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FIELD CROPS

COSTS AND RETURNS

from

# FARM COST ACCOUNTS

42 FARMS - 1965

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REPORTS  
from  
FARM COST ACCOUNTS  
42 farms, 1965

Overhead Costs	A.E. Res. 210
Field Crop Costs and Returns	A.E. Res. 211
Cash Crops and Fruits Costs and Returns	A.E. Res. 212
Livestock Costs and Returns	A.E. Res. 213

FIELD CROPS COSTS AND RETURNS, A.E. Res. 211

- Contents -

	Page
Introduction	1
Summary of cost account enterprises	4
Rates of return compared with other years	5
Pasture	6
Hay	8
Hay crop silage	10
Corn silage	12
Corn grain	14
Oats	16
Wheat	18
Rye	20
Winter barley	20

INTRODUCTION

For the Cost Account year 1965 there were 42 New York State farmers who completed detailed records on their businesses in cooperation with the Department of Agricultural Economics, Cornell University. The farms are located in most of the farming areas of the state. They are generally well-run, full-time, commercial farm businesses. They are representative of the "better" farmers of New York

This report presents the results for individual enterprises and the averages of the costs and returns for all farms. It thus shows not only the averages of costs 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 averages of the costs are not averages of average costs but are weighted by the size of enterprise.

The project was under the supervision of C. D. Kearl. The field work on these accounts was done by Darwin Snyder and C. D. Kearl. The closing of the books and the preparation of this report on results of the operation of the farms was done by the Cost Account staff consisting of Marjorie Evans, Oneta Shipe, Edith Slights, Edna Wheeler, Helen Kruth, Abbie Leonard, Mildred Kubota and Margaret Auble.

ECONOMIC CONDITIONS

New York farm prices and prices paid by farmers for articles they buy, as indicated by U.S. indexes, were fairly stable during 1965 but were both about two percent above the 1964 level. The index of the former was 99 and the latter 110 on a 1957-59 bases. This indicates that, if farmers were to have a level of net income in 1965 that was comparable with that of the base period, they had to adjust their business operations to offset the adverse cost-price relationship.

In the early months of 1966 farm prices advanced rapidly. Prices of articles farmers buy advanced too, but at a slower rate. This would indicate that 1966 might well be a favorable year for farmers.

Hourly wages of workers in manufacturing industries continued to climb at a rate of about three percent per year. This, of course, is in contrast to the situation for farmers' net incomes and points up the pressures that farmers have been under as they have struggled to maintain a relative standard of living.

Economic Indexes  
(1957-59 = 100)

Year	United States		
	New York farm prices	Prices of articles farmers buy	Hourly earnings in manufacturing industries
1958	101	100	100
1959	100	102	104
1960	98	103	107
1961	95	104	110
1962	95	106	113
1963	95	106	115
1964	97	107	118
1965	99	110	121
Jan.	101	108	120
Feb.	101	109	120
March	98	109	120
April	100	109	120
May	99	110	121
June	98	110	121
July	95	110	121
Aug.	95	110	121
Sept.	96	110	122
Oct.	100	110	122
Nov.	100	110	122
Dec.	101	111	123
1966			
Jan.	103	112	123
Feb.	108	112	123
March	108	113	124
April	110	114	124

WEATHER CONDITIONS AT EIGHT NEW YORK STATIONS, 1965\*

Station	Length growing season** days	May 1 - Sept. 30		Annual total precipitation inches
		Average temperature degrees	Precipitation inches	
		Aurora	155	
Batavia	152	64.5	11.6	29.4
Brockport	106	64.2	9.5	25.6
Canton	115	61.6	12.7	28.6
Fredonia	151	65.2	14.1	38.3
Norwich	87	61.0	15.9	34.5
Poughkeepsie	163	69.5	14.0	32.0
Salem	90	64.5	14.9	31.8

\*Weather Bureau, U.S. Department of Commerce, Annual Summary, 1965  
 \*\*Number of days between last and first frost

Generally, the growing season in New York State was shorter than usual. However, in the central plains region it approached normal. After three dry years some areas still had dry weather. This was particularly true during May, June and July and seriously affected the yields of crops planted in the spring and dependent on good moisture during the spring months. In the latter part of the summer the rains came and helped but, although they replaced lost ground water, they were too late to enable farmers to get good crop yields. Overall, the precipitation was below normal but was considerably better than in 1964. The temperature during the growing season was below normal which probably made the dry weather more bearable and enabled the crops to use more effectively what water there was.

YIELDS FOR CROPS AND LIVESTOCK

Item	Unit	New York State*			Cost
		1936-40	1946-55	1965	Account 1965
Hay	tons	1.3	1.7	1.7	2.1
Corn silage	tons	9	10	12	12
Corn grain	bu.	34	44	57	45
Wheat	bu.	24	31	36	45
Oats	bu.	30	38	47	60
Cows	lbs.	5,628	6,588	9,300	13,008
Hens	eggs	154	188	218	208

\*AMS Reports and unpublished tabulations

For some New York farmers this was the fourth dry year in a row and generally, across the state, crop yields were only fair. However, the moisture conditions as noted above were "spotty" and some farmers had good crops. The spring planted crops suffered in many cases while the winter crops such as wheat were not seriously affected by the lack of rainfall.

SUMMARY, 1965  
Crop Enterprises

Crop	Number of accounts	Average acres per enterprise	Average yield per acre	Hours of labor per acre	Return per hour of labor	Return per dollar of cost	Profit per acre	Profit on enterprise
<u>Fruit:</u>								
Apples	15	67.0	429 bu.	105	\$2.26	\$1.11	\$ 48	\$3,230
Sweet cherries	6	10.4	4,274 lbs.	136	2.47	1.36	127	1,320
Sour cherries	8	30.3	8,057 lbs.	147	1.68	1.05	20	616
Peaches	5	14.8	93 bu.	123	1.05	0.85	-70	-1,029
Grapes	5	25.9	3.9 tons	126	2.16	1.08	36	928
<u>Grain:</u>								
Wheat	15	78.0	45 bu.	4	5.89	1.24	16	1,280
Corn for grain	8	110.9	45 bu.	5	-3.79	0.66	-30	-3,328
Oats	6	29.4	60 bu.	5	-1.67	0.79	-16	-462
Rye	5	9.8	39 bu.	7	1.61	0.99	-1	-6
<u>Hay and Silage:</u>								
Hay	24	94.1	2.1 tons	5	2.78	1.08	5	436
Hay crop silage	8	44.7	5.8 tons	5	4.31	1.16	13	565
Corn silage	27	76.3	12 tons	7	1.31	0.97	-3	-264

Livestock Enterprises

Enterprise	Number of accounts	Average number of head per farm	Production per head	Hours of labor per head	Return per hour of labor	Return per dollar of cost	Profit on enterprise
Dairy cows	25	84	13,088 lbs.	63	\$1.85	\$1.01	\$ 316
Hens	5	15,453	208 eggs	0.4	2.56	1.04	3,808

SUMMARY, 1965

	Return per hour of labor					Return per dollar of cost			
	1949 to 1953	1962	1963	1964	1965	1962	1963	1964	1965
Farm enterprise	\$	\$	\$	\$	\$	\$	\$	\$	\$
<u>Livestock:</u>									
Dairy cows	1.41	1.45	1.68	1.60	1.85	0.97	1.00	0.99	1.01
Hens	1.38	1.89	2.44	0.71	2.56	1.03	1.06	0.92	1.04
Raising chicks	0.83	14.09	3.44	5.00	--	1.35	1.06	1.11	--
<u>Fruit:</u>									
Apples	2.01	2.55	2.72	2.33	2.26	1.23	1.27	1.15	1.11
Sweet cherries	--	--	3.26	2.16	2.47	--	1.85	1.31	1.36
Sour cherries	--	1.22	2.37	1.16	1.68	0.96	1.48	0.90	1.05
Peaches	1.11	1.08	1.22	1.24	1.05	0.84	0.86	0.91	0.85
Grapes	--	--	3.70	2.14	2.16	--	1.65	1.21	1.08
<u>Grain:</u>									
Corn	2.25	1.87	1.39	1.47	-3.79	1.00	0.95	0.96	0.66
Oats	0.37	0.38	-0.38	-0.82	-1.67	0.88	0.83	0.79	0.79
Wheat	3.47	5.89	4.39	4.51	5.89	1.36	1.23	1.21	1.24
Rye	--	--	--	4.79	1.61	--	--	1.25	0.99
<u>Hay and Silage:</u>									
All hay	1.37	2.40	3.56	3.18	2.78	1.06	1.19	1.13	1.08
Hay crop silage	--	--	--	1.00	4.31	--	--	0.93	1.16
Corn silage	--	0.76	1.79	1.44	1.31	0.93	1.01	0.97	0.97

Factors from 24 PASTURE Accounts, 1965  
(Arranged by acres of regular pasture)

Farm number	Total acres pasture acres	Amount per acre for regular pasture*		
		Hours labor	Pounds fertilizer	Total cost
		hours	pounds	\$
398	278.7	**	---	6
375	180.0	---	---	8
382	147.0	0.1	---	5
450	120.5	0.3	216	19
420	117.7	---	51	6
188	102.7	0.6	---	5
316	81.3	0.6	---	12
455	79.0	0.2	89	7
429	77.0	1.7	103	30
408	76.4	0.1	9	15
428	72.0	0.3	56	17
331	64.5	---	---	3
434	61.1	0.2	65	25
424	52.2	0.7	147	19
431	51.9	0.1	77	17
438	51.0	0.5	208	25
281	47.4	1.0	25	16
391	44.9	0.9	42	25
309	42.0	0.6	---	9
443	38.0	---	---	5
449	30.0	---	---	17
448	29.5	0.3	---	23
426	24.5	**	---	13
200	14.8	---	---	16

Averages for 1965, by thirds, according to acres of pasture, weighted by farms:

High	138.4	0.2	44	8
Medium	63.3	0.4	83	19
Low	33.9	0.4	8	16

Annual averages, all farms, weighted by acres of pasture:

1965	78.5	0.3	43	12
1964	78.9	0.3	63	14
1963	79.2	0.3	50	14
1962	85.6	0.3	22	10
1961	82.3	0.3	23	12

\*Includes permanent and rotated pasture

\*\*Less than 0.1 hour



PASTURE, 1965  
1,884 acres of regular pasture on 24 farms with Dairy Cow Accounts

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	Average cost	
	Per farm <u>dollars</u>	Per acre <u>dollars</u>
Cost of regular pasture*:		
Labor.....	41	0.52
Tractor.....	16	0.20
Other equipment (including auto and truck).....	22	0.29
Manure.....	139	1.78
Lime.....	60	0.77
Fertilizer.....	115	1.46
Seed and seeding.....	30	0.38
Interest.....	201	2.56
Taxes.....	73	0.93
Fences.....	223	2.83
Other.....	<u>26</u>	<u>0.33</u>
Total cost of regular pasture..	946	12.05
Credits for hay cut, etc.....	<u>11</u>	
Net cost of regular pasture.....	935	
Aftermath pasture.....	188	
Annual crops pasture.....	50	
Hired pasture.....	<u>128</u>	
Total pasture cost.....	1,301	

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\*Includes permanent and rotated pasture

Factors from 24 HAY Accounts, 1965  
(Arranged by acres of hay)

Farm number	Hay per farm acres	Yield per acre tons	Labor per acre hours	Average per acre		Net cost per ton	Labor return		Return per dollar of cost	Profit on enterprise
				Cost \$	Returns \$		Per acre	Per hour		
398	196.1	3.3	4	61	75	17	21	5.07	1.22	2,716
428	158.0	2.0	4	49	59	23	16	3.94	1.21	1,591
420	157.7	1.3	2	39	39	25	3	2.08	1.00	-19
375	133.5	1.9	3	49	68	25	26	8.12	1.39	2,547
221	132.0	2.3	7	70	55	31	1	0.21	0.79	-1,939
449	127.0	2.0	7	62	57	31	4	0.61	0.92	-637
426	121.5	1.4	7	79	78	27	11	1.50	0.99	-106
309	116.5	2.8	5	66	62	23	4	0.87	0.95	-416
331	108.6	1.7	7	46	57	23	21	3.03	1.23	1,171
450	101.2	2.1	3	68	84	32	23	7.48	1.24	1,636
438	98.0	1.9	2	29	49	14	25	9.97	1.68	1,955
429	97.0	2.0	3	72	88	32	22	6.69	1.23	1,575
188	94.3	2.3	4	49	73	19	30	7.77	1.49	2,294
316	80.1	1.9	4	38	29	19	-3	-0.97	0.75	-755
431	77.8	2.1	4	86	85	40	7	1.63	0.99	-51
324	76.5	1.7	3	46	58	23	17	5.42	1.26	900
281	73.3	1.8	6	56	67	29	21	3.31	1.18	771
382	71.1	2.4	6	72	65	30	5	0.94	0.90	-511
443	51.5	2.8	4	52	69	19	25	6.83	1.33	886
455	47.0	2.3	5	62	75	20	23	4.88	1.22	631
424	43.0	1.6	5	99	43	62	-49	-10.78	0.43	-2,404
391	40.0	1.2	8	90	34	72	-38	-4.67	0.38	-2,234
430	36.4	1.8	5	34	58	19	33	6.54	1.72	886
200	21.3	3.8	9	88	87	20	13	1.42	0.99	-11

Averages for 1965, by thirds, according to acres of hay, weighted by farms:

High	142.8	2.1	5	59	62	25	11	2.80	1.06	467
Medium	91.7	2.0	4	54	65	25	18	5.13	1.23	1,091
Low	48.0	2.2	6	69	62	34	4	1.06	1.02	-248

Annual averages, all farms, weighted by acres of hay:

1965	94.1	2.1	5	58	63	25	13	2.78	1.08	436
1964	103.7	2.1	5	57	64	24	17	3.18	1.13	770
1963	106.7	2.7	6	59	70	21	22	3.56	1.19	1,221
1962	95.0	2.0	5	54	58	26	12	2.40	1.06	334
1961	84.7	2.6	7	60	63	21	15	2.01	1.05	240

HAY, 1965  
2,259 acres on 24 farms

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Average per acre:	Dollars
Growing:	
Land -----	8.85
1.6 tons of manure at \$2.51 per ton -----	4.01
149 pounds of fertilizer at \$72.89 per ton -----	5.43
Share of seeding cost -----	3.77
Interest -----	0.79
All other -----	1.83
Total growing -----	24.68
Harvesting:	
4.4 hours of labor at \$1.76 per hour -----	7.74
2.6 hours of tractor work at \$1.35 per hour -----	3.52
Equipment (including auto and truck) -----	10.13
Hired baling -----	0.25
All other -----	2.21
Total harvesting -----	23.85
Storing and selling -----	10.04
Total cost per acre -----	58.57
Returns:	
2.1 tons of hay -----	57.82
Value of aftermath pasture, green chop, etc. -----	5.39
Total returns per acre -----	63.21
Net gain per acre -----	4.64
<hr/>	
Cost to grow a ton -----	11.80
Cost to harvest a ton -----	11.40
Cost to store and sell a ton -----	4.80
Total cost per ton -----	28.00
Net cost per ton (value of pasture, etc. deducted) -----	25.42
Value per ton -----	27.64
Net gain per ton -----	2.22
<hr/>	
Labor return per acre -----	12.64
Return per hour of labor -----	2.78
Return per dollar of cost -----	1.08

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Factors from 8 HAY CROP SILAGE Accounts, 1965  
(Arranged by acres of silage)

Farm number	Silage per farm acres	Yield per acre tons	Labor per acre hours	Average per acre		Net cost per ton \$	Labor return		Return per dollar of cost \$	Profit on enter- prise \$
				Cost \$	Returns \$		Per acre \$	Per hour \$		
386	81.2	4.0	7	94	121	17.35	41	5.75	1.28	2,162
424	63.0	6.5	4	93	67	13.91	-19	-4.65	0.73	-1,609
382	57.4	11.8	9	104	181	8.86	97	11.05	1.74	4,444
221	55.0	3.5	4	47	42	13.55	4	1.04	0.89	-297
391	40.0	5.2	2	73	52	14.04	-16	-6.36	0.71	-837
200	29.8	5.9	6	80	107	13.44	36	6.01	1.34	808
438	22.0	3.2	3	27	26	6.33	5	1.58	0.96	-23
428	9.0	3.3	3	77	63	18.23	-9	-2.80	0.82	-127

Annual averages, all farms, weighted by acres of hay crop silage:

1965	44.7	5.8	5	80	93	12.56	23	4.31	1.16	565
1964	54.8	4.1	4	53	50	12.89	4	1.00	0.93	-190

HAY CROP SILAGE, 1965  
357 acres on 8 farms

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Average per acre:	Dollars
Growing:	
Land .....	11.07
0.9 tons of manure at \$2.64 per ton .....	2.38
56 pounds of fertilizer at \$62.14 per ton .....	1.74
Seeding .....	3.92
Interest .....	0.72
All other .....	1.50
Total growing .....	21.33
Harvesting:	
5.4 hours of labor at \$2.00 per hour .....	10.78
4.4 hours of tractor labor at \$1.68 per hour .....	7.39
Other equipment (including auto and truck) .....	21.62
All other .....	3.53
Total harvesting .....	43.32
Storing costs .....	15.55
Total cost per acre .....	80.20
Returns:	
5.8 tons of hay crop silage .....	86.02
Value of aftermath pasture, green chop and hay .....	6.83
Total returns per acre .....	92.85
Net gain per acre .....	12.65
<hr/>	
Cost to grow a ton .....	3.65
Cost to harvest a ton .....	7.42
Cost to store a ton .....	2.66
Total cost per ton .....	13.73
Net cost per ton (pasture, greenchop and hay deducted) .....	12.56
Value per ton .....	14.73
Net gain per ton .....	2.17
<hr/>	
Labor return per acre .....	23.45
Return per hour of labor .....	4.31
Return per dollar of cost .....	1.16

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Factors from 27 CORN SILAGE Accounts, 1965  
(Arranged by acres of silage)

Farm number	Silage per farm acres	Yield per acre tons	Labor per acre hours	Average per acre		Net cost per ton \$	Labor return		Return per dollar of cost \$	Profit on enter- prise \$
				Cost	Returns		Per acre \$	Per hour \$		
				\$	\$		\$	\$		
386	181.0	13	8	106	115	8.10	25	3.17	1.09	1,630
391	165.6	9	4	101	83	10.93	-10	-2.52	0.82	-2,942
434	140.9	10	3	97	99	9.75	10	3.38	1.03	350
382	127.6	10	4	94	125	9.45	40	9.47	1.32	3,892
424	118.0	12	6	124	89	10.44	-26	-4.35	0.72	-4,125
426	99.0	7	7	100	56	14.20	-33	-4.77	0.56	-4,342
449	97.0	15	9	124	146	8.06	33	3.89	1.17	2,114
398	83.8	18	11	157	145	8.67	6	0.56	0.92	-1,020
420	83.2	17	5	106	138	6.14	44	8.31	1.30	2,683
324	81.8	10	8	78	92	7.98	27	3.38	1.18	1,133
443	78.0	16	4	94	159	5.94	72	20.43	1.68	5,033
428	76.0	12	11	102	110	8.37	23	2.15	1.08	589
429	74.0	12	7	144	104	12.42	-28	-4.01	0.72	-2,960
221	67.0	13	8	134	89	10.50	-26	-3.39	0.67	-2,987
331	65.2	11	15	103	109	9.43	28	1.89	1.06	405
408	63.5	10	2	93	65	9.57	-21	-9.21	0.70	-1,761
431	57.0	10	10	131	103	12.73	-11	-1.08	0.79	-1,597
438	57.0	14	8	84	120	5.36	50	6.53	1.43	2,043
281	56.4	10	8	89	99	8.99	23	2.90	1.11	564
450	52.7	9	9	131	104	15.14	-8	-0.83	0.79	-1,430
188	50.5	14	7	135	166	9.76	41	5.88	1.23	1,569
375	44.5	10	5	160	101	15.87	-49	-9.34	0.63	-2,642
309	42.1	9	6	130	77	15.22	-43	-7.06	0.59	-2,239
200	34.8	8	11	119	80	14.85	-23	-2.03	0.67	-1,354
448	23.0	17	7	154	138	18.83	-3	-0.39	0.90	-359
316	21.2	12	15	122	117	10.45	20	1.35	0.96	-111
455	19.0	15	16	131	170	8.46	71	4.52	1.30	743

Averages for 1965, by thirds, according to acres of silage, weighted by farms:

High	121.8	12	6	112	111	9.53	10	1.90	0.99	-196
Medium	68.8	12	8	107	106	9.14	13	1.85	1.03	-11
Low	38.2	12	9	130	117	11.95	3	-0.56	0.91	-584

Annual averages, all farms, weighted by acres of silage:

1965	76.3	12	7	112	109	9.47	9	1.31	0.97	-264
1964	61.7	11	8	102	99	9.03	12	1.44	0.97	-159
1963	42.2	13	9	109	110	8.21	16	1.79	1.01	28
1962	35.0	12	10	114	106	9.62	7	0.76	0.93	-296
1961	31.2	12	10	104	102	8.34	14	1.40	0.98	-70

CORN SILAGE, 1965  
2,060 acres on 27 farms

Average per acre:	Dollars
<b>Growing:</b>	
Land -----	10.36
6.3 tons of manure at \$2.33 per ton -----	14.69
486 pounds of fertilizer at \$82.55 per ton -----	20.06
8.2 quarts of seed at \$11.63 per bushel -----	2.98
2.6 hours of labor at \$1.81 per hour -----	4.71
2.2 hours of tractor work at \$1.68 per hour -----	3.69
Other equipment (including auto and truck) -----	4.61
Spray materials -----	4.85
Interest -----	0.59
All other -----	3.80
Total growing -----	70.34
<b>Harvesting:</b>	
4.3 hours of labor -----	7.88
3.5 hours of tractor work -----	5.50
Other equipment (including auto and truck) -----	12.27
Hired silo filling -----	0.72
All other -----	1.15
Total harvesting -----	27.52
Storing costs -----	13.98
Total cost per acre -----	111.84
<b>Returns:</b>	
11.8 tons of silage -----	108.07
All other (value of green chop) -----	0.31
Total returns per acre:	108.38
Net loss per acre -----	3.46
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Cost to grow a ton -----	5.97
Cost to harvest a ton -----	2.34
Cost to store a ton -----	1.19
Total cost per ton -----	9.50
Net cost per ton -----	9.47
Net return per ton -----	9.18
Loss per ton -----	0.29
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Labor return per acre -----	9.13
Return per hour of labor -----	1.31
Return per dollar of cost -----	0.97

Factors from 8 CORN FOR GRAIN Accounts, 1965  
(Arranged by acres of corn)

Farm number	Grain	Yield	Labor	Average		Net	Labor		Return	Profit
	per farm	per acre	per acre	Cost	Returns	cost per bushel	Per acre	Per hour	per dollar of cost	on enter- prise
	acres	bushels	hours	\$	\$	\$	\$	\$	\$	\$
425	335.0	46	4	92	57	2.01	-25	-5.91	0.62	-11,783
439	271.5	35	5	88	46	2.55	-31	-5.98	0.52	-11,499
382	87.0	57	7	77	75	1.34	12	1.85	0.97	-206
449	85.0	43	7	105	59	2.44	-36	-4.88	0.56	-3,905
408	38.5	73	2	105	94	1.45	-7	-4.23	0.90	-425
324	34.0	37	4	44	72	0.42	35	8.21	1.64	949
438	26.0	68	8	78	84	1.16	21	2.61	1.07	153
443	10.0	79	6	79	88	1.00	22	3.58	1.12	94

Annual averages, all farms, weighted by acres of corn:

1965	110.9	45	5	89	59	1.94	-19	-3.79	0.66	-3,328
1964	67.8	57	5	78	75	1.38	8	1.47	0.96	-221
1963	47.6	56	6	76	72	1.35	8	1.39	0.95	-180
1962	52.0	70	7	83	83	1.18	14	1.87	1.00	-5
1961	30.1	71	7	83	85	1.15	13	1.99	1.02	55



CORN FOR GRAIN, 1965  
887 acres on 8 farms

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Average per acre:	Dollars
Growing:	
Land -----	9.06
0.2 tons of manure at \$3.50 per ton -----	0.70
539 pounds of fertilizer at \$91.35 per ton -----	24.62
8.4 quarts of seed at \$11.12 per bushel -----	2.92
2.8 hours of labor at \$2.19 per hour -----	6.14
2.4 hours of tractor work at \$1.82 per hour -----	4.38
Other equipment (including auto and truck) -----	4.89
Spray materials -----	5.14
Interest -----	0.71
All other -----	4.39
Total growing -----	62.95
Harvesting:	
1.8 hours of labor -----	3.72
1.2 hours of tractor work -----	1.90
Other equipment (including auto and truck) -----	10.90
Hired harvesting -----	0.72
All other -----	0.51
Total harvesting -----	17.75
Storing and selling -----	8.32
Total cost per acre -----	89.02
Returns:	
45 bushels of shelled corn -----	57.93
Other -----	1.08
Total returns per acre -----	59.01
Net loss per acre -----	30.01
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Cost to grow a bushel -----	1.39
Cost to harvest a bushel -----	0.39
Cost to store and sell a bushel -----	0.19
Total cost per bushel -----	1.97
Net cost per bushel (value green chop, silage deducted) -----	1.94
Value per bushel -----	1.28
Loss per bushel -----	0.66
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Labor return per acre -----	-19.16
Return per hour of labor -----	-3.79
Return per dollar of cost -----	0.66

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Factors from 6 OAT Accounts, 1965  
(Arranged by acres of oats)

Farm number	Grain per farm acres	Yield per acre bushels	Labor per acre hours	Average per acre		Net cost per bushel \$	Labor return		Return per dollar of cost \$	Profit on enter- prise \$
				Cost \$	Returns \$		Per acre \$	Per hour \$		
398	68.5	58	5	98	66	1.42	-24	-4.96	0.67	-2,176
316	37.8	52	5	68	54	1.02	-6	-1.16	0.80	-521
438	37.0	63	5	51	54	0.71	12	2.44	1.05	104
200	13.1	76	3	76	55	0.99	-16	-5.02	0.73	-273
426	10.0	61	5	54	64	0.74	18	3.69	1.18	99
443	10.0	75	4	80	80	0.86	7	1.91	0.99	-5

Annual averages, all farms, weighted by acres of oats:

1965	29.4	60	5	77	61	1.07	-8	-1.67	0.79	-462
1964	28.2	50	5	59	47	1.00	-4	-0.82	0.79	-345
1963	20.0	59	6	71	59	1.00	-2	-0.38	0.83	-237
1962	28.6	57	6	67	59	0.94	2	0.38	0.88	-237
1961	27.2	54	5	64	51	1.02	-5	-0.96	0.79	-365

OATS, 1965  
176 acres on 6 farms

Average per acre:	Dollars
Growing:	
Land -----	9.30
4.9 tons of manure at \$2.70 per ton -----	13.25
279 pounds of fertilizer at \$75.20 per ton -----	10.49
2.2 bushels of seed at \$1.90 per bushel -----	4.18
2.3 hours of labor at \$1.70 per hour -----	3.90
2.1 hours of tractor work at \$1.42 per hour -----	2.98
Other equipment (including auto and truck) -----	3.64
Interest -----	0.52
All other -----	3.57
Total growing -----	51.83
Harvesting:	
2.4 hours of labor -----	4.08
1.2 hours of tractor work -----	1.89
Other equipment (including auto and truck) -----	8.09
Hired combining -----	2.30
All other -----	0.86
Total harvesting -----	17.22
Storing and selling -----	7.48
Total cost per acre -----	76.53
Returns:	
60 bushels of oats -----	49.07
0.6 ton of oats straw -----	11.75
Total returns per acre -----	60.82
Net loss per acre -----	15.71
Cost to grow a bushel -----	
Cost to harvest a bushel -----	0.86
Cost to store and sell a bushel -----	0.29
Total cost per bushel -----	0.12
Net cost per bushel (value straw deducted) -----	1.27
Value per bushel -----	1.07
Loss per bushel -----	0.81
Loss per bushel -----	0.26
Labor return per acre -----	
Labor return per acre -----	-7.73
Return per hour of labor -----	-1.67
Return per dollar of cost -----	0.79

Factors from 15 WHEAT Accounts, 1965  
(Arranged by acres of wheat)

Farm number	Grain per farm acres	Yield per acre bushels	Labor per acre hours	Average per acre		Net cost per bushel \$	Labor return		Return per dollar of cost \$	Profit on enterprise \$
				Cost	Returns		Per acre	Per hour		
				\$	\$		\$	\$		
221	476.0	50	4	60	98	1.15	46	12.51	1.62	17,875
386	137.0	42	3	69	75	1.48	12	3.68	1.08	788
315	90.1	41	3	47	73	1.09	33	10.19	1.56	2,384
170	84.0	51	5	76	100	1.50	34	6.69	1.32	2,058
449	73.0	25	8	65	45	2.21	-9	-1.10	0.69	-1,465
438	63.0	44	5	61	73	1.09	21	4.15	1.19	738
425	48.5	45	6	117	71	2.37	-33	-5.88	0.61	-2,235
391	42.2	40	5	62	85	1.19	33	7.04	1.37	975
267	32.6	27	4	54	37	1.98	-2	-0.55	0.68	-564
382	32.3	57	4	119	103	1.73	-6	-1.41	0.87	-518
200	27.7	28	5	67	62	2.03	2	0.42	0.92	-140
430	22.4	49	3	51	65	1.06	19	5.96	1.26	305
174	17.9	45	3	97	87	1.59	-4	-1.29	0.90	-171
309	17.6	34	7	95	68	2.29	-16	-2.33	0.72	-477
448	6.0	44	8	122	63	2.41	-46	-5.50	0.52	-354

Averages for 1965, by thirds, according to acres of wheat, weighted by farms:

High	172.0	42	5	63	78	1.49	23	6.39	1.25	4,328
Medium	43.7	43	5	83	74	1.67	3	0.67	0.94	-321
Low	18.3	40	5	86	69	1.88	-9	-0.55	0.86	-167

Annual averages, all farms, weighted by acres of wheat:

1965	78.0	45	4	67	83	1.37	25	5.89	1.24	1,280
1964	54.8	47	6	68	82	1.27	26	4.51	1.21	788
1963	38.5	42	7	73	90	1.40	29	4.39	1.23	656
1962	42.4	41	6	66	90	1.39	35	5.89	1.36	997
1961	50.1	39	6	69	76	1.56	18	2.94	1.10	339

WHEAT, 1965  
1,170 acres on 15 farms

Average per acre:	Dollars
Growing:	
Land -----	12.02
0.3 ton of manure at \$3.30 per ton -----	0.99
314 pounds of fertilizer at \$76.56 per ton -----	12.02
1.9 bushels of seed at \$2.37 per bushel -----	4.50
2.0 hours of labor at \$2.01 per hour -----	4.02
1.7 hours of tractor work at \$1.68 per hour -----	2.86
Other equipment (including auto and truck) -----	2.58
Interest -----	1.72
All other -----	3.01
Total growing -----	43.72
Harvesting:	
2.1 hours of labor -----	4.37
0.5 hour of tractor work -----	0.69
Hired combining -----	1.67
Other equipment (including auto and truck) -----	9.33
All other -----	1.32
Total harvesting -----	17.38
Storing and selling -----	6.03
Total cost per acre -----	67.13
Returns:	
45 bushels of wheat -----	77.70
0.4 ton of straw -----	5.84
Total returns per acre -----	83.54
Net gain per acre -----	16.41
Cost to grow a bushel -----	
Cost to harvest a bushel -----	0.98
Cost to store and sell a bushel -----	0.39
Total cost per bushel -----	0.13
Net cost per bushel (value straw deducted) -----	1.50
Value per bushel -----	1.37
Gain per bushel -----	1.74
Gain per bushel -----	0.37
Labor return per acre -----	
Labor return per hour -----	25.32
Return per dollar of cost -----	5.89
Return per dollar of cost -----	1.24

Factors from 5 Rye Accounts, 1965  
(Arranged by acres of rye)

Farm number	Grain per farm acres	Yield per acre bushels	Labor per acre hours	Average per acre		Net cost per bushel \$	Labor return		Return per dollar of cost \$	Profit on enterprise \$
				Cost \$	Returns \$		Per acre \$	Per hour \$		
221	20.0	50	5	50	50	1.00	11	2.35	1.00	-3
449	16.0	28	12	49	67	0.88	34	2.81	1.36	282
174	5.8	38	4	139	81	3.03	-51	-13.50	0.58	-335
170	4.2	29	2	39	36	1.37	1	0.33	0.91	-14
316	3.0	42	5	74	87	1.19	21	4.00	1.17	38

Annual averages, all farms, weighted by acres of rye:

1965	9.8	39	7	61	60	1.24	11	1.61	0.99	-6
1964	13.9	46	4	45	56	0.85	20	4.79	1.25	156

Factors from 2 WINTER BARLEY Accounts, 1965  
(Arranged by acres of barley)

Farm number	Grain per farm acres	Yield per acre bushels	Labor per acre hours	Average per acre		Net cost per bushel \$	Labor return		Return per dollar of cost \$	Profit on enterprise \$
				Cost \$	Returns \$		Per acre \$	Per hour \$		
315	65.6	56	4	47	54	0.83	14	4.04	1.15	464
382	34.6	65	2	79	91	1.01	17	8.15	1.16	426

Annual averages, all farms, weighted by acres of barley:

1965						- Not averaged -				
1964						- Not averaged -				
1963						- Not averaged -				
1962						- Not averaged -				
1961	20.2	68	5	63	76	0.75	21	4.70	1.21	264

RYE, 1965  
49 acres on 5 farms

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Average per acre:	Dollars
Growing:	
Land.....	12.51
59 pounds of fertilizer at \$70.51 per ton.....	2.08
2.1 bushels of seed at \$1.46 per bushel.....	3.06
2.6 hours of labor at \$1.79 per hour.....	4.65
2.3 hours of tractor work at \$1.87 per hour.....	4.29
Other equipment (including auto and truck).....	1.80
Interest.....	1.39
All other.....	6.73
Total growing.....	36.51
Harvesting:	
4.2 hours of labor.....	7.04
1.2 hours of tractor work.....	1.08
Hired combining.....	1.08
Other equipment (including auto and truck).....	13.14
All other.....	0.86
Total harvesting.....	23.20
Storing and selling.....	1.21
Total cost per acre.....	60.92
Returns:	
39 bushels of rye.....	47.92
.5 ton of straw.....	12.35
Total returns per acre.....	60.27
Net loss per acre.....	0.65
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Cost to grow a bushel.....	0.94
Cost to harvest a bushel.....	0.59
Cost to store and sell a bushel.....	0.03
Total cost per bushel.....	1.56
Net cost per bushel (value straw deducted).....	1.24
Value per bushel.....	1.22
Loss per bushel.....	0.02
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Labor return per acre.....	11.04
Labor return per hour.....	1.61
Return per dollar of cost.....	0.99

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