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**FIELD CROPS
COSTS AND RETURNS
FROM
FARM COST ACCOUNTS**

**28 FARMS-1981
NEW YORK STATE**

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REPORTS
from
FARM COST ACCOUNTS

28 Farms, 1981

Enterprise data from the 1981 New York Farm Cost Account Project have been published in the following reports. Additional copies may be obtained from County Extension offices or directly from the Department of Agricultural Economics, Cornell University, Ithaca, New York 14853-0398.

Overhead Costs	A.E. Res. 82-33
Livestock Costs and Returns	A.E. Res. 82-34
Field Crops Costs and Returns	A.E. Res. 82-35
Fruit and Vegetable Crops Costs and Returns	A.E. Res. 82-36

FIELD CROPS COSTS AND RETURNS, A.E. Res. 82-35

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INTRODUCTION

The New York Farm Cost Account Project is a research project which serves as a means of obtaining primary cost data for enterprises common on New York farms. It provides data on labor requirements and costs, machinery costs, and production costs for crop and livestock enterprises. The data is published from detailed enterprise records kept by New York farmers in cooperation with the Department of Agricultural Economics at Cornell University. These publications provide College and field staff, as well as farmers and others interested in agriculture, with a continuous record of economic changes taking place on New York farms.

The farms are located in most of the farming areas of the State. They are generally well-managed, full-time, commercial farm businesses. They provide an indication of economic factors experienced by some of the "better" farmers in New York.

The reports present the results of individual enterprises and the averages of the enterprise costs and returns for all farms. They show not only the averages of cost and returns but also indications of the variations and reasons for them. The factors for individual enterprises are arranged according to size of enterprise. The annual averages of the various factors are not averages of average costs but are weighted by the size of the enterprise..

Acknowledgements

The project was under the supervision of Darwin Snyder, who also did the field work necessary to complete the records. Editing and processing the data, closing the books, and the preparation of these reports was done by Barbara Wilcox and Florence Blodgett assisted by Oneta Shipe. Mary Chaffee assisted in processing the data.

The material on pages 2, 3, and 4 of this report was taken from A.E. Res. 82-24, Dairy Farm Management Business Summary, New York, 1981, by Stuart F. Smith.

Special acknowledgement is due the group of farmers who are willing to keep the detailed records so essential to such a system of enterprise cost accounting. Without their continuing efforts and willingness to provide this information, this important and accurate source of real farm data would not exist.

Inflation, appreciation, supply and demand all have a direct affect on the inventory values on New York dairy farms. Machinery and real estate prices have risen steadily during the past six years with machinery prices increasing more rapidly. Dairy cow prices have changed most dramatically since 1975 as the demand for replacements jumped in 1978 and 1979 and weakened in 1981.

Table 1. UNIT VALUES OF NEW YORK DAIRY FARM INVENTORY ITEMS, 1975-1981

Year*	New York Dairy Cows		Machinery*	N.Y. Farm Real Estate	
	Value/Head	1977=100	1977=100	Value/Acre	1977=100
1975	\$ 450	91	82	\$510	88
1976	485	98	91	553	95
1977	495	100	100	587	100
1978	800	162	109	600	102
1979	1,105	223	122	670	113
1980	1,240	251	136	708	119
1981	1,120	226	152	749	126

*Annual average for U.S.

Table 1 shows New York year end (December) price received for dairy cows (replacements), an index of the same cow prices, an index of U.S. machinery prices, and the average per acre value of New York farmland and buildings reported in February. Chart 1 illustrates the annual changes in cow, machinery, and real estate values that have occurred over the last six years.

Chart 1. ANNUAL CHANGES IN DAIRY COW, FARM MACHINERY, & FARM REAL ESTATE VALUES
% change
New York Dairy Farms, 1975-1981

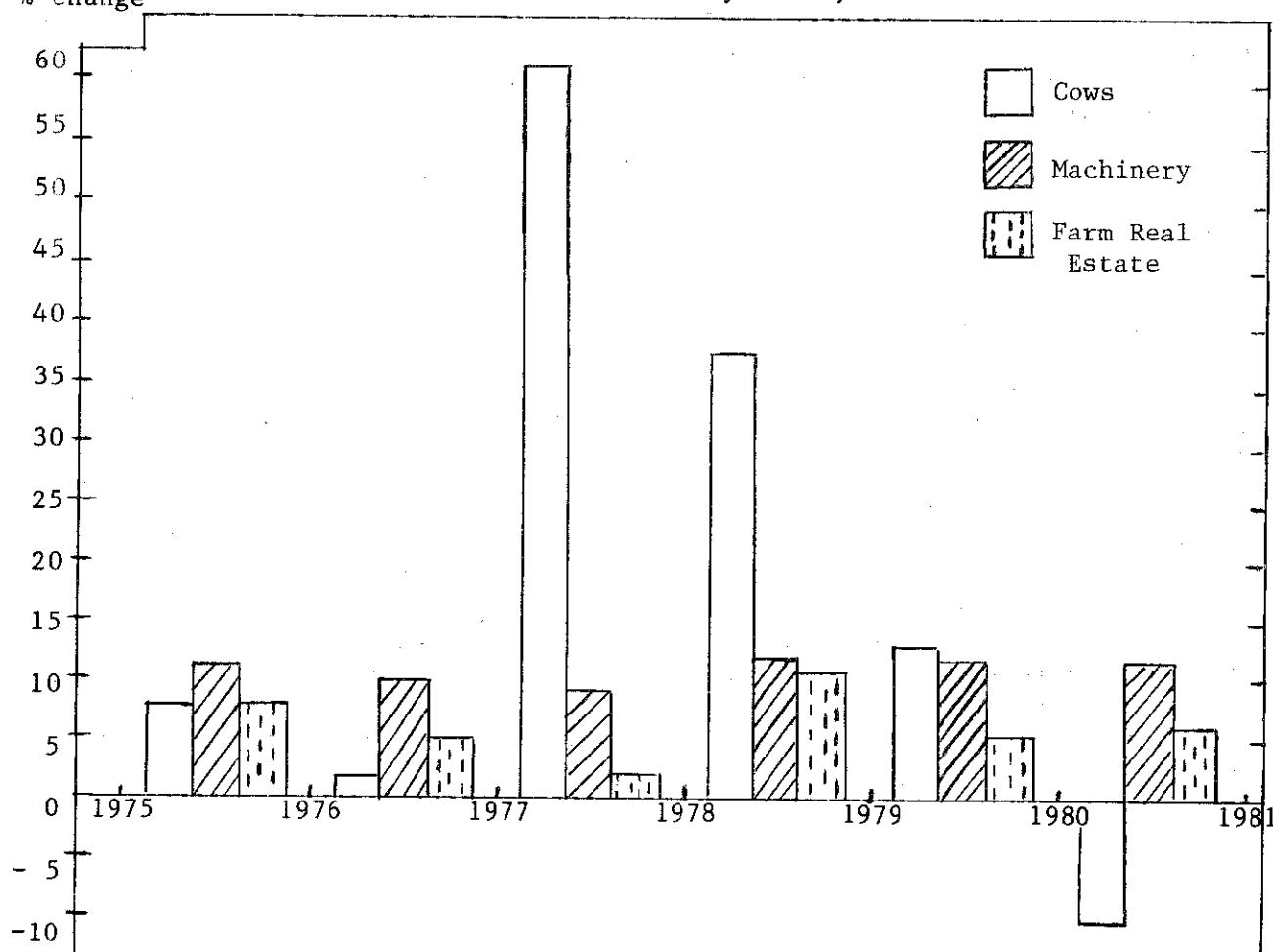
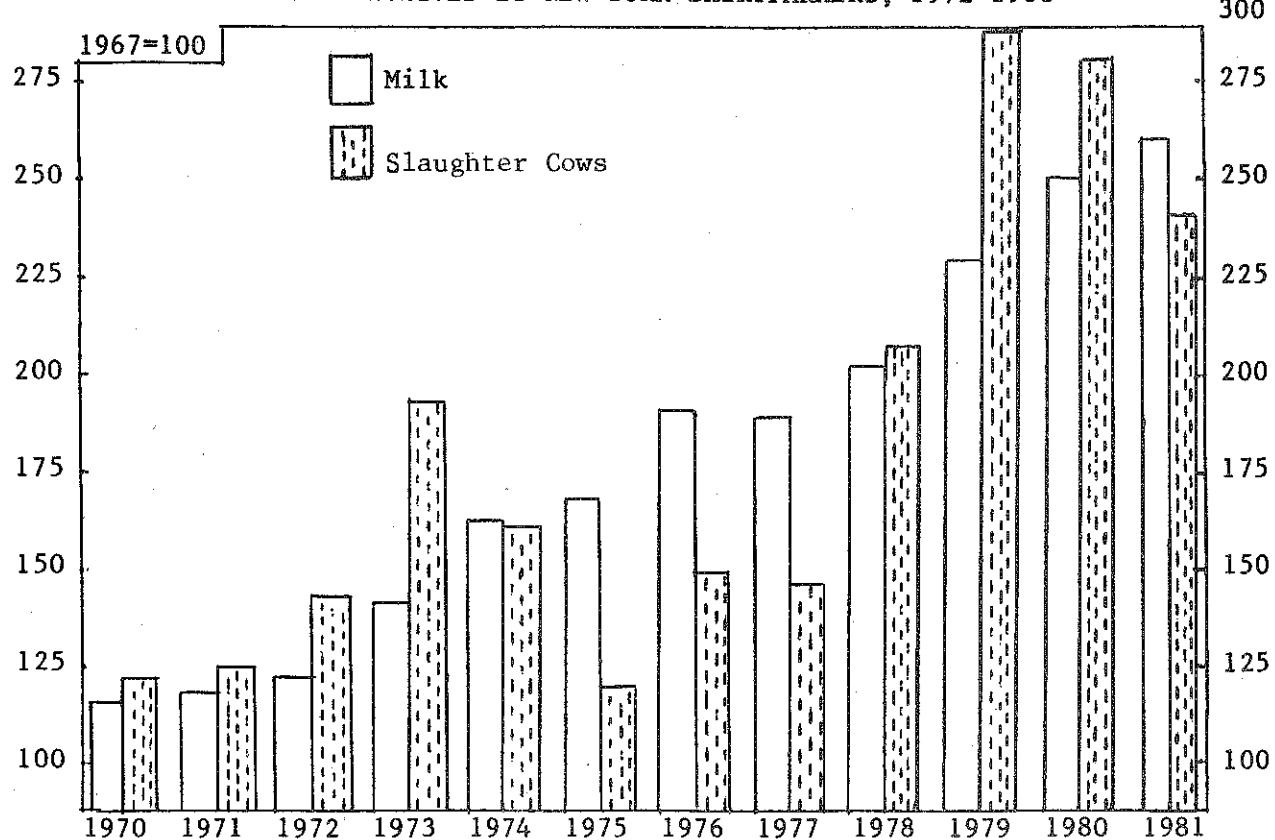


Chart 2. PRICES RECEIVED BY NEW YORK DAIRYFARMERS, 1972-1981



The prices dairyfarmers receive for milk, cattle, and other commodities they sell have a major effect on dairy farm profits. Chart 2 shows what has happened to average milk and slaughter cow prices paid to New York farmers since 1970. Milk prices have increased at a more constant rate showing only one year of decline since 1970. Slaughter cow prices have shown wide fluctuations over the period but have not moved in the same direction for more than three consecutive years.

Table 2. PRICES RECEIVED BY NEW YORK DAIRYFARMERS, 1970-1981

Year	All Milk (cwt.)	Slaughter Cows (cwt.)	Calves (cwt.)	Monthly	Farm Price Per 100 Lbs. of Milk, 1981
1970	\$ 5.99	\$20.70	\$34.70	January	\$14.00
1971	6.12	21.20	36.20	February	13.90
1972	6.33	24.50	44.80	March	13.60
1973	7.32	32.80	54.60	April	13.40
1974	8.35	27.10	40.80	May	13.20
				June	13.00
1975	8.71	20.60	26.20	July	13.50
1976	9.83	25.40	34.50	August	13.90
1977	9.75	25.00	37.50	September	14.10
1978	10.50	35.30	58.20	October	14.40
1979	11.90	49.80	88.80	November	14.20
				December	13.90
1980	13.00	46.30	78.00		
1981	13.80	41.30	66.20		

Table 3. PRICES PAID BY FARMERS FOR SELECTED ITEMS, 1972-1980

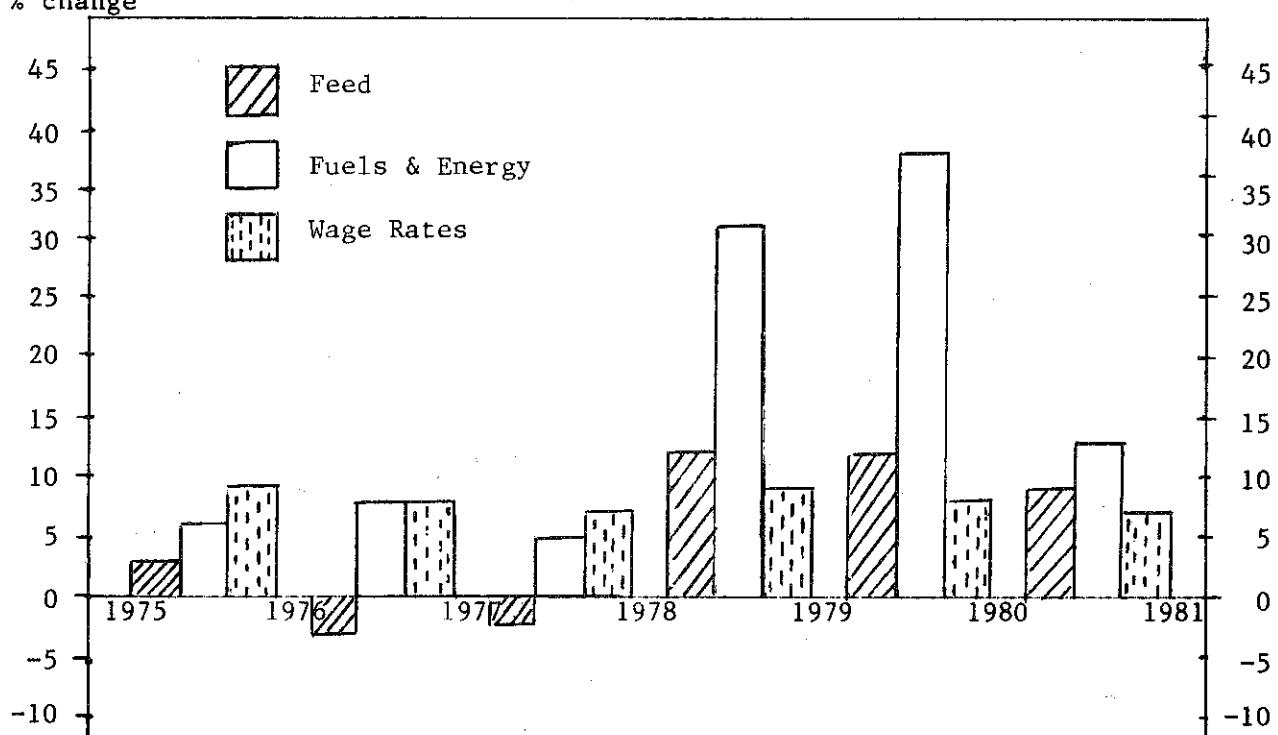
Year	Index 1977=100					
	Feed	Fert.	Fuel & Energy	Wage Rates	Taxes	Interest
1972	57	52	54	63	75	46
1973	86	56	57	69	77	54
1974	104	92	79	79	81	65
1975	100	120	88	85	87	76
1976	103	102	93	93	94	87
1977	100	100	100	100	100	100
1978	98	100	105	107	100	118
1979	110	108	137	117	107	144
1980	123	134	188	127	114	179
1981	134	144	213	136	124	195

SOURCE: USDA Agricultural Prices

The prices dairyfarmers pay for a given quantity of goods and services has a major influence on farm production costs. The astute manager will keep close tabs on unit costs and substitute the most economical goods and services for those that are too expensive.

Table 3 shows the unit cost indexes of selected goods and services used on New York dairy farms. The changes in feed prices, fuels and energy costs, and wage rates between years are illustrated in Chart 3.

Chart 3. ANNUAL CHANGES IN PRICES OF THREE MAJOR PRODUCTION ITEMS
U.S. Dairy Farms, 1975-1981



Although all three major cost items have increased since 1975. Feed prices have been through a cycle, fuel and energy costs show the greatest increases, and wage rates have increased at a relatively slow but constant rate.

Growing Conditions

Table 1. TEMPERATURE, PRECIPITATION, AND GROWING SEASON
Selected Stations, New York, 1941-70 and 1981

Station	Average temperature May - Sept.		Precipitation				Length of growing season*	
	1941-70 1981		May - Sept.		Total Annual		1947-67	1981
	degrees	inches					days	
Albany	65.7	64.4	15.4	13.9	33.4	30.4	---	133
Alfred	61.8	60.8	17.2	19.3	36.7	49.8	125	132
Aurora	64.6	63.3	13.8	21.1	40.0	37.7	160	134
Batavia	64.1	64.4	15.3	----	32.6	39.8	154	159
Binghamton	63.3	63.6	17.9	12.7	37.4	30.3	154	156
Canton	63.0	62.0	16.5	20.2	34.5	34.7	127	133
Glens Falls	----	64.1	17.8	17.8	39.3	30.4	----	134
Ithaca	63.8	62.7	17.2	17.0	34.8	39.1	145	133
Lowville	62.5	60.7	16.5	----	38.5	37.6	123	133
Utica	63.5	63.8	18.1	23.3	40.6	41.9	157	135

*Days between the last temperature of 32 degrees in the spring and the first in the fall.

Source: Climatological Data, NOAA, Environmental Data Service, Annual Summary, New York, 1981, Vol. 93, No. 13.

Weather is a factor to be considered when studying a farm business for specific year. The growing conditions have a marked effect on the crops for that year. It is for this reason that data are presented on the growing conditions for 1981 and for the period 1941-70.

The 1981 growing season, generally, produced good crops although the harvest season, particularly September, was cool and wet. Variability was a key word to describe both temperatures and precipitation in most parts of the State throughout the season. Table 2 illustrates weather stations which show conditions that deviated significantly from the average.

Data in Tables 1 and 2 are presented for 10 weather stations located throughout the State.

Table 2. GROWING SEASON RAINFALL
Selected Stations, New York, 1941-70 and 1981

	May		June		July		August		September	
	1941-70	1981	1941-70	1981	1941-70	1981	1941-70	1981	1941-70	1981
inches										
Albany	3.26	2.44	3.00	2.78	3.12	3.50	2.87	1.76	3.12	3.45
Alfred	3.76	2.55	3.76	3.52	3.73	6.53	3.00	1.70	2.93	4.96
Aurora	2.98	1.95	2.54	3.82	3.03	4.07	2.81	4.34	2.46	6.95
Batavia	3.17	----	2.69	----	3.05	3.20	3.50	5.07	2.87	5.67
Binghamton	3.83	1.94	3.59	3.42	3.83	1.99	3.61	1.99	3.02	3.40
Canton	3.37	2.90	2.91	3.88	3.43	2.27	3.47	5.23	3.31	5.93
Glens Falls	3.63	2.81	3.77	2.47	3.68	3.81	3.42	2.35	3.31	6.40
Ithaca	3.55	1.78	3.40	2.57	3.67	4.03	3.49	3.63	3.08	4.98
Lowville	3.42	2.98	2.94	3.20	3.26	5.11	3.58	----	3.31	5.27
Utica	3.52	2.01	3.55	3.42	4.17	4.06	3.54	2.75	3.32	11.09

Source: Climatological Data, NOAA, Environmental Data Service, Annual Summary, New York, 1981, Vol. 93, No. 13.

YIELDS FOR CROPS AND LIVESTOCK
New York State and Farm Cost Account Averages

Item	Unit	New York State*				Cost Account 1981
		1957-61	1967-71	1977-81	1981	
Hay, Alfalfa mix.	tons	2.2	2.6	2.7	2.7	3.2
Corn silage	tons	11	14	14	14.5	16.0
Corn grain	bushels	57	85	90	93	93
Oats	bushels	52	60	60	64	--
Wheat	bushels	32	39	40	44	56
Milk per cow	lbs.	7,914	10,361	11,742	12,265	15,493

*Source: New York Agricultural Statistics, 1981; Crop Reporting Service, USDA.

FARM COST ACCOUNT SUMMARY, 1981
Crop Enterprises

Crop	Number of enterprises	Average acres		Hours of labor		Return per hour of labor		Profit per acre	Profit on enterprise
		per enterprise	per acre	Yield per acre	per acre*	Dollar of labor	Dollar of cost		
<u>Forage:</u>									
Hay	18	52	3.2 tn.	7	1.70	0.86	-32	-1,710	
Hay crop silage	18	149	7.9 tn.	4	2.79	0.94	-14	-2,129	
Corn silage	20	111	16.0 tn.	5	5.97	0.99	-5	-556	
<u>Grain:</u>									
Corn for grain	9	82	93 bu.	3	-12.79	0.77	-70	-5,778	
High moist. corn	21	126	3.6 tn.	4	-0.45	0.92	-23	-2,819	
Wheat	11	146	56 bu.	2	15.26	1.10	17	2,509	
<u>Fruit:</u>									
Apples	12	99	406 bu.	84	8.97	1.13	191	18,721	
Red tart cherries	7	38	2,815 lb.	37	13.76	1.35	291	11,008	

*To grow and harvest the crop.

ENTERPRISE RATES OF RETURN

FARM COST ACCOUNT RECORDS, 1978-81

Enterprise	Return per hour of labor				Return per dollar of cost			
	1978	1979	1980	1981	1978	1979	1980	1981
	\$	\$	\$	\$	\$	\$	\$	\$
<u>Livestock:</u>								
Dairy cows	9.01	10.77	10.64	7.89	1.13	1.15	1.11	1.04
Dairy heifers	2.23	3.97	5.94	0.25	0.92	0.96	0.99	0.87
<u>Forage:</u>								
Hay	3.31	0.90	0.02	1.70	0.94	0.84	0.81	0.86
Hay crop silage	-2.52	0.39	5.82	2.79	0.79	0.87	1.00	0.94
Corn silage	4.46	9.05	5.86	5.97	0.98	1.07	0.99	0.99
<u>Grain:</u>								
Corn for grain	0.00	5.12	23.76	-12.79	0.92	1.00	1.28	0.77
High moisture corn	6.98	18.84	22.68	0.45	1.04	1.22	1.23	0.92
Oats	-3.92	-18.35	NA	NA	0.77	0.63	NA	NA
Wheat	-4.11	22.68	22.46	15.26	0.75	1.26	1.21	1.10
<u>Fruits:</u>								
Apples	7.61	7.39	5.52	8.97	1.19	1.07	0.91	1.13
Sweet cherries	7.45	NA	NA	NA	1.29	NA	NA	NA
Red tart cherries	43.59	33.16	17.29	13.76	3.43	2.80	1.62	1.35

Hay -

Hay enterprises deal only with that portion of the hay crop harvested as dry hay. Efforts are made to separate the costs related to dry hay production and those for hay crop silage. The hay crop is normally harvested more than once and, on most dairy farms, the harvest will include both dry hay and hay crop silage - sometimes on the same field the same day. Estimates are made to determine a reasonable allocation of production and acres to both enterprises.

Growing costs include only those costs related to an established hay crop. Costs to establish new seedings are not included except as seeding costs are amortized over the life of the stand. This year's share of those costs are shown as "seed" costs.

Harvesting costs include costs for the obvious harvesting activities plus costs to place the crop in farm storage or on a truck if sold at harvest time.

Storing and selling costs include costs to store the crop and interest on the value of the crop while stored. Costs incurred by the grower to sell any part of the crop would also be included.

HAY
COSTS AND RETURNS PER ACRE
943 ACRES ON 18 COST ACCOUNT FARMS, 1981

* VALUE OF BY-PRODUCTS, IF ANY, DEDUCTED

** DECEITS FROM GOVERNMENT PROGRAMS NOT INCLUDED

FACTORS FROM 18 ENTERPRISES OF HAY
 18 COST ACCOUNT FARMS, 1981
 (ARRANGED BY ACRES OF CROP)

FARM NO.	ACRES PER ENIR	AVERAGE		PROD HR OF LABOR	AVERAGE			TOTAL COSTI**	TOTAL RETURN
		YIELD AC	PER TN		GROW HR	HARV COSTI	TOTAL COSTI		
836	118.7	3.7	11	0.3	94	138	256	223	
827	91.0	4.2	8	0.5	74	154	252	251	
867	82.5	2.6	5	0.6	70	73	173	175	
112	74.0	3.1	8	0.4	85	104	215	219	
111	73.9	2.3	3	0.7	87	97	205	163	
105	73.5	2.7	7	0.4	73	95	191	180	
821	60.0	2.4	6	0.4	101	126	242	156	
835	55.5	3.3	9	0.4	107	131	300	196	
834	45.0	4.0	6	0.6	89	119	255	237	
146	40.0	2.2	7	0.3	98	109	217	110	
127	40.0	3.3	3	1.0	89	84	211	229	
840	36.0	2.8	7	0.4	76	102	196	168	
105	35.0	2.9	4	0.8	75	93	204	200	
830	31.0	3.8	13	0.3	93	144	299	247	
828	28.0	2.6	10	0.3	60	128	221	185	
804	25.5	3.9	11	0.4	108	208	348	255	
824	22.8	3.8	7	0.5	125	135	273	264	
806	11.1	3.2	7	0.4	169	177	362	205	

1981 GROUP AVERAGES ACCORDING TO ACRES:

THIRDS

HIGH	85.6	3.2	8	0.5	81	111	216	202
MED	46.1	3.0	7	0.6	94	112	237	183
LOW	25.6	3.4	9	0.5	105	148	285	227

ANNUAL AVERAGES - ALL ENIR, WEIGHTED BY ACRES:

1981	52.4	3.2	7	0.4	87	118	234	202
1980	70.1	2.8	7	0.4	80	97	201	163
1979	76.0	2.9	7	0.4	72	89	185	155
1978	76.1	2.2	5	0.4	49	66	131	123
1977	69.3	2.3	6	0.4	49	65	136	142

* TO GROW AND HARVEST THE CROP

** INCLUDES STORING AND SELLING COSTS

*** VALUE OF BY-PRODUCTS, IF ANY, DEDUCTED
 (RECEIPTS FROM GOVERNMENT PROGRAMS NOT INCLUDED)

FACTORS FROM 18 ENTERPRISES OF HAY
18 COST ACCOUNT FARMS, 1981
(READ ACROSS BOTH PAGES)

PROFIT PER ACRE LABOR RETURN	AVERAGE PER ACRE		AVERAGE IN***		RETURN PER HOUR		PROFIT ON ENTER- PRISE	FARM NO.
	NET COST	NET RETURN	\$	\$	\$	\$		
33-	53	69	60	4.81	0.87	3,864-	836	
1-	66	60	60	7.99	0.99	167-	827	
2	23	65	66	5.00	1.01	193	867	
4	42	69	70	5.46	1.02	301	112	
42-	21-	88	70	6.35-	0.80	3,090-	111	
11-	25	70	66	3.43	0.94	835-	105	
86-	51-	101	65	8.47-	0.65	5,139-	821	
104-	56-	91	59	5.94-	0.65	5,771-	835	
18-	28	64	60	4.33	0.93	791-	834	
107-	78-	99	50	11.53-	0.51	4,299-	146	
18	37	64	70	11.23	1.09	739	127	
28-	21	70	60	2.79	0.86	1,004-	840	
4-	15	71	70	4.06	0.98	135-	105	
52-	20	79	65	1.46	0.83	1,601-	830	
36-	7	84	70	0.72	0.84	1,001-	828	
93-	22-	89	65	2.11-	0.73	2,381-	804	
9-	30	72	70	4.08	0.97	208-	824	
157-	104-	115	65	14.63-	0.57	1,747-	806	

1981 GROUP AVERAGES, ACCORDING TO ACRES:

						THIRDS
13-	32	71	66	3.39	0.94	1,243- HIGH
53-	16-	82	61	1.26-	0.78	2,710- MED
58-	8-	85	68	1.06-	0.82	1,178- LOW

ANNUAL AVERAGES- ALL ENTR. WEIGHTED BY ACRES:

32-	13	74	64	1.70	0.86	1,710-	1981
38-	0	70	57	0.02	0.81	2,632-	1980
30-	6	64	54	0.90	0.84	2,260-	1979
8-	18	60	57	3.31	0.94	569-	1978
6	32	59	62	5.15	1.05	467	1977

Hay Crop Silage -

Hay crop silage enterprises deal only with that portion of the hay crop handled as hay crop silage. See notes on page 8.

Because hay crop silage is harvested at a wide range of moisture levels, production is converted to a standard equivalent at 55 percent moisture to provide more meaningful data to average and/or compare.

Storing and selling costs include the cost of storing the silage and interest on the value of the crop while stored. Costs to remove the crop from storage are charged to the consuming livestock enterprise.

**HAY CRCP SILAGE
COSTS AND RETURNS PER ACRE
2,681 ACRES ON 18 COST ACCOUNT FARMS, 1981**

ITEM	AVERAGE PER ACRE
COSTS: GROWING:	
LABOR	\$ 0
TRACTOR	0
TRUCK, EQUIPMENT	0
CUSTOM WORK, EQUIP RENT	1
LAND USE	46
MANURE, LIME, COVER CROP	6
FERT - LBS N- 2, P- 14, K- 98	21
SEED, PLANTS NA	25
SPRAY, DUST MATERIALS	3
INTEREST, ALL OTHER	4
TOTAL GROWING COSTS	\$ 106
HARVESTING:	
LABOR	25
TRACTOR	23
TRUCK, EQUIPMENT	47
CUSTOM WORK, EQUIP RENT	0
ALL OTHER	5
TOTAL HARVESTING COSTS	100
TOTAL PRODUCTION COSTS	\$ 206
STORING AND SELLING:	
LABOR	0
TRACTOR, TRUCK, EQUIP	0
BUILDING USE	15
INTEREST, ALL OTHER	12
TOTAL STORING AND SELLING COSTS	27
TOTAL COSTS	\$ 233
RETURNS:	
CROP - YIELD: 7.9 TN - @ 55% moisture	\$ 219
BY-PRODUCT, OTHER RETURNS **	0
TOTAL RETURNS	\$ 219
PROFIT:	\$ 14-
AVERAGE	
OTHER FACTORS: COST PER TN TO: GROW	
	\$ 13
	HARVEST
	STORE AND SELL
	TOTAL (OR NET*) CCST PER TN
	30
	TOTAL (OR NET*) RETURN ** PER TN
	28
	PROFIT PER TN
	2-
LABOR RETURN PER ACRE	\$ 11
PRODUCTION PER HOUR OF LABOR	2.0 TN
RETURN PER HOUR OF LABOR	\$ 2.79
RETURN PER DOLLAR OF COST	0.94

* VALUE OF BY-PRODUCTS, IF ANY, DEDUCTED

** RECEIPTS FROM GOVERNMENT PROGRAMS NOT INCLUDED

FACTORS FROM 18 ENTERPRISES OF HAY CROP SILAGE
 18 COST ACCOUNT FARMS, 1981
 (ARRANGED BY ACRES OF CROP)

FARM NO.	ACRES PER ENTR	ACRES PER ENTR	AVERAGE		PROD HR OF LABOR	AVERAGE		TOTAL COST**	TOTAL RETURN
			YIELD AC	PER ACRE		PER HR	GROW COST		
			TN	HR	TN	\$	\$	\$	\$
834	626.0	8.8	3	3.2	98	69	185	228	
827	272.0	8.4	4	2.1	71	90	192	253	
830	231.3	7.1	4	1.7	90	95	205	200	
806	213.5	6.3	5	1.2	168	140	334	176	
840	176.0	6.7	3	2.5	72	55	157	174	
111	172.6	8.8	5	1.8	105	156	290	265	
812	164.5	7.6	3	2.3	190	112	319	213	
824	121.8	9.0	4	2.1	143	117	310	271	
804	118.8	7.4	5	1.5	105	114	231	207	
835	111.0	10.1	5	1.9	105	123	288	252	
105	89.0	6.5	4	1.5	76	103	200	182	
821	82.8	5.9	2	3.4	97	67	185	166	
105	80.0	7.1	4	1.7	74	138	228	214	
127	52.0	6.3	3	1.8	92	73	209	189	
828	50.0	7.5	3	2.4	112	114	300	211	
112	49.5	9.1	6	1.4	103	113	279	273	
146	36.0	5.9	8	0.7	109	236	355	177	
867	34.5	7.3	5	1.6	102	101	230	219	

1981 GROUP AVERAGES, ACCORDING TO ACRES:

THIRDS

HIGH	281.9	7.7	4	2.1	101	101	228	217
MED	114.7	7.8	4	2.2	120	107	256	216
LOW	50.3	7.2	5	1.6	99	130	267	214

ANNUAL AVERAGES - ALL ENTR, WEIGHTED BY ACRES:

1981	149.0	7.9	4	2.0	106	100	233	219
1980	156.5	7.2	4	1.9	87	84	195	194
1979	139.9	6.6	5	1.4	82	82	189	165
1978	137.1	4.9	4	1.2	66	64	148	117
1977	120.0	6.2	5	1.3	63	71	157	151

* TC GROW AND HARVEST THE CROP
 ** INCLUDES STORING AND SELLING COSTS
 *** VALUE OF BY-PRODUCTS, IF ANY, DEDUCTED
 (RECEIPTS FROM GOVERNMENT PROGRAMS NOT INCLUDED)

NOTE: Yield adjusted to 55% moisture.

FACTORS FROM 18 ENTERPRISES OF HAY CROP SILAGE
 18 COST ACCOUNT FARMS, 1981
 (READ ACROSS BOTH PAGES)

PROFIT	PER ACRE	AVERAGE		RETURN PER		FARM NO.
		LABOR	NET COST	NET RETURN	HOUR OF LABOR	
\$	\$	\$	\$	\$	\$	
43	63	21	26	22.96	1.23	27,104 834
61	94	23	30	23.66	1.32	16,786 827
5-	17	29	28	4.05	0.97	1,261- 830
158-	119-	53	28	22.64-	0.53	33,729- 806
17	35	23	26	12.83	1.11	3,029 840
25-	5	33	30	0.95	0.91	4,416- 111
106-	72-	42	28	21.96-	0.67	17,526- 812
39-	15-	34	30	3.70-	0.87	4,759- 824
24-	10	31	28	1.99	0.90	2,745- 804
36-	9-	29	25	1.88-	0.88	3,939- 835
18-	5	31	28	1.25	0.91	1,579- 105
19-	8-	31	28	5.22-	0.90	1,542- 821
14-	9	32	30	2.07	0.94	1,130- 105
20-	1-	33	30	0.52-	0.90	1,045- 127
89-	75-	40	28	23.64-	0.70	4,490- 828
6-	24	31	30	3.77	0.98	296- 112
178-	145-	60	30	18.54-	0.50	6,435- 146
11-	10	31	30	2.23	0.95	361- 867

1981 GROUP AVERAGES, ACCORDING TO ACRES:

						THIRDS
10-	16	31	29	6.97	1.01	1,252 HIGH
39-	14-	33	28	4.91-	0.86	5,347- MED
52-	29-	38	30	5.76-	0.83	2,292- LOW

ANNUAL AVERAGES - ALL ENR., WEIGHTED BY ACRES:

14-	11	30	28	2.79	0.94	2,129- 1981
1-	23	27	27	5.82	1.00	152- 1980
24-	2	29	25	0.39	0.87	3,417- 1979
31-	9-	30	24	2.52-	0.79	4,290- 1978
6-	15	25	25	3.19	0.96	669- 1977

Corn Silage -

Storing and selling costs include the cost of storing the silage and interest on the value of the crop while stored. Costs to remove the crop from storage are charged to the consuming livestock enterprise.

CORN SILAGE
COSTS AND RETURNS PER ACRE
2,218 ACRES ON 20 COST ACCOUNT FARMS, 1981

ITEM	AVERAGE PER ACRE
COSIS: GROWING:	
LABOR	2 HR - - - - - \$ 12
TRACTOR	1 HR - - - - - 14
TRUCK, EQUIPMENT	- - - - - 18
CUSTOM WORK, EQUIP RENT	- - - - - 3
LAND USE	- - - - - 48
MANURE, LIME, COVER CRCP	- - - - - 31
FERT - LBS N- 103, P- 59, K- 57	- - - - - 48
SEED, PLANTS	0 UN - - - - - 16
SPRAY, DUST MATERIALS	- - - - - 25
INTEREST, ALL CTHER	- - - - - 5
TOTAL GROWING COSTS	\$ 220
HARVESTING:	
LABOR	3 HR - - - - - 24
TRACTOR	3 HR - - - - - 26
TRUCK, EQUIPMENT	- - - - - 40
CUSTOM WORK, EQUIP RENT	- - - - - 1
ALL OTHER	- - - - - 4
TOTAL HARVESTING COSTS	95
TOTAL PRODUCTION COSTS	\$ 315
STORING AND SELLING:	
LABOR	0 HR - - - - - 0
TRACTOR, TRUCK, EQUIP	- - - - - 0
BUILDING USE	- - - - - 14
INTEREST, ALL CTHER	- - - - - 18
TOTAL STORING AND SELLING COSTS	32
TOTAL COSTS	\$ 347

REIURNS:

CRCR - YIELD: 16.0 TN - - - - - - - - \$ 342
BY-PRODUCT, OTHER RETURNS ** - - - - - - - 0
TOTAL RETURNS - - - - - - - - - - - - - - \$ 342

PROFII:

AVERAGE

OTHER FACTORS: COST PER IN TC • CRASH

	HARVEST STORE AND SELL	6 2
TOTAL (OR NET*) COST PER TN		22
TOTAL (CR NET*) RETURN ** PER TN		21
PROFIT PER TN		1-

LABOR RETURN PER ACRE \$ 31

PRODUCTION PER HOUR OF LABOUR

RETURN PER HOUR OF LABOR \$ 5.97
RETURN PER DOLLAR OF COST 0.99

* VALUE OF BY-PRODUCTS, IF ANY, DEDUCTED

** RECEIPTS FROM GOVERNMENT PROGRAMS NOT INCLUDED

FACTORS FROM 20 ENTERPRISES OF CORN SILAGE
20 CCST ACCOUNT FARMS, 1981
(ARRANGED BY ACRES OF CROP)

FARM NO.	ACRES ENIR	AVERAGE		PROD PER HR CF	AVERAGE			TOTAL RETURN
		YIELD	LABOR*		PER ACRE	HARV	TOTAL	
		AC	TN		HR	COST	COST	
834	360.3	13.0	3	3.7	189	69	278	260
812	323.4	19.0	4	4.9	221	74	330	418
827	228.0	17.5	6	3.0	227	127	377	368
806	208.7	15.5	8	2.1	242	137	402	340
821	160.1	15.2	6	2.4	186	100	318	320
840	152.0	15.3	5	3.7	259	67	369	305
804	120.7	18.3	7	2.7	270	108	400	402
830	83.5	17.4	8	2.3	250	84	367	382
105	82.0	13.6	3	4.4	192	107	322	313
111	76.6	14.4	5	2.6	206	109	370	332
824	69.7	19.5	3	5.4	235	77	357	449
836	66.5	14.9	6	2.3	195	115	350	320
105	56.0	14.7	6	2.4	220	94	362	319
835	55.0	17.0	6	3.2	235	101	367	340
112	48.5	15.5	6	2.6	194	82	356	340
127	48.0	18.2	5	4.2	234	69	324	401
153	26.5	11.3	4	2.8	193	58	290	226
867	20.0	15.4	5	2.9	209	105	401	354
828	16.6	9.3	5	1.7	227	118	382	196
146	16.0	14.1	10	1.5	230	302	558	295

1981 GROUP AVERAGES, ACCORDING TO ACRES:

THIRDS

HIGH	221.9	16.3	6	3.3	228	98	354	345
MED	72.4	15.8	6	3.3	217	98	355	353
LOW	32.9	14.4	6	2.7	218	120	383	308

ANNUAL AVERAGES - ALL ENIR, WEIGHTED BY ACRES:

1981	110.9	16.0	5	3.1	220	95	347	342
1980	122.1	14.6	5	3.0	202	80	307	304
1979	122.0	14.6	5	2.8	173	66	263	281
1978	123.0	12.3	5	2.2	157	62	236	231
1977	98.1	12.8	6	1.9	144	62	225	239

* TO GROW AND HARVEST THE CROP

** INCLUDES STORING AND SELLING COSTS

*** VALUE OF BY-PRODUCTS, IF ANY, DEDUCTED
(RECEIPTS FROM GOVERNMENT PROGRAMS NOT INCLUDED)

FACTORS FROM 20 ENTERPRISES OF CORN SILAGE
 20 COST ACCOUNT FARMS, 1981
 (READ ACROSS BOTH PAGES)

PROFIT	RETURN	AVERAGE PER ACRE		AVERAGE IN**		RETURN PER HOUR		ENTER- PRISE	FARM NO
		LABOR	NET COST	NET RETURN	OF LABOR	OF COST			
\$	\$	\$	\$	\$	\$	\$	\$		
18-	7	21	20	1.90	0.93	6,550-	834		
88	127	17	22	32.69	1.26	28,288	812		
9-	40	22	21	6.71	0.98	2,040-	827		
62-	7-	26	22	0.99-	0.85	12,850-	806		
2	37	21	21	5.70	1.01	291	821		
64-	36-	24	20	9.06-	0.83	9,701-	840		
2	45	22	22	6.80	1.01	282	804		
15	60	21	22	7.13	1.04	1,233	830		
9-	8	24	23	2.70	0.97	687-	105		
38-	1-	26	23	0.25-	0.90	2,892-	111		
92	112	18	23	30.50	1.26	6,400	824		
30-	31	24	22	4.82	0.91	2,034-	836		
43-	8-	25	22	1.39-	0.88	2,449-	105		
27-	0	22	20	0.13-	0.93	1,467-	835		
16-	12	23	22	1.99	0.96	752-	112		
77	102	18	22	23.28	1.24	3,685	127		
64-	43-	26	20	10.98-	0.78	1,672-	153		
47-	22-	26	23	4.40-	0.88	935-	867		
186-	161-	41	21	29.80-	0.51	3,080-	828		
263-	220-	40	21	22.07-	0.53	4,202-	146		

1981 GROUP AVERAGES, ACCORDING TO ACRES:

						THIRDS
8-	31	22	22	6.25	0.98	325- HIGH
1-	34	23	23	7.25	0.99	71- MED
74-	47-	28	22	6.01-	0.83	1,202- LOW

ANNUAL AVERAGES- ALL ENTR. WEIGHTED BY ACRES:

5-	31	22	21	5.97	0.99	556-	1981
3-	29	21	21	5.86	0.99	417-	1980
18	48	18	19	9.05	1.07	2,181	1979
5-	25	19	19	4.46	0.98	566-	1978
14	45	18	19	6.73	1.07	1,454	1977

Corn Grain -

Harvesting costs include costs to place the crop in a truck if the crop is to leave the farm for any reason at harvest time. Otherwise, harvesting costs include costs to deliver the corn to farm drying facilities or storage.

Storing and selling costs include costs to haul the corn from the farm to be dried, stored and/or sold. Also included are drying, storing and handling costs to the point of sale. Fuel for drying and custom drying costs are included under "all other" along with interest on the value of the stored crop. If the crop is used on the farm, costs to remove it from storage are charged to the livestock enterprise. A wide range of practices are followed from farm to farm.

CORN FOR GRAIN
COSTS AND RETURNS PER ACRE
739 ACRES ON 9 COST ACCOUNT FARMS, 1981

ITEM	AVERAGE PER ACRE
COSTS: GROWING:	
LABOR	\$ 12
TRACTOR	15
TRUCK, EQUIPMENT	19
CUSTOM WORK, EQUIP RENT	3
LAND USE	55
MANURE, LIME, COVER CROP	15
FERT - LBS N- 97, P- 55, K- 89	56
SEED, PLANTS 0 UN	16
SPRAY, DUST MATERIALS	24
INTEREST, ALL CTHR	5
TOTAL GROWING COSTS	\$ 220
HARVESTING:	
LABOR	11
TRACTOR	6
TRUCK, EQUIPMENT	19
CUSTOM WORK, EQUIP RENT	8
ALL CTHR	3
TOTAL HARVESTING COSTS	47
TOTAL PRODUCTION COSTS	\$ 267
STORING AND SELLING:	
LABOR	2
TRACTOR, TRUCK, EQUIP	9
BUILDING USE	2
INTEREST, ALL CTHR	30
TOTAL STORING AND SELLING CCSTS	43
TOTAL COSTS	\$ 310
RETURNS:	
CROP - YIELD: 93 BU	\$ 240
BY-PRODUCT, OTHER RETURNS **	0
TOTAL RETURNS	\$ 240
PROFIT:	\$ 70-
AVERAGE	
OTHER FACTORS: COST PER BU TO: GROW	
	\$ 2.38
	HARVEST
	0.51
	STORE AND SELL
	0.46
	TOTAL (CR NET*) CCST PER BU
	3.35
	TOTAL (CR NET*) RETURN ** PER BU
	2.59
	PROFIT PER BU
	0.76-
LABOR RETURN PER ACRE	
	\$ 45-
PRODUCTION PER HOUR OF LABOR	
	29 BU
RETURN PER HOUR OF LABOR	
	\$ 12.79-
RETURN PER DOLLAR OF COST	
	0.77

* VALUE OF BY-PRODUCTS, IF ANY, DEDUCTED

** RECEIPTS FROM GOVERNMENT PROGRAMS NOT INCLUDED

FACTORS FROM 9 ENTERPRISES OF CORN FOR GRAIN
 9 COST ACCOUNT FARMS, 1981
 (ARRANGED BY ACRES OF CROP)

FARM NO.	ACRES PER ENIR	AVERAGE PER ACRE		PROD PER HR OF LABOR	AVERAGE PER ACRE			TOTAL COST**	TOTAL RETURN \$
		YIELD	LABOR*		GROW COST	HARV COST	TOTAL COST		
	AC	BU	HR	BU	\$	\$	\$	\$	\$
848	119.0	91	4	26	255	61	363	221	
105	115.5	72	4	16	212	43	288	170	
105	109.3	88	2	38	190	43	274	261	
836	90.7	91	4	23	198	64	270	230	
112	89.0	87	2	40	180	40	299	228	
867	70.0	136	2	60	289	50	390	380	
827	60.0	89	3	26	215	42	312	223	
835	45.0	89	3	30	234	29	293	213	
824	40.9	120	2	45	236	32	303	295	

ANNUAL AVERAGES - ALL ENIR, WEIGHIED BY ACRES:

1981	82.2	93	3	29	220	47	310	240
1980	54.8	100	3	29	184	40	259	331
1979	97.9	99	3	28	181	43	266	265
1978	153.5	92	3	31	156	30	222	205
1977	149.4	76	4	21	137	21	187	163

* TO GROW AND HARVEST THE CROP

** INCLUDES STORING AND SELLING COSTS

*** VALUE OF BY-PRODUCTS, IF ANY, DEDUCTED
 (RECEIPTS FROM GOVERNMENT PROGRAMS NOT INCLUDED)

FACTORS FROM 9 ENTERPRISES OF CORN FOR GRAIN
 9 COST ACCOUNT FARMS, 1981
 (READ ACROSS BOTH PAGES)

<u>AVERAGE PER ACRE</u>	<u>PROFIT PER LABOR RETURN</u>	<u>AVERAGE PER BU***</u>		<u>RETURN PER HOUR</u>		<u>PROFIT ON ENTER- PRISE</u>	<u>FARM NO.</u>
		<u>NET COST</u>	<u>NET RETURN</u>	<u>OF LABOR</u>	<u>OF COST</u>		
\$	\$	\$	\$	\$	\$	\$	
142-	104-	3.99	2.43	28.95-	0.61	16,928-	848
118-	90-	4.00	2.36	18.10-	0.59	13,622-	105
13-	0	3.11	2.96	0.34-	0.95	1,490-	105
40-	0	2.96	2.52	0.25-	0.85	3,638-	836
71-	59-	3.46	2.63	22.33-	0.76	6,405-	112
10-	4	2.87	2.80	1.39	0.98	668-	867
89-	47-	3.50	2.50	9.31-	0.71	5,360-	827
80-	64-	3.28	2.39	21.45-	0.73	3,572-	835
8-	6	2.53	2.46	2.34	0.97	326-	824

ANNUAL AVERAGES - ALL ENTR., WEIGHTED BY ACRES:

70-	45-	3.35	2.59	12.79-	0.77	5,778-	1981
72	97	2.59	3.30	23.76	1.28	3,907	1980
1-	19	2.69	2.68	5.12	1.00	112-	1979
17-	0	2.41	2.22	0.00	0.92	2,721-	1978
24-	4-	2.38	2.08	0.99-	0.87	3,488-	1977

High Moisture Corn -

These enterprises include both high moisture shelled corn and ground ear corn fed on the farm to dairy cattle. Costs to remove the corn from storage are charged to the livestock enterprise.

HIGH MOISTURE CORN
 COSTS AND RETURNS PER ACRE
 2,644 ACRES ON 15 COST ACCOUNT FARMS, 1981

ITEM	AVERAGE PER ACRE
COSTS: GROWING:	
LABOR 2 HR - - - - -	\$ 11
TRACTOR 1 HR - - - - -	15
TRUCK, EQUIPMENT - - - - -	19
CUSTOM WORK, EQUIP RENT - - - - -	2
LAND USE - - - - -	47
MANURE, LIME, COVER CROP - - - - -	23
FERT - LBS N- 107, P- 66, K- 72 - - -	53
SEED, PLANTS 0 UN - - - - -	16
SPRAY, DUST MATERIALS - - - - -	26
INTEREST, ALL CTHER - - - - -	4
TOTAL GROWING COSTS - - - - -	\$ 216
HARVESTING:	
LABOR 2 HR - - - - -	10
TRACTOR 1 HR - - - - -	8
TRUCK, EQUIPMENT - - - - -	29
CUSTOM WORK, EQUIP RENT - - - - -	2
ALL CTHER - - - - -	2
TOTAL HARVESTING COSTS - - - - -	51
TOTAL PRODUCTION COSTS - - - - -	\$ 267
STORING AND SELLING:	
LABOR 0 HR - - - - -	0
TRACTOR, TRUCK, EQUIP - - - - -	0
BUILDING USE - - - - -	9
INTEREST, ALL CTHER - - - - -	15
TOTAL STORING AND SELLING CCSTS - - -	24
TOTAL COSTS - - - - - - - - - - -	\$ 291
RETURNS:	
CROP - YIELD: 3.6 TN - - - - -	\$ 268
BY-PRODUCT, OTHER RETURNS ** - - - - -	0
TOTAL RETURNS - - - - - - - - - - -	\$ 268
PROFIT: - - - - - - - - - - -	\$ 23-
	AVERAGE
CTHER FACTORS: COST PER TN TC: GROW	\$ 61
HARVEST	14
STORE AND SELL	6
TOTAL (CR NET*) CCST PER TN	81
TOTAL (CR NET*) RETURN ** PER TN	75
PROFIT PER TN	6-
LABCR RETURN PER ACRE	\$ 1-
PRODUCTION PER HOUR OF LABCR	1.1 TN
RETURN PER HOUR OF LABOR	\$ 0.45-
RETURN PER DOLLAR OF COST	0.92

* VALUE CF BY-PRODUCTS, IF ANY, DEDUCTED

** RECEIPTS FRM GOVERNMENT PROGRAMS NOT INCLUDED

FACTORS FROM 21 ENTERPRISES OF HIGH MOISTURE CORN
 15 COST ACCOUNT FARMS, 1981
 (ARRANGED BY ACRES OF CROP)

FARM NO.	ACRES ENIR	AVERAGE			PROD HR OF LABOR	AVERAGE			TOTAL COST**	TOTAL RETURN
		PER AC	PER TN	ACRE LABOR*		PER HR	ACRE GROW COST	HARV COST		
							\$	\$	\$	\$
834	540.5	3.7	2	1.7	209	48	275	259		
834+	320.0	3.5	2	1.7	214	48	290	281		
824+	263.9	3.3	2	1.4	237	31	286	277		
827+	263.0	2.8	3	0.8	221	46	287	225		
830	182.0	5.1	8	0.6	246	73	349	394		
111	133.1	4.2	4	0.9	202	84	310	314		
105	127.0	4.7	4	1.2	214	41	276	281		
828+	120.0	2.1	1	1.1	198	42	259	146		
806	113.2	3.8	4	1.0	237	45	325	319		
827	96.0	3.8	3	1.1	215	52	285	264		
112+	80.5	3.0	3	1.1	180	43	270	212		
821	75.8	5.0	6	0.8	159	87	272	391		
835+	73.5	1.5	2	1.0	230	0	235	102		
153	63.5	3.8	6	0.6	194	80	291	283		
105	61.5	3.1	4	0.8	216	46	266	139		
867	42.0	4.2	3	1.6	302	73	429	333		
146	30.0	3.8	9	0.5	216	168	428	299		
105+	20.7	2.9	2	1.3	150	41	191	226		
867+	17.0	3.5	3	1.2	226	58	324	282		
835	14.0	4.6	4	1.1	236	60	317	302		
105+	7.0	3.3	4	0.8	211	37	248	191		

1981 GROUP AVERAGES ACCORDING TO ACRES:
THIRDS

HIGH	261.4	3.9	4	1.2	221	54	297	291
MED	88.9	3.3	4	1.0	202	50	277	246
LOW	27.5	3.7	4	1.1	223	70	315	254

ANNUAL AVERAGES - ALL ENIR, WEIGHTED BY ACRES:

1981	125.9	3.6	4	1.1	216	51	291	268
1980	144.3	3.6	4	1.0	191	42	255	314
1979	137.5	3.8	3	1.1	159	41	217	264
1978	119.3	3.5	4	0.9	154	33	200	208
1977	114.7	3.0	4	0.7	131	34	176	188

* TO GROW AND HARVEST THE CROP

** INCLUDES STORING AND SELLING COSTS

*** VALUE OF BY-PRODUCTS, IF ANY, DEDUCTED

(RECEIPTS FROM GOVERNMENT PROGRAMS NOT INCLUDED)

+ Harvested as HM shelled corn, otherwise as HM ground ear corn.

FACTORS FROM 21 ENTERPRISES OF HIGH MOISTURE CORN
 15 COST ACCOUNT FARMS, 1981
 (READ ACROSS BOTH PAGES)

PROFIT	PER ACRE	AVERAGE		RETURN PER		ON	FARM
		LABOR	IN**	HOUR	\$		
		\$	\$	\$	\$		
16-	0	74	70	0.19-	0.94	8,720-	834
9-	5	83	80	2.64	0.97	2,887-	834
9-	4	88	85	1.53	0.97	2,413-	824
62-	33-	102	80	10.06-	0.79	16,161-	827
45	88	69	78	11.15	1.13	8,236	830
4	34	74	75	7.10	1.01	486	111
5	26	59	60	6.45	1.02	528	105
113-	103-	124	70	54.65-	0.56	13,527-	828
6-	21	86	85	5.74	0.98	611-	806
21-	7	75	70	2.10	0.93	1,974-	827
58-	45-	91	71	16.74-	0.78	4,680-	112
119	154	54	78	23.96	1.44	9,017	821
133-	123-	233	101	67.97-	0.43	9,748-	835
8-	23	77	75	3.60	0.97	492-	153
127-	102-	86	45	23.62-	0.52	7,786-	105
96-	83-	103	80	31.96-	0.78	4,012-	867
129-	94-	112	78	11.59-	0.70	3,861-	146
35	47	67	79	20.64	1.18	707	105
42-	27-	92	80	9.63-	0.87	710-	867
15-	5	68	65	1.23	0.95	206-	835
57-	35-	76	58	8.95-	0.77	404-	105

1981 GROUP AVERAGES, ACCORDING TO ACRES:

						THIRDS
5-	18	79	76	2.66	0.98	HIGH
30-	8-	106	79	14.84-	0.87	MED
61-	40-	87	70	9.12-	0.82	LOW

ANNUAL AVERAGES - ALL ENTR., WEIGHTED BY ACRES:

23-	1-	81	75	0.45-	0.92	2,819-	1981
59	80	71	87	22.68	1.23	8,578	1980
47	66	57	69	18.84	1.22	6,560	1979
8	28	56	59	6.98	1.04	1,005	1978
12	30	57	61	7.10	1.07	1,363	1977

Small Grains -

Harvesting costs include costs to harvest the grain only and place it in farm storage. Costs and returns for handling the straw have been excluded from the enterprise figures.

Storing and selling costs include mainly the cost of bins to store the crop and interest on the value of the stored crop. Costs incurred by the grower to sell any part of the crop would also be included. If fed on the farm, cost to remove the crop from storage are charged to the consuming live-stock enterprise.

WHEAT
COSTS AND RETURNS PER ACRE
1,602 ACRES ON 11 COST ACCOUNT FARMS, 1981

ITEM	AVERAGE PER ACRE
COSTS: GROWING:	
LABOR 1 HR - - - - -	\$ 7
TRACTOR 1 HR - - - - -	7
TRUCK, EQUIPMENT - - - - -	9
CUSTOM WORK, EQUIP RENT - - - - -	7
LAND USE - - - - -	43
MANURE, LIME, COVER CROP - - - - -	1
FERT - LBS N- 69, P- 44, K- 51 - -	36
SEED, PLANTS 140 LB - - - - -	15
SPRAY, DUST MATERIALS - - - - -	3
INTEREST, ALL CTHR - - - - -	6
TOTAL GROWING COSTS - - - - -	\$ 134
HARVESTING:	
LABOR 1 HR - - - - -	7
TRACTOR 0 HR - - - - -	1
TRUCK, EQUIPMENT - - - - -	12
CUSTOM WORK, EQUIP RENT - - - - -	5
ALL CTHR - - - - -	5
TOTAL HARVESTING COSTS - - - - -	30
TOTAL PRODUCTION COSTS - - - - -	\$ 164
STORING AND SELLING:	
LABOR 0 HR - - - - -	2
TRACTOR, TRUCK, EQUIP - - - - -	4
BUILDING USE - - - - -	1
INTEREST, ALL CTHR - - - - -	10
TOTAL STORING AND SELLING CCSTS - -	17
TOTAL COSTS - - - - -	\$ 181
RETURNS:	
CROP - YIELD: 56 BU - - - - -	\$ 195
BY-PRODUCT, OTHER RETURNS ** - - - - -	3
TOTAL RETURNS - - - - -	\$ 198
PROFIT: - - - - -	\$ 17
	AVERAGE
OTHER FACTORS: CCST PER BU TC: GROW	\$ 2.40
HARVEST	0.55
STCRE AND SELL	0.29
TOTAL (CR NET*) CCST PER BU	3.23
TOTAL (CR NET*) RETURN ** PER BU	3.54
PROFIT PER BU	0.31
LABCR RETURN PER ACRE	\$ 33
PRODUCTION PER HOUR OF LABCR	29 BU
RETURN PER HOUR OF LABOR	\$ 15.26
RETURN PER DOLLAR OF COST	1.10

* VALUE OF BY-PRODUCTS, IF ANY, DEDUCTED

** RECEIPTS FROM GOVERNMENT PROGRAMS NOT INCLUDED

FACTORS FROM 11 ENTERPRISES OF WHEAT
 11 COST ACCOUNT FARMS, 1981
 (ARRANGED BY ACRES OF CROP)

FARM NO.	ACRES ENIR	PROD			AVERAGE			
		PER ENIR	AVERAGE PER ACRE	PER HR OF LABOR*	GROW	HARV	TOTAL	TOTAL
			YIELD	LABOR	COST	COST	COST**	RETURN
		AC	BU	HR	BU	\$	\$	\$
827	712.0	59	2	31	127	32	181	217
864	383.1	51	2	35	144	37	197	178
848	168.0	60	3	28	135	29	179	216
834	88.0	48	1	45	104	17	128	157
824	69.0	61	3	23	145	26	172	188
835	63.0	53	3	17	158	19	181	173
836	44.3	69	3	26	132	25	171	243
146	24.0	54	3	20	164	28	198	163
828	22.5	54	3	14	164	29	193	144
832	21.5	35	3	13	105	16	123	101
830	6.8	29	4	7	191	22	216	88

ANNUAL AVERAGES - ALL ENIR, WEIGHTED BY ACRES:

1981	145.7	56	2	29	134	30	181	198
1980	150.2	50	2	26	120	27	167	202
1979	130.9	47	2	23	110	21	150	189
1978	41.5	30	4	8	116	21	147	111
1977	162.0	44	3	19	98	16	131	109

* TO GROW AND HARVEST THE CROP
 ** INCLUDES STORING AND SELLING COSTS
 *** VALUE OF BY-PRODUCTS, IF ANY, DEDUCTED
 (RECEIPTS FROM GOVERNMENT PROGRAMS NOT INCLUDED)

FACTORS FROM 11 ENTERPRISES OF WHEAT
 11 COST ACCOUNT FARMS, 1981
 (READ ACROSS BOTH PAGES)

PROFIT	RETURN	AVERAGE		AVERAGE		RETURN PER		ON	FARM
		PER	ACRE	PER	BU***	HOUR	\$		
		LABOR	NET	NET	OF	OF	ENTER-		
								PRISE	
								\$	
36	54	3.08	3.69	23.90	1.20		25,594	827	
19-	8-	3.90	3.52	5.64-	0.90		7,335-	864	
37	57	3.00	3.62	26.72	1.21		6,224	848	
29	37	2.66	3.28	34.70	1.23		2,617	834	
16	30	2.82	3.10	11.48	1.10		1,136	824	
8-	6	3.44	3.28	1.94	0.95		519-	835	
72	102	2.46	3.50	31.36	1.42		3,194	836	
35-	24-	3.66	3.00	9.29-	0.82		855-	146	
49-	30-	3.57	2.66	8.13-	0.74		1,108-	828	
22-	6-	3.49	2.86	2.42-	0.82		481-	832	
128-	105-	7.35	3.00	26.69-	0.41		869-	830	

ANNUAL AVERAGES - ALL ENTERPRISES WEIGHTED BY ACRES:

17	33	3.23	3.54	15.26	1.10		2,509	1981
35	50	3.32	4.01	22.46	1.21		5,236	1980
39	54	3.19	4.04	22.68	1.26		5,171	1979
36-	16-	4.89	3.67	4.11-	0.75		1,520-	1978
22-	6-	2.99	2.50	2.13-	0.84		3,462-	1977

FACTORS FROM 2 ENTERPRISES OF BARLEY, SPRING
 2 COST ACCOUNT FARMS, 1981
 (ARRANGED BY ACRES OF CRCP)

FARM NO.	ACRES PER ENTR	AVERAGE YIELD ACRE	PROD		AVERAGE			TOTAL COST**	TOTAL RETURN
			PER HR	PER BU	PER HR OF LABOR	GROW COST	HARV COST		
AC	BU	FR	BU	\$	\$	\$	\$	\$	\$
840	16.0	88	4	27	247	29	298	175	
836	5.0	110	2	61	152	19	188	247	

FACTORS FROM 4 ENTERPRISES OF OATS
 4 COST ACCOUNT FARMS, 1981
 (ARRANGED BY ACRES OF CRCP)

FARM NO.	ACRES PER ENTR	AVERAGE YIELD ACRE	PROD		AVERAGE			TOTAL COST**	TOTAL RETURN
			PER HR	PER BU	PER HR OF LABOR	GROW COST	HARV COST		
AC	BU	FR	BU	\$	\$	\$	\$	\$	\$
824	59.0	93	2	58	133	29	172	145	
112	28.5	70	1	43	105	22	140	157	
836	14.8	108	3	46	162	32	206	205	
867	14.0	50	2	29	75	4	82	90	

SUNFLOWERS
 FACTORS FROM 1 ENTERPRISES OF OTHER GRAINS
 1 COST ACCOUNT FARMS, 1981
 (ARRANGED BY ACRES OF CRCP)

FARM NO.	ACRES PER ENTR	AVERAGE YIELD ACRE	PROD		AVERAGE			TOTAL COST**	TOTAL RETURN
			PER HR	PER LB	PER HR OF LABOR	GROW COST	HARV COST		
AC	LB	FR	LB	\$	\$	\$	\$	\$	\$
864	221.3	1,291	2	638	197	32	250	183	

* TC GROW AND HARVEST THE CRCP
 ** INCLUDES STORING AND SELLING CCSTS
 *** VALUE OF BY-PRODUCTS, IF ANY, DEDUCTED
 (RECEIPTS FROM GOVERNMENT PROGRAMS NOT INCLUDED)

FACTORS FROM 2 ENTERPRISES OF BARLEY, SPRING
 2 COST ACCOUNT FARMS, 1981
 (READ ACROSS BOTH PAGES)

AVERAGE PER ACRE		AVERAGE PER BU***		RETURN PER HOUR \$		PROFIT ON ENTER- PRISE \$		FARM NO.
PROFIT	RETURN	COST	NET	NET	OF OF	LABOR	COST	
\$	\$	\$	\$	\$	\$	\$	\$	\$
123-	101-	3.40	2.00	31.28-	0.59		1,964-	840
59	76	1.72	2.25	42.22	1.31		293	836

FACTORS FROM 4 ENTERPRISES OF OATS
 4 CCST ACCOUNT FARMS, 1981
 (READ ACROSS BOTH PAGES)

AVERAGE PER ACRE		AVERAGE PER BU***		RETURN PER HOUR \$		PROFIT ON ENTER- PRISE \$		FARM NO.
PROFIT	RETURN	COST	NET	NET	OF OF	LABOR	COST	
\$	\$	\$	\$	\$	\$	\$	\$	\$
27-	18-	1.85	1.55	11.57-	0.84		1,608-	824
17	25	1.99	2.24	15.30	1.13		502	112
1-	22	1.91	1.90	9.20	1.00		11-	836
8	16	1.65	1.81	9.13	1.10		111	867

SUNFLOWERS

FACTORS FROM 1 ENTERPRISES OF OTHER GRAINS
 1 COST ACCOUNT FARMS, 1981
 (READ ACROSS BOTH PAGES)

AVERAGE PER ACRE		AVERAGE PER LB***		RETURN PER HOUR \$		PROFIT ON ENTER- PRISE \$		FARM NO.
PROFIT	RETURN	COST	NET	NET	OF OF	LABOR	COST	
\$	\$	\$	\$	\$	\$	\$	\$	\$
67-	53-	0.19	0.14	26.42-	0.73		14,806-	864