
Colorado:				
Area N	15.80	23.20	6.41	.41
Area P	8.80	19.10	5.22	.59
Kansas:				
Area S	15.00	23.10	6.61	.44
Barley after crop:				
North Dakota:				
Area A	24.20	27.50	8.91	.37
Area B	29.20	31.70	10.43	.36
Area C	34.70	36.50	15.41	.44
South Dakota:				
Area D	26.90	29.60	12.39	.46
Area E	23.50	26.40	9.89	.42
Area F	29.60	31.20	11.86	.40
Wyoming:				
Area G	13.50	20.50	5.63	.42
Area H	44.00	48.90	26.16	.59
Nebraska:				
Area M	38.00	42.20	23.54	.62
Colorado:				
Area R	41.40	47.00	24.52	.59
Kansas:				
Area T	12.50	18.90	7.12	.57
Area V	18.70	23.40	11.21	.60
Area W	20.20	23.80	13.15	.65

Table 5.--Summary of production and variable costs for corn

Crop and area	Yield		Total variable cost	
	Per planted acre	Per harvested acre	Per planted acre	Per unit produced
	Tons	Tons	Dollars	Dollars
Corn silage:				
North Dakota:				
Area A	3.80	3.90	16.23	4.27
Area B	5.10	5.20	19.77	3.88
Area C	6.80	6.90	30.05	4.42
	Bushels	Bushels	Dollars	Dollars
Corn for grain:				
South Dakota:				
Area D	25.20	25.70	15.46	.61
Area E	29.00	29.90	14.39	.50
Area F	47.80	48.80	22.50	.47
Wyoming:				
Area H	81.20	83.70	47.66	.59
Nebraska:				
Area J	18.50	19.50	13.12	.71
Area K	30.00	30.90	19.81	.66
Area L	63.20	64.50	31.84	.50
Area M	100.50	102.60	48.81	.49
Colorado:				
Area N	13.00	14.50	8.31	.64
Area R	89.20	92.00	46.80	.52
Kansas:				
Area V	34.50	35.90	24.58	.71
Area W	59.50	61.30	34.37	.58
Area Y	87.50	90.20	51.53	.59

Table 6.--Summary of production and variable costs for grain sorghum

Area	Yield		Total variable cost	
	Per planted acre	Per harvested acre	Per planted acre	Per bushel
	Bushels	Bushels	Dollars	Dollars
South Dakota:				
Area D	25.00	26.00	10.67	.43
Area E	30.50	31.80	12.00	.39
Area F	39.60	41.20	14.20	.36
Nebraska:				
Area J	22.60	23.80	7.48	.33
Area K	28.50	29.70	11.35	.40
Area L	63.00	64.90	19.94	.32
Area M	91.50	94.30	35.80	.39
Colorado:				
Area N	14.40	16.00	5.80	.40
Area P	10.60	12.50	4.56	.43
Area R	72.40	77.80	30.39	.42
Kansas:				
Area S	19.80	20.80	6.16	.31
Area T	23.10	24.10	10.23	.44
Area V	36.00	37.10	15.38	.43
Area W	58.20	60.00	20.39	.35
Area Y	87.60	90.30	32.44	.37

Table 7.--Summary of production and variable costs for oats

Area	Yield		Total variable cost	
	Per planted acre	Per harvested acre	Per planted acre	Per bushel
	Bushels	Bushels	Dollars	Dollars
North Dakota:				
Area A	29.00	33.70	7.66	.26
Area B	37.90	41.60	9.01	.24
Area C	48.90	52.00	13.99	.29
South Dakota:				
Area D	33.00	36.30	10.96	.33
Area E	26.90	30.20	10.00	.37
Area F	41.50	44.60	11.73	.28
Wyoming:				
Area G	14.00	23.00	5.26	.38
Area H	40.80	47.40	24.77	.61
Nebraska:				
Area J	17.30	23.10	5.73	.33
Area K	22.40	26.40	8.96	.40
Area L	37.00	41.60	11.29	.31
Area M	49.50	55.00	22.70	.46
Colorado:				
Area N	8.50	15.50	5.24	.62
Area R	48.50	57.10	22.57	.47
Kansas:				
Area S	15.80	24.30	4.93	.31
Area T	18.00	25.40	6.33	.35
Area V	19.30	25.40	9.86	.51
Area W	28.20	35.20	12.94	.46

Table 8.--Summary of production and variable costs for rye

Area	Yield		Total variable cost	
	Per planted acre	Per harvested acre	Per planted acre	Per bushel
	Bushels	Bushels	Dollars	Dollars
North Dakota:				
Area A	14.80	18.50	7.02	.47
Area B	19.60	22.80	8.26	.42
Area C	19.80	22.00	11.93	.60
South Dakota:				
Area D	17.90	21.30	9.57	.53
Area E	16.60	20.80	7.67	.46
Area F	18.50	20.60	9.46	.51
Nebraska:				
Area J	9.10	16.50	4.90	.54
Area K	6.30	14.30	7.87	1.25
Area L	10.20	17.00	9.29	.91
Kansas:				
Area S	4.40	8.80	4.22	.96
Area T	4.00	11.40	5.29	1.32
Area V	3.60	14.40	7.37	2.05
Area W	5.70	11.40	10.74	1.88

Table 9.--Summary of production and variable costs for flax

Area	Yield		Total variable cost	
	Per planted acre	Per harvested acre	Per planted acre	Per bushel
	Bushels	Bushels	Dollars	Dollars
North Dakota:				
Area A	6.50	7.00	8.05	1.24
Area B	7.70	8.30	8.23	1.07
Area C	8.40	8.90	12.84	1.53
South Dakota:				
Area D	7.80	8.10	9.02	1.16
Area F	9.60	9.90	10.81	1.13

Table 10.--Summary of production and variable costs for soybeans

Area	Yield		Total variable cost	
	Per planted acre	Per harvested acre	Per planted acre	Per bushel
	Bushels	Bushels	Dollars	Dollars
North Dakota:				
Area C	16.50	17.40	13.63	.83
South Dakota:				
Area D	14.50	14.90	13.41	.92
Area F	17.90	18.30	13.80	.77
Nebraska:				
Area L	25.40	25.90	15.39	.61
Area M	32.60	33.30	24.78	.76
Kansas:				
Area V	15.80	16.40	13.26	.84
Area W	19.80	20.40	16.05	.81

Table 11.--Summary of production and variable costs for alfalfa hay

Area	Yield		Total variable cost	
	Per planted acre	Per harvested acre	Per planted acre	Per ton
	Tons	Tons	Dollars	Dollars
North Dakota:				
Area A	1.20	1.20	10.52	8.77
Area B	1.34	1.34	11.14	8.31
Area C	1.75	1.75	13.44	7.68
South Dakota:				
Area D	1.25	1.25	10.16	8.13
Area E	1.20	1.20	9.60	8.00
Area F	1.85	1.85	14.14	7.64
Wyoming:				
Area G	.95	.95	7.77	8.18
Area H	2.00	2.00	31.38	15.69
Nebraska:				
Area J	1.13	1.13	10.47	9.27
Area K	1.57	1.57	14.24	9.07
Area L	2.32	2.32	20.71	8.93
Area M	3.51	3.51	39.13	11.15
Colorado:				
Area N	1.00	1.00	8.49	8.49
Area R	2.10	2.10	33.33	15.87
Kansas:				
Area S	1.05	1.05	12.36	11.77
Area T	1.26	1.26	13.52	10.73
Area V	2.23	2.23	22.34	10.02
Area W	2.33	2.33	24.30	10.43
Area Y	3.30	3.30	43.98	13.33

Table 12.--Durum wheat on fallow: Estimated inputs and variable costs for Western North Dakota Area A

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	1.43	1.47	2.10
Seed, 33 percent purchased	Bushel	1.20	2.19	2.63
Fertilizer:				
Available nitrogen	Pound	1.00	.10	.10
Available phosphorus	do.	7.00	.24	1.68
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	1.55
Equipment (lubricant and repair)	do.	---	---	.58
Pesticides:				
Materials (various)	Acre	.92	.30	.28
Custom application	do.	.46	1.00	.46
Insurance, hail and FCIC	Dollar	---	---	.39
Interest on operating expense, 6 months at 7 percent	do.	7.67	.035	.27
Total preharvest cost	Acre	1.00	---	10.04
Harvest costs:[1/]				
Labor, regular	Hour	.65	1.47	.96
Power and equipment:				
Swather (fuel, lubricant, and repair)	Dollar	---	---	.21
Combine (fuel, lubricant, and repair)	do.	---	---	.66
Truck (fuel, lubricant, and repair)	do.	---	---	.24
Custom hire:				
Combining	Acre	.22	3.65	.80
Hauling	Bushel	5.10	.05	.26
Total harvest cost per harvested acre	Acre	1.00	---	3.13
Total harvest cost per planted acre (97 percent harvested)	do.	1.00	---	3.04
Total variable costs per planted acre	do.	1.00	---	13.08

Yield per acre planted 22.5 bushel
Yield per acre harvested 23.2 bushel

1/ Harvesting costs reflect 22 percent custom combined and hauled and 78 percent combined and hauled with owned equipment.

Table 13.--Durum wheat on fallow: Estimated inputs and variable costs for Central North Dakota Area B

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	1.74	1.47	2.56
Seed, 33 percent purchased	Bushel	1.30	2.17	2.82
Fertilizer:				
Available nitrogen	Pound	2.00	.10	.20
Available phosphorus	do.	5.00	.24	1.20
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	1.88
Equipment (lubricant and repair)	do.	---	---	.66
Pesticides:				
Materials (various)	Acre	.95	.34	.32
Custom application	do.	.48	1.00	.48
Insurance, hail and FCIC	Dollar	---	---	.43
Interest on operating expense, 6 months at 7 percent	do.	7.99	.035	.28
Total preharvest cost	Acre	1.00	---	10.83
Harvest costs:[1/]				
Labor, regular	Hour	.72	1.47	1.06
Power and equipment:				
Swather (fuel, lubricant, and repair)	Dollar	---	---	.29
Combine (fuel, lubricant, and repair)	do.	---	---	.64
Truck (fuel, lubricant, and repair)	do.	---	---	.25
Custom hire:				
Combining	Acre	.21	3.85	.81
Hauling	Bushel	5.80	.05	.29
Total harvest cost per harvested acre	Acre	1.00	---	3.34
Total harvest cost per planted acre (97 percent harvested)	do.	1.00	---	3.24
Total variable costs per planted acre	do.	1.00	---	14.07

Yield per acre planted 26.9 bushel
Yield per acre harvested 27.7 bushel

1/ Harvesting costs reflect 21 percent custom combined and hauled and 79 percent combined and hauled with owned equipment.

Table 14.--Durum wheat on fallow: Estimated inputs and variable costs for Eastern North Dakota Area C

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	1.86	1.47	2.73
Seed, 35 percent purchased	Bushel	1.30	2.21	2.87
Fertilizer:				
Available nitrogen	Pound	12.00	.10	1.20
Available phosphorus	do.	14.00	.24	3.36
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	2.00
Equipment (lubricant and repair)	do.	---	---	.72
Pesticides:				
Materials (various)	Acre	.98	.35	.34
Custom application	do.	.58	1.00	.58
Insurance, hail and FCIC	Dollar	---	---	.44
Interest on operating expense, 6 months at 7 percent	do.	11.51	.035	.40
Total preharvest cost	Acre	1.00	---	14.64
Harvest costs:[1/]				
Labor, regular	Hour	.87	1.47	1.28
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	.16
Equipment (fuel, lubricant, and repair)	do.	---	---	.85
Truck (fuel, lubricant, and repair)	do.	---	---	.32
Custom hire:				
Combining	Acre	.18	4.00	.72
Hauling	Bushel	5.50	.05	.28
Total harvest cost per harvested acre	Acre	1.00	---	3.61
Total harvest cost per planted acre (97 percent harvested)	do.	1.00	---	3.50
Total variable costs per planted acre	do.	1.00	---	18.14

Yield per acre planted 29.7 bushel
Yield per acre harvested 30.6 bushel

1/ Harvesting costs reflect 18 percent custom combined and hauled and 82 percent combined and hauled with owned equipment.

Table 15.--Durum wheat: Estimated inputs and variable costs for Western North Dakota Area A

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	.85	1.47	1.25
Seed, 33 percent purchased	Bushel	1.20	2.19	2.63
Fertilizer:				
Available nitrogen	Pound	7.00	.10	.70
Available phosphorus	do.	5.00	.24	1.20
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	.84
Equipment (lubricant and repair)	do.	---	---	.39
Pesticides:				
Materials (various)	Acre	.92	.30	.28
Custom application	do.	.46	1.00	.46
Insurance, hail and FCIC	Dollar	---	---	.31
Interest on operating expense, 6 months at 7 percent	do.	6.81	.035	.24
Total preharvest cost	Acre	1.00	---	8.30
Harvest costs:[1/]				
Labor, regular	Hour	.65	1.47	.96
Power and equipment:				
Swather (fuel, lubricant, and repair)	Dollar	---	---	.21
Combine (fuel, lubricant, and repair)	do.	---	---	.66
Truck (fuel, lubricant, and repair)	do.	---	---	.24
Custom hire:				
Combining	Acre	.22	3.50	.77
Hauling	Bushel	4.10	.05	.20
Total harvest cost per harvested acre	Acre	1.00	---	3.04
Total harvest cost per planted acre (95 percent harvested)	do.	1.00	---	2.89
Total variable costs per planted acre	do.	1.00	---	11.19

Yield per acre planted 17.8 bushel
Yield per acre harvested 18.7 bushel

1/ Harvesting costs reflect 22 percent custom combined and hauled and 78 percent combined and hauled with owned equipment.

Table 16.--Durum wheat: Estimated inputs and variable costs for Central North Dakota Area B

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	.91	1.47	1.34
Seed, 33 percent purchased	Bushel	1.30	2.17	2.82
Fertilizer:				
Available nitrogen	Pound	8.00	.10	.80
Available phosphorus	do.	5.00	.24	1.20
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	.94
Equipment (lubricant and repair)	do.	---	---	.40
Pesticides:				
Materials (various)	Acre	.95	.34	.32
Custom application	do.	.48	1.00	.48
Insurance, hail and FCIC	Dollar	---	---	.35
Interest on operating expense, 6 months at 7 percent	do.	7.31	.035	.26
Total preharvest cost	Acre	1.00	---	8.91
Harvest costs:[1/]				
Labor, regular	Hour	.72	1.47	1.06
Power and equipment:				
Swather (fuel, lubricant, and repair)	Dollar	---	---	.29
Combine (fuel, lubricant, and repair)	do.	---	---	.64
Truck (fuel, lubricant, and repair)	do.	---	---	.25
Custom hire:				
Combining	Acre	.22	3.50	.77
Hauling	Bushel	4.40	.05	.22
Total harvest cost per harvested acre	Acre	1.00	---	3.23
Total harvest cost per planted acre (97 percent harvested)	do.	1.00	---	3.13
Total variable costs per planted acre	do.	1.00	---	12.04

Yield per acre planted 19.3 bushel
Yield per acre harvested 19.9 bushel

1/ Harvesting costs reflect 22 percent custom combined and hauled and 78 percent combined and hauled with owned equipment.

Table 17.--Durum wheat: Estimated inputs and variable costs for Eastern North Dakota Area C

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	1.39	1.47	2.04
Seed, 35 percent purchased	Bushel	1.30	2.21	2.87
Fertilizer:				
Available nitrogen	Pound	20.00	.10	2.00
Available phosphorus	do.	12.00	.24	2.88
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	1.39
Equipment (lubricant and repair)	do.	---	---	.48
Pesticides:				
Materials (various)	Acre	.98	.35	.34
Custom application	do.	.50	1.00	.50
Insurance, hail and FCIC	Dollar	---	---	.37
Interest on operating expense, 6 months at 7 percent	do.	10.83	.035	.38
Total preharvest cost	Acre	1.00	---	13.25
Harvest costs:[1/]				
Labor, regular	Hour	.87	1.47	1.28
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	.16
Equipment (fuel, lubricant, and repair)	do.	---	---	.85
Truck (fuel, lubricant, and repair)	do.	---	---	.32
Custom hire:				
Combining	Acre	.18	3.80	.68
Hauling	Bushel	4.90	.05	.24
Total harvest cost per harvested acre	Acre	1.00	---	3.53
Total harvest cost per planted acre (97 percent harvested	do.	1.00	---	3.42
Total variable costs per planted acre	do.	1.00	---	16.67

Yield per acre planted 26.2 bushel
Yield per acre harvested 27.0 bushel

1/ Harvesting costs reflect 18 percent custom combined and hauled and 82 percent combined and hauled with owned equipment.

Table 18.--Other spring wheat on fallow: Estimated inputs and variable costs for Western North Dakota Area A

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	1.43	1.47	2.10
Seed, 33 percent purchased	Bushel	1.00	2.13	2.13
Fertilizer:				
Available nitrogen	Pound	1.00	.10	.10
Available phosphorus	do.	7.00	.24	1.68
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	1.55
Equipment (lubricant and repair)	do.	---	---	.58
Pesticides:				
Materials (various)	Acre	.92	.30	.28
Custom application	do.	.46	1.00	.46
Insurance, hail and FCIC	Dollar	---	---	.39
Interest on operating expense, 6 months at 7 percent	do.	7.17	.035	.25
Total preharvest cost	Acre	1.00	---	9.52
Harvest costs:[1/]				
Labor, regular	Hour	.65	1.47	.96
Power and equipment:				
Swather (fuel, lubricant, and repair)	Dollar	---	---	.21
Combine (fuel, lubricant, and repair)	do.	---	---	.66
Truck (fuel, lubricant, and repair)	do.	---	---	.24
Custom hire:				
Combining	Acre	.22	3.50	.77
Hauling	Bushel	4.50	.05	.22
Total harvest cost per harvested acre	Acre	1.00	---	3.06
Total harvest cost per planted acre (97 percent harvested)	do.	1.00	---	2.97
Total variable costs per planted acre	do.	1.00	---	12.49

Yield per acre planted 19.8 bushel
Yield per acre harvested 20.4 bushel

1/ Harvesting costs reflect 22 percent custom combined and hauled and 78 percent combined and hauled with owned equipment.

Table 19.--Other spring wheat on fallow: Estimated inputs and variable costs for Central North Dakota Area B

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	1.74	1.47	2.56
Seed, 33 percent purchased	Bushel	1.10	2.12	2.33
Fertilizer:				
Available nitrogen	Pound	2.00	.10	.20
Available phosphorus	do.	5.00	.24	1.20
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	1.88
Equipment (lubricant and repair)	do.	---	---	.66
Pesticides:				
Materials (various)	Acre	.95	.34	.32
Custom application	do.	.48	1.00	.48
Insurance, hail and FCIC	Dollar	---	---	.43
Interest on operating expense, 6 months at 7 percent	do.	7.50	.035	.26
Total preharvest cost	Acre	1.00	---	10.32
Harvest costs:[1/]				
Labor, regular	Hour	.72	1.47	1.06
Power and equipment:				
Swather (fuel, lubricant, and repair)	Dollar	---	---	.29
Combine (fuel, lubricant, and repair)	do.	---	---	.64
Truck (fuel, lubricant, and repair)	do.	---	---	.25
Custom hire:				
Combining	Acre	.21	3.70	.78
Hauling	Bushel	5.10	.05	.26
Total harvest cost per harvested acre	Acre	1.00	---	3.28
Total harvest cost per planted acre (97 percent harvested)	do.	1.00	---	3.18
Total variable costs per planted acre	do.	1.00	---	13.50

Yield per acre planted 23.5 bushel
Yield per acre harvested 24.2 bushel

1/ Harvesting costs reflect 21 percent custom combined and hauled and 79 percent combined and hauled with owned equipment.

Table 20.--Other spring wheat on fallow: Estimated inputs and variable costs for Eastern North Dakota Area C

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	1.86	1.47	2.73
Seed, 35 percent purchased	Bushel	1.10	2.13	2.34
Fertilizer:				
Available nitrogen	Pound	12.00	.10	1.20
Available phosphorus	do.	14.00	.24	3.36
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	2.00
Equipment (lubricant and repair)	do.	---	---	.72
Pesticides:				
Materials (various)	Acre	.98	.35	.34
Custom application	do.	.50	1.00	.50
Insurance, hail and FCIC	Dollar	---	---	.44
Interest on operating expense, 6 months at 7 percent	do.	10.90	.035	.38
Total preharvest cost	Acre	1.00	---	14.01
Harvest costs:[1/]				
Labor, regular	Hour	.87	1.47	1.28
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	.16
Equipment (fuel, lubricant, and repair)	do.	---	---	.85
Truck (fuel, lubricant, and repair)	do.	---	---	.32
Custom hire:				
Combining	Acre	.18	3.90	.70
Hauling	Bushel	5.20	.05	.26
Total harvest cost per harvested acre	Acre	1.00	---	3.57
Total harvest cost per planted acre (97 percent harvested	do.	1.00	---	3.46
Total variable costs per planted acre	do.	1.00	---	17.47

Yield per acre planted 28.1 bushel
Yield per acre harvested 29.0 bushel

1/ Harvesting costs reflect 18 percent custom combined and hauled and 82 percent combined and hauled with owned equipment.

Table 21.--Other spring wheat on fallow: Estimated inputs and variable costs for Northern South Dakota Area D

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	1.82	1.39	2.53
Seed, 25 percent purchased	Bushel	1.00	2.42	2.42
Fertilizer:				
Available nitrogen	Pound	2.00	.10	.20
Available phosphorus	do.	5.00	.24	1.20
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	1.97
Equipment (lubricant and repair)	do.	---	---	.61
Pesticides:				
Materials (various)	Acre	.80	.45	.36
Custom application	do.	.38	.90	.34
Insurance, hail and FCIC	Dollar	---	---	.39
Interest on operating expense, 6 months at 7 percent	do.	7.49	.035	.26
Total preharvest cost	Acre	1.00	---	10.28
Harvest costs:[1/]				
Labor, regular	Hour	.64	1.39	.89
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	.09
Equipment (fuel, lubricant, and repair)	do.	---	---	.72
Truck (fuel, lubricant, and repair)	do.	---	---	.27
Custom hire:				
Combining	Acre	.35	3.80	1.33
Hauling	Bushel	7.50	.05	.38
Total harvest cost per harvested acre	Acre	1.00	---	3.68
Total harvest cost per planted acre (96 percent harvested)	do.	1.00	---	3.53
Total variable costs per planted acre	do.	1.00	---	13.81

Yield per acre planted 20.5 bushel
Yield per acre harvested 21.4 bushel

1/ Harvesting costs reflect 35 percent custom combined and hauled and 65 percent combined and hauled with owned equipment.

Table 22.--Other spring wheat on fallow: Estimated inputs and variable costs for Southwestern South Dakota Area E

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	1.62	1.39	2.25
Seed, 25 percent purchased	Bushel	.75	2.41	1.81
Fertilizer:				
Available nitrogen	Pound	2.00	.10	.20
Available phosphorus	do.	5.00	.24	1.20
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	1.76
Equipment (lubricant and repair)	do.	---	---	.54
Pesticides:				
Materials (various)	Acre	.66	.45	.30
Custom application	do.	.58	.90	.52
Insurance, hail and FCIC	Dollar	---	---	.35
Interest on operating expense, 6 months at 7 percent	do.	6.68	.035	.23
Total preharvest cost	Acre	1.00	---	9.16
Harvest costs:[1/]				
Labor, regular	Hour	.42	1.39	.58
Power and equipment:				
Combine (fuel, lubricant, and repair)	Dollar	---	---	.52
Truck (fuel, lubricant, and repair)	do.	---	---	.25
Custom hire:				
Combining	Acre	.37	4.00	1.48
Hauling	Bushel	7.00	.05	.35
Total harvest cost per harvested acre	Acre	1.00	---	3.18
Total harvest cost per planted acre (96 percent harvested)	do.	1.00	---	3.05
Total variable costs per planted acre	do.	1.00	---	12.21

Yield per acre planted 18.1 bushel
Yield per acre harvested 18.8 bushel

1/ Harvesting costs reflect 37 percent custom combined and hauled and 63 percent combined and hauled with owned equipment.

Table 23.--Other spring wheat on fallow: Estimated inputs and variable costs for Southeastern South Dakota Area F

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	1.78	1.39	2.47
Seed, 25 percent purchased	Bushel	1.25	2.42	3.03
Fertilizer:				
Available nitrogen	Pound	1.00	.10	.10
Available phosphorus	do.	4.00	.24	.96
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	1.92
Equipment (lubricant and repair)	do.	---	---	.59
Pesticides:				
Materials (various)	Acre	.70	.45	.32
Custom application	do.	.31	.93	.29
Insurance, hail and FCIC	Dollar	---	---	.17
Interest on operating expense, 6 months at 7 percent.	do.	7.38	.035	.26
Total preharvest cost	Acre	1.00	---	10.11
Harvest costs:[1/]				
Labor, regular	Hour	.79	1.39	1.10
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	.22
Equipment (fuel, lubricant, and repair)	do.	---	---	.78
Truck (fuel, lubricant, and repair)	do.	---	---	.30
Custom hire:				
Combining	Acre	.30	3.75	1.13
Hauling	Bushel	6.60	.05	.33
Total harvest cost per harvested acre	Acre	1.00	---	3.86
Total harvest cost per planted acre (97 percent harvested)	do.	1.00	---	3.74
Total variable costs per planted acre	do.	1.00	---	13.85

Yield per acre planted 21.4 bushel
Yield per acre harvested 22.1 bushel

1/ Harvesting costs reflect 30 percent custom combined and hauled and 70 percent combined and hauled with owned equipment.

Table 24.--Other spring wheat on fallow: Estimated inputs and variable costs for Eastern Wyoming Area G

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	1.37	1.32	1.81
Seed, 50 percent purchased	Bushel	.80	2.18	1.74
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	1.12
Equipment (lubricant and repair)	do.	---	---	.36
Pesticides:				
Materials (various)	Acre	.20	.65	.13
Custom application	do.	.10	1.20	.12
Insurance, hail and FCIC	Dollar	---	---	.24
Interest on operating expense, 6 months at 7 percent	do.	3.71	.035	.13
Total preharvest cost	Acre	1.00	---	5.65
Harvest costs:[1/]				
Labor, regular	Hour	.37	1.32	.49
Power and equipment:				
Combine (fuel, lubricant, and repair)	Dollar	---	---	.46
Truck (fuel, lubricant, and repair)	do.	---	---	.22
Custom hire:				
Combining	Acre	.28	3.60	1.01
Hauling	Bushel	4.90	.06	.29
Total harvest cost per harvested acre	Acre	1.00	---	2.47
Total harvest cost per planted acre (90 percent harvested)	do.	1.00	---	2.22
Total variable costs per planted acre	do.	1.00	---	7.87

Yield per acre planted	15.8 bushel
Yield per acre harvested	17.6 bushel

1/ Harvesting costs reflect 28 percent custom combined and hauled and 72 percent combined and hauled with owned equipment.

Table 25.--Other spring wheat on fallow: Estimated inputs and variable costs for Northeastern Colorado Area N

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	1.10	1.38	1.52
Seed, 50 percent purchased	Bushel	.60	2.13	1.28
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	1.10
Equipment (lubricant and repair)	do.	---	---	.35
Pesticides:				
Materials (various)	Acre	.34	.70	.24
Custom application	do.	.20	1.20	.24
Insurance, hail and FCIC	Dollar	---	---	.09
Interest on operating expense, 6 months at 7 percent	do.	3.30	.035	.12
Total preharvest cost	Acre	1.00	---	4.94
Harvest costs:1/				
Labor, regular	Hour	.34	1.38	.47
Power and equipment:				
Combine (fuel, lubricant, and repair)	Dollar	---	---	.42
Truck (fuel, lubricant, and repair)	do.	---	---	.16
Custom hire:				
Combining	Acre	.33	3.66	1.21
Hauling	Bushel	6.10	.06	.37
Total harvest cost per harvested acre	Acre	1.00	---	2.63
Total harvest cost per planted acre (80 percent harvested)	do.	1.00	---	2.10
Total variable costs per planted acre	do.	1.00	---	7.04

Yield per acre planted 14.8 bushel
Yield per acre harvested 18.5 bushel

1/ Harvesting costs reflect 33 percent custom combined and hauled and 67 percent combined and hauled with owned equipment.

Table 26.--Other spring wheat: Estimated inputs and variable costs for Western North Dakota Area A

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	.85	1.47	1.25
Seed, 33 percent purchased	Bushel	1.00	2.13	2.13
Fertilizer:				
Available nitrogen	Pound	7.00	.10	.70
Available phosphorus	do.	5.00	.24	1.20
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	.84
Equipment (lubricant and repair)	do.	---	---	.39
Pesticides:				
Materials (various)	Acre	.92	.30	.28
Custom application	do.	.46	1.00	.46
Insurance, hail and FCIC	Dollar	---	---	.31
Interest on operating expense, 6 months at 7 percent	do.	6.31	.035	.22
Total preharvest cost	Acre	1.00	---	7.78
Harvest costs: 1/				
Labor, regular	Hour	.65	1.47	.96
Power and equipment:				
Swather (fuel, lubricant, and repair)	Dollar	---	---	.21
Combine (fuel, lubricant, and repair)	do.	---	---	.66
Truck (fuel, lubricant, and repair)	do.	---	---	.24
Custom hire:				
Combining	Acre	.22	3.50	.77
Hauling	Bushel	3.40	.05	.17
Total harvest cost per harvested acre	Acre	1.00	---	3.01
Total harvest cost per planted acre (93 percent harvested)	do.	1.00	---	2.80
Total variable costs per planted acre	do.	1.00	---	10.58

Yield per acre planted	14.6 bushel
Yield per acre harvested	15.7 bushel

1/ Harvesting costs reflect 22 percent custom combined and hauled and 78 percent combined and hauled with owned equipment.

Table 27.--Other spring wheat: Estimated inputs and variable costs for Central North Dakota Area B

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	.91	1.47	1.34
Seed, 33 percent purchased	Bushel	1.10	2.12	2.33
Fertilizer:				
Available nitrogen	Pound	8.00	.10	.80
Available phosphorus	do.	5.00	.24	1.20
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	.94
Equipment (lubricant and repair)	do.	---	---	.40
Pesticides:				
Materials (various)	Acre	.95	.34	.32
Custom application	do.	.48	1.00	.48
Insurance, hail and FCIC	Dollar	---	---	.35
Interest on operating expense, 6 months at 7 percent	do.	6.82	.035	.24
Total preharvest cost	Acre	1.00	---	8.40
Harvest costs:[1/]				
Labor, regular	Hour	.72	1.47	1.06
Power and equipment:				
Swather (fuel, lubricant, and repair)	Dollar	---	---	.29
Combine (fuel, lubricant, and repair)	do.	---	---	.64
Truck (fuel, lubricant, and repair)	do.	---	---	.25
Custom hire:				
Combining	Acre	.21	3.50	.74
Hauling	Bushel	3.40	.05	.17
Total harvest cost per harvested acre	Acre	1.00	---	3.15
Total harvest cost per planted acre (96 percent harvested)	do.	1.00	---	3.02
Total variable costs per planted acre	do.	1.00	---	11.42

Yield per acre planted 15.5 bushel
Yield per acre harvested 16.1 bushel

1/ Harvesting costs reflect 21 percent custom combined and hauled and 79 percent combined and hauled with owned equipment.

Table 28.--Other spring wheat: Estimated inputs and variable costs for Eastern North Dakota Area C

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	1.39	1.47	2.04
Seed, 35 percent purchased	Bushel	1.10	2.13	2.34
Fertilizer:				
Available nitrogen	Pound	20.00	.10	2.00
Available phosphorus	do.	12.00	.24	2.88
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	1.39
Equipment (lubricant and repair)	do.	---	---	.48
Pesticides:				
Materials (various)	Acre	.98	.35	.34
Custom application	do.	.50	1.00	.50
Insurance, hail and FCIC	Dollar	---	---	.37
Interest on operating expense, 6 months at 7 percent	do.	10.30	.035	.36
Total preharvest cost	Acre	1.00	---	12.70
Harvest costs:[1/]				
Labor, regular	Hour	.87	1.47	1.28
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	.16
Equipment (fuel, lubricant, and repair)	do.	---	---	.85
Truck (fuel, lubricant, and repair)	do.	---	---	.32
Custom hire:				
Combining	Acre	.18	3.75	.68
Hauling	Bushel	4.60	.05	.23
Total harvest cost per harvested acre	Acre	1.00	---	3.52
Total harvest cost per planted acre (97 percent harvested)	do.	1.00	---	3.41
Total variable costs per planted acre	do.	1.00	---	16.11

Yield per acre planted 24.6 bushel
Yield per acre harvested 25.4 bushel

1/ Harvesting costs reflect 18 percent custom combined and hauled and 82 percent combined and hauled with owned equipment.

Table 29.--Other spring wheat: Estimated inputs and variable costs for Northern South Dakota Area D

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	.99	1.39	1.38
Seed, 25 percent purchased	Bushel	1.00	2.42	2.42
Fertilizer:				
Available nitrogen	Pound	7.00	.10	.70
Available phosphorus	do.	5.00	.24	1.20
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	1.07
Equipment (lubricant and repair)	do.	---	---	.36
Pesticides:				
Materials (various)	Acre	.85	.45	.38
Custom application	do.	.40	.90	.36
Insurance, hail and FCIC	Dollar	---	---	.34
Interest on operating expense, 6 months at 7 percent	do.	6.83	.035	.24
Total preharvest cost	Acre	1.00	---	8.45
Harvest costs:[1/]				
Labor, regular	Hour	.64	1.39	.89
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	.09
Equipment (fuel, lubricant, and repair)	do.	---	---	.72
Truck (fuel, lubricant, and repair)	do.	---	---	.27
Custom hire:				
Combining	Acre	.35	3.80	1.33
Hauling	Bushel	5.50	.05	.28
Total harvest cost per harvested acre	Acre	1.00	---	3.58
Total harvest cost per planted acre (94 percent harvested)	do.	1.00	---	3.37
Total variable costs per planted acre	do.	1.00	---	11.82

Yield per acre planted	14.7 bushel
Yield per acre harvested	15.6 bushel

1/ Harvesting costs reflect 35 percent custom combined and hauled and 65 percent combined and hauled with owned equipment.

Table 30.--Other spring wheat: Estimated inputs and variable costs for Southwestern South Dakota Area E

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	1.13	1.39	1.57
Seed, 25 percent purchased	Bushel	.75	2.41	1.81
Fertilizer:				
Available nitrogen	Pound	7.00	.10	.70
Available phosphorus	do.	5.00	.24	1.20
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	1.19
Equipment (lubricant and repair)	do.	---	---	.38
Pesticides:				
Materials (various)	Acre	.75	.45	.34
Custom application	do.	.67	.90	.60
Insurance, hail and FCIC	Dollar	---	---	.33
Interest on operating expense, 6 months at 7 percent	do.	6.55	.035	.23
Total preharvest cost	Acre	1.00	---	8.35
Harvest costs:1/				
Labor, regular	Hour	.42	1.39	.58
Power and equipment:				
Combine (fuel, lubricant, and repair)	Dollar	---	---	.52
Truck (fuel, lubricant, and repair)	do.	---	---	.25
Custom hire:				
Combining	Acre	.37	4.00	1.48
Hauling	Bushel	5.60	.05	.28
Total harvest cost per harvested acre	Acre	1.00	---	3.11
Total harvest cost per planted acre (94 percent harvested)	do.	1.00	---	2.92
Total variable costs per planted acre	do.	1.00	---	11.27

Yield per acre planted	14.2 bushel
Yield per acre harvested	15.1 bushel

1/ Harvesting costs reflect 37 percent custom combined and hauled and 63 percent combined and hauled with owned equipment.

Table 31.--Other spring wheat: Estimated inputs and variable costs for Southeastern South Dakota Area F

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	1.29	1.39	1.79
Seed, 25 percent purchased	Bushel	1.25	2.42	3.03
Fertilizer:				
Available nitrogen	Pound	7.00	.10	.70
Available phosphorus	do.	3.00	.24	.72
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	1.32
Equipment (lubricant and repair)	do.	---	---	.43
Pesticides:				
Materials (various)	Acre	.70	.45	.32
Custom application	do.	.31	.93	.29
Insurance, hail and FCIC	Dollar	---	---	.17
Interest on operating expense, 6 months at 7 percent	do.	6.98	.035	.24
Total preharvest cost	Acre	1.00	---	9.01
Harvest costs:[1/]				
Labor, regular	Hour	.79	1.39	1.10
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	.22
Equipment (fuel, lubricant, and repair)	do.	---	---	.78
Truck (fuel, lubricant, and repair)	do.	---	---	.30
Custom hire:				
Combining	Acre	.30	3.75	1.13
Hauling	Bushel	5.30	.05	.27
Total harvest cost per harvested acre	Acre	1.00	---	3.80
Total harvest cost per planted acre (97 percent harvested)	do.	1.00	---	3.69
Total variable costs per planted acre	do.	1.00	---	12.70

Yield per acre planted 17.1 bushel
Yield per acre harvested 17.6 bushel

1/ Harvesting costs reflect 30 percent custom combined and hauled and 70 percent combined and hauled with owned equipment.

Table 32.--Other spring wheat: Estimated inputs and variable costs for Eastern Wyoming Area G

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	.82	1.32	1.08
Seed, 50 percent purchased	Bushel	.80	2.18	1.74
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	.64
Equipment (lubricant and repair)	do.	---	---	.25
Pesticides:				
Materials (various)	Acre	.20	.65	.13
Custom application	do.	.10	1.20	.12
Insurance, hail and FCIC	Dollar	---	---	.21
Interest on operating expense, 6 months at 7 percent	do.	3.09	.035	.11
Total preharvest cost	Acre	1.00	---	4.28
Harvest costs:[1/]				
Labor, regular	Hour	.32	1.32	.42
Power and equipment:				
Combine (fuel, lubricant, and repair)	Dollar	---	---	.40
Truck (fuel, lubricant, and repair)	do.	---	---	.18
Custom hire:				
Combining	Acre	.28	3.50	.98
Hauling	Bushel	3.60	.06	.22
Total harvest cost per harvested acre	Acre	1.00	---	2.20
Total harvest cost per planted acre (75 percent harvested)	do.	1.00	---	1.65
Total variable costs per planted acre	do.	1.00	---	5.93

Yield per acre planted	9.7 bushel
Yield per acre harvested	12.9 bushel

1/ Harvesting costs reflect 28 percent custom combined and hauled and 72 percent combined and hauled with owned equipment.

Table 33.--Irrigated other spring wheat: Estimated inputs and variable costs for Wyoming Irrigated Area H

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	4.32	1.32	5.70
Seed, 50 percent purchased	Bushel	1.50	2.18	3.27
Fertilizer:				
Available nitrogen	Pound	18.00	.085	1.53
Available phosphorus	do.	3.00	.24	.72
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	2.10
Equipment (lubricant and repair)	do.	---	---	1.05
Irrigation system (fuel, lubricant, and repair)	Acre inch	12.00	.25	3.00
Pesticides:				
Materials (various)	Acre	.20	.65	.13
Custom application	do.	.08	1.20	.10
Insurance, hail and FCIC	Dollar	---	---	.31
Interest on operating expense, 6 months at 7 percent	do.	12.21	.035	.43
Total preharvest cost	Acre	1.00	---	18.34
Harvest costs:[1/]				
Labor, regular	Hour	.74	1.32	.98
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	.17
Combine (fuel, lubricant, and repair)	do.	---	---	.80
Truck (fuel, lubricant, and repair)	do.	---	---	.38
Custom hire:				
Combining	Acre	.24	4.75	1.14
Hauling	Bushel	7.56	.06	.45
Total harvest cost per harvested acre	Acre	1.00	---	3.92
Total harvest cost per planted acre (93 percent harvested)	do.	1.00	---	3.65
Total variable costs per planted acre	do.	1.00	---	21.99

Yield per acre planted 29.3 bushel
Yield per acre harvested 31.5 bushel

1/ Harvesting costs reflect 24 percent custom combined and hauled and 76 percent combined and hauled with owned equipment.

Table 34.--Irrigated other spring wheat: Estimated inputs and variable costs for Colorado Irrigated Area R

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	4.00	1.38	5.52
Seed, 50 percent purchased	Bushel	1.40	2.13	2.98
Fertilizer:				
Available nitrogen	Pound	47.00	.085	4.00
Available phosphorus	do.	4.00	.24	.96
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	1.97
Equipment (lubricant and repair)	do.	---	---	.98
Irrigation system (fuel, lubricant, and repair)	Acre inch	12.00	.25	3.00
Pesticides:				
Materials (various)	Acre	.34	.70	.24
Custom application	do.	.20	1.20	.24
Interest on operating expense, 6 months at 7 percent	Dollar	14.37	.035	.50
Total preharvest cost	Acre	1.00	---	20.39
Harvest costs:[1/]				
Labor, regular	Hour	.62	1.38	.86
Power and equipment:				
Combine (fuel, lubricant, and repair)	Dollar	---	---	.79
Truck (fuel, lubricant, and repair)	do.	---	---	.23
Custom hire:				
Combining	Acre	.35	4.60	1.61
Hauling	Bushel	13.23	.06	.79
Total harvest cost per harvested acre	Acre	1.00	---	4.28
Total harvest cost per planted acre (90 percent harvested)	do.	1.00	---	3.85
Total variable costs per planted acre	do.	1.00	---	24.24

Yield per acre planted 34.0 bushel
Yield per acre harvested 37.8 bushel

1/ Harvesting costs reflect 35 percent custom combined and hauled and 65 percent combined and hauled with owned equipment.

Table 35.--Winter wheat on fallow: Estimated inputs and variable costs for Northern South Dakota Area D

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	1.79	1.39	2.49
Seed, 25 percent purchased	Bushel	1.00	2.42	2.42
Fertilizer:				
Available nitrogen	Pound	2.00	.10	.20
Available phosphorus	do.	5.00	.24	1.20
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	1.93
Equipment (lubricant and repair)	do.	---	---	.60
Pesticides:				
Materials (various)	Acre	.65	.45	.29
Custom application	do.	.25	.90	.23
Insurance, hail and FCIC	Dollar	---	---	.39
Interest on operating expense, 6 months at 7 percent	do.	7.26	.035	.25
Total preharvest cost	Acre	1.00	---	10.00
Harvest costs:[1/]				
Labor, regular	Hour	.64	1.39	.89
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	.09
Equipment (fuel, lubricant, and repair)	do.	---	---	.72
Truck (fuel, lubricant, and repair)	do.	---	---	.27
Custom hire:				
Combining	Acre	.35	3.80	1.33
Hauling	Bushel	9.10	.05	.46
Total harvest cost per harvested acre	Acre	1.00	---	3.76
Total harvest cost per planted acre (80 percent harvested)	do.	1.00	---	3.01
Total variable costs per planted acre	do.	1.00	---	13.01

Yield per acre planted	20.8 bushel
Yield per acre harvested	26.0 bushel

1/ Harvesting costs reflect 35 percent custom combined and hauled and 65 percent combined and hauled with owned equipment.

Table 36.--Winter wheat on fallow: Estimated inputs and variable costs for Southwestern South Dakota Area E

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	1.62	1.39	2.25
Seed, 25 percent purchased	Bushel	.75	2.41	1.81
Fertilizer:				
Available nitrogen	Pound	5.00	.10	.50
Available phosphorus	do.	3.00	.24	.72
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	1.76
Equipment (lubricant and repair)	do.	---	---	.54
Pesticides:				
Materials (various)	Acre	.50	.45	.23
Custom application	do.	.29	.90	.26
Insurance, hail and FCIC	Dollar	---	---	.35
Interest on operating expense, 6 months at 7 percent	do.	6.17	.035	.22
Total preharvest cost	Acre	1.00	---	8.64
Harvest costs: 1/				
Labor, regular	Hour	.42	1.39	.58
Power and equipment:				
Combine (fuel, lubricant, and repair)	Dollar	---	---	.52
Truck (fuel, lubricant, and repair)	do.	---	---	.25
Custom hire:				
Combining	Acre	.37	4.00	1.48
Hauling	Bushel	10.10	.05	.51
Total harvest cost per harvested acre	Acre	1.00	---	3.34
Total harvest cost per planted acre (85 percent harvested)	do.	1.00	---	2.84
Total variable costs per planted acre	do.	1.00	---	11.48

Yield per acre planted	23.1 bushel
Yield per acre harvested	27.2 bushel

1/ Harvesting costs reflect 37 percent custom combined and hauled and 63 percent combined and hauled with owned equipment.

Table 37.--Winter wheat on fallow: Estimated inputs and variable costs for Eastern Wyoming Area G

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	1.20	1.32	1.58
Seed, 50 percent purchased	Bushel	.64	2.00	1.28
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	1.10
Equipment (lubricant and repair)	do.	---	---	.35
Pesticides:				
Materials (various)	Acre	.15	.65	.10
Custom application	do.	.10	1.20	.12
Insurance, hail and FCIC	Dollar	---	---	.26
Interest on operating expense, 6 months at 7 percent	do.	3.21	.035	.11
Total preharvest cost	Acre	1.00	---	4.90
Harvest costs:[1/]				
Labor, regular	Hour	.37	1.32	.49
Power and equipment:				
Combine (fuel, lubricant, and repair)	Dollar	---	---	.46
Truck (fuel, lubricant, and repair)	do.	---	---	.22
Custom hire:				
Combining	Acre	.28	3.89	1.09
Hauling	Bushel	6.22	.06	.37
Total harvest cost per harvested acre	Acre	1.00	---	2.63
Total harvest cost per planted acre (86 percent harvested)	do.	1.00	---	2.26
Total variable costs per planted acre	do.	1.00	---	7.16

Yield per acre planted	19.1 bushel
Yield per acre harvested	22.2 bushel

1/ Harvesting costs reflect 28 percent custom combined and hauled and 72 percent combined and hauled with owned equipment.

Table 38.--Winter wheat on fallow: Estimated inputs and variable costs for Western Nebraska Area J

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	1.35	1.54	2.08
Seed, 20 percent purchased	Bushel	.70	1.68	1.18
Fertilizer, available nitrogen	Pound	1.00	.11	.11
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	1.14
Equipment (lubricant and repair)	do.	---	---	.46
Pesticides:				
Materials (various)	Acre	.06	.58	.03
Custom application	do.	.04	1.10	.04
Insurance, hail and FCIC	Dollar	---	---	.21
Interest on operating expense, 6 months at 7 percent	do.	3.17	.035	.11
Total preharvest cost	Acre	1.00	---	5.36
Harvest costs:[1/]				
Labor, regular	Hour	.26	1.54	.40
Power and equipment:				
Combine (fuel, lubricant, and repair)	Dollar	---	---	.32
Truck (fuel, lubricant, and repair)	do.	---	---	.13
Custom hire:				
Combining	Acre	.55	3.60	1.98
Hauling	Bushel	14.60	.049	.72
Total harvest cost per harvested acre	Acre	1.00	---	3.55
Total harvest cost per planted acre (86 percent harvested)	do.	1.00	---	3.05
Total variable costs per planted acre	do.	1.00	---	8.41

Yield per acre planted	22.8 bushel
Yield per acre harvested	26.5 bushel

1/ Harvesting costs reflect 55 percent custom combined and hauled and 45 percent combined and hauled with owned equipment.

Table 39.--Winter wheat on fallow: Estimated inputs and variable costs for Central Nebraska Area K

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	1.68	1.54	2.59
Seed, 20 percent purchased	Bushel	.917	1.68	1.54
Fertilizer:				
Available nitrogen	Pound	8.00	.11	.88
Available phosphorus	do.	4.00	.23	.92
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	1.33
Equipment (lubricant and repair)	do.	---	---	.60
Pesticides:				
Materials (various)	Acre	.05	.58	.03
Custom application	do.	.03	1.10	.03
Insurance, hail and FCIC	Dollar	---	---	.22
Interest on operating expense, 6 months at 7 percent	do.	5.55	.035	.19
Total preharvest cost	Acre	1.00	---	8.33
Harvest costs:1/				
Labor, regular	Hour	.44	1.54	.68
Power and equipment:				
Combine (fuel, lubricant, and repair)	Dollar	---	---	.60
Truck (fuel, lubricant, and repair)	do.	---	---	.18
Custom hire:				
Combining	Acre	.35	3.89	1.36
Hauling	Bushel	9.50	.03	.29
Total harvest cost per harvested acre	Acre	1.00	---	3.11
Total harvest cost per planted acre (92 percent harvested)	do.	1.00	---	2.86
Total variable costs per planted acre	do.	1.00	---	11.19

Yield per acre planted 24.9 bushel
Yield per acre harvested 27.1 bushel

1/ Harvesting costs reflect 35 percent custom combined and hauled and 65 percent combined and hauled with owned equipment.

Table 40.--Winter wheat on fallow: Estimated inputs and variable costs for Eastern Nebraska Area L

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	1.88	1.54	2.90
Seed, 20 percent purchased	Bushel	1.333	1.68	2.24
Fertilizer:				
Available nitrogen	Pound	19.00	.11	2.09
Available phosphorus	do.	7.00	.23	1.61
Available potassium	do.	2.00	.05	.10
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	1.42
Equipment (lubricant and repair)	do.	---	---	.53
Pesticides, materials (various)	Acre	.04	.58	.02
Insurance, hail and FCIC	Dollar	---	---	.22
Interest on operating expense, 6 months at 7 percent	do.	8.23	.035	.29
Total preharvest cost	Acre	1.00	---	11.42
Harvest costs:[1/]				
Labor, regular	Hour	.65	1.54	1.00
Power and equipment:				
Combine (fuel, lubricant, and repair)	Dollar	---	---	.88
Truck (fuel, lubricant, and repair)	do.	---	---	.19
Custom hire:				
Combining	Acre	.15	4.38	.66
Hauling	Bushel	4.40	.03	.13
Total harvest cost per harvested acre	Acre	1.00	---	2.86
Total harvest cost per planted acre (96 percent harvested)	do.	1.00	---	2.75
Total variable costs per planted acre	do.	1.00	---	14.17

Yield per acre planted 28.0 bushel
Yield per acre harvested 29.2 bushel

1/ Harvesting costs reflect 15 percent custom combined and hauled and 85 percent combined and hauled with owned equipment.

Table 41.--Winter wheat on fallow: Estimated inputs and variable costs for Northeastern Colorado Area N

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	1.02	1.38	1.41
Seed, 50 percent purchased	Bushel	.50	2.02	1.01
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	1.07
Equipment (lubricant and repair)	do.	---	---	.35
Pesticides:				
Materials (various)	Acre	.22	.70	.15
Custom application	do.	.13	1.20	.16
Insurance, hail and FCIC	Dollar	---	---	.09
Interest on operating expense, 6 months at 7 percent	do.	2.83	.035	.10
Total preharvest cost	Acre	1.00	---	4.34
Harvest costs:1/				
Labor, regular	Hour	.34	1.38	.47
Power and equipment:				
Combine (fuel, lubricant, and repair)	Dollar	---	---	.42
Truck (fuel, lubricant, and repair)	do.	---	---	.16
Custom hire:				
Combining	Acre	.33	3.82	1.26
Hauling	Bushel	7.00	.06	.42
Total harvest cost per harvested acre	Acre	1.00	---	2.73
Total harvest cost per planted acre (81 percent harvested)	do.	1.00	---	2.21
Total variable costs per planted acre	do.	1.00	---	6.55

Yield per acre planted	17.1 bushel
Yield per acre harvested	21.1 bushel

1/ Harvesting costs reflect 33 percent custom combined and hauled and 67 percent combined and hauled with owned equipment.

Table 42.--Winter wheat on fallow: Estimated inputs and variable costs for Southeastern Colorado Area P

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	1.00	1.38	1.38
Seed, 50 percent purchased	Bushel	.50	2.02	1.01
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	1.01
Equipment (lubricant and repair)	do.	---	---	.35
Pesticides:				
Materials (various)	Acre	.16	.70	.11
Custom application	do.	.09	1.20	.11
Interest on operating expense, 6 months at 7 percent	Dollar	2.59	.035	.09
Total preharvest cost	Acre	1.00	---	4.06
Harvest costs: 1/				
Labor, regular	Hour	.27	1.38	.37
Power and equipment:				
Combine (fuel, lubricant, and repair)	Dollar	---	---	.34
Truck (fuel, lubricant, and repair)	do.	---	---	.10
Custom hire:				
Combining	Acre	.39	3.62	1.41
Hauling	Bushel	7.00	.06	.42
Total harvest cost per harvested acre	Acre	1.00	---	2.64
Total harvest cost per planted acre (57 percent harvested)	do.	1.00	---	1.50
Total variable costs per planted acre	do.	1.00	---	5.56

Yield per acre planted	10.2 bushel
Yield per acre harvested	17.9 bushel

1/ Harvesting costs reflect 39 percent custom combined and hauled and 61 percent combined and hauled with owned equipment.

Table 43.--Winter wheat on fallow: Estimated inputs and variable costs for Western Kansas Area S

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	1.34	1.53	2.05
Seed, 20 percent purchased	Bushel	.60	1.62	.97
Fertilizer, available nitrogen	Pound	1.00	.11	.11
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	1.14
Equipment (lubricant and repair)	do.	---	---	.46
Pesticides:				
Materials (various)	Acre	.08	.70	.06
Custom application	do.	.04	1.10	.04
Insurance, hail and FCIC	Dollar	---	---	.27
Interest on operating expense, 6 months at 7 percent	do.	3.05	.035	.11
Total preharvest cost	Acre	1.00	---	5.21
Harvest costs:[1/]				
Labor, regular	Hour	.30	1.53	.46
Power and equipment:				
Combine (fuel, lubricant, and repair)	Dollar	---	---	.35
Truck (fuel, lubricant, and repair)	do.	---	---	.14
Custom hire:				
Combining	Acre	.50	3.44	1.72
Hauling	Bushel	12.50	.05	.63
Total harvest cost per harvested acre	Acre	1.00	---	3.30
Total harvest cost per planted acre (81 percent harvested)	do.	1.00	---	2.67
Total variable costs per planted acre	do.	1.00	---	7.88

Yield per acre planted 20.2 bushel
Yield per acre harvested 24.9 bushel

1/ Harvesting costs reflect 50 percent custom combined and hauled and 50 percent combined and hauled with owned equipment.

Table 44.--Winter wheat on fallow: Estimated inputs and variable costs for Kansas Transition Area T

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	1.45	1.53	2.22
Seed, 20 percent purchased	Bushel	.833	1.62	1.35
Fertilizer:				
Available nitrogen	Pound	5.00	.11	.55
Available phosphorus	do.	3.00	.22	.66
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	1.17
Equipment (lubricant and repair)	do.	---	---	.61
Pesticides:				
Materials (various)	Acre	.05	.70	.04
Custom application	do.	.02	1.10	.02
Insurance, hail and FCIC	Dollar	---	---	.26
Interest on operating expense, 6 months at 7 percent	do.	4.66	.035	.16
Total preharvest cost	Acre	1.00	---	7.04
Harvest costs: 1/				
Labor, regular	Hour	.32	1.53	.49
Power and equipment:				
Combine (fuel, lubricant, and repair)	Dollar	---	---	.42
Truck (fuel, lubricant, and repair)	do.	---	---	.12
Custom hire:				
Combining	Acre	.48	3.63	1.74
Hauling	Bushel	10.60	.05	.53
Total harvest cost per harvested acre	Acre	1.00	---	3.30
Total harvest cost per planted acre (89 percent harvested)	do.	1.00	---	2.94
Total variable costs per planted acre	do.	1.00	---	9.98

Yield per acre planted 19.6 bushel
Yield per acre harvested 22.0 bushel

1/ Harvesting costs reflect 48 percent custom combined and hauled and 52 percent combined and hauled with owned equipment.

Table 45.--Winter wheat on fallow: Estimated inputs and variable costs for Central Kansas Area V

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	1.83	1.53	2.80
Seed, 20 percent purchased	Bushel	1.00	1.62	1.62
Fertilizer:				
Available nitrogen	Pound	30.00	.11	3.30
Available phosphorus	do.	12.00	.22	2.64
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	1.42
Equipment (lubricant and repair)	do.	---	---	.53
Pesticides, materials (various)	Acre	.04	.70	.03
Insurance, hail and FCIC	Dollar	---	---	.26
Interest on operating expense, 6 months at 7 percent	do.	9.80	.035	.34
Total preharvest cost	Acre	1.00	---	12.94
Harvest costs:[1/]				
Labor, regular	Hour	.54	1.53	.83
Power and equipment:				
Combine (fuel, lubricant, and repair)	Dollar	---	---	.71
Truck (fuel, lubricant, and repair)	do.	---	---	.15
Custom hire:				
Combining	Acre	.20	3.88	.78
Hauling	Bushel	5.30	.05	.27
Total harvest cost per harvested acre	Acre	1.00	---	2.74
Total harvest cost per planted acre (96 percent harvested)	do.	1.00	---	2.63
Total variable costs per planted acre	do.	1.00	---	15.57

Yield per acre planted 25.6 bushel
Yield per acre harvested 26.7 bushel

1/ Harvesting costs reflect 20 percent custom combined and hauled and 80 percent combined and hauled with owned equipment.

Table 46.--Winter wheat: Estimated inputs and variable costs for Northern South Dakota Area D

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	1.42	1.39	1.97
Seed, 25 percent purchased	Bushel	1.00	2.42	2.42
Fertilizer:				
Available nitrogen	Pound	7.00	.10	.70
Available phosphorus	do.	5.00	.24	1.20
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	1.41
Equipment (lubricant and repair)	do.	---	---	.51
Pesticides:				
Materials (various)	Acre	.80	.45	.36
Custom application	do.	.60	.90	.54
Insurance, hail and FCIC	Dollar	---	---	.34
Interest on operating expense, 6 months at 7 percent	do.	7.48	.035	.26
Total preharvest cost	Acre	1.00	---	9.71
Harvest costs: 1/				
Labor, regular	Hour	.64	1.39	.89
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	.09
Equipment (fuel, lubricant, and repair)	do.	---	---	.72
Truck (fuel, lubricant, and repair)	do.	---	---	.27
Custom hire:				
Combining	Acre	.35	3.80	1.33
Hauling	Bushel	6.60	.05	.33
Total harvest cost per harvested acre	Acre	1.00	---	3.63
Total harvest cost per planted acre (75 percent harvested)	do.	1.00	---	2.72
Total variable costs per planted acre	do.	1.00	---	12.43

Yield per acre planted 14.1 bushel
Yield per acre harvested 18.8 bushel

1/ Harvesting costs reflect 35 percent custom combined and hauled and 65 percent combined and hauled with owned equipment.

Table 47.--Winter wheat: Estimated inputs and variable costs for Southwestern South Dakota Area E

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	1.13	1.39	1.57
Seed, 25 percent purchased	Bushel	.75	2.41	1.81
Fertilizer:				
Available nitrogen	Pound	10.00	.10	1.00
Available phosphorus	do.	3.00	.24	.72
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	1.19
Equipment (lubricant and repair)	do.	---	---	.38
Pesticides:				
Materials (various)	Acre	.86	.45	.39
Custom application	do.	.39	.90	.35
Insurance, hail and FCIC	Dollar	---	---	.33
Interest on operating expense, 6 months at 7 percent	do.	6.17	.035	.22
Total preharvest cost	Acre	1.00	---	7.96
Harvest costs:[1/]				
Labor, regular	Hour	.42	1.39	.58
Power and equipment:				
Combine (fuel, lubricant, and repair)	Dollar	---	---	.52
Truck (fuel, lubricant, and repair)	do.	---	---	.25
Custom hire:				
Combining	Acre	.37	4.00	1.48
Hauling	Bushel	6.90	.05	.35
Total harvest cost per harvested acre	Acre	1.00	---	3.18
Total harvest cost per planted acre (80 percent harvested)	do.	1.00	---	2.54
Total variable costs per planted acre	do.	1.00	---	10.50

Yield per acre planted 14.9 bushel
Yield per acre harvested 18.6 bushel

1/ Harvesting costs reflect 37 percent custom combined and hauled and 63 percent combined and hauled with owned equipment.

Table 48.--Winter wheat: Estimated inputs and variable costs for Western Nebraska Area J

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	.80	1.54	1.23
Seed, 20 percent purchased	Bushel	.70	1.68	1.18
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	.67
Equipment (lubricant and repair)	do.	---	---	.29
Pesticides:				
Materials (various)	Acre	.10	.58	.06
Custom application	do.	.07	1.10	.08
Insurance, hail and FCIC	Dollar	---	---	.16
Interest on operating expense, 6 months at 7 percent	do.	2.44	.035	.09
Total preharvest cost	Acre	1.00	---	3.76
Harvest costs:1/				
Labor, regular	Hour	.26	1.54	.40
Power and equipment:				
Combine (fuel, lubricant, and repair)	Dollar	---	---	.32
Truck (fuel, lubricant, and repair)	do.	---	---	.11
Custom hire:				
Combining	Acre	.55	3.27	1.80
Hauling	Bushel	10.50	.049	.51
Total harvest cost per harvested acre	Acre	1.00	---	3.14
Total harvest cost per planted acre (70 percent harvested)	do.	1.00	---	2.20
Total variable costs per planted acre	do.	1.00	---	5.96

Yield per acre planted 13.4 bushel
Yield per acre harvested 19.1 bushel

1/ Harvesting costs reflect 55 percent custom combined and hauled and 45 percent combined and hauled with owned equipment.

Table 49.--Winter wheat: Estimated inputs and variable costs for Central Nebraska Area K

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	1.34	1.54	2.06
Seed, 20 percent purchased	Bushel	.917	1.68	1.54
Fertilizer:				
Available nitrogen	Pound	16.00	.11	1.76
Available phosphorus	do.	4.00	.23	.92
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	1.06
Equipment (lubricant and repair)	do.	---	---	.40
Pesticides:				
Materials (various)	Acre	.06	.58	.03
Custom application	do.	.03	1.10	.03
Insurance, hail and FCIC	Dollar	---	---	.20
Interest on operating expense, 6 months at 7 percent	do.	5.94	.035	.21
Total preharvest cost	Acre	1.00	---	8.21
Harvest costs:[1/]				
Labor, regular	Hour	.38	1.54	.59
Power and equipment:				
Combine (fuel, lubricant, and repair)	Dollar	---	---	.51
Truck (fuel, lubricant, and repair)	do.	---	---	.15
Custom hire:				
Combining	Acre	.35	3.74	1.31
Hauling	Bushel	6.80	.03	.20
Total harvest cost per harvested acre	Acre	1.00	---	2.76
Total harvest cost per planted acre (90 percent harvested)	do.	1.00	---	2.48
Total variable costs per planted acre	do.	1.00	---	10.69

Yield per acre planted 17.5 bushel
Yield per acre harvested 19.4 bushel

1/ Harvesting costs reflect 35 percent custom combined and hauled and 65 percent combined and hauled with owned equipment.

Table 50.--Winter wheat: Estimated inputs and variable costs for Eastern Nebraska Area L

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	1.56	1.54	2.40
Seed, 20 percent purchased	Bushel	1.333	1.68	2.24
Fertilizer:				
Available nitrogen	Pound	34.00	.11	3.74
Available phosphorus	do.	7.00	.23	1.61
Available potassium	do.	2.00	.05	.10
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	1.23
Equipment (lubricant and repair)	do.	---	---	.37
Pesticides, materials (various)	Acre	.04	.58	.02
Insurance, hail and FCIC	Dollar	---	---	.22
Interest on operating expense, 6 months at 7 percent	do.	9.53	.035	.33
Total preharvest cost	Acre	1.00	---	12.26
Harvest costs:[1/]				
Labor, regular	Hour	.65	1.54	1.00
Power and equipment:				
Combine (fuel, lubricant, and repair)	Dollar	---	---	.88
Truck (fuel, lubricant, and repair)	do.	---	---	.17
Custom hire:				
Combining	Acre	.15	4.38	.66
Hauling	Bushel	4.00	.03	.12
Total harvest cost per harvested acre	Acre	1.00	---	2.83
Total harvest cost per planted acre (93 percent harvested)	do.	1.00	---	2.63
Total variable costs per planted acre	do.	1.00	---	14.89

Yield per acre planted	25.0 bushel
Yield per acre harvested	26.9 bushel

1/ Harvesting costs reflect 15 percent custom combined and hauled and 85 percent combined and hauled with owned equipment.

Table 51.--Irrigated winter wheat: Estimated inputs and variable costs for Irrigated Nebraska Area M

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	2.46	1.54	3.79
Seed, 20 percent purchased	Bushel	1.00	1.68	1.68
Fertilizer:				
Available nitrogen	Pound	70.00	.072	5.04
Available phosphorus	do.	12.00	.23	2.76
Available potassium	do.	2.00	.05	.10
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	1.59
Equipment (lubricant and repair)	do.	---	---	.56
Irrigation system (fuel, lubricant, and repair)	Acre inch	8.00	.473	3.78
Pesticides, materials (various)	Acre	.02	.58	.01
Insurance, hail and FCIC	Dollar	---	---	.24
Interest on operating expense, 6 months at 7 percent	do.	15.76	.035	.55
Total preharvest cost	Acre	1.00	---	20.10
Harvest costs:[1/]				
Labor, regular	Hour	.58	1.54	.89
Power and equipment:				
Combine (fuel, lubricant, and repair)	Dollar	---	---	.70
Truck (fuel, lubricant, and repair)	do.	---	---	.25
Custom hire:				
Combining	Acre	.25	4.19	1.05
Hauling	Bushel	8.90	.03	.27
Total harvest cost per harvested acre	Acre	1.00	---	3.16
Total harvest cost per planted acre (96 percent harvested)	do.	1.00	---	3.03
Total variable costs per planted acre	do.	1.00	---	23.13

Yield per acre planted	34.0 bushel
Yield per acre harvested	35.4 bushel

1/ Harvesting costs reflect 25 percent custom combined and hauled and 75 percent combined and hauled with owned equipment.

Table 52.--Irrigated winter wheat: Estimated inputs and variable costs for Colorado Irrigated Area R

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	3.70	1.38	5.11
Seed, 50 percent purchased	Bushel	1.40	2.02	2.83
Fertilizer:				
Available nitrogen	Pound	47.00	.085	4.00
Available phosphorus	do.	4.00	.24	.96
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	1.90
Equipment (lubricant and repair)	do.	---	---	.95
Irrigation system (fuel, lubricant, and repair)	Acre inch	12.00	.25	3.00
Pesticides:				
Materials (various)	Acre	.23	.70	.16
Custom application	do.	.13	1.20	.16
Interest on operating expense, 6 months at 7 percent	Dollar	13.96	.035	.49
Total preharvest cost	Acre	1.00	---	19.56
Harvest costs:[1/]				
Labor, regular	Hour	.62	1.38	.86
Power and equipment:				
Combine (fuel, lubricant, and repair)	Dollar	---	---	.79
Truck (fuel, lubricant, and repair)	do.	---	---	.23
Custom hire:				
Combining	Acre	.35	4.67	1.63
Hauling	Bushel	12.15	.06	.73
Total harvest cost per harvested acre	Acre	1.00	---	4.24
Total harvest cost per planted acre (95 percent harvested)	do.	1.00	---	4.03
Total variable costs per planted acre	do.	1.00	---	23.59

Yield per acre planted 33.0 bushel
Yield per acre harvested 34.7 bushel

1/ Harvesting costs reflect 35 percent custom combined and hauled and 65 percent combined and hauled with owned equipment.

Table 53.--Winter wheat: Estimated inputs and variable costs for Western Kansas Area S

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	.89	1.53	1.36
Seed, 20 percent purchased	Bushel	.60	1.62	.97
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	.67
Equipment (lubricant and repair)	do.	---	---	.29
Pesticides:				
Materials (various)	Acre	.15	.70	.10
Custom application	do.	.07	1.10	.08
Insurance, hail and FCIC	Dollar	---	---	.23
Interest on operating expense, 6 months at 7 percent	do.	2.34	.035	.08
Total preharvest cost	Acre	1.00	---	3.78
Harvest costs:[1/]				
Labor, regular	Hour	.30	1.53	.46
Power and equipment:				
Combine (fuel, lubricant, and repair)	Dollar	---	---	.35
Truck (fuel, lubricant, and repair)	do.	---	---	.12
Custom hire:				
Combining	Acre	.50	3.30	1.65
Hauling	Bushel	10.30	.05	.52
Total harvest cost per harvested acre	Acre	1.00	---	3.10
Total harvest cost per planted acre (63 percent harvested)	do.	1.00	---	1.95
Total variable costs per planted acre	do.	1.00	---	5.73

Yield per acre planted	13.0 bushel
Yield per acre harvested	20.6 bushel

1/ Harvesting costs reflect 50 percent custom combined and hauled and 50 percent combined and hauled with owned equipment.

Table 54.--Winter wheat: Estimated inputs and variable costs for Kansas Transition Area T

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	1.03	1.53	1.58
Seed, 20 percent purchased	Bushel	.833	1.62	1.35
Fertilizer:				
Available nitrogen	Pound	11.00	.11	1.21
Available phosphorus	do.	3.00	.22	.66
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	.82
Equipment (lubricant and repair)	do.	---	---	.44
Pesticides:				
Materials (various)	Acre	.06	.70	.04
Custom application	do.	.02	1.10	.02
Insurance, hail and FCIC	Dollar	---	---	24
Interest on operating expense, 6 months at 7 percent	do.	4.78	.035	.17
Total preharvest cost	Acre	1.00	---	6.53
Harvest costs:[1/]				
Labor, regular	Hour	.32	1.53	.49
Power and equipment:				
Combine (fuel, lubricant, and repair)	Dollar	---	---	.42
Truck (fuel, lubricant, and repair)	do.	---	---	.12
Custom hire:				
Combining	Acre	.48	3.58	1.72
Hauling	Bushel	8.40	.05	.42
Total harvest cost per harvested acre	Acre	1.00	---	3.17
Total harvest cost per planted acre (87 percent harvested)	do.	1.00	---	2.76
Total variable costs per planted acre	do.	1.00	---	9.29

Yield per acre planted 15.1 bushel
Yield per acre harvested 17.4 bushel

1/ Harvesting costs reflect 48 percent custom combined and hauled and 52 percent combined and hauled with owned equipment.

Table 55.--Winter wheat: Estimated inputs and variable costs for Central Kansas Area V

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	1.57	1.53	2.40
Seed, 20 percent purchased	Bushel	1.00	1.62	1.62
Fertilizer:				
Available nitrogen	Pound	42.00	.11	4.62
Available phosphorus	do.	12.00	.22	2.64
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	1.23
Equipment (lubricant and repair)	do.	---	---	.37
Pesticides, materials (various)	Acre	.04	.70	.03
Insurance, hail and FCIC	Dollar	---	---	.26
Interest on operating expense, 6 months at 7 percent	do.	10.77	.035	.38
Total preharvest cost	Acre	1.00	---	13.55
Harvest costs:[1/]				
Labor, regular	Hour	.54	1.53	.83
Power and equipment:				
Combine (fuel, lubricant, and repair)	Dollar	---	---	.71
Truck (fuel, lubricant, and repair)	do.	---	---	.14
Custom hire:				
Combining	Acre	.20	3.73	.75
Hauling	Bushel	4.90	.05	.25
Total harvest cost per harvested acre	Acre	1.00	---	2.68
Total harvest cost per planted acre (93 percent harvested)	do.	1.00	---	2.49
Total variable costs per planted acre	do.	1.00	---	16.04

Yield per acre planted 22.6 bushel
Yield per acre harvested 24.3 bushel

1/ Harvesting costs reflect 20 percent custom combined and hauled and 80 percent combined and hauled with owned equipment.

Table 56.--Winter wheat: Estimated inputs and variable costs for Eastern Kansas Area W

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	1.55	1.53	2.37
Seed, 20 percent purchased	Bushel	1.38	1.62	2.24
Fertilizer and lime:				
Available nitrogen	Pound	45.00	.11	4.95
Available phosphorus	do.	15.00	.22	3.30
Available potassium	do.	7.00	.05	.35
Lime	Ton	.08	4.00	.32
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	1.23
Equipment (lubricant and repair)	do.	---	---	.43
Pesticides, materials (various)	Acre	.04	.70	.03
Insurance, hail and FCIC	Dollar	---	---	.26
Interest on operating expense, 6 months at 7 percent	do.	13.11	.035	.46
Total preharvest cost	Acre	1.00	---	15.94
Harvest costs: 1/				
Labor, regular	Hour	.71	1.53	1.09
Power and equipment:				
Combine (fuel, lubricant, and repair)	Dollar	---	---	.93
Truck (fuel, lubricant, and repair)	do.	---	---	.18
Custom hire:				
Combining	Acre	.10	4.57	.46
Hauling	Bushel	2.56	.05	.13
Total harvest cost per harvested acre	Acre	1.00	---	2.79
Total harvest cost per planted acre (96 percent harvested)	do.	1.00	---	2.68
Total variable costs per planted acre	do.	1.00	---	18.62

Yield per acre planted	24.6 bushel
Yield per acre harvested	25.6 bushel

1/ Harvesting costs reflect 10 percent custom combined and hauled and 90 percent combined and hauled with owned equipment.

Table 57.--Irrigated winter wheat: Estimated inputs and variable costs for Kansas Irrigated Area Y

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	2.86	1.53	4.38
Seed, 20 percent purchased	Bushel	1.00	1.62	1.62
Fertilizer:				
Available nitrogen	Pound	63.00	.065	4.10
Available phosphorus	do.	5.00	.22	1.10
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	1.71
Equipment (lubricant and repair)	do.	---	---	.66
Irrigation system (fuel, lubricant, and repair)	Acre inch	12.00	.21	2.52
Pesticides, materials (various)	Acre	.03	.70	.02
Insurance, hail and FCIC	Dollar	---	---	.28
Interest on operating expense, 6 months at 7 percent	do.	12.01	.035	.42
Total preharvest cost	Acre	1.00	---	16.81
Harvest costs:[1/]				
Labor, regular	Hour	.51	1.53	.78
Power and equipment:				
Combine (fuel, lubricant, and repair)	Dollar	---	---	.60
Truck (fuel, lubricant, and repair)	do.	---	---	.24
Custom hire:				
Combining	Acre	.34	3.87	1.32
Hauling	Bushel	11.70	.05	.59
Total harvest cost per harvested acre	Acre	1.00	---	3.53
Total harvest cost per planted acre (95 percent harvested)	do.	1.00	---	3.35
Total variable costs per planted acre	do.	1.00	---	20.16

Yield per acre planted	32.7 bushel
Yield per acre harvested	34.4 bushel

1/ Harvesting costs reflect 34 percent custom combined and hauled and 66 percent combined and hauled with owned equipment.

Table 58.--Barley on fallow: Estimated inputs and variable costs for Western North Dakota Area A

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	1.43	1.47	2.10
Seed, 33 percent purchased	Bushel	1.40	1.32	1.85
Fertilizer, available phosphorus	Pound	3.00	.24	.72
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	1.55
Equipment (lubricant and repair)	do.	---	---	.58
Pesticides:				
Materials (various)	Acre	.75	.30	.23
Custom application	do.	.38	1.00	.38
Insurance, hail and FCIC	Dollar	---	---	.38
Interest on operating expense, 6 months at 7 percent	do.	5.69	.035	.20
Total preharvest cost	Acre	1.00	---	7.99
Harvest costs:[1/]				
Labor, regular	Hour	.70	1.47	1.03
Power and equipment:				
Swather (fuel, lubricant, and repair)	Dollar	---	---	.23
Combine (fuel, lubricant, and repair)	do.	---	---	.71
Truck (fuel, lubricant, and repair)	do.	---	---	.24
Custom hire:				
Combining	Acre	.16	4.10	.66
Hauling	Bushel	5.70	.05	.29
Total harvest cost per harvested acre	Acre	1.00	---	3.16
Total harvest cost per planted acre (91 percent harvested)	do.	1.00	---	2.88
Total variable costs per planted acre	do.	1.00	---	10.87

Yield per acre planted 32.4 bushel
Yield per acre harvested 35.6 bushel

1/ Harvesting costs reflect 16 percent custom combined and hauled and 84 percent combined and hauled with owned equipment.

Table 59.--Barley on fallow: Estimated inputs and variable costs for Central North Dakota Area B

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	1.74	1.47	2.56
Seed, 33 percent purchased	Bushel	1.60	1.27	2.03
Fertilizer, available phosphorus	Pound	5.00	.24	1.20
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	1.88
Equipment (lubricant and repair)	do.	---	---	.66
Pesticides:				
Materials (various)	Acre	.85	.34	.29
Custom application	do.	.42	1.00	.42
Insurance, hail and FCIC	Dollar	---	---	.38
Interest on operating expense, 6 months at 7 percent	do.	6.86	.035	.24
Total preharvest cost	Acre	1.00	---	9.66
Harvest costs:[1/]				
Labor, regular	Hour	.78	1.47	1.15
Power and equipment:				
Swather (fuel, lubricant, and repair)	Dollar	---	---	.31
Combine (fuel, lubricant, and repair)	do.	---	---	.69
Truck (fuel, lubricant, and repair)	do.	---	---	.25
Custom hire:				
Combining	Acre	.15	4.45	.67
Hauling	Bushel	6.20	.05	.31
Total harvest cost per harvested acre	Acre	1.00	---	3.38
Total harvest cost per planted acre (93 percent harvested)	do.	1.00	---	3.14
Total variable costs per planted acre	do.	1.00	---	12.80

Yield per acre planted 38.7 bushel
Yield per acre harvested 41.6 bushel

1/ Harvesting costs reflect 15 percent custom combined and hauled and 85 percent combined and hauled with owned equipment.

Table 60.--Barley on fallow: Estimated inputs and variable costs for Eastern North Dakota Area C

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	1.86	1.47	2.73
Seed, 33 percent purchased	Bushel	1.60	1.27	2.03
Fertilizer:				
Available nitrogen	Pound	7.00	.10	.70
Available phosphorus	do.	13.00	.24	3.12
Available potassium	do.	2.00	.05	.10
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	2.00
Equipment (lubricant and repair)	do.	---	---	.72
Pesticides:				
Materials (various)	Acre	.98	.36	.35
Custom application	do.	.50	1.00	.50
Insurance, hail and FCIC	Dollar	---	---	.39
Interest on operating expense, 6 months at 7 percent	do.	9.91	.035	.35
Total preharvest cost	Acre	1.00	---	12.99
Harvest costs: 1/				
Labor, regular	Hour	.90	1.47	1.32
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	.16
Equipment (fuel, lubricant, and repair)	do.	---	---	.89
Truck (fuel, lubricant, and repair)	do.	---	---	.32
Custom hire:				
Combining	Acre	.15	4.50	.68
Hauling	Bushel	6.30	.05	.32
Total harvest cost per harvested acre	Acre	1.00	---	3.69
Total harvest cost per planted acre (95 percent harvested)	do.	1.00	---	3.51
Total variable costs per planted acre	do.	1.00	---	16.50

Yield per acre planted 40.0 bushel
Yield per acre harvested 42.1 bushel

1/ Harvesting costs reflect 15 percent custom combined and hauled and 85 percent combined and hauled with owned equipment.

Table 61.--Barley on fallow: Estimated inputs and variable costs for Northern South Dakota Area D

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	1.82	1.39	2.53
Seed, 25 percent purchased	Bushel	1.50	1.61	2.42
Fertilizer:				
Available nitrogen	Pound	3.00	.10	.30
Available phosphorus	do.	4.00	.24	.96
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	1.97
Equipment (lubricant and repair)	do.	---	---	.61
Pesticides:				
Materials (various)	Acre	.55	.38	.21
Custom application	do.	.14	.90	.13
Insurance, hail and FCIC	Dollar	---	---	.34
Interest on operating expense, 6 months at 7 percent	do.	6.94	.035	.24
Total preharvest cost	Acre	1.00	---	9.71
Harvest costs:[1/]				
Labor, regular	Hour	.77	1.39	1.07
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	.11
Equipment (fuel, lubricant, and repair)	do.	---	---	.86
Truck (fuel, lubricant, and repair)	do.	---	---	.33
Custom hire:				
Combining	Acre	.22	3.65	.80
Hauling	Bushel	8.00	.05	.40
Total harvest cost per harvested acre	Acre	1.00	---	3.57
Total harvest cost per planted acre (93 percent harvested)	do.	1.00	---	3.32
Total variable costs per planted acre	do.	1.00	---	13.03

Yield per acre planted 33.7 bushel
Yield per acre harvested 36.2 bushel

1/ Harvesting costs reflect 22 percent custom combined and hauled and 78 percent combined and hauled with owned equipment.

Table 62.--Barley on fallow: Estimated inputs and variable costs for Eastern Wyoming Area G

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	1.37	1.32	1.81
Seed, 20 percent purchased	Bushel	1.25	1.35	1.69
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	1.12
Equipment (lubricant and repair)	do.	---	---	.36
Pesticides:				
Materials (various)	Acre	.17	.65	.11
Custom application	do.	.10	1.20	.12
Insurance, hail and FCIC	Dollar	---	---	.13
Interest on operating expense, 6 months at 7 percent	do.	3.53	.035	.12
Total preharvest cost	Acre	1.00	---	5.46
Harvest costs:[1/]				
Labor, regular	Hour	.36	1.32	.48
Power and equipment:				
Combine (fuel, lubricant, and repair)	Dollar	---	---	.45
Truck (fuel, lubricant, and repair)	do.	---	---	.22
Custom hire:				
Combining	Acre	.26	3.60	.94
Hauling	Bushel	5.50	.06	.33
Total harvest cost per harvested acre	Acre	1.00	---	2.42
Total harvest cost per planted acre (80 percent harvested)	do.	1.00	---	1.94
Total variable costs per planted acre	do.	1.00	---	7.40

Yield per acre planted	17.0 bushel
Yield per acre harvested	21.3 bushel

1/ Harvesting costs reflect 26 percent custom combined and hauled and 74 percent combined and hauled with owned equipment.

Table 63.--Barley on fallow: Estimated inputs and variable costs for Western Nebraska Area J

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	.77	1.54	1.19
Seed, 25 percent purchased	Bushel	1.454	1.30	1.89
Fertilizer, available nitrogen	Pound	1.00	.11	.11
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	.65
Equipment (lubricant and repair)	do.	---	---	.32
Insurance, hail and FCIC	do.	---	---	.10
Interest on operating expense, 6 months at 7 percent	do.	3.07	.035	.11
Total preharvest cost	Acre	1.00	---	4.37
Harvest costs:1/				
Labor, regular	Hour	.38	1.54	.59
Power and equipment:				
Combine (fuel, lubricant, and repair)	Dollar	---	---	.45
Truck (fuel, lubricant, and repair)	do.	---	---	.06
Custom hire:				
Combining	Acre	.33	3.37	1.11
Hauling	Bushel	7.30	.049	.36
Total harvest cost per harvested acre	Acre	1.00	---	2.57
Total harvest cost per planted acre (75 percent harvested)	do.	1.00	---	1.93
Total variable costs per planted acre	do.	1.00	---	6.30

Yield per acre planted	16.6 bushel
Yield per acre harvested	22.1 bushel

1/ Harvesting costs reflect 33 percent custom combined and hauled and 67 percent combined and hauled with owned equipment.

Table 64.--Barley on fallow: Estimated inputs and variable costs for Northeastern Colorado Area N

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	1.10	1.38	1.52
Seed, 20 percent purchased	Bushel	.80	1.38	1.10
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	1.07
Equipment (lubricant and repair)	do.	---	---	.35
Pesticides:				
Materials (various)	Acre	.23	.70	.16
Custom application	do.	.11	1.20	.13
Insurance, hail and FCIC	Dollar	---	---	.15
Interest on operating expense, 6 months at 7 percent	do.	2.96	.035	.10
Total preharvest cost	Acre	1.00	---	4.58
Harvest costs:1/				
Labor, regular	Hour	.33	1.38	.46
Power and equipment:				
Combine (fuel, lubricant, and repair)	Dollar	---	---	.41
Truck (fuel, lubricant, and repair)	do.	---	---	.16
Custom hire:				
Combining	Acre	.34	3.50	1.19
Hauling	Bushel	7.90	.06	.47
Total harvest cost per harvested acre	Acre	1.00	---	2.69
Total harvest cost per planted acre (68 percent harvested)	do.	1.00	---	1.83
Total variable costs per planted acre	do.	1.00	---	6.41

Yield per acre planted	15.8 bushel
Yield per acre harvested	23.2 bushel

1/ Harvesting costs reflect 34 percent custom combined and hauled and 66 percent combined and hauled with owned equipment.

Table 65.--Barley on fallow: Estimated inputs and variable costs for Southeastern Colorado Area P

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	1.00	1.38	1.38
Seed, 20 percent purchased	Bushel	.80	1.38	1.10
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	1.01
Equipment (lubricant and repair)	do.	---	---	.35
Pesticides:				
Materials (various)	Acre	.12	.70	.08
Custom application	do.	.05	1.20	.06
Insurance, hail and FCIC	Dollar	---	---	.05
Interest on operating expense, 6 months at 7 percent	do.	2.65	.035	.09
Total preharvest cost	Acre	1.00	---	4.12
Harvest costs:[1/]				
Labor, regular	Hour	.26	1.38	.36
Power and equipment:				
Combine (fuel, lubricant, and repair)	Dollar	---	---	.32
Truck (fuel, lubricant, and repair)	do.	---	---	.10
Custom hire:				
Combining	Acre	.36	3.35	1.21
Hauling	Bushel	6.90	.06	.41
Total harvest cost per harvested acre	Acre	1.00	---	2.40
Total harvest cost per planted acre (46 percent harvested)	do.	1.00	---	1.10
Total variable costs per planted acre	do.	1.00	---	5.22

Yield per acre planted 8.8 bushel
Yield per acre harvested 19.1 bushel

1/ Harvesting costs reflect 36 percent custom combined and hauled and 64 percent combined and hauled with owned equipment.

Table 66.--Barley on fallow: Estimated inputs and variable costs for Western Kansas Area S

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	1.33	1.53	2.03
Seed, 25 percent purchased	Bushel	.833	1.30	1.08
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	1.14
Equipment (lubricant and repair)	do.	---	---	.46
Pesticides:				
Materials (various)	Acre	.06	.70	.04
Custom application	do.	.03	1.10	.03
Insurance, hail and FCIC	Dollar	---	---	.10
Interest on operating expense, 6 months at 7 percent	do.	2.85	.035	.10
Total preharvest cost	Acre	1.00	---	4.98
Harvest costs:1/				
Labor, regular	Hour	.42	1.53	.64
Power and equipment:				
Combine (fuel, lubricant, and repair)	Dollar	---	---	.48
Truck (fuel, lubricant, and repair)	do.	---	---	.06
Custom hire:				
Combining	Acre	.30	3.25	.98
Hauling	Bushel	6.90	.05	.35
Total harvest cost per harvested acre	Acre	1.00	---	2.51
Total harvest cost per planted acre (65 percent harvested)	do.	1.00	---	1.63
Total variable costs per planted acre	do.	1.00	---	6.61

Yield per acre planted	15.0 bushel
Yield per acre harvested	23.1 bushel

1/ Harvesting costs reflect 30 percent custom combined and hauled and 70 percent combined and hauled with owned equipment.

Table 67.--Barley: Estimated inputs and variable costs for Western North Dakota Area A

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	.85	1.47	1.25
Seed, 33 percent purchased	Bushel	1.40	1.32	1.85
Fertilizer:				
Available nitrogen	Pound	3.00	.10	.30
Available phosphorus	do.	2.00	.24	.48
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	.84
Equipment (lubricant and repair)	do.	---	---	.39
Pesticides:				
Materials (various)	Acre	.75	.30	.23
Custom application	do.	.38	1.00	.38
Insurance, hail and FCIC	Dollar	---	---	.36
Interest on operating expense, 6 months at 7 percent	do.	4.83	.035	.17
Total preharvest cost	Acre	1.00	---	6.25
Harvest costs:[1/]				
Labor, regular	Hour	.70	1.47	1.03
Power and equipment:				
Swather (fuel, lubricant, and repair)	Dollar	---	---	.23
Combine (fuel, lubricant, and repair)	do.	---	---	.71
Truck (fuel, lubricant, and repair)	do.	---	---	.24
Custom hire:				
Combining	Acre	.16	3.70	.59
Hauling	Bushel	4.40	.05	.22
Total harvest cost per harvested acre	Acre	1.00	---	3.02
Total harvest cost per planted acre (88 percent harvested)	do.	1.00	---	2.66
Total variable costs per planted acre	do.	1.00	---	8.91

Yield per acre planted 24.2 bushel
Yield per acre harvested 27.5 bushel

1/ Harvesting costs reflect 16 percent custom combined and hauled and 84 percent combined and hauled with owned equipment.

Table 68.--Barley: Estimated inputs and variable costs for Central North Dakota Area B

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	.91	1.47	1.34
Seed, 33 percent purchased	Bushel	1.60	1.27	2.03
Fertilizer:				
Available nitrogen	Pound	3.00	.10	.30
Available phosphorus	do.	5.00	.24	1.20
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	.94
Equipment (lubricant and repair)	do.	---	---	.40
Pesticides:				
Materials (various)	Acre	.85	.34	.29
Custom application	do.	.42	1.00	.42
Insurance, hail and FCIC	Dollar	---	---	.33
Interest on operating expense, 6 months at 7 percent	do.	5.91	.035	.21
Total preharvest cost	Acre	1.00	---	7.46
Harvest costs:1/				
Labor, regular	Hour	.78	1.47	1.15
Power and equipment:				
Swather (fuel, lubricant, and repair)	Dollar	---	---	.31
Combine (fuel, lubricant, and repair)	do.	---	---	.69
Truck (fuel, lubricant, and repair)	do.	---	---	.25
Custom hire:				
Combining	Acre	.15	3.95	.59
Hauling	Bushel	4.80	.05	.24
Total harvest cost per harvested acre	Acre	1.00	---	3.23
Total harvest cost per planted acre (92 percent harvested)	do.	1.00	---	2.97
Total variable costs per planted acre	do.	1.00	---	10.43

Yield per acre planted 29.2 bushel
Yield per acre harvested 31.7 bushel

1/ Harvesting costs reflect 15 percent custom combined and hauled and 85 percent combined and hauled with owned equipment.

Table 69.--Barley: Estimated inputs and variable costs for Eastern North Dakota Area C

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	1.39	1.47	2.04
Seed, 33 percent purchased	Bushel	1.60	1.27	2.03
Fertilizer:				
Available nitrogen	Pound	15.00	.10	1.50
Available phosphorus	do.	12.00	.24	2.88
Available potassium	do.	2.00	.05	.10
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	1.39
Equipment (lubricant and repair)	do.	---	---	.48
Pesticides:				
Materials (various)	Acre	.98	.36	.35
Custom application	do.	.50	1.00	.50
Insurance, hail and FCIC	Dollar	---	---	.37
Interest on operating expense, 6 months at 7 percent	do.	9.60	.035	.34
Total preharvest cost	Acre	1.00	---	11.98
Harvest costs: 1/				
Labor, regular	Hour	.90	1.47	1.32
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	.16
Equipment (fuel, lubricant, and repair)	do.	---	---	.89
Truck (fuel, lubricant, and repair)	do.	---	---	.32
Custom hire:				
Combining	Acre	.15	4.25	.64
Hauling	Bushel	5.50	.05	.28
Total harvest cost per harvested acre	Acre	1.00	---	3.61
Total harvest cost per planted acre (95 percent harvested)	do.	1.00	---	3.43
Total variable costs per planted acre	do.	1.00	---	15.41

Yield per acre planted	34.7 bushel
Yield per acre harvested	36.5 bushel

1/ Harvesting costs reflect 15 percent custom combined and hauled and 85 percent combined and hauled with owned equipment.

Table 70.--Barley: Estimated inputs and variable costs for Northern South Dakota Area D

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	1.42	1.39	1.97
Seed, 25 percent purchased	Bushel	1.50	1.61	2.42
Fertilizer:				
Available nitrogen	Pound	10.00	.10	1.00
Available phosphorus	do.	4.00	.24	.96
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	1.41
Equipment (lubricant and repair)	do.	---	---	.51
Pesticides:				
Materials (various)	Acre	.60	.38	.23
Custom application	do.	.16	.90	.14
Insurance, hail and FCIC	Dollar	---	---	.32
Interest on operating expense, 6 months at 7 percent	do.	6.99	.035	.24
Total preharvest cost	Acre	1.00	---	9.20
Harvest costs:[1/]				
Labor, regular	Hour	.77	1.39	1.07
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	.11
Equipment (fuel, lubricant, and repair)	do.	---	---	.86
Truck (fuel, lubricant, and repair)	do.	---	---	.33
Custom hire:				
Combining	Acre	.22	3.65	.80
Hauling	Bushel	6.50	.05	.33
Total harvest cost per harvested acre	Acre	1.00	---	3.50
Total harvest cost per planted acre (91 percent harvested)	do.	1.00	---	3.19
Total variable costs per planted acre	do.	1.00	---	12.39

Yield per acre planted	26.9 bushel
Yield per acre harvested	29.6 bushel

1/ Harvesting costs reflect 22 percent custom combined and hauled and 78 percent combined and hauled with owned equipment.

Table 71.--Barley: Estimated inputs and variable costs for Southwestern South Dakota Area E

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	1.13	1.39	1.57
Seed, 25 percent purchased	Bushel	1.25	1.45	1.81
Fertilizer:				
Available nitrogen	Pound	8.00	.10	.80
Available phosphorus	do.	4.00	.24	.96
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	1.19
Equipment (lubricant and repair)	do.	---	---	.38
Pesticides:				
Materials (various)	Acre	.25	.39	.10
Custom application	do.	.06	.90	.05
Insurance, hail and FCIC	Dollar	---	---	.26
Interest on operating expense, 6 months at 7 percent	do.	5.55	.035	.19
Total preharvest cost	Acre	1.00	---	7.31
Harvest costs:1/				
Labor, regular	Hour	.50	1.39	.70
Power and equipment:				
Combine (fuel, lubricant, and repair)	Dollar	---	---	.62
Truck (fuel, lubricant, and repair)	do.	---	---	.30
Custom hire:				
Combining	Acre	.25	3.80	.95
Hauling	Bushel	6.60	.05	.33
Total harvest cost per harvested acre	Acre	1.00	---	2.90
Total harvest cost per planted acre (89 percent harvested)	do.	1.00	---	2.58
Total variable costs per planted acre	do.	1.00	---	9.89

Yield per acre planted	23.5 bushel
Yield per acre harvested	26.4 bushel

1/ Harvesting costs reflect 25 percent custom combined and hauled and 75 percent combined and hauled with owned equipment.

Table 72.--Barley: Estimated inputs and variable costs for Southeastern South Dakota Area F

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	1.29	1.39	1.79
Seed, 25 percent purchased	Bushel	1.75	1.26	2.21
Fertilizer:				
Available nitrogen	Pound	8.00	.10	.80
Available phosphorus	do.	4.00	.24	.96
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	1.32
Equipment (lubricant and repair)	do.	---	---	.43
Pesticides:				
Materials (various)	Acre	.20	.40	.08
Custom application	do.	.05	.93	.05
Insurance, hail and FCIC	Dollar	---	---	.24
Interest on operating expense, 6 months at 7 percent	do.	6.09	.035	.21
Total preharvest cost	Acre	1.00	---	8.09
Harvest costs: 1/				
Labor, regular	Hour	.82	1.39	1.14
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	.22
Equipment (fuel, lubricant, and repair)	do.	---	---	.81
Truck (fuel, lubricant, and repair)	do.	---	---	.31
Custom hire:				
Combining	Acre	.28	3.75	1.05
Hauling	Bushel	8.70	.05	.44
Total harvest cost per harvested acre	Acre	1.00	---	3.97
Total harvest cost per planted acre (95 percent harvested)	do.	1.00	---	3.77
Total variable costs per planted acre	do.	1.00	---	11.86

Yield per acre planted 29.6 bushel
Yield per acre harvested 31.2 bushel

1/ Harvesting costs reflect 28 percent custom combined and hauled and 72 percent combined and hauled with owned equipment.

Table 73.--Barley: Estimated inputs and variable costs for Eastern Wyoming Area G

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	.82	1.32	1.08
Seed, 20 percent purchased	Bushel	1.25	1.35	1.69
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	.64
Equipment (lubricant and repair)	do.	---	---	.25
Pesticides:				
Materials (various)	Acre	.17	.65	.11
Custom application	do.	.10	1.20	.12
Insurance, hail and FCIC	Dollar	---	---	.08
Interest on operating expense, 6 months at 7 percent	do.	2.89	.035	.10
Total preharvest cost	Acre	1.00	---	4.07
Harvest costs:[1/]				
Labor, regular	Hour	.36	1.32	.48
Power and equipment:				
Combine (fuel, lubricant, and repair)	Dollar	---	---	.45
Truck (fuel, lubricant, and repair)	do.	---	---	.18
Custom hire:				
Combining	Acre	.26	3.60	.94
Hauling	Bushel	5.30	.06	.32
Total harvest cost per harvested acre	Acre	1.00	---	2.37
Total harvest cost per planted acre (66 percent harvested)	do.	1.00	---	1.56
Total variable costs per planted acre	do.	1.00	---	5.63

Yield per acre planted	13.5 bushel
Yield per acre harvested	20.5 bushel

1/ Harvesting costs reflect 26 percent custom combined and hauled and 74 percent combined and hauled with owned equipment.

Table 74.--Irrigated barley: Estimated inputs and variable costs for Wyoming Irrigated Area H

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	4.32	1.32	5.70
Seed, 20 percent purchased	Bushel	2.00	1.35	2.70
Fertilizer:				
Available nitrogen	Pound	39.00	.10	3.90
Available phosphorus	do.	6.00	.24	1.44
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	2.10
Equipment (lubricant and repair)	do.	---	---	1.05
Irrigation system (fuel, lubricant, and repair)	Acre inch	18.00	.25	4.50
Pesticides:				
Materials (various)	Acre	.17	.70	.12
Custom application	do.	.10	1.20	.12
Insurance, hail and FCIC	Dollar	---	---	.13
Interest on operating expense, 6 months at 7 percent	do.	16.06	.035	.56
Total preharvest cost	Acre	1.00	---	22.32
Harvest costs:[1/]				
Labor, regular	Hour	.72	1.32	.95
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	.17
Combine (fuel, lubricant, and repair)	do.	---	---	.78
Truck (fuel, lubricant, and repair)	do.	---	---	.37
Custom hire:				
Combining	Acre	.26	4.75	1.24
Hauling	Bushel	12.71	.06	.76
Total harvest cost per harvested acre	Acre	1.00	---	4.27
Total harvest cost per planted acre (90 percent harvested)	do.	1.00	---	3.84
Total variable costs per planted acre	do.	1.00	---	26.16

Yield per acre planted 44.0 bushel
Yield per acre harvested 48.9 bushel

1/ Harvesting costs reflect 26 percent custom combined and hauled and 74 percent combined and hauled with owned equipment.

Table 75.--Irrigated barley: Estimated inputs and variable costs for Irrigated Nebraska Area M

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	2.53	1.54	3.90
Seed, 25 percent purchased	Bushel	1.67	1.29	2.15
Fertilizer:				
Available nitrogen	Pound	50.00	.11	5.50
Available phosphorus	do.	10.00	.23	2.30
Available potassium	do.	1.00	.05	.05
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	1.65
Equipment (lubricant and repair)	do.	---	---	.48
Irrigation system (fuel, lubricant, and repair)	Acre inch	8.00	.473	3.78
Insurance, hail and FCIC	Dollar	---	---	.20
Interest on operating expense, 6 months at 7 percent	do.	16.11	.035	.56
Total preharvest cost	Acre	1.00	---	20.57
Harvest costs: 1/				
Labor, regular	Hour	.58	1.54	.89
Power and equipment:				
Combine (fuel, lubricant, and repair)	Dollar	---	---	.69
Truck (fuel, lubricant, and repair)	do.	---	---	.21
Custom hire:				
Combining	Acre	.26	4.52	1.18
Hauling	Bushel	11.00	.03	.33
Total harvest cost per harvested acre	Acre	1.00	---	3.30
Total harvest cost per planted acre (90 percent harvested)	do.	1.00	---	2.97
Total variable costs per planted acre	do.	1.00	---	23.54

Yield per acre planted 38.0 bushel
Yield per acre harvested 42.2 bushel

1/ Harvesting costs reflect 26 percent custom combined and hauled and 74 percent combined and hauled with owned equipment.

Table 76.--Irrigated barley: Estimated inputs and variable costs for Colorado Irrigated Area R

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	4.00	1.38	5.52
Seed, 20 percent purchased	Bushel	1.70	1.38	2.35
Fertilizer:				
Available nitrogen	Pound	37.00	.10	3.70
Available phosphorus	do.	3.00	.24	.72
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	1.97
Equipment (lubricant and repair)	do.	---	---	.98
Irrigation system (fuel, lubricant, and repair)	Acre inch	18.00	.25	4.50
Pesticides:				
Materials (various)	Acre	.24	.70	.17
Custom application	do.	.11	1.20	.13
Insurance, hail and FCIC	Dollar	---	---	.05
Interest on operating expense, 6 months at 7 percent	do.	14.57	.035	.51
Total preharvest cost	Acre	1.00	---	20.60
Harvest costs:[1/]				
Labor, regular	Hour	.62	1.38	.86
Power and equipment:				
Combine (fuel, lubricant, and repair)	Dollar	---	---	.79
Truck (fuel, lubricant, and repair)	do.	---	---	.26
Custom hire:				
Combining	Acre	.35	4.45	1.56
Hauling	Bushel	16.45	.06	.99
Total harvest cost per harvested acre	Acre	1.00	---	4.46
Total harvest cost per planted acre (88 percent harvested)	do.	1.00	---	3.92
Total variable costs per planted acre	do.	1.00	---	24.52

Yield per acre planted 41.4 bushel
Yield per acre harvested 47.0 bushel

1/ Harvesting costs reflect 35 percent custom combined and hauled and 65 percent combined and hauled with owned equipment.

Table 77.--Barley: Estimated inputs and variable costs for Kansas Transition Area T

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	1.03	1.53	1.58
Seed, 25 percent purchased	Bushel	1.354	1.30	1.76
Fertilizer:				
Available nitrogen	Pound	3.00	.11	.33
Available phosphorus	do.	1.00	.22	.22
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	.90
Equipment (lubricant and repair)	do.	---	---	.44
Pesticides:				
Materials (various)	Acre	.05	.70	.04
Custom application	do.	.02	1.10	.02
Insurance, hail and FCIC	Dollar	---	---	.06
Interest on operating expense, 6 months at 7 percent	do.	3.77	.035	.13
Total preharvest cost	Acre	1.00	---	5.48
Harvest costs: 1/				
Labor, regular	Hour	.44	1.53	.67
Power and equipment:				
Combine (fuel, lubricant, and repair)	Dollar	---	---	.57
Truck (fuel, lubricant, and repair)	do.	---	---	.05
Custom hire:				
Combining	Acre	.26	3.64	.95
Hauling	Bushel	4.90	.05	.25
Total harvest cost per harvested acre	Acre	1.00	---	2.49
Total harvest cost per planted acre (66 percent harvested)	do.	1.00	---	1.64
Total variable costs per planted acre	do.	1.00	---	7.12

Yield per acre planted 12.5 bushel
Yield per acre harvested 18.9 bushel

1/ Harvesting costs reflect 26 percent custom combined and hauled and 74 percent combined and hauled with owned equipment.

Table 78.--Barley: Estimated inputs and variable costs for Central Kansas Area V

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	1.57	1.53	2.40
Seed, 25 percent purchased	Bushel	1.50	1.30	1.95
Fertilizer:				
Available nitrogen	Pound	17.00	.11	1.87
Available phosphorus	do.	5.00	.22	1.10
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	1.22
Equipment (lubricant and repair)	do.	---	---	.37
Pesticides, materials (various)	Acre	.04	.70	.03
Insurance, hail and FCIC	Dollar	---	---	.05
Interest on operating expense, 6 months at 7 percent	do.	6.59	.035	.23
Total preharvest cost	Acre	1.00	---	9.22
Harvest costs:1/				
Labor, regular	Hour	.55	1.53	.84
Power and equipment:				
Combine (fuel, lubricant, and repair)	Dollar	---	---	.73
Truck (fuel, lubricant, and repair)	do.	---	---	.05
Custom hire:				
Combining	Acre	.18	3.64	.66
Hauling	Bushel	4.20	.05	.21
Total harvest cost per harvested acre	Acre	1.00	---	2.49
Total harvest cost per planted acre (80 percent harvested)	do.	1.00	---	1.99
Total variable costs per planted acre	do.	1.00	---	11.21

Yield per acre planted 18.7 bushel
Yield per acre harvested 23.4 bushel

1/ Harvesting costs reflect 18 percent custom combined and hauled and 82 percent combined and hauled with owned equipment.

Table 79.--Barley: Estimated inputs and variable costs for Eastern Kansas Area W

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	1.55	1.53	2.37
Seed, 25 percent purchased	Bushel	1.77	1.30	2.30
Fertilizer and lime:				
Available nitrogen	Pound	21.00	.11	2.31
Available phosphorus	do.	6.00	.22	1.32
Available potassium	do.	5.00	.05	.25
Lime	Ton	.08	4.00	.32
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	1.23
Equipment (lubricant and repair)	do.	---	---	.43
Pesticides, materials (various)	Acre	.04	.70	.03
Insurance, hail and FCIC	Dollar	---	---	.05
Interest on operating expense, 6 months at 7 percent	do.	8.24	.035	.29
Total preharvest cost	Acre	1.00	---	10.90
Harvest costs:[1/]				
Labor, regular	Hour	.71	1.53	1.09
Power and equipment:				
Combine (fuel, lubricant, and repair)	Dollar	---	---	.93
Truck (fuel, lubricant, and repair)	do.	---	---	.06
Custom hire:				
Combining	Acre	.10	4.50	.45
Hauling	Bushel	2.40	.05	.12
Total harvest cost per harvested acre	Acre	1.00	---	2.65
Total harvest cost per planted acre (85 percent harvested)	do.	1.00	---	2.25
Total variable costs per planted acre	do.	1.00	---	13.15

Yield per acre planted 20.2 bushel
Yield per acre harvested 23.8 bushel

1/ Harvesting costs reflect 10 percent custom combined and hauled and 90 percent combined and hauled with owned equipment.

Table 80.--Corn silage: Estimated inputs and variable costs for Western North Dakota Area A

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	1.73	1.47	2.54
Seed, 100 percent purchased	Bushel	.16	13.90	2.22
Fertilizer:				
Available nitrogen	Pound	1.00	.10	.10
Available phosphorus	do.	1.00	.24	.24
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	1.91
Equipment (lubricant and repair)	do.	---	---	.64
Pesticides:				
Materials (various)	Acre	.20	1.89	.38
Custom application	do.	.03	1.00	.03
Insurance, hail and FCIC	Dollar	---	---	.04
Interest on operating expense, 6 months at 7 percent	do.	5.56	.035	.19
Total preharvest cost	Acre	1.00	---	8.29
Harvest costs:[1/]				
Labor, regular	Hour	2.83	1.47	4.16
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	1.99
Equipment (fuel, lubricant, and repair)	do.	---	---	.50
Truck (fuel, lubricant, and repair)	do.	---	---	.40
Custom hire, cutting	Ton	.74	1.54	1.14
Total harvest cost per harvested acre	Acre	1.00	---	8.19
Total harvest cost per planted acre (97 percent harvested)	do.	1.00	---	7.94
Total variable costs per planted acre	do.	1.00	---	16.23

Yield per acre planted 3.8 ton
Yield per acre harvested 3.9 ton

1/ Harvesting costs reflect 19 percent custom cut with the operator performing the remainder of the cutting and all of the hauling and storage with owned equipment.

Table 81.--Corn silage: Estimated inputs and variable costs for Central North Dakota Area B

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	1.73	1.47	2.54
Seed, 100 percent purchased	Bushel	.20	13.90	2.78
Fertilizer:				
Available nitrogen	Pound	6.00	.10	.60
Available phosphorus	do.	4.00	.24	.96
Available potassium	do.	1.00	.05	.05
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	1.91
Equipment (lubricant and repair)	do.	---	---	.64
Pesticides:				
Materials (various)	Acre	.35	1.89	.66
Custom application	do.	.06	1.00	.06
Insurance, hail and FCIC	Dollar	---	---	.04
Interest on operating expense, 6 months at 7 percent	do.	7.70	.035	.27
Total preharvest cost	Acre	1.00	---	10.51
Harvest costs:[1/]				
Labor, regular	Hour	3.52	1.47	5.17
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	1.99
Equipment (fuel, lubricant, and repair)	do.	---	---	.50
Truck (fuel, lubricant, and repair)	do.	---	---	.40
Custom hire, cutting	Ton	.99	1.40	1.39
Total harvest cost per harvested acre	Acre	1.00	---	9.45
Total harvest cost per planted acre (98 percent harvested)	do.	1.00	---	9.26
Total variable costs per planted acre	do.	1.00	---	19.77

Yield per acre planted 5.1 ton
Yield per acre harvested 5.2 ton

1/ Harvesting costs reflect 19 percent custom cut with the operator performing the remainder of the cutting and all of the hauling and storage with owned equipment.

Table 82.--Corn silage: Estimated inputs and variable costs for Eastern North Dakota Area C

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	2.10	1.47	3.09
Seed, 100 percent purchased	Bushel	.25	13.90	3.48
Fertilizer:				
Available nitrogen	Pound	35.00	.10	3.50
Available phosphorus	do.	15.00	.24	3.60
Available potassium	do.	6.00	.05	.30
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	2.32
Equipment (lubricant and repair)	do.	---	---	.60
Pesticides:				
Materials (various)	Acre	.60	1.89	1.13
Custom application	do.	.10	1.00	.10
Insurance, hail and FCIC	Dollar	---	---	.04
Interest on operating expense, 6 months at 7 percent	do.	15.07	.035	.53
Total preharvest cost	Acre	1.00	---	18.69
Harvest costs:[1/]				
Labor, regular	Hour	4.41	1.47	6.48
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	2.46
Equipment (fuel, lubricant, and repair)	do.	---	---	.61
Truck (fuel, lubricant, and repair)	do.	---	---	.40
Custom hire, cutting	Ton	1.31	1.25	1.64
Total harvest cost per harvested acre	Acre	1.00	---	11.59
Total harvest cost per planted acre (98 percent harvested)	do.	1.00	---	11.36
Total variable costs per planted acre	do.	1.00	---	30.05

Yield per acre planted 6.8 ton
Yield per acre harvested 6.9 ton

1/ Harvesting costs reflect 19 percent custom cut with the operator performing the remainder of the cutting and all of the hauling and storage with owned equipment.

Table 83.--Corn for grain: Estimated inputs and variable costs for Northern South Dakota Area D

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	2.03	1.39	2.82
Seed, 100 percent purchased	Bushel	.20	14.50	2.90
Fertilizer:				
Available nitrogen	Pound	14.00	.10	1.40
Available phosphorus	do.	2.00	.24	.48
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	2.07
Equipment (lubricant and repair)	do.	---	---	.57
Pesticides:				
Materials (various)	Acre	.35	2.00	.70
Custom application	do.	.03	.78	.02
Insurance, hail and FCIC	Dollar	---	---	.04
Interest on operating expense, 6 months at 7 percent	do.	8.18	.035	.29
Total preharvest cost	Acre	1.00	---	11.29
Harvest costs:[1/]				
Labor, regular	Hour	1.01	1.39	1.40
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	1.14
Equipment (fuel, lubricant, and repair)	do.	---	---	.40
Truck (fuel, lubricant, and repair)	do.	---	---	.35
Custom hire, harvesting	Acre	.15	4.00	.60
Other expenses, drying	Bushel	6.00	.06	.36
Total harvest cost per harvested acre	Acre	1.00	---	4.25
Total harvest cost per planted acre (98 percent harvested)	do.	1.00	---	4.17
Total variable costs per planted acre	do.	1.00	---	15.46

Yield per acre planted 25.2 bushel
Yield per acre harvested 25.7 bushel

1/ Harvesting costs reflect 15 percent custom harvested, 71 percent picked with owned equipment, and 14 percent combined with owned equipment.

Table 84.--Corn for grain: Estimated inputs and variable costs for Southwestern South Dakota Area E

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	1.80	1.39	2.50
Seed, 100 percent purchased	Bushel	.15	14.53	2.18
Fertilizer:				
Available nitrogen	Pound	14.00	.10	1.40
Available phosphorus	do.	2.00	.24	.48
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	1.84
Equipment (lubricant and repair)	do.	---	---	.49
Pesticides:				
Materials (various)	Acre	.40	2.45	.98
Custom application	do.	.04	.80	.03
Insurance, hail and FCIC	Dollar	---	---	.08
Interest on operating expense, 6 months at 7 percent	do.	7.48	.035	.26
Total preharvest cost	Acre	1.00	---	10.24
Harvest costs: 1/				
Labor, regular	Hour	1.01	1.39	1.40
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	1.15
Equipment (fuel, lubricant, and repair)	do.	---	---	.37
Truck (fuel, lubricant, and repair)	do.	---	---	.35
Custom hire, harvesting	Acre	.15	4.00	.60
Other expenses, drying	Bushel	6.90	.06	.41
Total harvest cost per harvested acre	Acre	1.00	---	4.28
Total harvest cost per planted acre (97 percent harvested)	do.	1.00	---	4.15
Total variable costs per planted acre	do.	1.00	---	14.39

Yield per acre planted 29.0 bushel
Yield per acre harvested 29.9 bushel

1/ Harvesting costs reflect 15 percent custom harvested, 71 percent picked with owned equipment, and 14 percent combined with owned equipment.

Table 85.--Corn for grain: Estimated inputs and variable costs for Southeastern South Dakota Area F

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	1.05	1.39	1.46
Seed, 100 percent purchased	Bushel	.25	14.52	3.63
Fertilizer:				
Available nitrogen	Pound	42.00	.085	3.57
Available phosphorus	do.	10.00	.24	2.40
Available potassium	do.	3.00	.05	.15
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	2.05
Equipment (lubricant and repair)	do.	---	---	.54
Pesticides:				
Materials (various)	Acre	.70	4.40	3.08
Custom application	do.	.05	.88	.04
Insurance, hail and FCIC	Dollar	---	---	.18
Interest on operating expense, 6 months at 7 percent	do.	15.64	.035	.55
Total preharvest cost	Acre	1.00	---	17.65
Harvest costs:[1/]				
Labor, regular	Hour	1.28	1.39	1.78
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	1.16
Equipment (fuel, lubricant, and repair)	do.	---	---	.41
Truck (fuel, lubricant, and repair)	do.	---	---	.37
Custom hire, harvesting	Acre	.15	3.65	.55
Other expenses, drying	Bushel	11.30	.06	.68
Total harvest cost per harvested acre	Acre	1.00	---	4.95
Total harvest cost per planted acre (98 percent harvested)	do.	1.00	---	4.85
Total variable costs per planted acre	do.	1.00	---	22.50

Yield per acre planted 47.8 bushel
Yield per acre harvested 48.8 bushel

1/ Harvesting costs reflect 15 percent custom harvested, 71 percent picked with owned equipment, and 14 percent combined with owned equipment.

Table 86.--Irrigated corn for grain: Estimated inputs and variable costs for Wyoming Irrigated Area H

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	8.20	1.32	10.82
Seed, 100 percent purchased	Bushel	.20	14.50	2.90
Fertilizer:				
Available nitrogen	Pound	85.00	.085	7.22
Available phosphorus	do.	14.00	.24	3.36
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	3.15
Equipment (lubricant and repair)	do.	---	---	1.47
Irrigation system (fuel, lubricant, and repair)	Acre inch	24.00	.25	6.00
Pesticides:				
Materials (various)	Acre	.75	4.50	3.38
Custom application	do.	.54	2.00	1.08
Insurance, hail and FCIC	Dollar	---	---	.04
Interest on operating expense, 6 months at 7 percent	do.	28.60	.035	1.00
Total preharvest cost	Acre	1.00	---	40.42
Harvest costs:[1/]				
Labor, regular	Hour	1.41	1.32	1.86
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	.45
Equipment (fuel, lubricant, and repair)	do.	---	---	.81
Truck (fuel, lubricant, and repair)	do.	---	---	.53
Custom hire, harvesting	Acre	.20	10.00	2.00
Other expenses, drying	Bushel	30.10	.06	1.81
Total harvest cost per harvested acre	Acre	1.00	---	7.46
Total harvest cost per planted acre (97 percent harvested)	do.	1.00	---	7.24
Total variable costs per planted acre	do.	1.00	---	47.66

Yield per acre planted	81.2 bushel
Yield per acre harvested	83.7 bushel

1/ Harvesting costs reflect 20 percent custom harvested, 60 percent picked with owned equipment, and 20 percent combined with owned equipment.

Table 87.--Corn for grain: Estimated inputs and variable costs for Western Nebraska Area J

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	1.39	1.54	2.14
Seed, 100 percent purchased	Bushel	.125	14.80	1.85
Fertilizer:				
Available nitrogen	Pound	10.00	.078	.78
Available phosphorus	do.	2.00	.23	.46
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	1.15
Equipment (lubricant and repair)	do.	---	---	.43
Pesticides:				
Materials (various)	Acre	.40	3.28	1.31
Custom application	do.	.04	1.20	.05
Insurance, hail and FCIC	Dollar	---	---	.17
Interest on operating expense, 6 months at 7 percent	do.	6.20	.035	.22
Total preharvest cost	Acre	1.00	---	8.56
Harvest costs:[1/]				
Labor, regular	Hour	.94	1.54	1.45
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	.30
Equipment (fuel, lubricant, and repair)	do.	---	---	.92
Truck (fuel, lubricant, and repair)	do.	---	---	.11
Custom hire:				
Harvesting	Acre	.23	4.74	1.09
Hauling	Bushel	4.50	.049	.22
Other expenses, drying	do.	10.10	.07	.71
Total harvest cost per harvested acre	Acre	1.00	---	4.80
Total harvest cost per planted acre (95 percent harvested)	do.	1.00	---	4.56
Total variable costs per planted acre	do.	1.00	---	13.12

Yield per acre planted 18.5 bushel
Yield per acre harvested 19.5 bushel

1/ Harvesting costs reflect 23 percent custom harvested, 31 percent picked with owned equipment, and 46 percent combined with owned equipment.

Table 88.--Corn for grain: Estimated inputs and variable costs for Central Nebraska Area K

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	1.85	1.54	2.85
Seed, 100 percent purchased	Bushel	.143	14.80	2.12
Fertilizer:				
Available nitrogen	Pound	35.00	.062	2.17
Available phosphorus	do.	6.00	.23	1.38
Available potassium	do.	1.00	.05	.05
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	1.56
Equipment (lubricant and repair)	do.	---	---	.53
Pesticides:				
Materials (various)	Acre	.70	4.39	3.07
Custom application	do.	.07	1.20	.08
Insurance, hail and FCIC	Dollar	---	---	.30
Interest on operating expense, 6 months at 7 percent	do.	11.26	.035	.39
Total preharvest cost	Acre	1.00	---	14.50
Harvest costs:[1/]				
Labor, regular	Hour	1.13	1.54	1.74
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	.48
Equipment (fuel, lubricant, and repair)	do.	---	---	.97
Truck (fuel, lubricant, and repair)	do.	---	---	.15
Custom hire:				
Harvesting	Acre	.15	6.18	.93
Hauling	Bushel	4.60	.03	.14
Other expenses, drying	do.	15.20	.07	1.06
Total harvest cost per harvested acre	Acre	1.00	---	5.47
Total harvest cost per planted acre (97 percent harvested)	do.	1.00	---	5.31
Total variable costs per planted acre	do.	1.00	---	19.81

Yield per acre planted 30.0 bushel
Yield per acre harvested 30.9 bushel

1/ Harvesting costs reflect 15 percent custom harvested, 42 percent picked with owned equipment, and 43 percent combined with owned equipment.

Table 89.--Corn for grain: Estimated inputs and variable costs for Eastern Nebraska Area L

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	2.06	1.54	3.17
Seed, 100 percent purchased	Bushel	.214	14.80	3.17
Fertilizer:				
Available nitrogen	Pound	88.00	.072	6.34
Available phosphorus	do.	15.00	.23	3.45
Available potassium	do.	3.00	.05	.15
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	1.74
Equipment (lubricant and repair)	do.	---	---	.49
Pesticides:				
Materials (various)	Acre	.80	5.77	4.62
Custom application	do.	.06	1.20	.07
Insurance, hail and FCIC	Dollar	---	---	.41
Interest on operating expense, 6 months at 7 percent	do.	20.44	.035	.72
Total preharvest cost	Acre	1.00	---	24.33
Harvest costs:[1/]				
Labor, regular	Hour	1.40	1.54	2.16
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	.63
Equipment (fuel, lubricant, and repair)	do.	---	---	.89
Truck (fuel, lubricant, and repair)	do.	---	---	.18
Custom hire:				
Harvesting	Acre	.20	6.36	1.27
Hauling	Bushel	12.90	.05	.65
Other expenses, drying	do.	26.80	.07	1.88
Total harvest cost per harvested acre	Acre	1.00	---	7.66
Total harvest cost per planted acre (98 percent harvested)	do.	1.00	---	7.51
Total variable costs per planted acre	do.	1.00	---	31.84

Yield per acre planted 63.2 bushel
Yield per acre harvested 64.5 bushel

1/ Harvesting costs reflect 20 percent custom harvested, 48 percent picked with owned equipment, and 32 percent combined with owned equipment.

Table 90. Irrigated corn for grain: Estimated inputs and variable costs for Irrigated Nebraska Area M

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	4.77	1.54	7.35
Seed, 100 percent purchased	Bushel	.34	14.80	5.03
Fertilizer:				
Available nitrogen	Pound	135.00	.069	9.32
Available phosphorus	do.	18.00	.23	4.14
Available potassium	do.	3.00	.05	.15
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	2.69
Equipment (lubricant and repair)	do.	---	---	.70
Irrigation system (fuel, lubricant, and repair)	Acre inch	12.00	.253	3.04
Pesticides:				
Materials (various)	Acre	.75	6.71	5.03
Custom application	do.	.06	1.20	.07
Insurance, hail and FCIC	Dollar	---	---	.50
Interest on operating expense, 6 months at 7 percent	do.	30.67	.035	1.07
Total preharvest cost	Acre	1.00	---	39.09
Harvest costs:[1/]				
Labor, regular	Hour	1.68	1.54	2.59
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	.65
Equipment (fuel, lubricant, and repair)	do.	---	---	.87
Truck (fuel, lubricant, and repair)	do.	---	---	.30
Custom hire:				
Harvesting	Acre	.16	9.13	1.46
Hauling	Bushel	16.40	.05	.82
Other expenses, drying	do.	46.20	.07	3.23
Total harvest cost per harvested acre	Acre	1.00	---	9.92
Total harvest cost per planted acre (98 percent harvested)	do.	1.00	---	9.72
Total variable costs per planted acre	do.	1.00	---	48.81

Yield per acre planted	100.5 bushel
Yield per acre harvested	102.6 bushel

1/ Harvesting costs reflect 16 percent custom harvested, 50 percent picked with owned equipment, and 34 percent combined with owned equipment.

Table 91.--Corn for grain: Estimated inputs and variable costs for Northeastern Colorado Area N

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	1.17	1.38	1.61
Seed, 100 percent purchased	Bushel	.12	15.10	1.81
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	1.05
Equipment (lubricant and repair)	do.	---	---	.27
Pesticides:				
Materials (various)	Acre	.10	1.80	.18
Custom application	do.	.03	2.00	.06
Insurance, hail and FCIC	Dollar	---	---	.09
Interest on operating expense, 6 months at 7 percent	do.	3.46	.035	.12
Total preharvest cost	Acre	1.00	---	5.19
Harvest costs:[1/]				
Labor, regular	Hour	.66	1.38	.91
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	.15
Equipment (fuel, lubricant, and repair)	do.	---	---	.52
Truck (fuel, lubricant, and repair)	do.	---	---	.20
Custom hire, harvesting	Acre	.30	4.00	1.20
Other expenses, drying	Bushel	8.10	.06	.49
Total harvest cost per harvested acre	Acre	1.00	---	3.47
Total harvest cost per planted acre (90 percent harvested)	do.	1.00	---	3.12
Total variable costs per planted acre	do.	1.00	---	8.31

Yield per acre planted 13.0 bushel
Yield per acre harvested 14.5 bushel

1/ Harvesting costs reflect 30 percent custom harvested, 38 percent picked with owned equipment, and 32 percent combined with owned equipment.

Table 92.--Irrigated corn for grain: Estimated inputs and variable costs for Colorado Irrigated Area R

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	7.40	1.38	10.21
Seed, 100 percent purchased	Bushel	.25	15.10	3.78
Fertilizer:				
Available nitrogen	Pound	88.00	.085	7.48
Available phosphorus	do.	7.00	.24	1.68
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	2.91
Equipment (lubricant and repair)	do.	---	---	1.46
Irrigation system (fuel, lubricant, and repair)	Acre inch	24.00	.25	6.00
Pesticides:				
Materials (various)	Acre	.56	4.71	2.64
Custom application	do.	.18	2.50	.45
Insurance, hail and FCIC	Dollar	---	---	.13
Interest on operating expense, 6 months at 7 percent	do.	26.53	.035	.93
Total preharvest cost	Acre	1.00	---	37.67
Harvest costs:[1/]				
Labor, regular	Hour	1.20	1.38	1.66
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	.28
Equipment (fuel, lubricant, and repair)	do.	---	---	.95
Truck (fuel, lubricant, and repair)	do.	---	---	.44
Custom hire, harvesting	Acre	.30	10.00	3.00
Other expenses, drying	Bushel	51.30	.06	3.08
Total harvest cost per harvested acre	Acre	1.00	---	9.41
Total harvest cost per planted acre (97 percent harvested)	do.	1.00	---	9.13
Total variable costs per planted acre	do.	1.00	---	46.80

Yield per acre planted	89.2 bushel
Yield per acre harvested	92.0 bushel

1/ Harvesting costs reflect 30 percent custom harvested, 38 percent picked with owned equipment, and 32 percent combined with owned equipment.

Table 93.--Corn for grain: Estimated inputs and variable costs for Central Kansas Area V

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	1.90	1.53	2.91
Seed, 100 percent purchased	Bushel	.179	13.60	2.43
Fertilizer:				
Available nitrogen	Pound	65.00	.09	5.85
Available phosphorus	do.	9.00	.22	1.98
Available potassium	do.	2.00	.05	.10
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	1.40
Equipment (lubricant and repair)	do.	---	---	.45
Pesticides:				
Materials (various)	Acre	.54	5.35	2.89
Custom application	do.	.03	1.20	.04
Insurance, hail and FCIC	Dollar	---	---	.20
Interest on operating expense, 6 months at 7 percent	do.	15.34	.035	.54
Total preharvest cost	Acre	1.00	---	18.79
Harvest costs:[1/]				
Labor, regular	Hour	1.00	1.53	1.53
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	.38
Equipment (fuel, lubricant, and repair)	do.	---	---	.91
Truck (fuel, lubricant, and repair)	do.	---	---	.14
Custom hire:				
Harvesting	Acre	.24	5.88	1.41
Hauling	Bushel	8.60	.05	.43
Other expenses, drying	do.	17.50	.07	1.23
Total harvest cost per harvested acre	Acre	1.00	---	6.03
Total harvest cost per planted acre (96 percent harvested)	do.	1.00	---	5.79
Total variable costs per planted acre	do.	1.00	---	24.58

Yield per acre planted 34.5 bushel
Yield per acre harvested 35.9 bushel

1/ Harvesting costs reflect 24 percent custom harvested, 39 percent picked with owned equipment, and 37 percent combined with owned equipment.

Table 94.--Corn for grain: Estimated inputs and variable costs for Eastern Kansas Area W

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	2.28	1.53	3.49
Seed, 100 percent purchased	Bushel	.196	13.60	2.67
Fertilizer and lime:				
Available nitrogen	Pound	95.00	.097	9.22
Available phosphorus	do.	12.00	.22	2.64
Available potassium	do.	4.00	.05	.20
Lime	Ton	.08	4.00	.32
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	1.80
Equipment (lubricant and repair)	do.	---	---	.62
Pesticides:				
Materials (various)	Acre	.72	6.18	4.45
Custom application	do.	.04	1.20	.05
Insurance, hail and FCIC	Dollar	---	---	.20
Interest on operating expense, 6 months at 7 percent	do.	22.17	.035	.78
Total preharvest cost	Acre	1.00	---	26.44
Harvest costs:1/				
Labor, regular	Hour	1.33	1.53	2.03
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	.42
Equipment (fuel, lubricant, and repair)	do.	---	---	1.02
Truck (fuel, lubricant, and repair)	do.	---	---	.18
Custom hire:				
Harvesting	Acre	.24	7.10	1.70
Hauling	Bushel	14.70	.05	.74
Other expenses, drying	do.	29.90	.07	2.09
Total harvest cost per harvested acre	Acre	1.00	---	8.18
Total harvest cost per planted acre (97 percent harvested)	do.	1.00	---	7.93
Total variable costs per planted acre	do.	1.00	---	34.37

Yield per acre planted	59.5 bushel
Yield per acre harvested	61.3 bushel

1/ Harvesting costs reflect 24 percent custom harvested, 39 percent picked with owned equipment, and 37 percent combined with owned equipment.

Table 95.--Irrigated corn for grain: Estimated inputs and variable costs for Kansas Irrigated Area Y

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	5.96	1.53	9.12
Seed, 100 percent purchased	Bushel	.32	13.60	4.35
Fertilizer:				
Available nitrogen	Pound	128.00	.076	9.73
Available phosphorus	do.	12.00	.22	2.64
Available potassium	do.	1.00	.05	.05
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	2.87
Equipment (lubricant and repair)	do.	---	---	.80
Irrigation system (fuel, lubricant, and repair)	Acre inch	24.00	.194	4.66
Pesticides:				
Materials (various)	Acre	.60	5.35	3.21
Custom application	do.	.04	1.10	.04
Insurance, hail and FCIC	Dollar	---	---	.30
Interest on operating expense, 6 months at 7 percent	do.	28.65	.035	1.00
Total preharvest cost	Acre	1.00	---	38.77
Harvest costs:[1/]				
Labor, regular	Hour	1.52	1.53	2.33
Power and equipment:				
Combine (fuel, lubricant, and repair)	Dollar	---	---	1.54
Truck (fuel, lubricant, and repair)	do.	---	---	.48
Custom hire:				
Harvesting	Acre	.24	8.51	2.04
Hauling	Bushel	21.60	.05	1.08
Other expenses, drying	do.	81.20	.07	5.68
Total harvest cost per harvested acre	Acre	1.00	---	13.15
Total harvest cost per planted acre (97 percent harvested)	do.	1.00	---	12.76
Total variable costs per planted acre	do.	1.00	---	51.53

Yield per acre planted 87.5 bushel
Yield per acre harvested 90.2 bushel

1/ Harvesting costs reflect 24 percent custom harvested and 76 percent combined with owned equipment.

Table 96.--Grain sorghum: Estimated inputs and variable costs for Northern South Dakota Area D

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	1.98	1.39	2.75
Seed, 100 percent purchased	Pound	5.00	.204	1.02
Fertilizer:				
Available nitrogen	do.	3.00	.10	.30
Available phosphorus	do.	1.00	.24	.24
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	2.03
Equipment (lubricant and repair)	do.	---	---	.55
Pesticides, materials (various)	Acre	.33	.42	.14
Interest on operating expense, 6 months at 7 percent	Dollar	4.28	.035	.15
Total preharvest cost	Acre	1.00	---	7.18
Harvest costs:[1/]				
Labor, regular	Hour	.63	1.39	.88
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	.11
Combine (fuel, lubricant, and repair)	do.	---	---	.67
Truck (fuel, lubricant, and repair)	do.	---	---	.34
Custom hire:				
Combining	Acre	.22	4.00	.88
Hauling	Bushel	5.70	.05	.29
Other expenses, drying	do.	7.80	.06	.47
Total harvest cost per harvested acre	Acre	1.00	---	3.64
Total harvest cost per planted acre (96 percent harvested)	do.	1.00	---	3.49
Total variable costs per planted acre	do.	1.00	---	10.67

Yield per acre planted 25.0 bushel
Yield per acre harvested 26.0 bushel

1/ Harvesting costs reflect 22 percent custom combined and hauled and 78 percent combined and hauled with owned equipment.

Table 97.--Grain sorghum: Estimated inputs and variable costs for Southwestern South Dakota Area E

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	1.72	1.39	2.39
Seed, 100 percent purchased	Pound	4.00	.205	.82
Fertilizer:				
Available nitrogen	do.	16.00	.10	1.60
Available phosphorus	do.	3.00	.24	.72
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	1.81
Equipment (lubricant and repair)	do.	---	---	.47
Pesticides, materials (various)	Acre	.60	.52	.31
Interest on operating expense, 6 months at 7 percent	Dollar	5.73	.035	.20
Total preharvest cost	Acre	1.00	---	8.32
Harvest costs:[1/]				
Labor, regular	Hour	.58	1.39	.81
Power and equipment:				
Combine (fuel, lubricant, and repair)	Dollar	---	---	.73
Truck (fuel, lubricant, and repair)	do.	---	---	.32
Custom hire:				
Combining	Acre	.25	4.00	1.00
Hauling	Bushel	8.00	.05	.40
Other expenses, drying	do.	9.50	.06	.57
Total harvest cost per harvested acre	Acre	1.00	---	3.83
Total harvest cost per planted acre (96 percent harvested)	do.	1.00	---	3.68
Total variable costs per planted acre	do.	1.00	---	12.00

Yield per acre planted 30.5 bushel
Yield per acre harvested 31.8 bushel

1/ Harvesting costs reflect 25 percent custom combined and hauled and 75 percent combined and hauled with owned equipment.

Table 98.--Grain sorghum: Estimated inputs and variable costs for Southeastern South Dakota Area F

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	.94	1.39	1.31
Seed, 100 percent purchased	Pound	5.00	.244	1.22
Fertilizer:				
Available nitrogen	do.	28.00	.085	2.38
Available phosphorus	do.	4.00	.24	.96
Available potassium	do.	1.00	.05	.05
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	2.02
Equipment (lubricant and repair)	do.	---	---	.52
Pesticides, materials (various)	Acre	.80	1.20	.96
Insurance, hail and FCIC	Dollar	---	---	.05
Interest on operating expense, 6 months at 7 percent	do.	8.16	.035	.29
Total preharvest cost	Acre	1.00	---	9.76
Harvest costs: 1/				
Labor, regular	Hour	.69	1.39	.96
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	.25
Combine (fuel, lubricant, and repair)	do.	---	---	.64
Truck (fuel, lubricant, and repair)	do.	---	---	.33
Custom hire:				
Combining	Acre	.28	4.00	1.12
Hauling	Bushel	11.50	.05	.58
Other expenses, drying	do.	12.40	.06	.74
Total harvest cost per harvested acre	Acre	1.00	---	4.62
Total harvest cost per planted acre (96 percent harvested)	do.	1.00	---	4.44
Total variable costs per planted acre	do.	1.00	---	14.20

Yield per acre planted 39.6 bushel
Yield per acre harvested 41.2 bushel

1/ Harvesting costs reflect 28 percent custom combined and hauled and 72 percent combined and hauled with owned equipment.

Table 99.--Grain sorghum: Estimated inputs and variable costs for Western Nebraska Area J

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	1.14	1.54	1.76
Seed, 100 percent purchased	Pound	2.50	.209	.52
Fertilizer:				
Available nitrogen	do.	4.00	.078	.31
Available phosphorus	do.	1.00	.23	.23
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	.91
Equipment (lubricant and repair)	do.	---	---	.37
Pesticides:				
Materials (various)	Acre	.13	.59	.08
Custom application	do.	.10	1.20	.12
Interest on operating expense, 6 months at 7 percent	Dollar	2.54	.035	.09
Total preharvest cost	Acre	1.00	---	4.39
Harvest costs:[1/]				
Labor, regular	Hour	.42	1.54	.65
Power and equipment:				
Combine (fuel, lubricant, and repair)	Dollar	---	---	.51
Truck (fuel, lubricant, and repair)	do.	---	---	.11
Custom hire:				
Combining	Acre	.33	3.52	1.16
Hauling	Bushel	7.90	.05	.40
Other expenses, drying	do.	6.00	.07	.42
Total harvest cost per harvested acre	Acre	1.00	---	3.25
Total harvest cost per planted acre (95 percent harvested)	do.	1.00	---	3.09
Total variable costs per planted acre	do.	1.00	---	7.48

Yield per acre planted 22.6 bushel
Yield per acre harvested 23.8 bushel

1/ Harvesting costs reflect 33 percent custom combined and hauled and 67 percent combined and hauled with owned equipment.

Table 100.--Grain sorghum: Estimated inputs and variable costs for Central Nebraska Area K

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	1.63	1.54	2.51
Seed, 100 percent purchased	Pound	3.50	.209	.73
Fertilizer:				
Available nitrogen	do.	20.00	.062	1.24
Available phosphorus	do.	4.00	.23	.92
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	1.38
Equipment (lubricant and repair)	do.	---	---	.52
Pesticides:				
Materials (various)	Acre	.26	1.31	.34
Custom application	do.	.10	1.20	.12
Insurance, hail and FCIC	Dollar	---	---	.03
Interest on operating expense, 6 months at 7 percent	do.	5.28	.035	.18
Total preharvest cost	Acre	1.00	---	7.97
Harvest costs:1/				
Labor, regular	Hour	.48	1.54	.74
Power and equipment:				
Combine (fuel, lubricant, and repair)	Dollar	---	---	.66
Truck (fuel, lubricant, and repair)	do.	---	---	.17
Custom hire:				
Combining	Acre	.26	4.24	1.10
Hauling	Bushel	7.70	.03	.23
Other expenses, drying	do.	8.90	.07	.62
Total harvest cost per harvested acre	Acre	1.00	---	3.52
Total harvest cost per planted acre (96 percent harvested)	do.	1.00	---	3.38
Total variable costs per planted acre	do.	1.00	---	11.35

Yield per acre planted 28.5 bushel
Yield per acre harvested 29.7 bushel

1/ Harvesting costs reflect 26 percent custom combined and hauled and 74 percent combined and hauled with owned equipment.

Table 101.--Grain sorghum: Estimated inputs and variable costs for Eastern Nebraska Area L

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	1.71	1.54	2.63
Seed, 100 percent purchased	Pound	5.00	.209	1.05
Fertilizer:				
Available nitrogen	do.	74.00	.072	5.33
Available phosphorus	do.	10.00	.23	2.30
Available potassium	do.	2.00	.05	.10
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	1.44
Equipment (lubricant and repair)	do.	---	---	.45
Pesticides, materials (various)	Acre	.50	2.30	1.15
Insurance, hail and FCIC	Dollar	---	---	.06
Interest on operating expense, 6 months at 7 percent	do.	11.88	.035	.42
Total preharvest cost	Acre	1.00	---	14.93
Harvest costs:1/				
Labor, regular	Hour	.74	1.54	1.14
Power and equipment:				
Combine (fuel, lubricant, and repair)	Dollar	---	---	.99
Truck (fuel, lubricant, and repair)	do.	---	---	.27
Custom hire:				
Combining	Acre	.16	5.43	.87
Hauling	Bushel	10.40	.05	.52
Other expenses, drying	do.	19.50	.07	1.37
Total harvest cost per harvested acre	Acre	1.00	---	5.16
Total harvest cost per planted acre (97 percent harvested)	do.	1.00	---	5.01
Total variable costs per planted acre	do.	1.00	---	19.94

Yield per acre planted	63.0 bushel
Yield per acre harvested	64.9 bushel

1/ Harvesting costs reflect 16 percent custom combined and hauled and 84 percent combined and hauled with owned equipment

Table 102.--Irrigated grain sorghum: Estimated inputs and variable costs for Nebraska Irrigated Area M

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	4.31	1.54	6.64
Seed, 100 percent purchased	Pound	10.00	.209	2.09
Fertilizer:				
Available nitrogen	do.	119.00	.07	8.33
Available phosphorus	do.	12.00	.23	2.76
Available potassium	do.	2.00	.05	.10
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	2.29
Equipment (lubricant and repair)	do.	---	---	.60
Irrigation system (fuel, lubricant, and repair)	Acre inch	12.00	.253	3.04
Pesticides, materials (various)	Acre	.52	3.52	1.83
Insurance, hail and FCIC	Dollar	---	---	.10
Interest on operating expense, 6 months at 7 percent	do.	21.14	.035	.74
Total preharvest cost	Acre	1.00	---	28.52
Harvest costs:[1/]				
Labor, regular	Hour	.76	1.54	1.17
Power and equipment:				
Combine (fuel, lubricant, and repair)	Dollar	---	---	.91
Truck (fuel, lubricant, and repair)	do.	---	---	.49
Custom hire:				
Combining	Acre	.26	6.71	1.74
Hauling	Bushel	24.50	.05	1.22
Other expenses, drying	do.	28.30	.07	1.98
Total harvest cost per harvested acre	Acre	1.00	---	7.51
Total harvest cost per planted acre (97 percent harvested)	do.	1.00	---	7.28
Total variable costs per planted acre	do.	1.00	---	35.80

Yield per acre planted 91.5 bushel
Yield per acre harvested 94.3 bushel

1/ Harvesting costs reflect 26 percent custom combined and hauled and 74 percent combined and hauled with owned equipment.

Table 103.--Grain sorghum: Estimated inputs and variable costs for Northern Colorado Area N

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	.97	1.38	1.34
Seed, 100 percent purchased	Pound	2.00	.219	.44
Fertilizer, available nitrogen	do.	1.00	.10	.10
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	1.01
Equipment (lubricant and repair)	do.	---	---	.28
Pesticides:				
Materials (various)	Acre	.16	.60	.10
Custom application	do.	.08	1.50	.12
Interest on operating expense, 6 months at 7 percent	Dollar	2.05	.035	.07
Total preharvest cost	Acre	1.00	---	3.46
Harvest costs:1/				
Labor, regular	Hour	.31	1.38	.43
Power and equipment:				
Combine (fuel, lubricant, and repair)	Dollar	---	---	.38
Truck (fuel, lubricant, and repair)	do.	---	---	.16
Custom hire:				
Combining	Acre	.34	3.25	1.11
Hauling	Bushel	5.44	.06	.33
Other expenses, drying	do.	3.20	.06	.19
Total harvest cost per harvested acre	Acre	1.00	---	2.60
Total harvest cost per planted acre (90 percent harvested)	do.	1.00	---	2.34
Total variable costs per planted acre	do.	1.00	---	5.80

Yield per acre planted	14.4 bushel
Yield per acre harvested	16.0 bushel

1/ Harvesting costs reflect 34 percent custom combined and hauled and 66 percent combined and hauled with owned equipment.

Table 104.--Grain sorghum: Estimated inputs and variable costs for Southeastern Colorado Area P

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	.74	1.38	1.02
Seed, 100 percent purchased	Pound	2.00	.219	.44
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	.71
Equipment (lubricant and repair)	do.	---	---	.25
Pesticides:				
Materials (various)	Acre	.09	.55	.05
Custom application	do.	.04	1.10	.04
Interest on operating expense, 6 months at 7 percent	Dollar	1.49	.035	.05
Total preharvest cost	Acre	1.00	---	2.56
Harvest costs:1/				
Labor, regular	Hour	.26	1.38	.36
Power and equipment:				
Combine (fuel, lubricant, and repair)	Dollar	---	---	.32
Truck (fuel, lubricant, and repair)	do.	---	---	.10
Custom hire:				
Combining	Acre	.36	3.20	1.15
Hauling	Bushel	4.50	.06	.27
Other expenses, drying	do.	2.50	.06	.15
Total harvest cost per harvested acre	Acre	1.00	---	2.35
Total harvest cost per planted acre (85 percent harvested)	do.	1.00	---	2.00
Total variable costs per planted acre	do.	1.00	---	4.56

Yield per acre planted 10.6 bushel
Yield per acre harvested 12.5 bushel

1/ Harvesting costs reflect 36 percent custom combined and hauled and 64 percent combined and hauled with owned equipment.

Table 105.--Irrigated grain sorghum: Estimated inputs and variable costs for Colorado Irrigated Area R

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	4.85	1.38	6.69
Seed, 100 percent purchased	Pound	8.00	.219	1.75
Fertilizer:				
Available nitrogen	do.	78.00	.085	6.63
Available phosphorus	do.	3.00	.24	.72
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	2.54
Equipment (lubricant and repair)	do.	---	---	1.27
Irrigation system (fuel, lubricant, and repair)	Acre inch	12.00	.25	3.00
Pesticides:				
Materials (various)	Acre	.31	1.89	.59
Custom application	do.	.16	1.50	.24
Interest on operating expense, 6 months at 7 percent	Dollar	16.74	.035	.59
Total preharvest cost	Acre	1.00	---	24.02
Harvest costs:[1/]				
Labor, regular	Hour	.68	1.38	.94
Power and equipment:				
Combine (fuel, lubricant, and repair)	Dollar	---	---	.84
Truck (fuel, lubricant, and repair)	do.	---	---	.40
Custom hire:				
Combining	Acre	.35	6.00	2.10
Hauling	Bushel	27.20	.06	1.63
Other expenses, drying	do.	15.60	.06	.94
Total harvest cost per harvested acre	Acre	1.00	---	6.85
Total harvest cost per planted acre (93 percent harvested)	do.	1.00	---	6.37
Total variable costs per planted acre	do.	1.00	---	30.39

Yield per acre planted	72.4 bushel
Yield per acre harvested	77.8 bushel

1/ Harvesting costs reflect 35 percent custom combined and hauled and 65 percent combined and hauled with owned equipment.

Table 106.--Grain sorghum: Estimated inputs and variable costs for Western Kansas Area S

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	.90	1.53	1.38
Seed, 100 percent purchased	Pound	2.50	.199	.50
Fertilizer, available nitrogen	do.	3.00	.063	.19
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	.74
Equipment (lubricant and repair)	do.	---	---	.38
Pesticides:				
Materials (various)	Acre	.10	.59	.06
Custom application	do.	.08	1.10	.09
Insurance, hail and FCIC	Dollar	---	---	.05
Interest on operating expense, 6 months at 7 percent	do.	2.01	.035	.07
Total preharvest cost	Acre	1.00	---	3.46
Harvest costs:[1/]				
Labor, regular	Hour	.42	1.53	.64
Power and equipment:				
Combine (fuel, lubricant, and repair)	Dollar	---	---	.48
Truck (fuel, lubricant, and repair)	do.	---	---	.09
Custom hire:				
Combining	Acre	.30	3.19	.96
Hauling	Bushel	6.20	.05	.31
Other expenses, drying	do.	5.20	.07	.36
Total harvest cost per harvested acre	Acre	1.00	---	2.84
Total harvest cost per planted acre (95 percent harvested)	do.	1.00	---	2.70
Total variable costs per planted acre	do.	1.00	---	6.16

Yield per acre planted	19.8 bushel
Yield per acre harvested	20.8 bushel

1/ Harvesting costs reflect 30 percent custom combined and hauled and 70 percent combined and hauled with owned equipment.

Table 107.--Grain sorghum: Estimated inputs and variable costs for Kansas Transition Area T

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	1.55	1.53	2.37
Seed, 100 percent purchased	Pound	3.50	.199	.70
Fertilizer:				
Available nitrogen	do.	16.00	.088	1.41
Available phosphorus	do.	2.00	.22	.44
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	1.23
Equipment (lubricant and repair)	do.	---	---	.66
Pesticides:				
Materials (various)	Acre	.13	.59	.08
Custom application	do.	.06	1.10	.07
Insurance, hail and FCIC	Dollar	---	---	.05
Interest on operating expense, 6 months at 7 percent	do.	4.64	.035	.16
Total preharvest cost	Acre	1.00	---	7.17
Harvest costs:1/				
Labor, regular	Hour	.47	1.53	.72
Power and equipment:				
Combine (fuel, lubricant, and repair)	Dollar	---	---	.63
Truck (fuel, lubricant, and repair)	do.	---	---	.14
Custom hire:				
Combining	Acre	.26	3.70	.96
Hauling	Bushel	6.30	.05	.32
Other expenses, drying	do.	6.00	.07	.42
Total harvest cost per harvested acre	Acre	1.00	---	3.19
Total harvest cost per planted acre (96 percent harvested)	do.	1.00	---	3.06
Total variable costs per planted acre	do.	1.00	---	10.23

Yield per acre planted	23.1 bushel
Yield per acre harvested	24.1 bushel

1/ Harvesting costs reflect 26 percent custom combined and hauled and 74 percent combined and hauled with owned equipment.

Table 108.--Grain sorghum: Estimated inputs and variable costs for Central Kansas Area V

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	1.59	1.53	2.43
Seed, 100 percent purchased	Pound	4.00	.199	.80
Fertilizer:				
Available nitrogen	do.	42.00	.09	3.78
Available phosphorus	do.	9.00	.22	1.98
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	1.18
Equipment (lubricant and repair)	do.	---	---	.37
Pesticides, materials (various)	Acre	.44	1.71	.75
Insurance, hail and FCIC	Dollar	---	---	.05
Interest on operating expense, 6 months at 7 percent	do.	8.91	.035	.31
Total preharvest cost	Acre	1.00	---	11.65
Harvest costs:[1/]				
Labor, regular	Hour	.64	1.53	.98
Power and equipment:				
Combine (fuel, lubricant, and repair)	Dollar	---	---	.85
Truck (fuel, lubricant, and repair)	do.	---	---	.14
Custom hire:				
Combining	Acre	.18	4.20	.76
Hauling	Bushel	6.70	.05	.34
Other expenses, drying	do.	11.10	.07	.78
Total harvest cost per harvested acre	Acre	1.00	---	3.85
Total harvest cost per planted acre (97 percent harvested)	do.	1.00	---	3.73
Total variable costs per planted acre	do.	1.00	---	15.38

Yield per acre planted 36.0 bushel
Yield per acre harvested 37.1 bushel

1/ Harvesting costs reflect 18 percent custom combined and hauled and 82 percent combined and hauled with owned equipment.

Table 109.--Grain sorghum: Estimated inputs and variable costs for Eastern Kansas Area W

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	1.93	1.53	2.95
Seed, 100 percent purchased	Pound	5.20	.199	1.03
Fertilizer and lime:				
Available nitrogen	do.	52.00	.097	5.04
Available phosphorus	do.	12.00	.22	2.64
Available potassium	do.	3.00	.05	.15
Lime	Ton	.08	4.00	.32
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	1.53
Equipment (lubricant and repair)	do.	---	---	.55
Pesticides, materials (various)	Acre	.51	2.21	1.13
Insurance, hail and FCIC	Dollar	---	---	.05
Interest on operating expense, 6 months at 7 percent	do.	12.44	.035	.44
Total preharvest cost	Acre	1.00	---	15.83
Harvest costs:1/				
Labor, regular	Hour	.81	1.53	1.24
Power and equipment:				
Combine (fuel, lubricant, and repair)	Dollar	---	---	1.07
Truck (fuel, lubricant, and repair)	do.	---	---	.27
Custom hire:				
Combining	Acre	.10	5.60	.56
Hauling	Bushel	6.00	.05	.30
Other expenses, drying	do.	18.00	.07	1.26
Total harvest cost per harvested acre	Acre	1.00	---	4.70
Total harvest cost per planted acre (97 percent harvested)	do.	1.00	---	4.56
Total variable costs per planted acre	do.	1.00	---	20.39

Yield per acre planted 58.2 bushel
Yield per acre harvested 60.0 bushel

1/ Harvesting costs reflect 10 percent custom combined and hauled and 90 percent combined and hauled with owned equipment.

Table 110.--Irrigated grain sorghum: Estimated inputs and variable costs for Kansas Irrigated Area Y

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	4.87	1.53	7.45
Seed, 100 percent purchased	Pound	10.00	.199	1.99
Fertilizer:				
Available nitrogen	do.	105.00	.067	7.04
Available phosphorus	do.	3.00	.22	.66
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	2.42
Equipment (lubricant and repair)	do.	---	---	.73
Irrigation system (fuel, lubricant, and repair)	Acre inch	18.00	.21	3.78
Pesticides:				
Materials (various)	Acre	.36	1.89	.68
Custom application	do.	.08	1.10	.09
Insurance, hail and FCIC	Dollar	---	---	.05
Interest on operating expense, 6 months at 7 percent	do.	17.44	.035	.61
Total preharvest cost	Acre	1.00	---	25.50
Harvest costs:[1/]				
Labor, regular	Hour	.83	1.53	1.27
Power and equipment:				
Combine (fuel, lubricant, and repair)	Dollar	---	---	.95
Truck (fuel, lubricant, and repair)	do.	---	---	.47
Custom hire:				
Combining	Acre	.23	6.60	1.52
Hauling	Bushel	20.80	.05	1.04
Other expenses, drying	do.	27.10	.07	1.90
Total harvest cost per harvested acre	Acre	1.00	---	7.15
Total harvest cost per planted acre (97 percent harvested)	do.	1.00	---	6.94
Total variable costs per planted acre	do.	1.00	---	32.44

Yield per acre planted	87.6 bushel
Yield per acre harvested	90.3 bushel

1/ Harvesting costs reflect 23 percent custom combined and hauled and 77 percent combined and hauled with owned equipment.

Table 111.--Oats: Estimated inputs and variable costs for Western North Dakota Area A

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	.85	1.47	1.25
Seed, 25 percent purchased	Bushel	1.80	.87	1.57
Fertilizer:				
Available nitrogen	Pound	1.00	.10	.10
Available phosphorus	do.	1.00	.24	.24
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	.84
Equipment (lubricant and repair)	do.	---	---	.39
Pesticides:				
Materials (various)	Acre	.45	.30	.14
Custom application	do.	.23	1.00	.23
Insurance, hail and FCIC	Dollar	---	---	.10
Interest on operating expense, 6 months at 7 percent	do.	3.61	.035	.13
Total preharvest cost	Acre	1.00	---	4.99
Harvest costs:[1/]				
Labor, regular	Hour	.70	1.47	1.03
Power and equipment:				
Swather (fuel, lubricant, and repair)	Dollar	---	---	.23
Combine (fuel, lubricant, and repair)	do.	---	---	.71
Truck (fuel, lubricant, and repair)	do.	---	---	.24
Custom hire:				
Combining	Acre	.16	3.95	.63
Hauling	Bushel	5.40	.05	.27
Total harvest cost per harvested acre	Acre	1.00	---	3.11
Total harvest cost per planted acre (86 percent harvested)	do.	1.00	---	2.67
Total variable costs per planted acre	do.	1.00	---	7.66

Yield per acre planted 29.0 bushel
Yield per acre harvested 33.7 bushel

1/ Harvesting costs reflect 16 percent custom combined and hauled and 84 percent combined and hauled with owned equipment.

Table 112.--Oats: Estimated inputs and variable costs for Central North Dakota Area B

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	.91	1.47	1.34
Seed, 25 percent purchased	Bushel	1.90	.87	1.65
Fertilizer:				
Available nitrogen	Pound	2.00	.10	.20
Available phosphorus	do.	3.00	.24	.72
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	.94
Equipment (lubricant and repair)	do.	---	---	.40
Pesticides:				
Materials (various)	Acre	.60	.34	.20
Custom application	do.	.30	1.00	.30
Insurance, hail and FCIC	Dollar	---	---	.14
Interest on operating expense, 6 months at 7 percent	do.	4.55	.035	.16
Total preharvest cost	Acre	1.00	---	6.05
Harvest costs:[1/]				
Labor, regular	Hour	.78	1.47	1.15
Power and equipment:				
Swather (fuel, lubricant, and repair)	Dollar	---	---	.31
Combine (fuel, lubricant, and repair)	do.	---	---	.69
Truck (fuel, lubricant, and repair)	do.	---	---	.25
Custom hire:				
Combining	Acre	.15	4.40	.66
Hauling	Bushel	6.20	.03	.19
Total harvest cost per harvested acre	Acre	1.00	---	3.25
Total harvest cost per planted acre (91 percent harvested)	do.	1.00	---	2.96
Total variable costs per planted acre	do.	1.00	---	9.01

Yield per acre planted 37.9 bushel
Yield per acre harvested 41.6 bushel

1/ Harvesting costs reflect 15 percent custom combined and hauled and 85 percent combined and hauled with owned equipment.

Table 113.--Oats: Estimated inputs and variable costs for Eastern North Dakota Area C

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	1.39	1.47	2.04
Seed, 25 percent purchased	Bushel	1.90	.88	1.67
Fertilizer:				
Available nitrogen	Pound	12.00	.10	1.20
Available phosphorus	do.	10.00	.24	2.40
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	1.39
Equipment (lubricant and repair)	do.	---	---	.48
Pesticides:				
Materials (various)	Acre	.90	.36	.32
Custom application	do.	.45	1.00	.45
Insurance, hail and FCIC	Dollar	---	---	.17
Interest on operating expense, 6 months at 7 percent	do.	8.08	.035	.28
Total preharvest cost	Acre	1.00	---	10.40
Harvest costs:[1/]				
Labor, regular	Hour	.90	1.47	1.32
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	.16
Equipment (fuel, lubricant, and repair)	do.	---	---	.89
Truck (fuel, lubricant, and repair)	do.	---	---	.32
Custom hire:				
Combining	Acre	.15	4.95	.74
Hauling	Bushel	7.80	.05	.39
Total harvest cost per harvested acre	Acre	1.00	---	3.82
Total harvest cost per planted acre (94 percent harvested)	do.	1.00	---	3.59
Total variable costs per planted acre	do.	1.00	---	13.99

Yield per acre planted 48.9 bushel
Yield per acre harvested 52.0 bushel

1/ Harvesting costs reflect 15 percent custom combined and hauled and 85 percent combined and hauled with owned equipment.

Table 114.--Oats: Estimated inputs and variable costs for Northern South Dakota Area D

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	1.42	1.39	1.97
Seed, 25 percent purchased	Bushel	2.00	1.08	2.16
Fertilizer:				
Available nitrogen	Pound	6.00	.10	.60
Available phosphorus	do.	2.00	.24	.48
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	1.41
Equipment (lubricant and repair)	do.	---	---	.51
Pesticides:				
Materials (various)	Acre	.40	.38	.15
Custom application	do.	.10	.90	.09
Insurance, hail and FCIC	Dollar	---	---	.14
Interest on operating expense, 6 months at 7 percent	do.	5.54	.035	.19
Total preharvest cost	Acre	1.00	---	7.70
Harvest costs:[1/]				
Labor, regular	Hour	.77	1.39	1.07
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	.11
Equipment (fuel, lubricant, and repair)	do.	---	---	.86
Truck (fuel, lubricant, and repair)	do.	---	---	.33
Custom hire:				
Combining	Acre	.22	3.70	.81
Hauling	Bushel	8.00	.05	.40
Total harvest cost per harvested acre	Acre	1.00	---	3.58
Total harvest cost per planted acre (91 percent harvested)	do.	1.00	---	3.26
Total variable costs per planted acre	do.	1.00	---	10.96

Yield per acre planted 33.0 bushel
Yield per acre harvested 36.3 bushel

1/ Harvesting costs reflect 22 percent custom combined and hauled and 78 percent combined and hauled with owned equipment.

Table 115.--Oats: Estimated inputs and variable costs for Southwestern South Dakota Area E

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	1.13	1.39	1.57
Seed, 25 percent purchased	Bushel	1.75	1.08	1.89
Fertilizer:				
Available nitrogen	Pound	10.00	.10	1.00
Available phosphorus	do.	4.00	.24	.96
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	1.19
Equipment (lubricant and repair)	do.	---	---	.38
Pesticides:				
Materials (various)	Acre	.26	.39	.10
Custom application	do.	.06	.90	.05
Insurance, hail and FCIC	Dollar	---	---	.08
Interest on operating expense, 6 months at 7 percent	do.	5.65	.035	.20
Total preharvest cost	Acre	1.00	---	7.42
Harvest costs: 1/				
Labor, regular	Hour	.50	1.39	.70
Power and equipment:				
Combine (fuel, lubricant, and repair)	Dollar	---	---	.62
Truck (fuel, lubricant, and repair)	do.	---	---	.30
Custom hire:				
Combining	Acre	.25	3.60	.90
Hauling	Bushel	7.60	.05	.38
Total harvest cost per harvested acre	Acre	1.00	---	2.90
Total harvest cost per planted acre (89 percent harvested)	do.	1.00	---	2.58
Total variable costs per planted acre	do.	1.00	---	10.00

Yield per acre planted 26.9 bushel
Yield per acre harvested 30.2 bushel

1/ Harvesting costs reflect 25 percent custom combined and hauled and 75 percent combined and hauled with owned equipment.

Table 116.--Oats: Estimated inputs and variable costs for Southeastern South Dakota Area F

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	.89	1.39	1.24
Seed, 25 percent purchased	Bushel	2.50	1.08	2.70
Fertilizer:				
Available nitrogen	Pound	9.00	.10	.90
Available phosphorus	do.	4.00	.24	.96
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	1.23
Equipment (lubricant and repair)	do.	---	---	.35
Pesticides:				
Materials (various)	Acre	.32	.40	.13
Custom application	do.	.06	.93	.06
Insurance, hail and FCIC	Dollar	---	---	.13
Interest on operating expense, 6 months at 7 percent	do.	6.46	.035	.23
Total preharvest cost	Acre	1.00	---	7.93
Harvest costs:[1/]				
Labor, regular	Hour	.82	1.39	1.14
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	.22
Equipment (fuel, lubricant, and repair)	do.	---	---	.81
Truck (fuel, lubricant, and repair)	do.	---	---	.31
Custom hire:				
Combining	Acre	.28	3.50	.98
Hauling	Bushel	12.50	.05	.63
Total harvest cost per harvested acre	Acre	1.00	---	4.09
Total harvest cost per planted acre (93 percent harvested)	do.	1.00	---	3.80
Total variable costs per planted acre	do.	1.00	---	11.73

Yield per acre planted 41.5 bushel
Yield per acre harvested 44.6 bushel

1/ Harvesting costs reflect 28 percent custom combined and hauled and 72 percent combined and hauled with owned equipment.

Table 117.--Oats: Estimated inputs and variable costs for Eastern Wyoming Area G

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	.82	1.32	1.08
Seed, 20 percent purchased	Bushel	1.50	1.01	1.52
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	.64
Equipment (lubricant and repair)	do.	---	---	.25
Pesticides:				
Materials (various)	Acre	.15	.70	.10
Custom application	do.	.08	1.20	.10
Insurance, hail and FCIC	Dollar	---	---	.04
Interest on operating expense, 6 months at 7 percent	do.	2.65	.035	.09
Total preharvest cost	Acre	1.00	---	3.82
Harvest costs:[1/]				
Labor, regular	Hour	.36	1.32	.48
Power and equipment:				
Combine (fuel, lubricant, and repair)	Dollar	---	---	.45
Truck (fuel, lubricant, and repair)	do.	---	---	.18
Custom hire:				
Combining	Acre	.26	3.43	.89
Hauling	Bushel	5.98	.06	.36
Total harvest cost per harvested acre	Acre	1.00	---	2.36
Total harvest cost per planted acre (61 percent harvested)	do.	1.00	---	1.44
Total variable costs per planted acre	do.	1.00	---	5.26

Yield per acre planted	14.0 bushel
Yield per acre harvested	23.0 bushel

1/ Harvesting costs reflect 26 percent custom combined and hauled and 74 percent combined and hauled with owned equipment.

Table 118.--Irrigated Oats: Estimated inputs and variable costs for Wyoming Irrigated Area H

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	4.32	1.32	5.70
Seed, 20 percent purchased	Bushel	2.20	1.01	2.22
Fertilizer:				
Available nitrogen	Pound	35.00	.10	3.50
Available phosphorus	do.	5.00	.24	1.20
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	2.10
Equipment (lubricant and repair)	do.	---	---	1.05
Irrigation system (fuel, lubricant, and repair)	Acre inch	18.00	.25	4.50
Pesticides:				
Materials (various)	Acre	.20	.70	.14
Custom application	do.	.12	1.20	.14
Insurance, hail and FCIC	Dollar	---	---	.04
Interest on operating expense, 6 months at 7 percent	do.	14.89	.035	.52
Total preharvest cost	Acre	1.00	---	21.11
Harvest costs:[1/]				
Labor, regular	Hour	.72	1.32	.95
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	.17
Combine (fuel, lubricant, and repair)	do.	---	---	.78
Truck (fuel, lubricant, and repair)	do.	---	---	.37
Custom hire:				
Combining	Acre	.26	4.75	1.24
Hauling	Bushel	12.32	.06	.74
Total harvest cost per harvested acre	Acre	1.00	---	4.25
Total harvest cost per planted acre (86 percent harvested)	do.	1.00	---	3.66
Total variable costs per planted acre	do.	1.00	---	24.77

Yield per acre planted 40.8 bushel
Yield per acre harvested 47.4 bushel

1/ Harvesting costs reflect 26 percent custom combined and hauled and 74 percent combined and hauled with owned equipment.

Table 119.--Oats: Estimated inputs and variable costs for Western Nebraska Area J

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	.71	1.54	1.09
Seed, 20 percent purchased	Bushel	1.562	.99	1.55
Fertilizer, available nitrogen	Pound	1.00	.11	.11
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	.60
Equipment (lubricant and repair)	do.	---	---	.29
Insurance, hail and FCIC	do.	---	---	.05
Interest on operating expense, 6 months at 7 percent	do.	2.60	.035	.09
Total preharvest cost	Acre	1.00	---	3.78
Harvest costs:[1/]				
Labor, regular	Hour	.38	1.54	.59
Power and equipment:				
Combine (fuel, lubricant, and repair)	Dollar	---	---	.45
Truck (fuel, lubricant, and repair)	do.	---	---	.06
Custom hire:				
Combining	Acre	.33	3.42	1.13
Hauling	Bushel	7.60	.049	.37
Total harvest cost per harvested acre	Acre	1.00	---	2.60
Total harvest cost per planted acre (75 percent harvested)	do.	1.00	---	1.95
Total variable costs per planted acre	do.	1.00	---	5.73

Yield per acre planted 17.3 bushel
Yield per acre harvested 23.1 bushel

1/ Harvesting costs reflect 33 percent custom combined and hauled and 67 percent combined and hauled with owned equipment.

Table 120.--Oats: Estimated inputs and variable costs for Central Nebraska Area K

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	1.00	1.54	1.54
Seed, 20 percent purchased	Bushel	2.00	.99	1.98
Fertilizer:				
Available nitrogen	Pound	10.00	.11	1.10
Available phosphorus	do.	4.00	.23	.92
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	.78
Equipment (lubricant and repair)	do.	---	---	.25
Insurance, hail and FCIC	do.	---	---	.08
Interest on operating expense, 6 months at 7 percent	do.	5.11	.035	.18
Total preharvest cost	Acre	1.00	---	6.83
Harvest costs:[1/]				
Labor, regular	Hour	.42	1.54	.65
Power and equipment:				
Combine (fuel, lubricant, and repair)	Dollar	---	---	.57
Truck (fuel, lubricant, and repair)	do.	---	---	.08
Custom hire:				
Combining	Acre	.26	3.86	1.00
Hauling	Bushel	6.90	.03	.21
Total harvest cost per harvested acre	Acre	1.00	---	2.51
Total harvest cost per planted acre (85 percent harvested)	do.	1.00	---	2.13
Total variable costs per planted acre	do.	1.00	---	8.96

Yield per acre planted 22.4 bushel
Yield per acre harvested 26.4 bushel

1/ Harvesting costs reflect 26 percent custom combined and hauled and 74 percent combined and hauled with owned equipment.

Table 121.--Oats: Estimated inputs and variable costs for Eastern Nebraska Area L

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	1.12	1.54	1.72
Seed, 20 percent purchased	Bushel	2.50	.99	2.48
Fertilizer:				
Available nitrogen	Pound	16.00	.11	1.76
Available phosphorus	do.	5.00	.23	1.15
Available potassium	do.	1.00	.05	.05
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	.87
Equipment (lubricant and repair)	do.	---	---	.32
Insurance, hail and FCIC	do.	---	---	.12
Interest on operating expense, 6 months at 7 percent	do.	6.75	.035	.24
Total preharvest cost	Acre	1.00	---	8.71
Harvest costs:[1/]				
Labor, regular	Hour	.65	1.54	1.00
Power and equipment:				
Combine (fuel, lubricant, and repair)	Dollar	---	---	.87
Truck (fuel, lubricant, and repair)	do.	---	---	.09
Custom hire:				
Combining	Acre	.16	4.60	.74
Hauling	Bushel	6.70	.03	.20
Total harvest cost per harvested acre	Acre	1.00	---	2.90
Total harvest cost per planted acre (89 percent harvested)	do.	1.00	---	2.58
Total variable costs per planted acre	do.	1.00	---	11.29

Yield per acre planted	37.0 bushel
Yield per acre harvested	41.6 bushel

1/ Harvesting costs reflect 16 percent custom combined and hauled and 84 percent combined and hauled with owned equipment.

Table 122.--Irrigated oats: Estimated inputs and variable costs for Nebraska Irrigated Area M

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	2.53	1.54	3.90
Seed, 20 percent purchased	Bushel	2.50	.99	2.48
Fertilizer:				
Available nitrogen	Pound	42.00	.11	4.62
Available phosphorus	do.	8.00	.23	1.84
Available potassium	do.	1.00	.05	.05
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	1.65
Equipment (lubricant and repair)	do.	---	---	.48
Irrigation system (fuel, lubricant, and repair)	Acre inch	8.00	.473	3.78
Insurance, hail and FCIC	Dollar	---	---	.10
Interest on operating expense, 6 months at 7 percent	do.	15.00	.035	.53
Total preharvest cost	Acre	1.00	---	19.43
Harvest costs:[1/]				
Labor, regular	Hour	.58	1.54	.89
Power and equipment:				
Combine (fuel, lubricant, and repair)	Dollar	---	---	.69
Truck (fuel, lubricant, and repair)	do.	---	---	.28
Custom hire:				
Combining	Acre	.26	5.17	1.34
Hauling	Bushel	14.30	.03	.43
Total harvest cost per harvested acre	Acre	1.00	---	3.63
Total harvest cost per planted acre (90 percent harvested)	do.	1.00	---	3.27
Total variable costs per planted acre	do.	1.00	---	22.70

Yield per acre planted	49.5 bushel
Yield per acre harvested	55.0 bushel

1/ Harvesting costs reflect 26 percent custom combined and hauled and 74 percent combined and hauled with owned equipment.

Table 123.--Oats: Estimated inputs and variable costs for Northeastern Colorado Area N

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	.80	1.38	1.10
Seed, 20 percent purchased	Bushel	1.50	1.10	1.65
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	.64
Equipment (lubricant and repair)	do.	---	---	.25
Pesticides:				
Materials (various)	Acre	.20	.70	.14
Custom application	do.	.10	1.20	.12
Insurance, hail and FCIC	Dollar	---	---	.04
Interest on operating expense, 6 months at 7 percent	do.	2.84	.035	.10
Total preharvest cost	Acre	1.00	---	4.04
Harvest costs:[1/]				
Labor, regular	Hour	.26	1.38	.36
Power and equipment:				
Combine (fuel, lubricant, and repair)	Dollar	---	---	.32
Truck (fuel, lubricant, and repair)	do.	---	---	.16
Custom hire:				
Combining	Acre	.34	3.00	1.02
Hauling	Bushel	5.27	.06	.32
Total harvest cost per harvested acre	Acre	1.00	---	2.18
Total harvest cost per planted acre (55 percent harvested)	do.	1.00	---	1.20
Total variable costs per planted acre	do.	1.00	---	5.24

Yield per acre planted 8.5 bushel
Yield per acre harvested 15.5 bushel

1/ Harvesting costs reflect 34 percent custom combined and hauled and 66 percent combined and hauled with owned equipment.

Table 124.--Irrigated oats: Estimated inputs and variable costs for Colorado Irrigated Area R

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	4.00	1.38	5.52
Seed, 20 percent purchased	Bushel	2.20	1.10	2.42
Fertilizer:				
Available nitrogen	Pound	20.00	.10	2.00
Available phosphorus	do.	2.00	.24	.48
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	1.97
Equipment (lubricant and repair)	do.	---	---	.98
Irrigation system (fuel, lubricant, and repair)	Acre inch	18.00	.25	4.50
Pesticides:				
Materials (various)	Acre	.25	.70	.18
Custom application	do.	.11	1.20	.13
Interest on operating expense, 6 months at 7 percent	Dollar	12.66	.035	.44
Total preharvest cost	Acre	1.00	---	18.62
Harvest costs:[1/]				
Labor, regular	Hour	.62	1.38	.86
Power and equipment:				
Combine (fuel, lubricant, and repair)	Dollar	---	---	.79
Truck (fuel, lubricant, and repair)	do.	---	---	.26
Custom hire:				
Combining	Acre	.35	4.40	1.54
Hauling	Bushel	19.99	.06	1.20
Total harvest cost per harvested acre	Acre	1.00	---	4.65
Total harvest cost per planted acre (85 percent harvested)	do.	1.00	---	3.95
Total variable costs per planted acre	do.	1.00	---	22.57

Yield per acre planted 48.5 bushel
Yield per acre harvested 57.1 bushel

1/ Harvesting costs reflect 35 percent custom combined and hauled and 65 percent combined and hauled with owned equipment.

Table 125.--Oats: Estimated inputs and variable costs for Western Kansas Area S

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	.71	1.53	1.09
Seed, 20 percent purchased	Bushel	1.25	.99	1.24
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	.60
Equipment (lubricant and repair)	do.	---	---	.29
Interest on operating expense, 6 months at 7 percent	do.	2.13	.035	.07
Total preharvest cost	Acre	1.00	---	3.29
Harvest costs:[1/]				
Labor, regular	Hour	.42	1.53	.64
Power and equipment:				
Combine (fuel, lubricant, and repair)	Dollar	---	---	.48
Truck (fuel, lubricant, and repair)	do.	---	---	.06
Custom hire:				
Combining	Acre	.30	3.27	.98
Hauling	Bushel	7.30	.05	.36
Total harvest cost per harvested acre	Acre	1.00	---	2.52
Total harvest cost per planted acre (65 percent harvested)	do.	1.00	---	1.64
Total variable costs per planted acre	do.	1.00	---	4.93

Yield per acre planted 15.8 bushel
Yield per acre harvested 24.3 bushel

1/ Harvesting costs reflect 30 percent custom combined and hauled and 70 percent combined and hauled with owned equipment.

Table 126.--Oats: Estimated inputs and variable costs for Kansas Transition Area T

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	.83	1.53	1.27
Seed, 20 percent purchased	Bushel	1.72	.99	1.70
Fertilizer:				
Available nitrogen	Pound	3.00	.11	.33
Available phosphorus	do.	1.00	.22	.22
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	.65
Equipment (lubricant and repair)	do.	---	---	.21
Interest on operating expense, 6 months at 7 percent	do.	3.11	.035	.11
Total preharvest cost	Acre	1.00	---	4.49
Harvest costs: 1/				
Labor, regular	Hour	.44	1.53	.67
Power and equipment:				
Combine (fuel, lubricant, and repair)	Dollar	---	---	.57
Truck (fuel, lubricant, and repair)	do.	---	---	.07
Custom hire:				
Combining	Acre	.26	3.65	.95
Hauling	Bushel	6.60	.05	.33
Total harvest cost per harvested acre	Acre	1.00	---	2.59
Total harvest cost per planted acre (71 percent harvested)	do.	1.00	---	1.84
Total variable costs per planted acre	do.	1.00	---	6.33

Yield per acre planted	18.0 bushel
Yield per acre harvested	25.4 bushel

1/ Harvesting costs reflect 26 percent custom combined and hauled and 74 percent combined and hauled with owned equipment.

Table 127.--Oats: Estimated inputs and variable costs for Central Kansas Area V

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	1.12	1.53	1.71
Seed, 20 percent purchased	Bushel	2.00	.99	1.98
Fertilizer:				
Available nitrogen	Pound	16.00	.11	1.76
Available phosphorus	do.	5.00	.22	1.10
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	.85
Equipment (lubricant and repair)	do.	---	---	.29
Insurance, hail and FCIC	do.	---	---	.04
Interest on operating expense, 6 months at 7 percent	do.	6.02	.035	.21
Total preharvest cost	Acre	1.00	---	7.94
Harvest costs:1/				
Labor, regular	Hour	.55	1.53	.84
Power and equipment:				
Combine (fuel, lubricant, and repair)	Dollar	---	---	.73
Truck (fuel, lubricant, and repair)	do.	---	---	.06
Custom hire:				
Combining	Acre	.18	3.65	.66
Hauling	Bushel	4.60	.05	.23
Total harvest cost per harvested acre	Acre	1.00	---	2.52
Total harvest cost per planted acre (76 percent harvested)	do.	1.00	---	1.92
Total variable costs per planted acre	do.	1.00	---	9.86

Yield per acre planted 19.3 bushel
Yield per acre harvested 25.4 bushel

1/ Harvesting costs reflect 18 percent custom combined and hauled and 82 percent combined and hauled with owned equipment.

Table 128.--Oats: Estimated inputs and variable costs for Eastern Kansas Area W

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	1.12	1.53	1.71
Seed, 20 percent purchased	Bushel	2.40	.99	2.38
Fertilizer and lime:				
Available nitrogen	Pound	23.00	.11	2.53
Available phosphorus	do.	9.00	.22	1.98
Available potassium	do.	5.00	.05	.25
Lime	Ton	.08	4.00	.32
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	.89
Equipment (lubricant and repair)	do.	---	---	.34
Insurance, hail and FCIC	do.	---	---	.03
Interest on operating expense, 6 months at 7 percent	do.	8.72	.035	.31
Total preharvest cost	Acre	1.00	---	10.74
Harvest costs: 1/				
Labor, regular	Hour	.71	1.53	1.09
Power and equipment:				
Combine (fuel, lubricant, and repair)	Dollar	---	---	.93
Truck (fuel, lubricant, and repair)	do.	---	---	.09
Custom hire:				
Combining	Acre	.10	4.59	.46
Hauling	Bushel	3.50	.05	.18
Total harvest cost per harvested acre	Acre	1.00	---	2.75
Total harvest cost per planted acre (80 percent harvested)	do.	1.00	---	2.20
Total variable costs per planted acre	do.	1.00	---	12.94

Yield per acre planted 28.2 bushel
Yield per acre harvested 35.2 bushel

1/ Harvesting costs reflect 10 percent custom combined and hauled and 90 percent combined and hauled with owned equipment.

Table 129.--Rye: Estimated inputs and variable costs for Western North Dakota Area A

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	.85	1.47	1.25
Seed, 50 percent purchased	Bushel	1.10	1.34	1.47
Fertilizer, available phosphorus	Pound	1.00	.24	.24
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	.84
Equipment (lubricant and repair)	do.	---	---	.39
Pesticides:				
Materials (various)	Acre	.36	.30	.11
Custom application	do.	.18	1.00	.18
Insurance, hail and FCIC	Dollar	---	---	.08
Interest on operating expense, 6 months at 7 percent	do.	3.31	.035	.12
Total preharvest cost	Acre	1.00	---	4.68
Harvest costs:[1/]				
Labor, regular	Hour	.70	1.47	1.03
Power and equipment:				
Swather (fuel, lubricant, and repair)	Dollar	---	---	.23
Combine (fuel, lubricant, and repair)	do.	---	---	.71
Truck (fuel, lubricant, and repair)	do.	---	---	.24
Custom hire:				
Combining	Acre	.16	3.50	.56
Hauling	Bushel	3.00	.05	.15
Total harvest cost per harvested acre	Acre	1.00	---	2.92
Total harvest cost per planted acre (80 percent harvested)	do.	1.00	---	2.34
Total variable costs per planted acre	do.	1.00	---	7.02

Yield per acre planted 14.8 bushel
Yield per acre harvested 18.5 bushel

1/ Harvesting costs reflect 16 percent custom combined and hauled and 84 percent combined and hauled with owned equipment.

Table 130.--Rye: Estimated inputs and variable costs for Central North Dakota Area B

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	.91	1.47	1.34
Seed, 50 percent purchased	Bushel	1.20	1.32	1.58
Fertilizer:				
Available nitrogen	Pound	2.00	.10	.20
Available phosphorus	do.	3.00	.24	.72
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	.89
Equipment (lubricant and repair)	do.	---	---	.40
Pesticides:				
Materials (various)	Acre	.28	.30	.08
Custom application	do.	.14	1.00	.14
Insurance, hail and FCIC	Dollar	---	---	.10
Interest on operating expense, 6 months at 7 percent	do.	4.11	.035	.14
Total preharvest cost	Acre	1.00	---	5.59
Harvest costs:[1/]				
Labor, regular	Hour	.78	1.47	1.15
Power and equipment:				
Swather (fuel, lubricant, and repair)	Dollar	---	---	.31
Combine (fuel, lubricant, and repair)	do.	---	---	.69
Truck (fuel, lubricant, and repair)	do.	---	---	.25
Custom hire:				
Combining	Acre	.15	3.50	.53
Hauling	Bushel	3.40	.05	.17
Total harvest cost per harvested acre	Acre	1.00	---	3.10
Total harvest cost per planted acre (86 percent harvested)	do.	1.00	---	2.67
Total variable costs per planted acre	do.	1.00	---	8.26

Yield per acre planted 19.6 bushel
Yield per acre harvested 22.8 bushel

1/ Harvesting costs reflect 15 percent custom combined and hauled and 85 percent combined and hauled with owned equipment.

Table 131.--Rye: Estimated inputs and variable costs for Eastern North Dakota Area C

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	1.39	1.47	2.04
Seed, 50 percent purchased	Bushel	1.30	1.32	1.72
Fertilizer:				
Available nitrogen	Pound	6.00	.10	.60
Available phosphorus	do.	9.00	.24	2.16
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	1.39
Equipment (lubricant and repair)	do.	---	---	.48
Pesticides:				
Materials (various)	Acre	.20	.30	.06
Custom application	do.	.10	1.00	.10
Insurance, hail and FCIC	Dollar	---	---	.11
Interest on operating expense, 6 months at 7 percent	do.	6.62	.035	.23
Total preharvest cost	Acre	1.00	---	8.89
Harvest costs:[1/]				
Labor, regular	Hour	.90	1.47	1.32
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	.16
Equipment (fuel, lubricant, and repair)	do.	---	---	.89
Truck (fuel, lubricant, and repair)	do.	---	---	.32
Custom hire:				
Combining	Acre	.15	3.50	.53
Hauling	Bushel	3.30	.05	.16
Total harvest cost per harvested acre	Acre	1.00	---	3.38
Total harvest cost per planted acre (90 percent harvested)	do.	1.00	---	3.04
Total variable costs per planted acre	do.	1.00	---	11.93

Yield per acre planted 19.8 bushel
Yield per acre harvested 22.0 bushel

1/ Harvesting costs reflect 15 percent custom combined and hauled and 85 percent combined and hauled with owned equipment.

Table 132.--Rye: Estimated inputs and variable costs for Northern South Dakota Area D

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	1.42	1.39	1.97
Seed, 65 percent purchased	Bushel	1.25	1.43	1.79
Fertilizer:				
Available nitrogen	Pound	3.00	.10	.30
Available phosphorus	do.	1.00	.24	.24
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	1.41
Equipment (lubricant and repair)	do.	---	---	.51
Pesticides:				
Materials (various)	Acre	.28	.38	.11
Custom application	do.	.08	.90	.07
Insurance, hail and FCIC	Dollar	---	---	.10
Interest on operating expense, 6 months at 7 percent	do.	4.53	.035	.16
Total preharvest cost	Acre	1.00	---	6.66
Harvest costs: 1/				
Labor, regular	Hour	.77	1.39	1.07
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	.11
Equipment (fuel, lubricant, and repair)	do.	---	---	.86
Truck (fuel, lubricant, and repair)	do.	---	---	.33
Custom hire:				
Combining	Acre	.22	3.85	.85
Hauling	Bushel	4.70	.05	.24
Total harvest cost per harvested acre	Acre	1.00	---	3.46
Total harvest cost per planted acre (84 percent harvested)	do.	1.00	---	2.91
Total variable costs per planted acre	do.	1.00	---	9.57

Yield per acre planted 17.9 bushel
Yield per acre harvested 21.3 bushel

1/ Harvesting costs reflect 22 percent custom combined and hauled and 78 percent combined and hauled with owned equipment.

Table 133.--Rye: Estimated inputs and variable costs for Southwestern South Dakota Area E

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	1.13	1.39	1.57
Seed, 65 percent purchased	Bushel	1.00	1.43	1.43
Fertilizer:				
Available nitrogen	Pound	3.00	.10	.30
Available phosphorus	do.	1.00	.24	.24
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	1.19
Equipment (lubricant and repair)	do.	---	---	.38
Pesticides:				
Materials (various)	Acre	.16	.39	.06
Custom application	do.	.04	.90	.04
Insurance, hail and FCIC	Dollar	---	---	.06
Interest on operating expense, 6 months at 7 percent	do.	3.70	.035	.13
Total preharvest cost	Acre	1.00	---	5.40
Harvest costs:[1/]				
Labor, regular	Hour	.50	1.39	.70
Power and equipment:				
Combine (fuel, lubricant, and repair)	Dollar	---	---	.62
Truck (fuel, lubricant, and repair)	do.	---	---	.30
Custom hire:				
Combining	Acre	.25	3.85	.96
Hauling	Bushel	5.20	.05	.26
Total harvest cost per harvested acre	Acre	1.00	---	2.84
Total harvest cost per planted acre (80 percent harvested)	do.	1.00	---	2.27
Total variable costs per planted acre	do.	1.00	---	7.67

Yield per acre planted	16.6 bushel
Yield per acre harvested	20.8 bushel

1/ Harvesting costs reflect 25 percent custom combined and hauled and 75 percent combined and hauled with owned equipment.

Table 134.--Rye: Estimated inputs and variable costs for Southeastern South Dakota Area F

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	.89	1.39	1.24
Seed, 65 percent purchased	Bushel	1.30	1.43	1.86
Fertilizer:				
Available nitrogen	Pound	4.00	.10	.40
Available phosphorus	do.	2.00	.24	.48
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	1.32
Equipment (lubricant and repair)	do.	---	---	.43
Pesticides:				
Materials (various)	Acre	.16	.40	.06
Custom application	do.	.04	.90	.04
Insurance, hail and FCIC	Dollar	---	---	.09
Interest on operating expense, 6 months at 7 percent	do.	4.68	.035	.16
Total preharvest cost	Acre	1.00	---	6.08
Harvest costs:[1/]				
Labor, regular	Hour	.82	1.39	1.14
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	.22
Equipment (fuel, lubricant, and repair)	do.	---	---	.81
Truck (fuel, lubricant, and repair)	do.	---	---	.31
Custom hire:				
Combining	Acre	.28	3.75	1.05
Hauling	Bushel	4.50	.05	.23
Total harvest cost per harvested acre	Acre	1.00	---	3.76
Total harvest cost per planted acre (90 percent harvested)	do.	1.00	---	3.38
Total variable costs per planted acre	do.	1.00	---	9.46

Yield per acre planted 18.5 bushel
Yield per acre harvested 20.6 bushel

1/ Harvesting costs reflect 22 percent custom combined and hauled and 78 percent combined and hauled with owned equipment.

Table 135.--Rye: Estimated inputs and variable costs for Western Nebraska Area J

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	.68	1.54	1.05
Seed, 75 percent purchased	Bushel	.893	1.62	1.45
Fertilizer, available nitrogen	Pound	1.00	.11	.11
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	.58
Equipment (lubricant and repair)	do.	---	---	.29
Interest on operating expense, 6 months at 7 percent	do.	2.43	.035	.09
Total preharvest cost	Acre	1.00	---	3.57
Harvest costs: 1/				
Labor, regular	Hour	.38	1.54	.59
Power and equipment:				
Combine (fuel, lubricant, and repair)	Dollar	---	---	.45
Truck (fuel, lubricant, and repair)	do.	---	---	.04
Custom hire:				
Combining	Acre	.33	3.27	1.08
Hauling	Bushel	5.40	.049	.26
Total harvest cost per harvested acre	Acre	1.00	---	2.42
Total harvest cost per planted acre (55 percent harvested)	do.	1.00	---	1.33
Total variable costs per planted acre	do.	1.00	---	4.90

Yield per acre planted 9.1 bushel
Yield per acre harvested 16.5 bushel

1/ Harvesting costs reflect 33 percent custom combined and hauled and 67 percent combined and hauled with owned equipment.

Table 136.--Rye: Estimated inputs and variable costs for Central Nebraska Area K

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	1.06	1.54	1.63
Seed, 75 percent purchased	Bushel	1.25	1.62	2.03
Fertilizer:				
Available nitrogen	Pound	8.00	.11	.88
Available phosphorus	do.	4.00	.23	.92
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	.84
Equipment (lubricant and repair)	do.	---	---	.36
Interest on operating expense, 6 months at 7 percent	do.	5.03	.035	.18
Total preharvest cost	Acre	1.00	---	6.84
Harvest costs:[1/]				
Labor, regular	Hour	.42	1.54	.65
Power and equipment:				
Combine (fuel, lubricant, and repair)	Dollar	---	---	.57
Truck (fuel, lubricant, and repair)	do.	---	---	.05
Custom hire:				
Combining	Acre	.26	3.74	.97
Hauling	Bushel	3.70	.03	.11
Total harvest cost per harvested acre	Acre	1.00	---	2.35
Total harvest cost per planted acre (44 percent harvested)	do.	1.00	---	1.03
Total variable costs per planted acre	do.	1.00	---	7.87

Yield per acre planted 6.3 bushel
Yield per acre harvested 14.3 bushel

1/ Harvesting costs reflect 26 percent custom combined and hauled and 74 percent combined and hauled with owned equipment.

Table 137.--Rye: Estimated inputs and variable costs for Eastern Nebraska Area L

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	1.30	1.54	2.00
Seed, 75 percent purchased	Bushel	1.34	1.62	2.17
Fertilizer:				
Available nitrogen	Pound	10.00	.11	1.10
Available phosphorus	do.	4.00	.23	.92
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	.98
Equipment (lubricant and repair)	do.	---	---	.32
Interest on operating expense, 6 months at 7 percent	do.	5.49	.035	.19
Total preharvest cost	Acre	1.00	---	7.68
Harvest costs:1/				
Labor, regular	Hour	.65	1.54	1.00
Power and equipment:				
Combine (fuel, lubricant, and repair)	Dollar	---	---	.87
Truck (fuel, lubricant, and repair)	do.	---	---	.04
Custom hire:				
Combining	Acre	.16	4.38	.70
Hauling	Bushel	2.70	.03	.08
Total harvest cost per harvested acre	Acre	1.00	---	2.69
Total harvest cost per planted acre (60 percent harvested)	do.	1.00	---	1.61
Total variable costs per planted acre	do.	1.00	---	9.29

Yield per acre planted 10.2 bushel
Yield per acre harvested 17.0 bushel

1/ Harvesting costs reflect 16 percent custom combined and hauled and 84 percent combined and hauled with owned equipment.

Table 138.--Rye: Estimated inputs and variable costs for Western Kansas Area S

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	.68	1.53	1.04
Seed, 75 percent purchased	Bushel	.714	1.57	1.12
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	.58
Equipment (lubricant and repair)	do.	---	---	.29
Interest on operating expense, 6 months at 7 percent	do.	1.99	.035	.07
Total preharvest cost	Acre	1.00	---	3.10
Harvest costs:1/				
Labor, regular	Hour	.42	1.53	.64
Power and equipment:				
Combine (fuel, lubricant, and repair)	Dollar	---	---	.48
Truck (fuel, lubricant, and repair)	do.	---	---	.03
Custom hire:				
Combining	Acre	.30	3.19	.96
Hauling	Bushel	2.60	.05	.13
Total harvest cost per harvested acre	Acre	1.00	---	2.24
Total harvest cost per planted acre (50 percent harvested)	do.	1.00	---	1.12
Total variable costs per planted acre	do.	1.00	---	4.22

Yield per acre planted	4.4 bushel
Yield per acre harvested	8.8 bushel

1/ Harvesting costs reflect 30 percent custom combined and hauled and 70 percent combined and hauled with owned equipment.

Table 139.--Rye: Estimated inputs and variable costs for Kansas Transition Area T

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	1.03	1.53	1.58
Seed, 75 percent purchased	Bushel	.893	1.57	1.40
Fertilizer, available nitrogen	Pound	1.00	.11	.11
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	.83
Equipment (lubricant and repair)	do.	---	---	.44
Interest on operating expense, 6 months at 7 percent	do.	2.78	.035	.10
Total preharvest cost	Acre	1.00	---	4.46
Harvest costs:[1/]				
Labor, regular	Hour	.44	1.53	.67
Power and equipment:				
Combine (fuel, lubricant, and repair)	Dollar	---	---	.57
Truck (fuel, lubricant, and repair)	do.	---	---	.04
Custom hire:				
Combining	Acre	.26	3.64	.95
Hauling	Bushel	3.00	.05	.15
Total harvest cost per harvested acre	Acre	1.00	---	2.38
Total harvest cost per planted acre (35 percent harvested)	do.	1.00	---	.83
Total variable costs per planted acre	do.	1.00	---	5.29

Yield per acre planted 4.0 bushel
Yield per acre harvested 11.4 bushel

1/ Harvesting costs reflect 26 percent custom combined and hauled and 74 percent combined and hauled with owned equipment.

Table 140.--Rye: Estimated inputs and variable costs for Central Kansas Area V

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	1.07	1.53	1.64
Seed, 75 percent purchased	Bushel	1.07	1.57	1.68
Fertilizer:				
Available nitrogen	Pound	12.00	.11	1.32
Available phosphorus	do.	4.00	.22	.88
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	.83
Equipment (lubricant and repair)	do.	---	---	.25
Interest on operating expense, 6 months at 7 percent	do.	4.96	.035	.17
Total preharvest cost	Acre	1.00	---	6.77
Harvest costs:[1/]				
Labor, regular	Hour	.55	1.53	.84
Power and equipment:				
Combine (fuel, lubricant, and repair)	Dollar	---	---	.73
Truck (fuel, lubricant, and repair)	do.	---	---	.04
Custom hire:				
Combining	Acre	.18	3.64	.66
Hauling	Bushel	2.60	.05	.13
Total harvest cost per harvested acre	Acre	1.00	---	2.40
Total harvest cost per planted acre (25 percent harvested)	do.	1.00	---	.60
Total variable costs per planted acre	do.	1.00	---	7.37

Yield per acre planted 3.6 bushel
Yield per acre harvested 14.4 bushel

1/ Harvesting costs reflect 18 percent custom combined and hauled and 82 percent combined and hauled with owned equipment.

Table 141.--Rye: Estimated inputs and variable costs for Eastern Kansas Area W

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	1.42	1.53	2.17
Seed, 75 percent purchased	Bushel	1.428	1.57	2.24
Fertilizer and lime:				
Available nitrogen	Pound	14.00	.11	1.54
Available phosphorus	do.	6.00	.22	1.32
Available potassium	do.	2.00	.05	.10
Lime	Ton	.08	4.00	.32
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	1.13
Equipment (lubricant and repair)	do.	---	---	.39
Interest on operating expense, 6 months at 7 percent	do.	7.04	.035	.25
Total preharvest cost	Acre	1.00	---	9.46
Harvest costs:[1/]				
Labor, regular	Hour	.71	1.53	1.09
Power and equipment:				
Combine (fuel, lubricant, and repair)	Dollar	---	---	.93
Truck (fuel, lubricant, and repair)	do.	---	---	.03
Custom hire:				
Combining	Acre	.10	4.50	.45
Hauling	Bushel	1.10	.05	.06
Total harvest cost per harvested acre	Acre	1.00	---	2.56
Total harvest cost per planted acre (50 percent harvested)	do.	1.00	---	1.28
Total variable costs per planted acre	do.	1.00	---	10.74

Yield per acre planted 5.7 bushel
Yield per acre harvested 11.4 bushel

1/ Harvesting costs reflect 10 percent custom combined and hauled and 90 percent combined and hauled with owned equipment.

Table 142.--Flax: Estimated inputs and variable costs for Western North Dakota Area A

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	.85	1.47	1.25
Seed, 33 percent purchased	Bushel	.70	3.46	2.42
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	.84
Equipment (lubricant and repair)	do.	---	---	.39
Pesticides:				
Materials (various)	Acre	.25	.45	.11
Custom application	do.	.12	1.00	.12
Insurance, hail and FCIC	Dollar	---	---	.15
Interest on operating expense, 6 months at 7 percent	do.	4.03	.035	.14
Total preharvest cost	Acre	1.00	---	5.42
Harvest costs:[1/]				
Labor, regular	Hour	.70	1.47	1.03
Power and equipment:				
Swather (fuel, lubricant, and repair)	Dollar	---	---	.23
Combine (fuel, lubricant, and repair)	do.	---	---	.71
Truck (fuel, lubricant, and repair)	do.	---	---	.24
Custom hire:				
Combining	Acre	.16	3.50	.56
Hauling	Bushel	1.10	.05	.06
Total harvest cost per harvested acre	Acre	1.00	---	2.83
Total harvest cost per planted acre (93 percent harvested)	do.	1.00	---	2.63
Total variable costs per planted acre	do.	1.00	---	8.05

Yield per acre planted 6.5 bushel
Yield per acre harvested 7.0 bushel

1/ Harvesting costs reflect 16 percent custom combined and hauled and 84 percent combined and hauled with owned equipment.

Table 143.--Flax: Estimated inputs and variable costs for Central North Dakota Area B

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	.91	1.47	1.34
Seed, 33 percent purchased	Bushel	.80	2.63	2.10
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	.94
Equipment (lubricant and repair)	do.	---	---	.40
Pesticides:				
Materials (various)	Acre	.40	.45	.18
Custom application	do.	.20	1.00	.20
Insurance, hail and FCIC	Dollar	---	---	.15
Interest on operating expense, 6 months at 7 percent	do.	3.97	.035	.14
Total preharvest cost	Acre	1.00	---	5.45
Harvest costs:1/				
Labor, regular	Hour	.78	1.47	1.15
Power and equipment:				
Swather (fuel, lubricant, and repair)	Dollar	---	---	.31
Combine (fuel, lubricant, and repair)	do.	---	---	.69
Truck (fuel, lubricant, and repair)	do.	---	---	.25
Custom hire:				
Combining	Acre	.15	3.50	.53
Hauling	Bushel	1.20	.05	.06
Total harvest cost per harvested acre	Acre	1.00	---	2.99
Total harvest cost per planted acre (93 percent harvested)	do.	1.00	---	2.78
Total variable costs per planted acre	do.	1.00	---	8.23

Yield per acre planted	7.7 bushel
Yield per acre harvested	8.3 bushel

1/ Harvesting costs reflect 15 percent custom combined and hauled and 85 percent combined and hauled with owned equipment.

Table 144.--Flax: Estimated inputs and variable costs for Eastern North Dakota Area C

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	1.39	1.47	2.04
Seed, 33 percent purchased	Bushel	.90	3.40	3.06
Fertilizer:				
Available nitrogen	Pound	5.00	.10	.50
Available phosphorus	do.	5.00	.24	1.20
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	1.39
Equipment (lubricant and repair)	do.	---	---	.48
Pesticides:				
Materials (various)	Acre	.75	.45	.34
Custom application	do.	.30	1.00	.30
Insurance, hail and FCIC	Dollar	---	---	.18
Interest on operating expense, 6 months at 7 percent	do.	7.45	.035	.26
Total preharvest cost	Acre	1.00	---	9.75
Harvest costs:[1/]				
Labor, regular	Hour	.90	1.47	1.32
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	.16
Equipment (fuel, lubricant, and repair)	do.	---	---	.89
Truck (fuel, lubricant, and repair)	do.	---	---	.32
Custom hire:				
Combining	Acre	.15	3.50	.53
Hauling	Bushel	1.30	.05	.07
Total harvest cost per harvested acre	Acre	1.00	---	3.29
Total harvest cost per planted acre (94 percent harvested)	do.	1.00	---	3.09
Total variable costs per planted acre	do.	1.00	---	12.84

Yield per acre planted 8.4 bushel
Yield per acre harvested 8.9 bushel

1/ Harvesting costs reflect 15 percent custom combined and hauled and 85 percent combined and hauled with owned equipment.

Table 145.--Flax: Estimated inputs and variable costs for Northern South Dakota Area D

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	.99	1.39	1.38
Seed, 25 percent purchased	Bushel	.75	3.25	2.44
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	1.07
Equipment (lubricant and repair)	do.	---	---	.36
Pesticides:				
Materials (various)	Acre	.40	.45	.18
Custom application	do.	.11	.90	.10
Insurance, hail and FCIC	Dollar	---	---	.16
Interest on operating expense, 6 months at 7 percent	do.	4.31	.035	.15
Total preharvest cost	Acre	1.00	---	5.84
Harvest costs: 1/				
Labor, regular	Hour	.77	1.39	1.07
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	.11
Equipment (fuel, lubricant, and repair)	do.	---	---	.86
Truck (fuel, lubricant, and repair)	do.	---	---	.33
Custom hire:				
Combining	Acre	.22	3.85	.85
Hauling	Bushel	1.80	.05	.09
Total harvest cost per harvested acre	Acre	1.00	---	3.31
Total harvest cost per planted acre (96 percent harvested)	do.	1.00	---	3.18
Total variable costs per planted acre	do.	1.00	---	9.02

Yield per acre planted	7.8 bushel
Yield per acre harvested	8.1 bushel

1/ Harvesting costs reflect 22 percent custom combined and hauled and 78 percent combined and hauled with owned equipment.

Table 146.--Flax: Estimated inputs and variable costs for Southeastern South Dakota Area F

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	.89	1.39	1.24
Seed, 25 percent purchased	Bushel	1.00	3.25	3.25
Fertilizer:				
Available nitrogen	Pound	1.00	.10	.10
Available phosphorus	do.	1.00	.24	.24
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	1.32
Equipment (lubricant and repair)	do.	---	---	.43
Pesticides:				
Materials (various)	Acre	.40	.45	.18
Custom application	do.	.09	.90	.08
Insurance, hail and FCIC	Dollar	---	---	.18
Interest on operating expense, 6 months at 7 percent	do.	5.78	.035	.20
Total preharvest cost	Acre	1.00	---	7.22
Harvest costs: 1/				
Labor, regular	Hour	.82	1.39	1.14
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	.22
Equipment (fuel, lubricant, and repair)	do.	---	---	.81
Truck (fuel, lubricant, and repair)	do.	---	---	.31
Custom hire:				
Combining	Acre	.28	3.85	1.08
Hauling	Bushel	2.80	.05	.14
Total harvest cost per harvested acre	Acre	1.00	---	3.70
Total harvest cost per planted acre (97 percent harvested)	do.	1.00	---	3.59
Total variable costs per planted acre	do.	1.00	---	10.81

Yield per acre planted 9.6 bushel
Yield per acre harvested 9.9 bushel

1/ Harvesting costs reflect 28 percent custom combined and hauled and 72 percent combined and hauled with owned equipment.

Table 147.--Soybeans: Estimated inputs and variable costs for Eastern North Dakota Area C

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	1.94	1.47	2.85
Seed, 50 percent purchased	Bushel	1.10	2.83	3.11
Fertilizer:				
Available nitrogen	Pound	1.00	.10	.10
Available phosphorus	do.	2.00	.24	.48
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	2.14
Equipment (lubricant and repair)	do.	---	---	.60
Pesticides:				
Materials (various)	Acre	.20	6.30	1.26
Custom application	do.	.10	1.00	.10
Insurance, hail and FCIC	Dollar	---	---	.25
Interest on operating expense, 6 months at 7 percent	do.	8.04	.035	.28
Total preharvest cost	Acre	1.00	---	11.17
Harvest costs:1/				
Labor, regular	Hour	.66	1.47	.97
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	.16
Combine (fuel, lubricant, and repair)	do.	---	---	.66
Truck (fuel, lubricant, and repair)	do.	---	---	.14
Custom hire:				
Combining	Acre	.15	3.50	.53
Hauling	Bushel	2.60	.05	.13
Total harvest cost per harvested acre	Acre	1.00	---	2.59
Total harvest cost per planted acre (95 percent harvested)	do.	1.00	---	2.46
Total variable costs per planted acre	do.	1.00	---	13.63

Yield per acre planted 16.5 bushel
Yield per acre harvested 17.4 bushel

1/ Harvesting costs reflect 15 percent custom combined and hauled and 85 percent combined and hauled with owned equipment.

Table 148.--Soybeans: Estimated inputs and variable costs for Northern South Dakota Area D

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	2.07	1.39	2.88
Seed, 50 percent purchased	Bushel	1.00	3.14	3.14
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	2.07
Equipment (lubricant and repair)	do.	---	---	.58
Pesticides:				
Materials (various)	Acre	.20	6.30	1.26
Custom application	do.	.05	1.00	.05
Insurance, hail and FCIC	Dollar	---	---	.23
Interest on operating expense, 6 months at 7 percent	do.	7.33	.035	.26
Total preharvest cost	Acre	1.00	---	10.47
Harvest costs:[1/]				
Labor, regular	Hour	.63	1.39	.88
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	.11
Combine (fuel, lubricant, and repair)	do.	---	---	.67
Truck (fuel, lubricant, and repair)	do.	---	---	.35
Custom hire:				
Combining	Acre	.22	3.85	.85
Hauling	Bushel	3.30	.05	.17
Total harvest cost per harvested acre	Acre	1.00	---	3.03
Total harvest cost per planted acre (97 percent harvested)	do.	1.00	---	2.94
Total variable costs per planted acre	do.	1.00	---	13.41

Yield per acre planted 14.5 bushel
Yield per acre harvested 14.9 bushel

1/ Harvesting costs reflect 22 percent custom combined and hauled and 78 percent combined and hauled with owned equipment.

Table 149.--Soybeans: Estimated inputs and variable costs for Southeastern South Dakota Area F

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	.97	1.39	1.35
Seed, 50 percent purchased	Bushel	1.25	3.14	3.93
Fertilizer, available phosphorus	Pound	1.00	.24	.24
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	2.05
Equipment (lubricant and repair)	do.	---	---	.55
Pesticides, materials (various)	Acre	.25	6.30	1.58
Insurance, hail and FCIC	Dollar	---	---	.31
Interest on operating expense, 6 months at 7 percent	do.	8.66	.035	.30
Total preharvest cost	Acre	1.00	---	10.31
Harvest costs:1/				
Labor, regular	Hour	.68	1.39	.95
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	.25
Combine (fuel, lubricant, and repair)	do.	---	---	.63
Truck (fuel, lubricant, and repair)	do.	---	---	.34
Custom hire:				
Combining	Acre	.29	3.85	1.12
Hauling	Bushel	5.30	.05	.27
Total harvest cost per harvested acre	Acre	1.00	---	3.56
Total harvest cost per planted acre (98 percent harvested)	do.	1.00	---	3.49
Total variable costs per planted acre	do.	1.00	---	13.80

Yield per acre planted	17.9 bushel
Yield per acre harvested	18.3 bushel

1/ Harvesting costs reflect 29 percent custom combined and hauled and 71 percent combined and hauled with owned equipment.

Table 150.--Soybeans: Estimated inputs and variable costs for Eastern Nebraska Area L

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	1.89	1.54	2.91
Seed, 30 percent purchased	Bushel	1.00	3.06	3.06
Fertilizer:				
Available nitrogen	Pound	1.00	.11	.11
Available phosphorus	do.	2.00	.23	.46
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	1.43
Equipment (lubricant and repair)	do.	---	---	.48
Pesticides, materials (various)	Acre	.50	6.30	3.15
Insurance, hail and FCIC	Dollar	---	---	.25
Interest on operating expense, 6 months at 7 percent	do.	8.94	.035	.31
Total preharvest cost	Acre	1.00	---	12.16
Harvest costs:[1/]				
Labor, regular	Hour	.74	1.54	1.14
Power and equipment:				
Combine (fuel, lubricant, and repair)	Dollar	---	---	.99
Truck (fuel, lubricant, and repair)	do.	---	---	.17
Custom hire:				
Combining	Acre	.16	5.47	.88
Hauling	Bushel	4.10	.03	.12
Total harvest cost per harvested acre	Acre	1.00	---	3.30
Total harvest cost per planted acre (98 percent harvested)	do.	1.00	---	3.23
Total variable costs per planted acre	do.	1.00	---	15.39

Yield per acre planted 25.4 bushel
Yield per acre harvested 25.9 bushel

1/ Harvesting costs reflect 16 percent custom combined and hauled and 84 percent combined and hauled with owned equipment.

Table 151.--Irrigated soybeans: Estimated inputs and variable costs for Irrigated Nebraska Area M

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	4.09	1.54	6.30
Seed, 30 percent purchased	Bushel	1.08	3.07	3.32
Fertilizer:				
Available nitrogen	Pound	6.00	.11	.66
Available phosphorus	do.	5.00	.23	1.15
Available potassium	do.	1.00	.05	.05
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	2.11
Equipment (lubricant and repair)	do.	---	---	.58
Irrigation system (fuel, lubricant, and repair)	Acre inch	12.00	.253	3.04
Pesticides, materials (various)	Acre	.50	6.30	3.15
Insurance, hail and FCIC	Dollar	---	---	.25
Interest on operating expense, 6 months at 7 percent	do.	14.31	.035	.50
Total preharvest cost	Acre	1.00	---	21.11
Harvest costs:[1/]				
Labor, regular	Hour	.66	1.54	1.02
Power and equipment:				
Combine (fuel, lubricant, and repair)	Dollar	---	---	.79
Truck (fuel, lubricant, and repair)	do.	---	---	.25
Custom hire:				
Combining	Acre	.26	5.45	1.42
Hauling	Bushel	8.70	.03	.26
Total harvest cost per harvested acre	Acre	1.00	---	3.74
Total harvest cost per planted acre (98 percent harvested)	do.	1.00	---	3.67
Total variable costs per planted acre	do.	1.00	---	24.78

Yield per acre planted	32.6 bushel
Yield per acre harvested	33.3 bushel

1/ Harvesting costs reflect 26 percent custom combined and hauled and 74 percent combined and hauled with owned equipment.

Table 152.--Soybeans: Estimated inputs and variable costs for Central Kansas Area V

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	1.74	1.53	2.66
Seed, 30 percent purchased	Bushel	.833	3.06	2.55
Fertilizer:				
Available nitrogen	Pound	1.00	.11	.11
Available phosphorus	do.	3.00	.22	.66
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	1.33
Equipment (lubricant and repair)	do.	---	---	.42
Pesticides, materials (various)	Acre	.40	6.30	2.52
Insurance, hail and FCIC	Dollar	---	---	.04
Interest on operating expense, 6 months at 7 percent	do.	7.63	.035	.27
Total preharvest cost	Acre	1.00	---	10.56
Harvest costs:1/				
Labor, regular	Hour	.64	1.53	.98
Power and equipment:				
Combine (fuel, lubricant, and repair)	Dollar	---	---	.85
Truck (fuel, lubricant, and repair)	do.	---	---	.09
Custom hire:				
Combining	Acre	.18	4.13	.74
Hauling	Bushel	3.00	.05	.15
Total harvest cost per harvested acre	Acre	1.00	---	2.81
Total harvest cost per planted acre (96 percent harvested)	do.	1.00	---	2.70
Total variable costs per planted acre	do.	1.00	---	13.26

Yield per acre planted	15.8 bushel
Yield per acre harvested	16.4 bushel

1/ Harvesting costs reflect 18 percent custom combined and hauled and 82 percent combined and hauled with owned equipment.

Table 153.--Soybeans: Estimated inputs and variable costs for Eastern Kansas Area W

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:				
Labor, regular	Hour	1.93	1.53	2.95
Seed, 30 percent purchased	Bushel	1.00	3.06	3.06
Fertilizer and lime:				
Available nitrogen	Pound	1.00	.11	.11
Available phosphorus	do.	3.00	.22	.66
Available potassium	do.	2.00	.05	.10
Lime	Ton	.08	4.00	.32
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	1.53
Equipment (lubricant and repair)	do.	---	---	.54
Pesticides, materials (various)	Acre	.50	6.76	3.38
Insurance, hail and FCIC	Dollar	---	---	.09
Interest on operating expense, 6 months at 7 percent	do.	9.79	.035	.34
Total preharvest cost	Acre	1.00	---	13.08
Harvest costs:[1/]				
Labor, regular	Hour	.81	1.53	1.24
Power and equipment:				
Combine (fuel, lubricant, and repair)	Dollar	---	---	1.07
Truck (fuel, lubricant, and repair)	do.	---	---	.15
Custom hire:				
Combining	Acre	.10	5.00	.50
Hauling	Bushel	2.00	.05	.10
Total harvest cost per harvested acre	Acre	1.00	---	3.06
Total harvest cost per planted acre (97 percent harvested)	do.	1.00	---	2.97
Total variable costs per planted acre	do.	1.00	---	16.05

Yield per acre planted 19.8 bushel
Yield per acre harvested 20.4 bushel

1/ Harvesting costs reflect 10 percent custom combined and hauled and 90 percent combined and hauled with owned equipment.

Table 154.--Alfalfa hay: Estimated inputs and variable costs for Western North Dakota Area A

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:[1/]				
Labor, regular	Hour	.32	1.47	.47
Seed, 100 percent purchased	Pound	2.00	.57	1.14
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	.35
Equipment (lubricant and repair)	do.	---	---	.14
Interest on operating expense, 6 months at 7 percent	do.	1.63	.035	.06
Total preharvest cost	Acre	1.00	---	2.16
Harvest costs:[2/]				
Labor, regular	Hour	2.77	1.47	4.07
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	1.87
Equipment (fuel, lubricant, and repair)	do.	---	---	.80
Custom hire, baling	Bale	5.40	.13	.70
Other expenses, twine	Ton	1.02	.90	.92
Total harvest cost per harvested acre	Acre	1.00	---	8.36
Total harvest cost per planted acre (100 percent harvested)	do.	1.00	---	8.36
Total variable costs per planted acre	do.	1.00	---	10.52

Yield per acre planted 1.20 ton
Yield per acre harvested 1.20 ton

1/ Costs of establishment prorated over four years.

2/ Harvesting costs reflect 15 percent custom baled, 85 percent baled with owned equipment, and all of the cutting and stacking done with owned equipment.

Table 155.--Alfalfa hay: Estimated inputs and variable costs for Central North Dakota Area B

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:[1/]				
Labor, regular	Hour	.32	1.47	.47
Seed, 100 percent purchased	Pound	2.00	.57	1.14
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	.35
Equipment (lubricant and repair)	do.	---	---	.14
Interest on operating expense, 6 months at 7 percent	do.	1.63	.035	.06
Total preharvest cost	Acre	1.00	---	2.16
Harvest costs:[2/]				
Labor, regular	Hour	2.95	1.47	4.34
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	1.95
Equipment (fuel, lubricant, and repair)	do.	---	---	.84
Custom hire, baling	Bale	7.20	.12	.86
Other expenses, twine	Ton	1.10	.90	.99
Total harvest cost per harvested acre	Acre	1.00	---	8.98
Total harvest cost per planted acre (100 percent harvested)	do.	1.00	---	8.98
Total variable costs per planted acre	do.	1.00	---	11.14

Yield per acre planted 1.34 ton
Yield per acre harvested 1.34 ton

1/ Costs of establishment prorated over four years.

2/ Harvesting costs reflect 18 percent custom baled, 82 percent baled with owned equipment, and all of the cutting and stacking done with owned equipment.

Table 156.--Alfalfa hay: Estimated inputs and variable costs for Eastern North Dakota Area C

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:[1/]				
Labor, regular	Hour	.32	1.47	.47
Seed, 100 percent purchased	Pound	2.00	.57	1.14
Fertilizer:				
Available nitrogen	do.	2.00	.10	.20
Available phosphorus	do.	2.00	.24	.48
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	.35
Equipment (lubricant and repair)	do.	---	---	.14
Interest on operating expense, 6 months at 7 percent	do.	2.31	.035	.08
Total preharvest cost	Acre	1.00	---	2.86
Harvest costs:[2/]				
Labor, regular	Hour	3.33	1.47	4.90
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	2.21
Equipment (fuel, lubricant, and repair)	do.	---	---	.95
Custom hire, baling	Bale	10.50	.12	1.26
Other expenses, twine	Ton	1.40	.90	1.26
Total harvest cost per harvested acre	Acre	1.00	---	10.58
Total harvest cost per planted acre (100 percent harvested)	do.	1.00	---	10.58
Total variable costs per planted acre	do.	1.00	---	13.44

Yield per acre planted 1.75 ton
Yield per acre harvested 1.75 ton

1/ Costs of establishment prorated over four years.

2/ Harvesting costs reflect 20 percent custom baled, 80 percent baled with owned equipment, and all of the cutting and stacking done with owned equipment.

Table 157.--Alfalfa hay: Estimated inputs and variable costs for Northern South Dakota Area D

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:[1/]				
Labor, regular	Hour	.32	1.39	.44
Seed, 100 percent purchased	Pound	1.67	.597	1.00
Fertilizer:				
Available nitrogen	do.	1.00	.10	.10
Available phosphorus	do.	1.00	.24	.24
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	.31
Equipment (lubricant and repair)	do.	---	---	.12
Interest on operating expense, 6 months at 7 percent	do.	1.77	.035	.06
Total preharvest cost	Acre	1.00	---	2.27
Harvest costs:[2/]				
Labor, regular	Hour	2.63	1.39	3.66
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	1.80
Equipment (fuel, lubricant, and repair)	do.	---	---	.63
Custom hire, baling	Bale	7.50	.12	.90
Other expenses, twine	Ton	1.00	.90	.90
Total harvest cost per harvested acre	Acre	1.00	---	7.89
Total harvest cost per planted acre (100 percent harvested)	do.	1.00	---	7.89
Total variable costs per planted acre	do.	1.00	---	10.16

Yield per acre planted 1.25 ton
Yield per acre harvested 1.25 ton

1/ Costs of establishment prorated over three years.

2/ Harvesting costs reflect 20 percent custom baled, 80 percent baled with owned equipment, and all of the cutting and stacking done with owned equipment.

Table 158.--Alfalfa hay: Estimated inputs and variable costs for Southwestern South Dakota Area E

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:[1/]				
Labor, regular	Hour	.28	1.39	.39
Seed, 100 percent purchased	Pound	1.33	.597	.79
Fertilizer:				
Available nitrogen	do.	1.00	.10	.10
Available phosphorus	do.	1.00	.24	.24
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	.31
Equipment (lubricant and repair)	do.	---	---	.12
Interest on operating expense, 6 months at 7 percent	do.	1.56	.035	.05
Total preharvest cost	Acre	1.00	---	2.00
Harvest costs:[2/]				
Labor, regular	Hour	2.30	1.39	3.20
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	1.77
Equipment (fuel, lubricant, and repair)	do.	---	---	.57
Custom hire, baling	Bale	10.80	.12	1.30
Other expenses, twine	Ton	.84	.90	.76
Total harvest cost per harvested acre	Acre	1.00	---	7.60
Total harvest cost per planted acre (100 percent harvested)	do.	1.00	---	7.60
Total variable costs per planted acre	do.	1.00	---	9.60

Yield per acre planted 1.20 ton
Yield per acre harvested 1.20 ton

1/ Costs of establishment prorated over three years.

2/ Harvesting costs reflect 30 percent custom baled, 70 percent baled with owned equipment, and all of the cutting and stacking done with owned equipment.

Table 159.--Alfalfa hay: Estimated inputs and variable costs for Southeastern South Dakota Area F

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:[1/]				
Labor, regular	Hour	.29	1.39	.40
Seed, 100 percent purchased	Pound	2.00	.597	1.19
Fertilizer:				
Available nitrogen	do.	3.00	.10	.30
Available phosphorus	do.	2.00	.24	.48
Available potassium	do.	1.00	.05	.05
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	.32
Equipment (lubricant and repair)	do.	---	---	.12
Interest on operating expense, 6 months at 7 percent	do.	2.46	.035	.09
Total preharvest cost	Acre	1.00	---	2.95
Harvest costs:[2/]				
Labor, regular	Hour	3.42	1.39	4.75
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	2.77
Equipment (fuel, lubricant, and repair)	do.	---	---	.51
Custom hire, baling	Bale	16.60	.12	1.99
Other expenses, twine	Ton	1.30	.90	1.17
Total harvest cost per harvested acre	Acre	1.00	---	11.19
Total harvest cost per planted acre (100 percent harvested)	do.	1.00	---	11.19
Total variable costs per planted acre	do.	1.00	---	14.14

Yield per acre planted	1.85 ton
Yield per acre harvested	1.85 ton

1/ Costs of establishment prorated over three years.

2/ Harvesting costs reflect 30 percent custom baled, 70 percent baled with owned equipment, and all of the cutting and stacking done with owned equipment.

Table 160.--Alfalfa hay: Estimated inputs and variable costs for Eastern Wyoming Area G

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:[1/]				
Labor, regular	Hour	.26	1.32	.34
Seed, 100 percent purchased	Pound	1.50	.60	.90
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	.25
Equipment (lubricant and repair)	do.	---	---	.09
Pesticides:				
Materials (various)	Acre	.03	1.00	.03
Custom application	do.	.02	1.15	.02
Interest on operating expense, 6 months at 7 percent	Dollar	1.29	.035	.05
Total preharvest cost	Acre	1.00	---	1.68
Harvest costs:[2/]				
Labor, regular	Hour	2.21	1.32	2.92
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	1.10
Equipment (fuel, lubricant, and repair)	do.	---	---	.89
Truck (fuel, lubricant, and repair)	do.	---	---	.08
Custom hire, baling	Bale	4.30	.16	.69
Other expenses, twine	Ton	.41	1.00	.41
Total harvest cost per harvested acre	Acre	1.00	---	6.09
Total harvest cost per planted acre (100 percent harvested)	do.	1.00	---	6.09
Total variable costs per planted acre	do.	1.00	---	7.77

Yield per acre planted	0.95 ton
Yield per acre harvested	0.95 ton

1/ Costs of establishment prorated over five years.

2/ Harvesting costs reflect 15 percent custom baled, 43 percent baled and 42 percent stacked loose with owned equipment, and all of the cutting and stacking done with owned equipment.

Table 161.--Irrigated alfalfa: Estimated inputs and variable costs for Wyoming Irrigated Area H

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:[1/]				
Labor, regular	Hour	3.50	1.32	4.62
Seed, 100 percent purchased	Pound	2.50	.60	1.50
Fertilizer:				
Available nitrogen	do.	6.00	.10	.60
Available phosphorus	do.	9.00	.24	2.16
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	.58
Equipment (lubricant and repair)	do.	---	---	.25
Irrigation system (fuel, lubricant, and repair)	Acre inch	30.00	.25	7.50
Pesticides:				
Materials (various)	Acre	.10	1.50	.15
Custom application	do.	.03	1.50	.05
Interest on operating expense, 6 months at 7 percent	Dollar	12.79	.035	.45
Total preharvest cost	Acre	1.00	---	17.86
Harvest costs:[2/]				
Labor, regular	Hour	4.91	1.32	6.48
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	2.48
Equipment (fuel, lubricant, and repair)	do.	---	---	2.01
Truck (fuel, lubricant, and repair)	do.	---	---	.25
Custom hire, baling	Bale	9.00	.16	1.44
Other expenses, twine	Ton	.86	1.00	.86
Total harvest cost per harvested acre	Acre	1.00	---	13.52
Total harvest cost per planted acre (100 percent harvested)	do.	1.00	---	13.52
Total variable costs per planted acre	do.	1.00	---	31.38

Yield per acre planted 2.00 ton
Yield per acre harvested 2.00 ton

1/ Costs of establishment prorated over five years.

2/ Harvesting costs reflect 15 percent custom baled, 43 percent baled and 42 percent stacked loose with owned equipment, and all of the cutting and stacking done with owned equipment.

Table 162.--Alfalfa hay: Estimated inputs and variable costs for Western Nebraska Area J

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:[1/]				
Labor, regular	Hour	.32	1.54	.49
Seed, 100 percent purchased	Pound	1.67	.597	1.00
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	.27
Equipment (lubricant and repair)	do.	---	---	.11
Interest on operating expense, 6 months at 7 percent	do.	1.38	.035	.05
Total preharvest cost	Acre	1.00	---	1.92
Harvest costs:[2/]				
Labor, regular	Hour	2.53	1.54	3.90
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	1.63
Equipment (fuel, lubricant, and repair)	do.	---	---	.71
Custom hire, baling	Bale	16.50	.13	2.15
Other expenses, twine	Ton	.18	.90	.16
Total harvest cost per harvested acre	Acre	1.00	---	8.55
Total harvest cost per planted acre (100 percent harvested)	do.	1.00	---	8.55
Total variable costs per planted acre	do.	1.00	---	10.47

Yield per acre planted 1.13 ton
Yield per acre harvested 1.13 ton

1/ Costs of establishment prorated over five years.

2/ Harvesting costs reflect 49 percent custom baled, 16 percent baled and 35 percent stacked loose with owned equipment, and all of the cutting and stacking done with owned equipment.

Table 163.--Alfalfa hay: Estimated inputs and variable costs for Central Nebraska Area K

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:[1/]				
Labor, regular	Hour	.31	1.54	.48
Seed, 100 percent purchased	Pound	2.00	.597	1.19
Fertilizer:				
Available nitrogen	do.	2.00	.11	.22
Available phosphorus	do.	2.00	.23	.46
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	.24
Equipment (lubricant and repair)	do.	---	---	.07
Interest on operating expense, 6 months at 7 percent	do.	2.18	.035	.08
Total preharvest cost	Acre	1.00	---	2.74
Harvest costs:[2/]				
Labor, regular	Hour	3.49	1.54	5.37
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	2.12
Equipment (fuel, lubricant, and repair)	do.	---	---	1.05
Custom hire, baling	Bale	21.20	.12	2.54
Other expenses, twine	Ton	.47	.90	.42
Total harvest cost per harvested acre	Acre	1.00	---	11.50
Total harvest cost per planted acre (100 percent harvested)	do.	1.00	---	11.50
Total variable costs per planted acre	do.	1.00	---	14.24

Yield per acre planted 1.57 ton
Yield per acre harvested 1.57 ton

1/ Costs of establishment prorated over five years.

2/ Harvesting costs reflect 45 percent custom baled, 30 percent baled and 25 percent stacked loose with owned equipment, and all of the cutting and stacking done with owned equipment.

Table 164.--Alfalfa hay: Estimated inputs and variable costs for Eastern Nebraska Area L

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:[1/]				
Labor, regular	Hour	.41	1.54	.63
Seed, 100 percent purchased	Pound	3.00	.597	1.79
Fertilizer:				
Available nitrogen	do.	6.00	.11	.66
Available phosphorus	do.	3.00	.23	.69
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	.31
Equipment (lubricant and repair)	do.	---	---	.09
Interest on operating expense, 6 months at 7 percent	do.	3.54	.035	.12
Total preharvest cost	Acre	1.00	---	4.29
Harvest costs:[2/]				
Labor, regular	Hour	5.10	1.54	7.85
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	2.96
Equipment (fuel, lubricant, and repair)	do.	---	---	1.48
Custom hire, baling	Bale	30.60	.11	3.37
Other expenses, twine	Ton	.84	.90	.76
Total harvest cost per harvested acre	Acre	1.00	---	16.42
Total harvest cost per planted acre (100 percent harvested)	do.	1.00	---	16.42
Total variable costs per planted acre	do.	1.00	---	20.71

Yield per acre planted 2.32 ton
Yield per acre harvested 2.32 ton

1/ Costs of establishment prorated over four years.

2/ Harvesting costs reflect 44 percent custom baled, 36 percent baled and 20 percent stacked loose with owned equipment, and all of the cutting and stacking done with owned equipment.

Table 165.--Irrigated alfalfa: Estimated inputs and variable costs for Irrigated Nebraska Area M

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:[1/]				
Labor, regular	Hour	2.97	1.54	4.57
Seed, 100 percent purchased	Pound	2.40	.597	1.43
Fertilizer:				
Available nitrogen	do.	8.00	.11	.88
Available phosphorus	do.	22.00	.23	5.06
Available potassium	do.	2.00	.05	.10
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	.58
Equipment (lubricant and repair)	do.	---	---	.12
Irrigation system (fuel, lubricant, and repair)	Acre inch	24.00	.19	4.56
Interest on operating expense, 6 months at 7 percent	Dollar	12.73	.035	.45
Total preharvest cost	Acre	1.00	---	17.75
Harvest costs:[2/]				
Labor, regular	Hour	7.06	1.54	10.87
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	4.33
Combine (fuel, lubricant, and repair)	do.	---	---	1.96
Custom hire, baling	Bale	24.20	.12	2.90
Other expenses, twine	Ton	1.47	.90	1.32
Total harvest cost per harvested acre	Acre	1.00	---	21.38
Total harvest cost per planted acre (100 percent harvested)	do.	1.00	---	21.38
Total variable costs per planted acre	do.	1.00	---	39.13

Yield per acre planted 3.51 ton
Yield per acre harvested 3.51 ton

1/ Costs of establishment prorated over five years.

2/ Harvesting costs reflect 23 percent custom baled, 42 percent baled and 35 percent stacked loose with owned equipment, and all of the cutting and stacking done with owned equipment.

Table 166.--Alfalfa hay: Estimated inputs and variable costs for Northeastern Colorado Area N

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:[1/]				
Labor, regular	Hour	.25	1.38	.35
Seed, 100 percent purchased	Pound	1.50	.58	.87
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	.25
Equipment (lubricant and repair)	do.	---	---	.09
Pesticides:				
Materials (various)	Acre	.10	1.00	.10
Custom application	do.	.06	1.50	.09
Interest on operating expense, 6 months at 7 percent	Dollar	1.40	.035	.05
Total preharvest cost	Acre	1.00	---	1.80
Harvest costs:[2/]				
Labor, regular	Hour	2.26	1.38	3.12
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	1.14
Equipment (fuel, lubricant, and repair)	do.	---	---	1.03
Truck (fuel, lubricant, and repair)	do.	---	---	.08
Custom hire, baling	Bale	5.10	.16	.82
Other expenses, twine	Ton	.50	1.00	.50
Total harvest cost per harvested acre	Acre	1.00	---	6.69
Total harvest cost per planted acre (100 percent harvested)	do.	1.00	---	6.69
Total variable costs per planted acre	do.	1.00	---	8.49

Yield per acre planted 1.00 ton
Yield per acre harvested 1.00 ton

1/ Costs of establishment prorated over five years.

2/ Harvesting costs reflect 17 percent custom baled, 50 percent baled and 33 percent stacked loose with owned equipment, and all of the cutting and stacking done with owned equipment.

Table 167.--Irrigated alfalfa: Estimated inputs and variable costs for Colorado Irrigated Area R

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:[1/]				
Labor, regular	Hour	3.37	1.38	4.65
Seed, 100 percent purchased	Pound	2.40	.58	1.39
Fertilizer:				
Available nitrogen	do.	5.00	.10	.50
Available phosphorus	do.	10.00	.24	2.40
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	.45
Equipment (lubricant and repair)	do.	---	---	.22
Irrigation system (fuel, lubricant, and repair)	Acre inch	30.00	.25	7.50
Pesticides:				
Materials (various)	Acre	.25	1.50	.38
Custom application	do.	.16	2.50	.40
Interest on operating expense, 6 months at 7 percent	Dollar	13.24	.035	.46
Total preharvest cost	Acre	1.00	---	18.35
Harvest costs:[2/]				
Labor, regular	Hour	5.08	1.38	7.01
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	2.61
Equipment (fuel, lubricant, and repair)	do.	---	---	2.35
Truck (fuel, lubricant, and repair)	do.	---	---	.25
Custom hire, baling	Bale	10.70	.16	1.71
Other expenses, twine	Ton	1.05	1.00	1.05
Total harvest cost per harvested acre	Acre	1.00	---	14.98
Total harvest cost per planted acre (100 percent harvested)	do.	1.00	---	14.98
Total variable costs per planted acre	do.	1.00	---	33.33

Yield per acre planted	2.10 ton
Yield per acre harvested	2.10 ton

1/ Costs of establishment prorated over five years.

2/ Harvesting costs reflect 17 percent custom baled, 50 percent baled and 33 percent stacked loose with owned equipment, and all of the cutting and stacking done with owned equipment.

Table 168.--Alfalfa hay: Estimated inputs and variable costs for Western Kansas Area S

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:[1/]				
Labor, regular	Hour	.30	1.53	.46
Seed, 100 percent purchased	Pound	2.00	.525	1.05
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	.25
Equipment (lubricant and repair)	do.	---	---	.13
Pesticides:				
Materials (various)	Acre	.03	1.00	.03
Custom application	do.	.02	1.50	.03
Interest on operating expense, 6 months at 7 percent	Dollar	1.49	.035	.05
Total preharvest cost	Acre	1.00	---	2.00
Harvest costs:[2/]				
Labor, regular	Hour	2.24	1.53	3.43
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	1.60
Equipment (fuel, lubricant, and repair)	do.	---	---	.29
Custom hire, baling	Bale	31.50	.16	5.04
Total harvest cost per harvested acre	Acre	1.00	---	10.36
Total harvest cost per planted acre (100 percent harvested)	do.	1.00	---	10.36
Total variable costs per planted acre	do.	1.00	---	12.36

Yield per acre planted 1.05 ton
Yield per acre harvested 1.05 ton

1/ Costs of establishment prorated over five years.

2/ Harvesting costs reflect 100 percent custom baled and all of the cutting and stacking done with owned equipment.

Table 169.--Alfalfa hay: Estimated inputs and variable costs for Kansas Transition Area T

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:[1/]				
Labor, regular	Hour	.30	1.53	.46
Seed, 100 percent purchased	Pound	2.00	.525	1.05
Fertilizer:				
Available nitrogen	do.	1.00	.11	.11
Available phosphorus	do.	1.00	.22	.22
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	.24
Equipment (lubricant and repair)	do.	---	---	.13
Pesticides:				
Materials (various)	Acre	.03	1.00	.03
Custom application	do.	.02	1.50	.03
Interest on operating expense, 6 months at 7 percent	Dollar	1.81	.035	.06
Total preharvest cost	Acre	1.00	---	2.33
Harvest costs:[2/]				
Labor, regular	Hour	2.65	1.53	4.05
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	1.87
Equipment (fuel, lubricant, and repair)	do.	---	---	.36
Custom hire, baling	Bale	37.80	.13	4.91
Total harvest cost per harvested acre	Acre	1.00	---	11.19
Total harvest cost per planted acre (100 percent harvested)	do.	1.00	---	11.19
Total variable costs per planted acre	do.	1.00	---	13.52

Yield per acre planted 1.26 ton
Yield per acre harvested 1.26 ton

1/ Costs of establishment prorated over five years.

2/ Harvesting costs reflect 100 percent custom baled and all of the cutting and stacking done with owned equipment.

Table 170.--Alfalfa hay: Estimated inputs and variable costs for Central Kansas Area V

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:[1/]				
Labor, regular	Hour	.33	1.53	.50
Seed, 100 percent purchased	Pound	2.40	.525	1.26
Fertilizer:				
Available nitrogen	do.	2.00	.11	.22
Available phosphorus	do.	4.00	.22	.88
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	.25
Equipment (lubricant and repair)	do.	---	---	.08
Pesticides, materials (various)	Acre	.03	1.00	.03
Interest on operating expense, 6 months at 7 percent	Dollar	2.72	.035	.10
Total preharvest cost	Acre	1.00	---	3.32
Harvest costs:[2/]				
Labor, regular	Hour	4.96	1.53	7.59
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	2.99
Equipment (fuel, lubricant, and repair)	do.	---	---	1.41
Custom hire, baling	Bale	50.20	.13	6.53
Other expenses, twine	Ton	.56	.90	.50
Total harvest cost per harvested acre	Acre	1.00	---	19.02
Total harvest cost per planted acre (100 percent harvested)	do.	1.00	---	19.02
Total variable costs per planted acre	do.	1.00	---	22.34

Yield per acre planted 2.23 ton
Yield per acre harvested 2.23 ton

1/ Costs of establishment prorated over five years.

2/ Harvesting costs reflect 75 percent custom baled, 25 percent baled with owned equipment, and all cutting and stacking done with owned equipment.

Table 171.--Alfalfa hay: Estimated inputs and variable costs for Eastern Kansas Area W

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:[1/]				
Labor, regular	Hour	.33	1.53	.50
Seed, 100 percent purchased	Pound	3.00	.525	1.58
Fertilizer and lime:				
Available nitrogen	do.	7.00	.11	.77
Available phosphorus	do.	6.00	.22	1.32
Available potassium	do.	2.00	.05	.10
Lime	Ton	.08	4.00	.32
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	.27
Equipment (lubricant and repair)	do.	---	---	.08
Pesticides, materials (various)	Acre	.03	1.00	.03
Interest on operating expense, 6 months at 7 percent	Dollar	4.47	.035	.16
Total preharvest cost	Acre	1.00	---	5.13
Harvest costs:[2/]				
Labor, regular	Hour	5.46	1.53	8.35
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	3.34
Equipment (fuel, lubricant, and repair)	do.	---	---	1.60
Custom hire, baling	Bale	42.00	.12	5.04
Other expenses, twine	Ton	.93	.90	.84
Total harvest cost per harvested acre	Acre	1.00	---	19.17
Total harvest cost per planted acre (100 percent harvested)	do.	1.00	---	19.17
Total variable costs per planted acre	do.	1.00	---	24.30

Yield per acre planted 2.33 ton
Yield per acre harvested 2.33 ton

1/ Costs of establishment prorated over five years.

2/ Harvesting costs reflect 60 percent custom baled, 40 percent baled with owned equipment, and all cutting and stacking done with owned equipment.

Table 172.--Irrigated alfalfa: Estimated inputs and variable costs for Kansas Irrigated Area Y

Category	Unit	Quantity	Price	Value
			Dollars	Dollars
Preharvest costs:[1/]				
Labor, regular	Hour	2.93	1.53	4.48
Seed, 100 percent purchased	Pound	2.40	.525	1.26
Fertilizer:				
Available nitrogen	do.	15.00	.11	1.65
Available phosphorus	do.	15.00	.22	3.30
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	.61
Equipment (lubricant and repair)	do.	---	---	.12
Irrigation system (fuel, lubricant, and repair)	Acre inch	26.00	.169	4.39
Pesticides:				
Materials (various)	Acre	.03	1.00	.03
Custom application	do.	.02	1.50	.03
Interest on operating expense, 6 months at 7 percent	Dollar	11.39	.035	.40
Total preharvest cost	Acre	1.00	---	16.27
Harvest costs:[2/]				
Labor, regular	Hour	7.70	1.53	11.78
Power and equipment:				
Tractor (fuel, lubricant, and repair)	Dollar	---	---	5.25
Equipment (fuel, lubricant, and repair)	do.	---	---	2.56
Custom hire, baling	Bale	39.60	.16	6.34
Other expenses, twine	Ton	1.98	.90	1.78
Total harvest cost per harvested acre	Acre	1.00	---	27.71
Total harvest cost per planted acre (100 percent harvested)	do.	1.00	---	27.71
Total variable costs per planted acre	do.	1.00	---	43.98

Yield per acre planted 3.30 ton
Yield per acre harvested 3.30 ton

1/ Costs of establishment prorated over five years.

2/ Harvesting costs reflect 40 percent custom baled, 60 percent baled with owned equipment, and all cutting and stacking done with owned equipment.

Table 173.--Counties by APAT Production Areas, Great Plains Region

Great Plains

Area A - N. Dak.	Area B-N. Dak.--Cont.	Area E - S. Dak.
Adams	Sheridan	Aurora
Billings	Steele	Bennett
Bowman	Stutsman	Brule
Burke	Towner	Buffalo
Divide	Wells	Charles Mix
Dunn		Custer
Golden Valley	Area C - N. Dak.	Fall River
Grant		Gregory
Hettinger	Cass	Haakon
McKenzie	Grand Forks	Hughes
Mercer	Pembina	Jackson
Morton	Richland	Jones
Mountrail	Trail	Lyman
Oliver	Walsh	Mellette
Renville		Pennington
Sioux	Area D - S. Dak.	Shannon
Slope		Stanley
Stark	Beadle	Todd
Ward	Brown	Tripp
Williams	Butte	Washabaugh
	Campbell	
Area B - N. Dak.	Clark	Area F - S. Dak.
	Codington	
Barnes	Corson	Bon Homme
Benson	Day	Brookings
Bottineau	Dewey	Clay
Burleigh	Edmunds	Davison
Cavalier	Faulk	Deuel
Dickey	Hand	Douglas
Eddy	Harding	Grant
Emmons	Hyde	Hamlin
Foster	Jerauld	Hanson
Griggs	Lawrence	Hutchinson
Kidder	McPherson	Kingsbury
LaMoure	Marshall	Lake
Logan	Mead	Lincoln
McHenry	Perkins	McCook
McIntosh	Potter	Miner
McLean	Roberts	Minnehaha
Nelson	Spink	Moody
Pierce	Sully	Sanborn
Ramsey	Walworth	Turner
Ransom	Ziebach	Union
Rolette		Yankton
Sargent		

Table 173.--Counties by APAT Production Areas, Great Plains Region--Continued

Great Plains

Area G - Wyo.

Campbell
Converse
Crook
Goshen
Johnson
Laramie
Natrona
Niobrara
Platte
Sheridan
Weston

Area J - Nebr.

Authur
Banner
Box Butte
Chase
Cherry
Cheyenne
Dawes
Deuel
Dundy
Frontier
Garden
Grant
Hayes
Hitchcock
Hooker
Keith
Kimball
Lincoln
Logan
McPherson
Morrill
Perkins
Red Willow
Scotts Bluff
Sheridan
Sioux
Thomas

Area K - Nebr.

Adams
Blaine
Boyd
Brown
Buffalo
Custer
Dawson
Franklin
Furnas
Garfield
Gosper
Greeley
Hall
Harlan
Holt
Howard
Kearney
Keya Paha
Loup
Phelps
Rock
Sherman
Valley
Webster
Wheeler

Area L - Nebr.

Antelope
Boone
Burt
Butler
Cass
Cedar
Clay
Colfax
Cuming
Dakota
Dixon
Dodge
Douglas
Fillmore
Gage
Hamilton
Jefferson

Area L- Nebr.--Cont.

Johnson
Knox
Lancaster
Madison
Merrick
Nance
Nemaha
Nuckolls
Otoe
Pawnee
Pierce
Platte
Polk
Richardson
Saline
Sarpy
Saunders
Seward
Stanton
Thayer
Thurston
Washington
Wayne
York

Area N - Colo.

Boulder
Denver
Douglas
Elbert
Jefferson
Carson
Larimer
Lincoln
Logan
Morgan
Phillips
Sedgwick
Washington
Weld
Yuma
Adams
Arapahoe

Table 173.--Counties by APAT Production Areas, Great Plains Region--Continued

Great Plains

Area P - Colo.

Baca
Bent
Cheyenne
Crowley
Custer
El Paso
Fremont
Huerfano
Kiowa
Las Animas
Otero
Prowers
Pueblo

Area S - Kans.

Cheyenne
Decatur
Finney
Gave
Grant
Gray
Greenley
Hamilton
Haskell
Kearny
Lane
Logan
Meade
Morton
Rawlings
Scott
Seward
Sheridan
Shermon
Stanton
Stevens
Thomas
Wallace
Wichita

Area T - Kans.

Barber
Barton

Area T - Kans.--Cont

Clark
Comanche
Edwards
Ellis
Ford
Graham
Hodgeman
Kiowa
Ness
Norton
Osborne
Pawnee
Phillips
Pratt
Rooks
Rush
Russell
Smith
Stafford
Trego

Area V - Kans.

Clay
Cloud
Dickinson
Ellsworth
Harper
Harvey
Jewell
Kingman
Lincoln
McPherson
Marion
Mitchell
Ottawa
Reno
Republic
Rice
Saline
Sedgwick
Sumner
Washington

Area W - Kans.

Allen
Anderson
Atchison
Bourbon
Brown
Butler
Chase
Chautauqua
Cherokee
Coffey
Cowley
Crawford
Doniphan
Douglas
Elk
Franklin
Geary
Greenwood
Jackson
Jefferson
Johnson
Labette
Leavenworth
Linn
Lyon
Marshall
Miami
Montgomery
Morris
Nemaha
Neosho
Osage
Pottawatomie
Riley
Shawnee
Wabaunsee
Wilson
Woodson
Wyandotte