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FEED COSTS AND RETURNS FROM LIVESTOCK

Southeastern Minnesota 1938-43

and

Southwestern Minnesota 1940-43

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UNIVERSITY OF MINNESOTA
Department of Agriculture

and the

UNITED STATES DEPARTMENT OF AGRICULTURE
Bureau of Agricultural Economics
Cooperating

- - 0 - -

Mimeographed Report No. 150
Division of Agricultural Economics
University Farm
St. Paul 8, Minnesota
November 1944

FEED COSTS AND RETURNS FROM LIVESTOCK

Southeastern Minnesota 1928-43 and Southwestern Minnesota 1940-43

T. R. Nedland and G. A. Pond

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Introduction

The Division of Agricultural Economics and the Division of Agricultural Extension, of the University of Minnesota, the Bureau of Agricultural Economics of the United States Department of Agriculture, and the county extension services of a number of southern Minnesota counties are cooperating with farmers in two cooperative farm management services. The Southeastern Minnesota Farm Management Service started operation January 1, 1928 and the Southwestern Minnesota Farm Management Service January 1, 1940. These associations were organized for the purpose of studying the farm business through farm records. Each farmer who cooperates in this service pays an annual fee which covers a part of the cost. The balance of the cost is defrayed by the University of Minnesota which uses the records as a basis for research and extension work.

It is the purpose of this report to bring together all of the statements of livestock feed costs and returns which are presented in the annual reports prepared for the two associations. These data should be an excellent source of basic information for farm planning. They represent results in livestock production and unit feed costs under ordinary farm conditions as contrasted with the results of experimental feeding. They should prove useful to individual farmers as a basis for comparison with their own accomplishment or for the purpose of planning their livestock operations or checking their feed supplies against livestock needs. They should also be especially valuable for teaching and extension work and for all types of farm planning and farm program making both for the individual farm and for an area, State, or region. Although the farmers included in this study are, in general, above average in managerial ability and operate farms that are larger and more productive than the average of their communities, the levels of livestock production and quantities of feed per unit of product represent an accomplishment well within the grasp of most other farmers in the area.

Each enterprise statement shows the quantity and market value of feeds consumed per unit of livestock, the returns from livestock, and other information on rates of production. The report also shows the amount by which the total value of the livestock production exceeds the feed cost. Two measures of "return over feed cost" are shown, (1) the return over feed per unit of livestock, and (2) the return per \$100 of feed. In interpreting these figures and especially in making comparisons between different classes of livestock, it must be understood that this is not a "net return." In addition, there are other costs such as labor, power, shelter, taxes, insurance, interest, equipment and other items that must be met from the gross income. In case of meat animals, such as hogs or beef cattle, feed is the largest single item of cost, in fact, it may constitute up to 75 percent or more of the total cost. On the other hand, with dairy and poultry, labor, shelter, and equipment make up more than 50 percent of the total cost and there must be a much larger relative return over feed costs if the farmer is to cover these items and have any profit left over.

The average number of head of livestock is determined for each year by adding the number on hand at the beginning and end of each month and dividing this total by 24. The number of animal units is used in some of the statements and it represents a specific number of head of the various species of livestock--1 cow, 1 bull, 1 head of feeder cattle, 5 hogs, 10 pigs, 7 sheep, 14 lambs, or 100 hens..

The net increase in value of the animals is calculated by subtracting the value of the purchases and the value of the beginning inventory from the sum of the value of the closing inventory, sales and animals slaughtered for home use. To secure the total value produced or gross returns for livestock that produce a product such as milk, butterfat, eggs, or wool the value of the products sold, used in the home or fed to other classes of livestock is added to the net increase in the value of the animals.

The pounds of livestock produced is determined in a manner similar to the method of calculating the net increase in value except that pounds are substituted for values. The pounds of butterfat per cow, the number of eggs per hen, etc., includes in addition to sales the quantity used in the home or consumed by other livestock.

Most of the farm-raised feeds as well as the more common or standard commercial feeds are valued at average prices at the farm. Prices are reported by the fieldman in each area every month. The miscellaneous commercial feeds are valued at the price the farmer paid for them. The value of skim milk is based on a specific formula with an adjustment downward to take into account waste on the farm (value of 100 pounds of skim milk = value of 1/8 bushel of corn + value of 3.5 pounds of tankage less an estimated amount to take care of waste on the farm). Non-marketable feeds, such as corn silage, were valued on the basis of their feeding value relative to similar feeds for which a market price was available. Straw used for feed is not included in either the quantity or value of feeds. Quantities of feed, with the exception of pasture, are given in terms of pounds rather than bushels or tons. All corn has been reduced to a shelled corn basis, that is 56 pounds per bushel.

Table 1.- Relation of feeds consumed by dairy cows to level of butterfat production, Southeastern Minnesota, 1938-43*

Item	Unit	Range in butterfat production per cow					
		125-174:	175-224:	225-274:	275-324:	325-374:	375 and over
		pounds	pounds	pounds	pounds	pounds	
Farms	Number	53	201	327	217	53	17
Butterfat per cow	Pound	158	203	250	295	354	388
Feeds per cow							
Corn	Pound	513	655	788	994	991	839
Small grain	do.	808	863	1,059	1,295	1,539	2,013
Commercial feeds-under 25 percent protein	do.	30	38	88	146	163	194
Commercial feeds- over 25 percent protein	do.	63	60	84	125	213	248
Hay	do.	3,578	3,785	4,095	4,213	4,719	4,339
Fodder and stover	do.	774	411	330	219	218	271
Total concentrates	do.	1,414	1,616	2,019	2,560	2,906	3,384
Total hay and fodder ...	do.	4,352	4,196	4,425	4,432	4,937	4,610
Silage	do.	6,324	6,267	6,132	6,174	6,665	7,191
Total digestible nutrients	do.	3,031	4,363	4,785	5,214	5,764	6,161
T.D.N. per pound butterfat:	do.	27.0	21.5	19.1	17.7	16.3	15.9
Percentage T.D.N. that is protein	Percent	12.9	13.6	14.1	14.4	15.3	15.0
Cows	Number	16.1	17.4	18.6	19.2	17.5	16.4

* The data in this table show the kinds and amounts of feed used at different levels of production. In the following tables only annual average for the average level of production is given. The information in this table may be used in making approximate adjustments in feed consumption data in the other tables to the level of production to which it is to be applied.

Table 2. - Food costs and returns from milk cows (dairy and dual purpose), Southeastern Minnesota, 1928-43

Item	Unit	1928	1929	1930	1931	1932	1933	1934	1935	1936
Farms	Number:	124	172	180	147	143	108	120	150	152
Butterfat per cow*.....	Pound :	241	247	242	241	240	243	236	228	243
Feeds per cow	:									
Corn	Pound :	232	260	264	375	432	646	618	364	379
Small grain	do. :	1,144	1,496	1,544	1,443	1,119	1,124	639	478	993
Commercial feeds - under	:									
25 percent protein	do. :	244	138	98	250	320	173	173	194	135
Commercial feeds - over	:									
25 percent protein	do. :	95	95	84	105	83	46	52	63	88
Hay	do. :	3,075	2,960	3,044	2,722	2,834	2,987	2,782	2,687	3,574
Corn fodder and stover	do. :	603	961	800	693	651	643	910	819	423
Total concentrates	do. :	1,715	1,989	1,990	2,173	1,954	1,989	1,482	1,099	1,595
Total dry roughage	do. :	3,678	3,921	3,844	3,415	3,485	3,630	3,692	3,506	3,997
Silage	do. :	7,214	7,155	7,273	7,163	6,711	6,779	7,318	7,354	7,076
Total digestible nutrients**	do. :	4,230	4,555	4,559	4,404	4,258	4,412	4,137	3,772	4,441
T.D.N. per pound butterfat	do. :	17.6	18.4	18.8	18.3	17.7	18.2	17.5	16.5	18.3
Percentage T.D.N. that is protein	Percent:	12.5	12.2	12.3	12.6	12.7	12.7	12.3	12.7	13.9
Feed cost per cow	:									
Concentrates	Dollar :	27.65	26.35	21.06	18.16	13.87	11.41	14.34	12.76	16.85
Roughages	do. :	36.58	35.60	33.80	30.89	23.83	19.46	27.09	32.60	21.84
Pasture	do. :	6.22	6.21	6.52	4.93	3.76	3.60	3.78	5.07	5.01
Total feed costs	do. :	70.45	68.16	61.38	53.98	41.46	34.47	45.21	50.43	43.70
Value of produce per cow	:									
Butterfat sales	do. :	116.83	113.78	88.39	69.03	51.21	53.08	61.49	69.92	86.45
Dairy produce used in home	do. :	8.25	7.63	6.11	3.98	2.93	2.79	4.32	4.37	5.46
Milk to livestock	do. :	20.04	20.89	19.49	12.80	8.80	8.71	12.39	11.90	13.73
Net increase in value of cows ..	do. :	2.03	1.42	-7.44	-10.29	-3.70	-3.65	-3.17	6.23	.31
Total value produced	do. :	147.15	143.72	106.55	75.52	59.24	60.93	75.03	92.42	105.95
Return above feed cost per cow ...	do. :	76.70	75.56	45.17	21.54	17.78	26.46	29.82	41.99	62.25
Return for \$100 feed	do. :	209.	211.	174.	140.	143.	177.	165.	183.	242.
Price received per pound butterfat:	:									
As manufactured cream	Cent :	53.	50.	40.	29.	22.	22.	28.	33.	37.
Whole milk, retail, etc.	do. :	79.	78.	72.	51.	42.	42.	47.	44.	54.
Feed cost per pound butterfat	do. :	29.2	27.7	25.4	22.4	17.3	14.2	19.2	22.1	18.0
Percentage fall freshening	Percent:	63.0	59.0	58.0	60.0	58.0	59.0	59.3	57.5	53.0
Cows per herd***	Number:	13.8	14.7	15.5	17.7	18.2	18.7	19.1	17.6	18.0

Continued -

Table 2. - Feed costs and returns from milk cows (dairy and dual purpose), Southeastern Minnesota, 1928-43 - Contd.

Item	Unit	1937	1938	1939	1940	1941	1942	1943	Average 1928-43
Farms	Number:	166	122	154	144	192	197	171	153
Butterfat per cow	Pound :	232	240	245	250	254	246	239	242
Feeds per cow									
Corn	Pound :	268	597	753	697	755	907	942	531
Small grain	do. :	867	1,071	1,129	1,152	1,209	998	955	1,085
Commercial feeds-under 25 percent protein:	do. :	140	162	80	82	61	77	90	151
Commercial feeds-over 25 percent protein :	do. :	88	83	66	81	99	107	117	85
Hay	do. :	3,468	3,449	3,833	4,026	3,971	4,302	4,274	3,375
Corn fodder and stover	do. :	501	424	520	482	321	199	288	577
Total concentrates	do. :	1,363	1,913	2,028	2,012	2,124	2,089	2,103	1,852
Total dry roughages	do. :	3,969	3,873	4,353	4,508	4,292	4,501	4,562	3,952
Silage	do. :	6,988	6,870	6,263	6,100	5,750	5,707	6,252	675
Total digestible nutrients	do. :	4,147	4,500	4,789	4,769	4,708	4,798	4,966	4,465
T.D.N. per pound butterfat	do. :	17.9	18.9	19.5	19.1	18.5	19.5	20.8	18.5
Percentage T.D.N. that is protein	Percent:	13.6	13.6	13.6	13.9	14.4	14.4	14.1	13.3
Feed cost per cow									
Concentrates	Dollar:	17.84	15.74	14.29	16.56	20.51	27.74	37.66	19.55
Roughages	do. :	28.48	19.47	19.21	20.41	22.04	24.28	32.51	26.76
Pasture	do. :	4.97	5.34	5.17	5.38	5.35	5.35	5.80	5.15
Total feed costs	do. :	51.29	40.55	38.67	42.35	47.90	57.37	75.97	51.46
Value of produce per cow									
Butterfat sales	do. :	85.80	75.44	65.54	80.29	95.47	110.91	134.41	84.88
Dairy produce used in home	do. :	5.59	4.26	4.46	4.40	4.94	5.57	6.44	5.09
Milk to livestock	do. :	11.41	10.21	11.67	10.98	13.75	14.92	16.71	13.65
Net increase in value of cows	do. :	1.05	-1.47	2.05	1.43	2.93	7.44	7.74	.18
Total value produced	do. :	103.85	88.44	83.72	97.10	117.09	138.84	165.30	103.80
Return above feed cost per cow	do. :	52.56	47.89	45.05	54.75	69.19	81.47	89.33	52.34
Return for \$100 feed	do. :	202.	218.	216.	229.	244.	242.	218.	201.
Price received per pound butterfat									
As manufactured cream	Cent :	39.	31.	27.7	32.6	38.6	44.5	55.2	36.4
Whole milk, retail, etc.	do. :	50.	47.	43.9	44.0	52.8	58.9	74.3	55.0
Feed cost per pound butterfat	do. :	22.1	17.0	15.8	16.9	18.9	23.3	31.8	21.3
Percentage fall freshening	Percent:	50.5	54.3	53.2	54.9	56.0	56.9	54.5	56.7
Cows per herd	Number:	17.6	18.6	16.9	17.6	17.9	18.4	18.1	17.4

* Butterfat production is computed on the basis of butterfat sold or otherwise utilized. (See page 2.) To compare with production as shown by the usual cow testing association methods this figure should be increased 10 to 15 percent.

** Not including nutrients received from pasture. *** All dairy cows which have at some time in the past freshened are included in the milking herd, and affect the average number of cows used in computing this table. There is some variation in the number of months of dry period per cow; however, this variation is small for the majority of farms.

Table 3.- Feed costs and returns from dairy cows,
Southeastern Minnesota, 1940-43

Item	Unit	1940	1941	1942	1943	Average 1940-43
Farms	Number:	126	168	174	152	155
Butterfat per cow	Pound :	260	261	253	247	255
Feeds per cow	:	:	:	:	:	:
Corn	Pound :	735	768	904	954	840
Small grain	do. :	1,164	1,247	1,027	993	1,108
Commercial feeds - under	:	:	:	:	:	:
25 percent protein	do. :	88	67	84	97	84
Commercial feeds - over	:	:	:	:	:	:
25 percent protein	do. :	88	105	111	119	106
Legume hay	do. :	3,588	3,742	4,068	3,942	3,835
Other hay	do. :	496	301	287	386	368
Fodder and stover	do. :	432	318	195	292	309
Total concentrates	do. :	2,075	2,187	2,126	2,163	2,138
Total dry roughage	do. :	4,516	4,361	4,550	4,620	4,512
Silage	do. :	6,334	5,974	5,805	6,438	6,138
Total digestible nutrients*	do. :	4,869	4,824	4,909	5,073	4,919
T.D.N. per pound butterfat	do. :	18.7	18.5	19.4	20.5	19.3
Percentage T.D.N. that is protein:Percent:	:	14.0	14.4	14.4	14.1	14.2
Feed cost per cow	:	:	:	:	:	:
Concentrates	Dollar:	17.08	21.19	28.28	38.75	26.33
Roughages	do. :	20.81	22.58	24.72	33.14	25.31
Pasture	do. :	5.33	5.33	5.29	5.72	5.42
Total feed costs	do. :	43.22	49.10	58.29	77.61	57.06
Value of produce per cow	:	:	:	:	:	:
Butterfat sales	do. :	84.51	99.28	115.99	140.60	110.10
Dairy produce used in home	do. :	4.45	4.83	5.34	6.35	5.24
Milk to livestock	do. :	11.12	13.61	14.77	16.31	13.95
Net increase in value of cows	do. :	1.19	3.03	7.05	7.62	4.72
Total value produced	do. :	101.27	120.75	143.15	170.88	134.01
Return above feed cost per cow	do. :	58.05	71.65	84.86	93.27	76.95
Return for \$100 feed	do. :	234.	246.	246.	220.	236.
Price received per pound butterfat sold	:	:	:	:	:	:
To creameries for butter	Cent :	32.6	38.6	44.5	55.2	42.7
Whole milk, retail, etc.	do. :	44.3	52.7	59.0	74.3	57.6
Feed cost per pound butterfat	do. :	16.6	18.8	23.0	31.4	22.4
Percentage fall freshening	Percent:	56.0	57.2	58.2	55.2	56.6
Cows	Number:	18.0	18.2	18.8	18.4	18.4

* Not including nutrients received from pasture.

Table 4.- Feed costs and returns from dairy cows,
Southwestern Minnesota, 1940-43

Item	Unit	1940	1941	1942	1943	Average 1940-43
Farms	Number:	78	70	61	55	66
Butterfat per cow	Pound :	250	254	250	251	251
Feeds per cow	:	:	:	:	:	:
Corn	Pound :	924	998	1,621	1,704	1,312
Small grain	do. :	1,496	1,380	927	1,104	1,227
Commercial feeds - under	:	:	:	:	:	:
25 percent protein	do. :	41	63	43	49	49
Commercial feeds - over	:	:	:	:	:	:
25 percent protein	do. :	93	102	107	119	105
Legume hay	do. :	3,570	3,274	4,175	4,117	3,784
Other hay	do. :	450	364	219	149	295
Fodder and stover	do. :	399	365	399	129	323
Total concentrates	do. :	2,554	2,543	2,698	2,976	2,693
Total dry roughage	do. :	4,419	4,003	4,793	4,395	4,402
Silage	do. :	5,310	5,502	4,458	4,645	4,979
Total digestible nutrients*	do. :	5,025	5,039	5,274	5,365	5,176
T.D.N. per pound butterfat	do. :	20.1	19.8	21.1	21.4	20.6
Percentage T.D.N. that is protein:	Percent:	14.1	14.0	14.9	14.4	14.3
Feed cost per cow	:	:	:	:	:	:
Concentrates	Dollar :	21.34	24.87	33.91	50.74	32.71
Roughages	do. :	19.63	21.98	23.53	31.48	24.16
Pasture	do. :	5.53	6.26	5.55	5.81	5.79
Total feed costs	do. :	46.50	53.11	62.99	88.03	62.66
Value of produce per cow	:	:	:	:	:	:
Butterfat sales	do. :	71.54	85.82	101.14	126.35	96.21
Dairy produce used in home	do. :	7.28	6.98	8.60	9.93	8.20
Milk to livestock	do. :	11.23	12.97	15.85	17.84	14.47
Net increase in value of cows ..	do. :	-.52	4.23	7.53	3.77	3.75
Total value produced	do. :	89.53	110.00	133.12	157.89	122.64
Return above feed cost per cow ..	do. :	43.03	56.89	70.13	69.86	59.98
Return for \$100 feed	do. :	193.	207.	211.	179.	197.
Price received per pound butterfat sold	:	:	:	:	:	:
To creameries for butter	Cent :	31.2	36.8	42.9	53.5	41.1
Whole milk, retail, etc.	do. :	47.8	49.4	63.6	72.8	58.4
Feed cost per pound butterfat	do. :	18.6	20.9	25.2	35.1	25.0
Percentage fall freshening	Percent:	52.0	48.0	49.2	38.7	47.0
Cows	Number :	11.5	13.8	13.4	13.7	13.1

* Not including nutrients received from pasture.

Table 5.- Feed costs and returns from dual purpose cows,
Southeastern Minnesota, 1940-43

Item	Unit	1940	1941	1942	1943	Average 1940-43
Farms	Number	18	24	23	19	21
Butterfat per cow	Pound	181	203	189	182	188
Feeds per cow						
Corn	Pound	426	667	929	846	717
Small grain	do.	1,067	936	780	653	859
Commercial feeds - under 25 percent protein	do.	42	24	18	24	27
Commercial feeds - over 25 percent protein	do.	37	58	86	104	71
Legume hay	do.	3,182	3,148	3,207	3,271	3,202
Other hay	do.	439	318	700	569	507
Fodder and stover	do.	835	344	224	262	416
Total concentrates	do.	1,572	1,685	1,813	1,627	1,674
Total dry roughages	do.	4,456	3,810	4,131	4,102	4,125
Silage	do.	4,462	4,179	4,960	4,759	4,590
Total digestible nutrients*	do.	4,072	3,899	3,956	4,106	4,008
T.D.N. per pound butterfat	do.	22.5	19.2	20.9	22.6	21.3
Percentage T.D.N. that is protein:Percent		13.7	14.2	13.7	13.9	13.9
Feed cost per cow						
Concentrates	Dollar	12.89	15.72	23.65	28.95	20.30
Roughages	do.	17.68	18.29	20.97	27.46	21.10
Pasture	do.	5.72	5.49	5.77	6.49	5.87
Total feed costs	do.	36.29	39.50	50.39	62.90	47.27
Value of produce per cow						
Butterfat sales	do.	50.74	68.82	72.35	84.91	69.20
Dairy produce used in home	do.	4.09	5.65	7.39	7.13	6.07
Milk to livestock	do.	10.06	14.75	16.13	19.94	15.22
Net increase in value of cows ..	do.	3.09	2.29	10.40	8.73	6.13
Total value produced	do.	67.98	91.51	106.27	120.71	96.62
Return above feed cost per cow ..	do.	31.69	52.01	55.88	57.81	49.35
Return for \$100 feed	do.	187.	232.	211.	192.	206.
Price received per pound butterfat sold						
To creameries	Cent	32.2	38.8	44.5	55.5	42.8
Whole milk, retail, etc.	do.	37.0	55.0	57.1	---	---
Feed cost per pound butterfat	do.	20.0	19.5	26.7	34.6	25.2
Percentage fall freshening	Percent	47.1	48.7	47.3	49.1	48.0
Cows	Number	14.6	15.6	15.9	16.2	15.6

* Not including nutrients received from pasture.

Table 6.- Feed costs and returns from dual purpose cows,
Southwestern Minnesota, 1940-43

Item	Unit	1940	1941	1942	1943	Average 1940-43
Farms	Number:	50	53	60	51	54
Butterfat per cow	Pound :	179	190	190	182	185
Feeds per cow	:	:	:	:	:	:
Corn	Pound :	565	841	1,109	1,639	1,038
Small grain	do. :	927	1,125	731	532	829
Commercial feeds - under 25 percent protein	do. :	2	8	12	5	7
Commercial feeds - over 25 percent protein	do. :	8	32	47	51	34
Legume hay	do. :	2,981	2,996	3,330	3,846	3,288
Other hay	do. :	843	494	452	137	482
Fodder and stover	do. :	409	483	245	270	352
Total concentrates	do. :	1,502	2,006	1,899	2,227	1,908
Total dry roughages	do. :	4,233	3,973	4,027	4,253	4,122
Silage	do. :	4,132	3,548	3,701	3,325	3,676
Total digestible nutrients*	do. :	3,926	4,106	4,155	4,568	4,189
T.D.N. per pound butterfat	do. :	21.9	21.6	21.9	25.1	22.6
Percentage T.D.N. that is protein:Percent:	:	13.8	14.0	14.2	14.2	14.0
Feed cost per cow	:	:	:	:	:	:
Concentrates	Dollar :	11.99	18.95	23.41	36.84	22.80
Roughages	do. :	17.03	19.03	19.09	27.15	20.57
Pasture	do. :	5.83	6.21	6.05	6.10	6.05
Total feed costs	do. :	34.85	44.19	48.55	70.09	49.42
Value of produce per cow	:	:	:	:	:	:
Butterfat sales	do. :	43.57	53.39	62.47	77.93	59.34
Dairy produce used in home	do. :	7.90	10.09	12.68	12.08	10.69
Milk to livestock	do. :	9.22	13.41	15.32	14.89	13.21
Net increase in value of cows ..	do. :	.65	6.43	12.36	6.40	6.46
Total value produced	do. :	61.34	83.32	102.83	111.30	89.70
Return above feed cost per cow ..	do. :	26.49	39.13	54.28	41.21	40.28
Return for \$100 feed	do. :	176.	189.	212.	159.	184.
Price received per pound butterfat sold	Cent :	30.0	36.2	42.0	52.3	40.1
Feed cost per pound butterfat	do. :	19.5	23.3	25.6	38.5	26.7
Percentage fall freshening	Percent:	46.0	46.0	37.9	41.7	42.9
Cows	Number :	9.9	9.8	9.5	8.4	9.4

* Not including nutrients received from pasture.

Table 7.- Feed costs and returns from other cattle (dairy and dual purpose), Southeastern Minnesota, 1928-43

Item	Unit	1928	1929	1930	1931	1932	1933	1934	1935	1936
Farms	Number	124	172	180	147	143	108	118	150	152
Other cattle	Head	14.2	15.5	16.7	20.3	20.6	19.8	18.5	17.6	19.8
Feeds per head										
Concentrates	Pound	320	395	428	497	414	614	410	290	455
Hay and fodder	do.	1,385	1,528	1,592	1,415	1,389	1,427	1,480	1,247	1,597
Silage	do.	2,606	2,589	2,588	2,377	2,383	2,306	2,576	2,527	2,320
Skim milk	do.	1,714	1,719	1,597	1,404	1,406	1,207	1,457	1,309	1,159
Whole milk	do.	375	394	369	377	432	473	432	468	404
Feed cost per head										
Concentrates	Dollar	4.98	4.88	4.31	3.89	2.57	3.14	3.66	3.11	4.83
Roughages	do.	13.01	12.92	12.59	11.02	8.40	6.68	9.57	10.43	7.83
Milk	do.	12.26	12.04	10.30	6.80	5.34	5.40	7.65	7.65	8.15
Pasture	do.	2.74	2.26	2.22	1.79	1.44	1.29	1.26	1.85	1.71
Total feed costs	do.	32.99	32.10	29.42	23.50	17.75	16.51	22.14	23.04	22.52
Net increase in value per head ...	do.	49.57	52.65	31.18	18.93	13.63	15.93	18.00	31.87	29.21
Return above feed cost per head ..	do.	16.58	20.55	1.76	-4.57	-4.12	- .58	-4.14	8.83	6.69
Return for \$100 feed	do.	150.	164.	106.	81.	77.	96.	81.	138.	130.
Percentage death loss	Percent	11.0	14.0	14.0	15.0	8.0	9.0	10.0	7.0	6.7
		1937	1938	1939	1940	1941	1942	1943	Average 1928-43	
Farms	Number	166	122	141	144	187	193	169	151	
Other cattle	Head	21.3	22.4	16.8	15.8	18.6	18.9	18.8	18.5	
Feeds per head										
Concentrates	Pound	339	474	393	478	495	489	575	442	
Hay and fodder	do.	1,461	1,368	1,602	1,638	1,719	1,781	1,784	1,526	
Silage	do.	2,467	2,477	1,981	2,213	2,052	2,068	2,225	2,360	
Skim milk	do.	928	1,061	1,376	1,076	1,239	1,001	929	1,286	
Whole milk	do.	359	355	484	380	363	414	376	403	
Feed cost per head										
Concentrates	Dollar	4.44	3.75	2.74	3.88	4.72	6.66	10.23	4.49	
Roughages	do.	9.60	6.54	6.36	7.14	8.21	8.99	12.15	9.46	
Milk	do.	6.85	5.82	7.75	6.81	8.10	9.61	10.82	8.21	
Pasture	do.	1.81	1.74	1.90	1.85	1.87	1.92	1.98	1.85	
Total feed costs	do.	22.70	17.85	18.75	19.68	22.90	27.18	35.18	24.01	
Net increase in value per head ...	do.	32.73	31.33	30.27	31.27	35.17	42.80	38.05	31.41	
Return above feed cost per head ..	do.	10.03	13.48	11.52	11.59	12.27	15.62	2.87	7.40	
Return for \$100 feed	do.	144.	176.	161.	159.	154.	157.	108.	130.	
Percentage death loss	Percent	6.9	8.5	*	*	*	*	*	**10.1	

* Information not available.

** Average 1928-38.

Table 8.- Feed costs and returns from other dairy cattle,
Southeastern Minnesota, 1940-43

Item	Unit	1940	1941	1942	1943	Average 1940-43
Farms	Number	126	163	171	151	153
Feeds per head						
Concentrates	Pound	459	474	477	571	495
Hay and fodder	do.	1,657	1,776	1,781	1,811	1,756
Silage	do.	2,313	2,132	2,127	2,301	2,218
Skim milk	do.	1,104	1,229	985	925	1,061
Whole milk	do.	408	381	430	386	401
Feed cost per head						
Concentrates	Dollar	3.76	4.53	6.56	10.19	6.26
Roughages	do.	7.31	8.51	9.10	12.42	9.34
Milk	do.	7.22	8.31	9.80	10.98	9.08
Pasture	do.	1.87	1.87	1.92	1.99	1.91
Total feed costs	do.	20.16	23.22	27.38	35.58	26.59
Net increase in value of other						
dairy cattle	do.	31.34	35.54	42.92	38.09	36.97
Return above feed cost per head	do.	11.18	12.32	15.54	2.51	10.38
Return for \$100 of feed	do.	155.	153.	157.	107.	143.
Cattle	Number	14.4	18.0	18.0	17.8	17.1

Table 9.- Feed costs and returns from all dairy cattle,
Southeastern Minnesota, 1940-43

Item	Unit	1940	1941	1942	1943	Average 1940-43
Farms	Number	126	168	174	152	155
Feeds per animal unit						
Concentrates	Pound	1,663	1,744	1,737	1,789	1,733
Hay and fodder	do.	3,971	4,045	4,128	4,198	4,086
Silage	do.	5,612	5,295	5,181	5,702	5,448
Feed cost per animal unit						
Concentrates	Dollar	13.66	17.36	22.93	32.06	21.50
Roughages	do.	18.31	21.01	22.12	29.79	22.81
Pasture	do.	4.57	4.89	4.77	5.08	4.83
Total feed costs	do.	36.54	43.26	49.82	66.93	49.14
Value of produce per animal unit						
Dairy products	do.	62.47	77.13	85.31	102.53	81.86
Net increase in value of						
animals	do.	19.83	23.83	30.81	28.81	25.82
Total value produced	do.	82.30	100.96	116.12	131.34	107.68
Return above feed per animal unit	do.	45.76	57.70	66.30	64.41	58.54
Return for \$100 feed	do.	225.	233.	233.	196.	222.
Animal units	Number	26.9	27.4	28.0	27.4	27.4

Table 10.- Feed costs and returns from other dairy cattle,
Southwestern Minnesota, 1940-43

Item	Unit	1940	1941	1942	1943	Average 1940-43
Farms	Number	72	66	59	50	62
Feeds per head						
Concentrates	Pound	674	733	731	888	757
Hay and fodder	do.	1,464	1,248	1,384	1,584	1,420
Silage	do.	1,917	1,578	1,424	1,969	1,722
Skim milk	do.	1,308	1,346	1,355	1,123	1,283
Whole milk	do.	379	524	443	336	421
Feed cost per head						
Concentrates	Dollar	5.46	6.98	8.99	15.03	9.12
Roughages	do.	6.70	6.54	6.82	11.27	7.83
Milk	do.	6.64	10.06	10.30	11.34	9.58
Pasture	do.	1.74	2.03	1.83	2.08	1.92
Total feed costs	do.	20.54	25.61	27.94	39.72	28.45
Net increase in value of other						
dairy cattle	do.	31.94	45.59	48.24	43.41	42.29
Return above feed cost per head	do.	11.40	19.98	20.30	3.69	13.84
Return for \$100 feed	do.	156.	178.	173.	109.	154.
Cattle	Number	12.6	15.0	13.9	15.1	14.2

Table 11.- Feed costs and returns from all dairy cattle,
Southwestern Minnesota, 1940-43

Item	Unit	1940	1941	1942	1943	Average 1940-43
Farms	Number	78	70	61	55	66
Feeds per animal unit						
Concentrates	Pound	2,139	2,139	2,272	2,482	2,258
Hay and fodder	do.	3,852	3,401	4,042	3,844	3,785
Silage	do.	4,480	4,647	3,974	4,358	4,365
Feed cost per animal unit						
Concentrates	Dollar	17.80	20.81	28.38	42.74	27.43
Roughages	do.	16.94	18.49	20.01	27.79	20.81
Pasture	do.	4.83	5.44	4.88	5.21	5.09
Total feed costs	do.	39.57	44.74	53.27	75.74	53.33
Value of produce per animal unit						
Dairy products	do.	55.82	65.38	78.37	97.28	74.21
Net increase in value of						
animals	do.	18.83	27.67	33.68	29.37	27.39
Total value produced	do.	74.65	93.05	112.05	126.65	101.60
Return above feed per animal unit	do.	35.08	48.31	58.78	50.91	48.27
Return for \$100 feed	do.	189.	208.	210.	167.	194.
Animal units	Number	17.7	21.3	20.6	21.0	20.2

Table 12.- Feed costs and returns from other dual purpose cattle,
Southeastern Minnesota, 1940-43

Item	Unit	1940	1941	1942	1943	Average 1940-43
Farms	Number	18	24	22	18	21
Feeds per head						
Concentrates	Pound	609	635	581	611	609
Hay and fodder	do.	1,509	1,334	1,773	1,554	1,543
Silage	do.	1,518	1,507	1,614	1,582	1,555
Skim milk	do.	188	242	290	296	254
Whole milk	do.	875	1,310	1,129	964	1,070
Feed cost per head						
Concentrates	Dollar	4.74	5.95	7.43	10.55	7.16
Roughages	do.	5.91	6.17	8.20	9.87	7.54
Milk	do.	4.02	6.73	8.16	9.50	7.10
Pasture	do.	1.80	1.88	1.86	1.88	1.86
Total feed costs	do.	16.47	20.73	25.65	31.80	23.66
Net increase in value of other						
dual purpose cattle	do.	30.81	32.59	41.94	37.73	35.76
Return above feed cost per head	do.	14.34	11.86	16.29	5.93	12.10
Return for \$100 feed	do.	187.	157.	164.	119.	151.
Cattle	Number	25.6	23.1	25.0	27.2	25.2

Table 13.- Feed costs and returns from all dual purpose cattle,
Southeastern Minnesota, 1940-43

Item	Unit	1940	1941	1942	1943	Average 1940-43
Farms	Number	18	24	23	19	21
Feeds per animal unit						
Concentrates	Pound	1,420	1,476	1,494	1,477	1,467
Hay and fodder	do.	3,709	3,270	3,729	3,468	3,544
Silage	do.	3,743	3,646	4,003	4,120	3,878
Feed cost per animal unit						
Concentrates	Dollar	11.38	13.79	19.48	26.00	17.66
Roughages	do.	14.65	15.54	18.13	23.79	18.03
Pasture	do.	6.07	4.68	4.98	5.18	5.23
Total feed costs	do.	32.10	34.01	42.59	54.97	40.92
Value of produce per animal unit						
Dairy products	do.	31.50	49.32	49.89	57.16	46.97
Net increase in value of						
animals	do.	28.11	23.86	38.82	36.04	31.71
Total value of products	do.	59.61	73.18	88.71	93.20	78.68
Return above feed per animal unit	do.	27.51	39.17	46.12	38.23	37.76
Return for \$100 feed	do.	186.	215.	208.	170.	192.
Animal units	Number	27.9	27.6	28.3	29.6	28.4

Table 14.- Feed costs and returns from other dual purpose cattle,
Southwestern Minnesota, 1940-43

Item	Unit	1940	1941	1942	1943	Average 1940-43
Farms	Number	39	47	45	37	42
Feeds per head						
Concentrates	Pound	742	764	687	817	753
Hay and fodder	do.	1,633	1,235	1,184	1,264	1,329
Silage	do.	1,228	1,140	981	647	999
Skim milk	do.	1,223	1,196	1,218	732	1,092
Whole milk	do.	204	383	299	180	267
Feed cost per head						
Concentrates	Dollar	5.94	7.32	8.30	13.83	8.85
Roughages	do.	6.07	5.66	5.38	7.26	6.09
Milk	do.	4.42	7.80	8.26	5.97	6.61
Pasture	do.	1.72	2.33	2.68	2.36	2.27
Total feed costs	do.	18.15	23.11	24.62	29.42	23.82
Net increase in value of other						
dairy cattle	do.	30.39	43.28	47.54	34.70	38.97
Return above feed cost per head	do.	12.24	20.17	22.92	5.28	15.15
Return for \$100 feed	do.	167.	187.	193.	118.	166.
Cattle	Number	16.6	13.9	15.2	15.2	15.2

Table 15.- Feed costs and returns from all dual purpose cattle,
Southwestern Minnesota, 1940-43

Item	Unit	1940	1941	1942	1943	Average 1940-43
Farms	Number	51	53	60	51	54
Feeds per animal unit						
Concentrates	Pound	1,477	1,801	1,755	2,056	1,772
Hay and fodder	do.	3,848	3,322	3,374	3,542	3,522
Silage	do.	3,875	2,901	3,160	2,739	3,169
Feed cost per animal unit						
Concentrates	Dollar	11.78	17.08	21.47	34.28	21.15
Roughages	do.	15.48	15.61	15.98	22.47	17.39
Pasture	do.	5.23	5.52	5.80	5.83	5.59
Total feed costs	do.	32.49	38.21	43.25	62.58	44.13
Value of produce per animal unit						
Dairy products	do.	37.23	42.86	56.25	63.19	49.88
Net increase in value of						
animals	do.	20.40	33.97	37.91	30.27	30.64
Total value produced	do.	57.63	76.83	94.16	93.46	80.52
Return above feed per animal unit	do.	25.14	38.62	50.91	30.88	36.39
Return for \$100 feed	do.	177.	201.	218.	149.	186.
Animal units	Number	16.5	16.4	15.5	14.3	15.7

Table 16.- Feed costs and returns from a beef breeding herd, 1940-43

Item	Unit	1940	1941	1942	1943	Average 1940-43
<u>Southeastern Minnesota</u>						
Farms	Number	14	18	22	18	18
Feeds per animal unit						
Concentrates	Pound	1,328	1,138	1,239	1,318	1,256
Legume hay	do.	1,424	1,646	1,856	1,935	1,715
Other hay	do.	1,442	860	540	580	856
Fodder and stover	do.	411	398	297	210	329
Silage	do.	2,725	2,812	3,170	3,398	3,026
Skim milk*	do.	---	86	557	111	189
Whole milk*	do.	---	45	28	8	20
Feed cost per animal unit						
Concentrates	Dollar	11.37	10.57	15.70	23.64	15.32
Roughages	do.	11.23	11.97	12.82	16.90	13.23
Milk*	do.	---	.97	1.81	.47	.81
Pasture	do.	3.42	6.43	6.29	5.47	5.40
Total feed costs	do.	26.02	29.94	36.62	46.48	34.76
Value of produce per animal unit						
Dairy products	do.	1.56	1.61	.96	2.98	1.78
Net increase in value of animals	do.	35.08	46.89	59.55	50.79	48.07
Total value produced	do.	36.64	48.50	60.51	53.77	49.85
Return above feed per animal unit:	do.	10.62	18.56	23.89	7.29	15.09
Return for \$100 feed	do.	148.	179.	173.	127.	157.
Cows and herd bulls	Number	12.4	13.0	12.6	10.2	12.0
Animal units in herd	do.	24.3	27.7	25.8	25.6	25.9
<u>Southwestern Minnesota</u>						
Farms	Number	42	39	44	50	44
Feeds per animal unit						
Concentrates	Pound	1,418	1,425	1,369	1,271	1,371
Legume hay	do.	1,824	1,987	1,673	2,429	1,978
Other hay	do.	628	398	386	245	414
Fodder and stover	do.	438	453	405	155	363
Silage	do.	2,833	2,885	2,825	3,155	2,925
Skim milk*	do.	345	58	149	246	200
Whole milk*	do.	79	13	26	19	34
Feed cost per animal unit						
Concentrates	Dollar	11.34	13.40	16.35	20.76	15.46
Roughages	do.	11.19	13.29	11.54	19.16	13.80
Milk*	do.	1.53	.28	.80	1.09	.93
Pasture	do.	5.80	6.60	5.86	5.57	5.95
Total feed costs	do.	29.86	33.57	34.55	46.58	36.14
Value of produce per animal unit						
Dairy products	do.	7.00	8.71	11.72	12.84	10.07
Net increase in value of animals:	do.	41.06	49.92	58.36	52.28	50.40
Total value produced	do.	48.06	58.63	70.08	65.12	60.47
Return above feed per animal unit:	do.	18.20	25.06	35.53	18.54	24.33
Return for \$100 feed	do.	172.	183.	215.	156.	182.
Cows and herd bulls	Number	12.8	17.1	17.4	14.9	15.6
Animal units in herd	do.	23.1	28.5	27.3	24.8	25.9

*A few farmers had dairy or dual purpose cows as well as beef cows and fed considerable amounts of milk produced by the milking herd to beef calves.

Table 17.- Feed costs and returns from feeder cattle, 1940-43

Item	Unit	1940	1941	1942	1943	Average :1940-43
<u>Southeastern Minnesota</u>						
Farms	No. :	29	33	28	22	28
Feeds per cwt. beef produced	:					
Corn	Lb. :	610	632	690	611	636
Small grain	do. :	126	132	78	68	101
Commercial feeds-under 25 percent protein:	do. :	12	11	3	5	8
Commercial feeds- over 25 percent protein:	do. :	16	24	33	32	26
Legume hay	do. :	206	214	273	219	228
Other hay	do. :	160	81	77	99	104
Fodder and stover	do. :	27	37	74	7	36
Total concentrates	do. :	764	799	804	716	771
Total dry roughages	do. :	393	332	424	325	369
Silage	do. :	401	514	394	359	417
Feed cost per cwt. produced	:					
Concentrates	Dol. :	6.00	7.32	9.89	11.92	8.78
Roughages	do. :	1.53	1.61	1.82	2.02	1.75
Pasture	do. :	.17	.16	.24	.47	.26
Total feed costs	do. :	7.70	9.09	11.95	14.41	10.79
Net increase in value of feeders	do. :	11.67	13.07	16.48	16.58	14.45
Return above feed cost per cwt. produced ..	do. :	3.97	3.98	4.53	2.17	3.66
Return for \$100 feed	do. :	172.	157.	154.	124.	152.
Price received per cwt. beef sold	do. :	8.67	9.72	11.69	13.84	10.98
Price received per cwt. beef bought	do. :	6.08	9.80	11.46	12.12	9.87
Animal units	No. :	20.8	19.1	20.3	10.3	17.6
Beef produced	Lb. :	12,453	10,654	11,545	5,911	10,141
<u>Southwestern Minnesota</u>						
Farms	No. :	75	80	94	84	83
Feeds per cwt. beef produced	:					
Corn	Lb. :	596	659	818	809	721
Small grain	do. :	110	119	60	44	83
Commercial feeds-under 25 percent protein:	do. :	8	7	8	7	8
Commercial feeds- over 25 percent protein:	do. :	26	25	29	34	29
Legume hay	do. :	270	182	285	305	261
Other hay	do. :	64	48	69	44	56
Fodder and stover	do. :	44	56	36	17	38
Total concentrates	do. :	740	810	915	894	840
Total dry roughages	do. :	378	286	390	366	355
Silage	do. :	555	325	400	437	429
Feed cost per cwt. produced	:					
Concentrates	Dol. :	5.92	7.63	11.02	14.39	9.74
Roughages	do. :	1.70	1.34	1.82	2.49	1.84
Pasture	do. :	.38	.24	.43	.37	.35
Total feed costs	do. :	8.00	9.21	13.27	17.25	11.93
Net increase in value of feeders	do. :	10.92	13.20	16.91	18.68	14.93
Return above feed cost per cwt. produced ..	do. :	2.92	3.99	3.64	1.43	3.00
Return for \$100 feed	do. :	148.	153.	139.	119.	140.
Price received per cwt. beef sold	do. :	8.81	10.13	12.22	13.68	11.21
Price received per cwt. beef bought	do. :	6.14	9.82	11.82	11.57	9.84
Animal units	No. :	36.9	42.7	34.1	34.4	37.0
Beef produced	Lb. :	18,991	29,191	17,496	16,534	20,553

Table 18.- Feed costs and returns from feeder sheep, Southwestern Minnesota, 1940-43

Item	Unit	1940	1941	1942	1943	Average :1940-43
Farms	No.	20	23	26	22	23
Feeds per cwt. sheep produced						
Concentrates	Lb.	622	665	926	646	715
Legume hay	do.	326	201	397	272	299
Other hay	do.	72	25	48	38	46
Fodder and stover	do.	62	110	20	49	60
Silage	do.	99	404	370	93	242
Feed cost per head						
Concentrates	Dol.	4.76	6.30	11.02	10.61	8.17
Roughages	do.	1.55	1.55	2.19	1.91	1.80
Pasture	do.	.85	.53	1.02	1.33	.93
Total feed costs	do.	7.16	8.38	14.23	13.85	10.90
Net increase in value of sheep	do.	9.29	16.39	20.90	18.09	16.16
Return above feed cost per cwt.produced	do.	2.13	8.01	6.67	4.24	5.26
Return for \$100 feed	do.	150.	225.	176.	140.	173.
Price per cwt. sheep sold	do.	8.74	10.08	12.47	14.52	11.45
Price per cwt. sheep bought	do.	8.79	10.43	12.61	13.59	11.36
Percentage death loss	Pct.	3.5	2.8	2.9	3.4	3.2
Sheep produced	Lb.	6,490	16,487	12,938	9,500	11,354

Table 19.- Feed costs and returns from a farm flock of sheep,
Southwestern Minnesota, 1940-43

Item	Unit	1940	1941	1942	1943	Average :1940-43	Average :S.E.Minn. :1940-43
Farms	No.	56	60	63	53	58	62
Feeds per head*							
Concentrates	Lb.	75	92	92	102	75	81
Legume hay	do.	208	169	167	233	194	217
Other hay	do.	60	32	31	27	38	29
Fodder and stover	do.	46	39	44	2	33	33
Silage	do.	142	104	77	87	103	125
Feed cost per head							
Concentrates	Dol.	.64	.85	1.14	1.68	1.08	.97
Roughages	do.	1.08	.95	.88	1.46	1.09	1.18
Pasture	do.	.88	.96	.99	1.00	.96	.98
Total feed costs	do.	2.60	2.76	3.01	4.14	3.13	3.13
Value of produce per head							
Wool	do.	2.09	2.69	3.02	2.81	2.65	2.82
Net increase in value	do.	3.78	6.03	5.60	4.70	5.03	5.11
Total value produced	do.	5.87	8.72	8.62	7.51	7.68	7.93
Return above feed cost per head	do.	3.27	5.96	5.61	3.37	4.55	4.80
Return for \$100 feed	do.	226.	316.	286.	181.	252.	260.
Price per cwt. of lambs sold	do.	**	10.35	13.12	13.02	**	**
Price per pound wool sold	Cent.	28.7	38.2	40.9	41.1	37.2	38.6
Wool per sheep sheared	Lb.	9.0	8.9	9.0	8.6	8.9	8.8
Ewes kept for lambing	No.	36	32	49	35	38	30
Percentage lamb crop	Pct.	110	110	109	105	109	101
Percentage death loss	do.	19.0	17.3	11.0	9.8	14.3	12.5
Sheep*	Head	54.8	54.9	77.0	62.0	62.2	44.3

* Two lambs under 6 months of age considered as 1 head. **Information not available.

Table 20.- Feed costs and returns from a farm flock of sheep,
Southeastern Minnesota, 1928-43

Item	Unit	1928	1929	1930	1931	1932	1933	1934	1935	1936
Farms	Number	29	41	48	47	44	32	43	46	51
Feeds per head*										
Concentrates	Pound	35	69	58	67	48	96	74	56	54
Hay and fodder	do.	127	201	243	165	221	249	267	268	319
Silage	do.	115	157	104	84	101	114	143	195	160
Feed cost per head										
Concentrates	Dollar	.53	.85	.61	.52	.29	.43	.61	.66	.52
Roughages	do.	.96	1.22	1.11	.93	.89	.76	1.13	1.69	1.02
Pasture	do.	1.07	1.11	1.09	.93	.65	.66	.62	.87	.85
Total feed costs	do.	2.56	3.18	2.81	2.38	1.83	1.85	2.36	3.22	2.39
Value of produce per head										
Wool	do.	2.60	2.29	1.29	.72	.56	1.55	1.40	1.44	2.04
Net increase in value of sheep:	do.	6.68	4.92	1.84	1.89	1.63	3.05	3.15	4.21	3.98
Total value produced	do.	9.28	7.21	3.13	2.61	2.19	4.60	4.55	5.65	6.02
Return above feed cost per head :	do.	6.72	4.03	.32	.23	.36	2.75	2.19	2.43	3.63
Return for \$100 feed	do.	363.	227.	111.	110.	120.	249.	193.	175.	252.
Value per lamb sold	do.	10.02	9.25	5.92	4.29	3.62	4.67	5.13	6.74	6.97
Price per pound wool sold	Cent	42.	30.5	18.4	12.7	8.0	22.8	19.2	20.0	29.0
Ewes kept for lambing	Number	22	24	20.6	28.8	29	24	27	25	28
Percentage lamb crop	Percent	90	79	98	94	104	106	100	93	95
Percentage death loss	do.	6	9	8	6	8	7	10	10.6	8
Sheep per farm*	Head	27.5	30.1	28.5	37.5	42.4	35.8	40.8	35.5	39.6

Continued -

Table 20.- Feed costs and returns from a farm flock of sheep,
Southeastern Minnesota, 1928-43 - Continued

Item	Unit	1937	1938	1939	1940	1941	1942	1943	Average :1928-43
Farms	Number	65	48	48	58	61	65	65	49
Feeds per head*	:	:	:	:	:	:	:	:	:
Concentrates	Pound	41	65	80	83	68	75	97	67
Hay and fodder	do.	251	235	247	306	246	261	301	244
Silage	do.	123	105	119	130	122	126	122	126
Feed cost per head	:	:	:	:	:	:	:	:	:
Concentrates	Dollar	.47	.50	.54	.68	.62	.95	1.63	.65
Roughages	do.	1.21	.78	.85	1.02	.95	1.10	1.65	1.08
Pasture	do.	.85	.85	.80	.91	1.00	.96	1.06	.89
Total feed costs	do.	2.53	2.13	2.19	2.61	2.57	3.01	4.34	2.62
Value of produce per head	:	:	:	:	:	:	:	:	:
Wool	do.	2.52	1.11	1.99	2.25	2.97	2.86	3.21	1.92
Net increase in value of sheep:	do.	3.71	3.02	3.75	3.79	5.08	5.92	5.64	3.89
Total value produced	do.	6.23	4.13	5.74	6.04	8.05	8.78	8.85	5.81
Return above feed cost per head :	do.	3.70	2.00	3.55	3.43	5.48	5.77	4.51	3.19
Return for \$100 feed	do.	246.	194.	262.	231.	313.	292.	204.	211.
Value per lamb sold	do.	7.37	5.87	6.38	6.69	8.72	**	**	6.55
Price per pound wool sold	Cent	32.0	18.0	25.1	30.7	40.4	41.2	42.1	27.0
Ewes kept for lambing	Number	24	29	23	25	33	32	28	26.4
Percentage lamb crop	Percent	97	97	98	106	105	94	97	97
Percentage death loss	do.	16	16	15.9	17.9	16.4	6.8	9	10.7
Sheep per farm*	Head	37.3	43.0	33.0	37.6	49.6	48.8	41.0	38.0

* Two lambs under 6 months of age considered as 1 head.

** Information not available; average is for years 1928-41.

Table 21.- Feed costs and returns from hogs, Southeastern Minnesota, 1928-43

Item	Unit	1928	1929	1930	1931	1932	1933	1934	1935	1936
Farms	Number	122	168	174	143	142	104	116	145	147
Feed per 100 pounds produced										
Corn	Pound	317	325	334	257	282	352	344	333	329
Small grain	do.	135	160	160	153	136	87	52	91	103
Commercial feeds	do.	14	7	5	18	20	9	12	19	16
Total concentrates	do.	496	492	499	428	438	448	408	443	448
Skim milk	do.	505	487	435	399	481	417	558	523	409
Average value of feed per cwt. produced										
Concentrates	Dollar	6.45	5.86	5.03	3.26	2.55	2.30	3.76	4.62	5.42
Skim milk	do.	1.26	1.22	1.09	.60	.48	.42	.84	.78	.70
Pasture	do.	.27	.26	.20	.17	.11	.11	.11	.14	.15
Total feed cost per cwt.	do.	7.98	7.34	6.32	4.03	3.14	2.83	4.71	5.54	6.27
Net increase in value	do.	8.52	9.80	8.01	3.79	2.58	3.36	5.67	9.52	9.44
Return above feed cost	do.	.54	2.46	1.69	-.24	-.56	.53	.96	3.98	3.17
Return for \$100 of feed	do.	107	134.	127.	94.	82.	119.	120.	172.	151.
Price received per cwt.	do.	8.23	9.60	8.94	5.33	3.18	3.42	4.01	8.73	9.26
Spring litters per farm	Number	6.5	7.1	7.5	9.4	7.9	7.2	5.2	4.6	6.1
Fall litters per farm	do.	3.4	3.2	3.1	4.9	3.7	5.1	2.2	2.8	3.4
Total litters per farm	do.	9.9	10.3	10.6	14.3	11.6	12.3	7.4	7.4	9.5
Pigs weaned per litter	do.	6.1	6.4	6.4	6.4	5.9	5.8	6.3	6.3	6.4
Produced per farm	Pound	12,976	14,036	15,736	19,536	15,220	15,677	12,427	10,281	13,221

Continued -

Table 21.- Feed costs and returns from hogs, Southeastern Minnesota, 1928-43 - Continued

Item	Unit	1937	1938	1939	1940	1941	1942	1943	Average 1928-43
Farms	Number	158	117	147	143	190	198	174	149
Feed per 100 pounds produced									
Corn	Pound	290	308	303	308	313	350	382	320
Small grain	do.	135	115	115	134	138	121	135	125
Commercial feeds	do.	17	17	11	12	17	26	30	16
Total concentrates	do.	442	440	429	454	468	497	547	461
Skim milk	do.	377	375	346	262	262	189	168	387
Average value of feed per cwt. produced									
Concentrates	Dollar	5.60	3.19	2.83	3.55	4.54	6.36	9.59	4.69
Skim milk	do.	.57	.49	.52	.39	.47	.40	.42	.67
Pasture	do.	.16	.18	.16	.17	.16	.20	.20	.17
Total feed cost per cwt.	do.	6.33	3.86	3.51	4.11	5.17	7.16	10.21	5.53
Net increase in value per cwt. ..	do.	8.81	7.33	5.33	5.61	10.58	14.25	13.11	7.85
Return above feed cost	do.	2.48	3.47	1.82	1.50	5.41	7.09	2.90	2.32
Return for \$100 of feed	do.	139.	190.	152.	136.	205.	199.	128.	141.
Price received per cwt. sold	do.	9.47	7.69	6.17	5.27	9.20	13.24	13.88	7.85
Spring litters per farm	Number	6.2	7.7	8.3	8.1	8.7	10.2	12.3	7.7
Fall litters per farm	do.	3.0	4.0	3.7	4.3	5.6	5.7	6.1	4.0
Total litters per farm	do.	9.2	11.7	12.0	12.4	14.3	15.9	18.4	11.7
Pigs weaned per litter	do.	6.3	6.7	6.3	6.3	6.3	6.3	6.0	6.3
Produced per farm	Pound	15,415	16,629	17,207	18,184	20,974	24,763	25,503	16,612

Table 22.- Feed costs and returns from hogs,
Southwestern Minnesota, 1940-43

Item	Unit	1940	1941	1942	1943	Average 1940-43	Average S.E.Minn. 1940-43
Farms	No.	160	159	162	161	160	176
Feed per cwt.hogs produced :							
Corn	Lb.	318	367	390	439	379	338
Small grain	do.	156	134	78	85	113	132
Commercial feeds - under :							
25 percent protein	do.	3	3	5	6	4	5
Commercial feeds - over :							
25 percent protein	do.	11	15	23	26	19	16
Total concentrates	do.	488	519	496	556	515	491
Skim milk and buttermilk :	do.	142	114	86	72	104	220
Feed cost per cwt. hogs produced :							
Concentrates	Dol.	3.88	5.14	6.40	9.55	6.24	6.06
Skim milk and buttermilk :	do.	.21	.20	.18	.17	.19	.42
Pasture	do.	.20	.21	.18	.17	.19	.18
Total feed costs	do.	4.29	5.55	6.76	9.89	6.62	6.66
Net increase in value per cwt.	do.	5.52	10.70	14.37	12.82	10.85	10.89
Return above feed cost per cwt.	do.	1.23	5.15	7.61	2.93	4.23	4.23
Return for \$100 feed	do.	129.	193.	213.	130.	166.	167.
Price received per cwt. hogs sold	do.	5.15	9.07	13.13	13.80	10.29	10.40
Total litters raised	No.	14.0	18.1	20.5	25.9	19.6	15.2
Pigs weaned per litter	do.	6.2	6.4	6.3	6.0	6.2	6.2
Hogs produced	Lb.	21,907	28,740	35,161	40,330	31,534	22,356

Table 23.- Feed costs and returns from chickens, Southeastern Minnesota, 1928-43

Item	Unit:	1928	1929	1930	1931	1932	1933	1934	1935	1936
Farms	No. :	123	167	175	139	132	102	114	138	139
Feed per hen	:	:	:	:	:	:	:	:	:	:
Concentrates	Lb. :	90	106	103	104	110	113	111	116	121
Skim milk	do.:	52	51	57	54	58	70	76	62	53
Cost of feed per hen	:	:	:	:	:	:	:	:	:	:
Concentrates	Dol.:	1.40	1.56	1.24	.96	.80	.86	1.35	1.60	1.74
Skim milk	do.:	.13	.13	.14	.08	.06	.07	.11	.09	.09
Total	do.:	1.53	1.69	1.38	1.04	.86	.93	1.46	1.69	1.83
Value of produce per hen	:	:	:	:	:	:	:	:	:	:
Eggs sold and used in home	do.:	2.10	2.25	1.98	1.54	1.15	1.22	1.52	2.38	2.21
Net increase in value of chickens ..	do.:	1.29	1.22	.75	.72	.52	.46	.75	.90	.69
Total value produced	do.:	3.39	3.47	2.73	2.26	1.67	1.68	2.27	3.28	2.90
Return above feed cost per hen	do.:	1.86	1.78	1.35	1.22	.81	.75	.81	1.59	1.07
Return for \$100 of feed	do.:	222.	205.	198.	217.	194.	181.	155.	194.	158.
Price received per dozen eggs sold ..	Cent:	27.0	28.0	21.7	16.0	13.2	12.3	15.3	22.1	20.1
Eggs laid per hen	No. :	93	97	110	119	106	118	118	131	131
Percentage of hens that were pullets:	Pct.:	59	61	70	75	72	72	76	76	77
Hens per farm	No. :	140	135	151	166	177	198	200	184	200
		1937	1938	1939	1940	1941	1942	1943	Average 1928-43	
Farms	No. :	158	114	148	133	178	184	167	144	
Feed per hen	:	:	:	:	:	:	:	:	:	
Concentrates	Lb. :	103	127	119	119	132	127	138	115	
Skim milk	do.:	38	34	39	26	26	18	15	46	
Cost of feed per hen	:	:	:	:	:	:	:	:	:	
Concentrates	Dol.:	1.76	1.26	1.17	1.32	1.74	2.23	2.98	1.50	
Skim milk	do.:	.06	.04	.06	.04	.06	.04	.05	.08	
Total	do.:	1.82	1.30	1.23	1.36	1.80	2.27	3.03	1.58	
Value of produce per hen	:	:	:	:	:	:	:	:	:	
Eggs sold and used in home	do.:	2.05	2.05	1.64	1.82	2.59	3.51	4.41	2.15	
Net increase in value of chickens ..	do.:	.60	.37	.56	.46	.87	.92	1.17	.77	
Total value produced	do.:	2.65	2.42	2.20	2.28	3.46	4.43	5.58	2.92	
Return above feed cost per hen	do.:	.83	1.12	.97	.92	1.66	2.16	2.55	1.34	
Return for \$100 of feed	do.:	146.	186.	179.	168.	192.	195.	184.	186.	
Price received per dozen eggs sold ..	Cent:	19.1	18.1	15.3	16.5	22.0	29.0	36.2	20.7	
Eggs laid per hen	No. :	130	135	126	131	142	146	147	124	
Percentage of hens that were pullets:	Pct.:	76	75	70	79	81	83	86	74	
Hens per farm	No. :	201	200	184	219	218	238	260	192	

Table 24.- Feed costs and returns from chickens,
Southwestern Minnesota, 1940-43

Item	Unit	1940	1941	1942	1943	Average 1940-43	Average S.E.Minn. 1940-43
Farms	No.	147	143	147	152	147	166
Feed per hen							
Total concentrates	Lb.	101	116	132	149	125	129
Skim milk and buttermilk: do.	do.	25	23	24	18	23	21
Feed cost per hen							
Concentrates	Dol.	1.07	1.46	2.10	3.12	1.94	2.07
Skim milk and buttermilk: do.	do.	.04	.04	.05	.05	.04	.05
Total feed cost	do.	1.11	1.50	2.15	3.17	1.98	2.12
Value of produce per hen							
Eggs sold and used							
in home	do.	1.42	2.04	3.18	4.23	2.72	3.08
Net increase in value							
of chickens	do.	.65	.81	1.04	1.42	.98	.86
Total value produced ..	do.	2.07	2.85	4.22	5.65	3.70	3.94
Return above feed cost							
per hen	do.	.96	1.35	2.07	2.48	1.72	1.82
Return for \$100 feed	do.	186.	190.	196.	178.	188.	185.
Price received per dozen							
eggs sold	Cent	15.0	20.8	28.4	34.9	24.8	~~23.5~~ 25.9
Eggs laid per hen	No.	113	117	135	146	128	142
Hens	do.	179	199	218	240	209	234
Percentage hens that are							
pullets	Pct.	75	70	78	82	76	82

Table 25.- Feed costs and returns from turkeys,
Southeastern Minnesota, 1933-43

Item	Unit	1933	1934	1935	1936	1937	1938
Farms	No.	8	12	10	15	13	9
Feed per cwt. turkeys produced	:	:	:	:	:	:	:
Grain	Lb.	420	422	458	398	379	403
Commercial feeds	do.	161	166	243	178	173	237
Total concentrates	do.	581	588	701	576	552	640
Skim milk	do.	166	141	74	55	60	63
Feed cost per cwt. produced	Dol.	5.38	8.52	9.65	10.00	8.32	7.75
Value of produce per cwt. produced	:	:	:	:	:	:	:
Eggs and poults	do.	.17	.06	.72	.74	.12	2.11
Net increase in value of turkeys	do.	12.80	20.40	24.52	14.92	20.73	18.02
Total value produced	do.	12.97	20.46	25.24	15.66	20.85	20.13
Return above feed cost per cwt. produced	do.	7.59	11.94	15.59	5.66	12.53	12.38
Return for \$100 feed	do.	241.	240.	262.	157.	251.	260.
Price received per pound sold	Cent.	13.9	20.0	25.6	17.5	21.3	19.8
Turkeys produced	Lb.	4,617	6,238	7,767	14,611	15,706	22,359
		1939	1940	1941	1942	1943	Average 1933-43
Farms	No.	11	9	18	15	11	12
Feed per cwt. turkeys produced	:	:	:	:	:	:	:
Grain	Lb.	407	456	381	422	503	423
Commercial feeds	do.	185	249	207	183	255	203
Total concentrates	do.	592	705	588	605	758	626
Skim milk	do.	56	51	74	46	17	73
Feed cost per cwt. produced	Dol.	7.09	9.06	9.33	11.90	17.66	95.15
Value of produce per cwt. produced	:	:	:	:	:	:	:
Eggs and poults	do.	1.64	2.73	1.62	2.01	3.36	1.39
Net increase in value of turkeys	do.	13.72	12.63	18.43	26.45	29.19	19.25
Total value produced	do.	15.36	15.36	20.05	28.46	32.55	20.64
Return above feed cost per cwt. produced	do.	8.27	6.30	10.72	16.56	14.89	11.13
Return for \$100 feed	do.	217.	170.	215.	239.	184.	221.
Price received per pound sold	Cent.	17.0	16.0	20.6	29.0	32.7	21.2
Turkeys produced	Lb.	20,179	20,112	19,819	22,212	17,316	15,540

Table 26.-- Feed costs and returns from turkeys raised for meat production,
Southeastern and Southwestern Minnesota, 1936-43

Item	Unit	1936	1937	1938	1939	1940	1941	1942	1943	Average :1936-43
Farms	No. :	7	8	9	12	17	20	16	13	13
Feed per cwt. turkeys produced :	:									
Grain	Lb. :	318	308	258	311	308	296	380	459	330
Commercial feeds - under	:									
25 percent protein	do.:	61	56	46	15	34	41	50	58	45
Commercial feeds - over	:									
25 percent protein	do.:	131	208	235	213	173	167	141	143	176
Total concentrates	do.:	510	572	539	539	515	504	571	660	551
Skim milk	do.:	76	31	16	38	12	19	21	7	28
Net increase in value of turkeys	Dol.:	12.47	17.54	16.91	13.37	11.34	17.55	25.48	27.94	17.82
Feed cost per cwt. produced	do.:	9.92	9.04	7.59	6.92	6.98	8.63	11.74	15.69	9.56
Return above feed cost	do.:	2.55	8.50	9.32	6.45	4.36	8.92	13.74	12.25	8.26
Return for \$100 feed	do.:	126.	194.	223.	193.	162.	203.	217.	178.	186.
Price received per pound sold ..	Cent:	16.5	19.4	19.7	16.7	15.3	20.5	29.6	32.3	21.3
Turkeys produced	Lb. :	10,269	10,318	12,791	11,900	18,983	17,980	27,048	20,304	16,199

Table 27.- Feed costs and returns from turkeys,
Southwestern Minnesota, 1940-43

Item	Unit	1940	1941	1942	1943	Average 1940-43	Average S.E.Minn. 1940-43
Farms	No.	12	10	8	6	9	13
Feed per cwt. turkeys produced:							
Grain	Lb.	334	295	381	452	366	441
Commercial feeds - under							
25 percent protein	do.	21	51	29	11	28	73
Commercial feeds - over							
25 percent protein	do.	188	145	154	150	159	150
Total concentrates	do.	543	491	564	613	553	664
Skim milk	do.	36	1	---	---	9	47
Feed cost per cwt. produced	Dol.	7.27	8.26	11.40	14.96	10.47	11.99
Value of produce per cwt. produced							
Eggs and poults	do.	1.65	---	---	---	.41	2.43
Net increase in value of turkeys	do.	11.36	17.89	25.49	27.27	20.50	21.68
Total value produced	do.	13.01	17.89	25.49	27.27	20.91	24.11
Return above feed cost per cwt. produced	do.	5.74	9.63	14.09	12.31	10.44	12.12
Return for \$100 feed	do.	179.	217.	224.	182.	201.	202.
Price received per pound sold	Cent	14.4	18.4	29.1	32.0	23.5	24.6
Turkeys produced	Lb.	25,124	22,455	33,675	29,062	27,579	19,865

Table 28.- Feed costs for horses, Southwestern Minnesota, 1940-43

Item	Unit	1940	1941	1942	1943	Average 1940-43	Average S.E.Minn. 1940-43
Farms	No.	163	160	161	155	160	178
Feed per horse							
Grain	Lb.	2,093	1,989	1,933	1,747	1,941	1,773
Hay	do.	3,459	2,621	2,852	2,868	2,950	4,603
Fodder and stover	do.	183	202	294	51	183	408
Feed costs per horse							
Grain	Dol.	16.74	19.12	23.72	30.28	22.47	20.36
Roughage	do.	9.35	8.53	9.19	13.11	10.05	15.46
Pasture	do.	3.65	4.15	4.15	4.48	4.10	3.58
Total feed costs	do.	29.74	31.80	37.06	47.87	36.62	39.50
Work horses	No.	4.2	4.2	4.1	3.9	4.1	4.0
Colts	do.	1.0	1.0	.7	.8	1.0	.9

Table 29.- Feed costs for horses, Southeastern Minnesota, 1928-43

Item	Unit	1928	1929	1930	1931	1932	1933	1934	1935	1936
Farms	Number	124	172	180	147	143	108	120	149	152
Feed per horse										
Grain	Pound	2,224	2,506	2,357	2,497	2,554	2,767	2,583	1,414	2,320
Roughages	do.	4,196	4,420	4,612	4,038	4,471	4,489	4,017	4,037	4,853
Feed costs per horse										
Grain	Dollar	33.94	30.77	22.95	18.63	14.73	15.78	26.15	25.43	23.22
Roughage	do.	20.40	18.82	17.09	14.99	11.80	10.43	13.45	15.15	12.53
Pasture	do.	2.93	3.30	3.17	3.12	1.93	1.76	1.98	2.70	3.05
Total feed costs	do.	57.27	52.89	43.21	36.74	28.46	27.97	41.58	43.28	38.60
Work horses	Number	5.6	5.4	5.3	5.6	5.4	5.4	5.3	4.9	4.8
Colts	do.	.7	.5	.8	.9	.8	.6	.7	1.1	1.2
		1937	1938	1939	1940	1941	1942	1943	Average 1928-43	
Farms	Number	166	122	154	147	195	198	174	153	
Feed per horse										
Grain	Pound	1,841	2,206	2,113	1,991	1,855	1,675	1,570	2,155	
Roughages	do.	4,432	4,591	4,603	4,893	5,100	5,205	4,845	4,550	
Feed costs per horse										
Grain	Dollar	21.94	15.79	14.10	15.48	17.17	21.07	27.72	21.55	
Roughage	do.	16.10	11.37	10.45	12.57	14.54	15.38	19.37	14.64	
Pasture	do.	2.91	2.78	3.06	3.28	3.78	3.80	3.84	2.96	
Total feed costs	do.	40.95	29.94	27.61	31.33	35.49	40.25	50.93	39.15	
Work horses	Number	4.5	4.4	4.1	4.1	4.1	4.0	3.8	4.8	
Colts	do.	1.3	1.3	1.1	1.0	.9	.9	.8	1.0	

Table 30.- Average price of feeds, Southeastern Minnesota, 1928-43

Item	Unit	1928	1929	1930	1931	1932	1933	1934	1935	1936
		Dollars	Dollars	Dollars	Dollars	Dollars	Dollars	Dollars	Dollars	Dollars
Ear corn	Bushel	.66	.68	.59	.41	.31	.24	.48	.60	.68
Oats	do.	.49	.40	.31	.24	.19	.19	.36	.32	.30
Feed barley	do.	.67	.52	.41	.37	.30	.34	.65	.58	.60
Bran	Cwt.	1.82	1.60	1.38	.90	.68	.77	1.15	1.22	1.28
Linseed oilmeal	do.	2.90	3.05	2.72	1.85	1.48	1.60	2.12	1.88	2.10
Tankage	do.	3.75	3.95	3.62	2.38	1.38	1.58	2.15	2.22	2.85
Meat scraps	do.	4.60	4.10	3.62	2.38	1.50	1.96	2.28	2.42	2.95
Alfalfa hay	Ton	15.00	14.50	13.00	13.00	10.00	7.50	12.00	13.00	8.00
Timothy hay	do.	10.60	9.00	7.00	7.00	5.00	4.15	7.50	8.25	4.65
Wild hay	do.	8.60	7.50	6.00	6.00	4.00	3.25	6.50	7.50	4.00
Corn fodder	do.	8.00	7.50	8.00	7.00	4.00	3.12	4.75	4.12	2.50
Corn stover	do.	3.00	2.50	3.00	3.00	1.75	1.00	1.50	1.50	1.32
Corn silage	do.	4.00	4.00	4.00	4.00	3.00	2.62	3.38	3.50	2.68
Skim milk	Cwt.	.25	.25	.25	.15	.10	.10	.15	.15	.17
Pasture	Per A.U.									
	per mo.	1.25	1.25	1.25	1.00	.75	.75	.75	1.00	1.00
		1937	1938	1939	1940	1941	1942	1943	Average 1928-43	
		Dollars	Dollars	Dollars	Dollars	Dollars	Dollars	Dollars	Dollars	
Ear corn	Bushel	.78	.39	.33	.42	.50	.66	.89	.54	
Oats	do.	.34	.22	.23	.26	.32	.44	.62	.33	
Feed barley	do.	.60	.38	.30	.31	.38	.57	.79	.49	
Bran	Cwt.	1.45	1.02	1.10	1.22	1.45	1.95	2.10	1.32	
Linseed oilmeal	do.	2.12	2.30	2.12	1.72	2.00	2.30	2.58	2.18	
Tankage	do.	2.92	2.50	2.92	2.50	3.28	4.08	4.12	2.89	
Meat scraps	do.	2.92	2.45	2.98	2.55	3.28	4.08	4.12	3.01	
Alfalfa hay	Ton	11.00	7.50	7.00	7.50	8.00	8.00	11.00	10.38	
Timothy hay	do.	6.40	4.32	4.50	4.82	5.15	5.15	6.75	6.27	
Wild hay	do.	5.50	3.75	3.50	3.75	4.00	4.00	5.50	5.21	
Corn fodder	do.	3.62	2.80	3.00	3.20	3.40	3.40	4.95	4.59	
Corn stover	do.	1.25	.90	1.00	1.05	1.10	1.10	1.28	1.64	
Corn silage	do.	2.75	2.10	2.00	2.12	2.42	2.75	3.62	3.06	
Skim milk	Cwt.	.15	.13	.15	.15	.18	.22	.26	.18	
Pasture	Per A.U.									
	per mo.	1.00	1.00	1.00	1.00	1.00	1.00	1.10	1.01	

Table 31.- Average price of feeds,
Southwestern Minnesota, 1940-43

Item	Unit	1940	1941	1942	1943	Average 1940-43	Average S.E.Minn. 1940-43
		Dollars	Dollars	Dollars	Dollars	Dollars	Dollars
Earn corn	Bushel	.42	.50	.65	.88	.61	.62
Oats	do.	.26	.32	.41	.60	.40	.41
Feed barley	do.	.31	.39	.52	.77	.50	.51
Bran	Cwt.	1.22	1.50	2.10	2.10	1.73	1.68
Linseed oilmeal ...	do.	1.72	2.02	2.42	2.55	2.18	2.15
Soybean meal	do.	1.72	2.10	2.75	2.82	2.35	2.25
Tankage	do.	2.50	3.20	4.08	4.00	3.45	3.50
Meat scraps	do.	2.55	3.20	4.08	4.00	3.46	3.51
Alfalfa hay	Ton	7.50	8.50	8.00	11.00	8.75	8.63
Timothy hay	do.	4.82	5.45	5.15	6.75	5.54	5.47
Wild hay	do.	3.75	4.25	4.00	5.50	4.38	4.31
Corn fodder	do.	3.20	3.62	3.40	4.95	3.79	3.74
Corn stover	do.	1.05	1.18	1.10	1.28	1.15	1.13
Corn silage	do.	2.12	2.55	2.75	3.62	2.76	2.73
Skim milk	Cwt.	.15	.18	.22	.26	.20	.20
Pasture	Per A.U.						
	:per mo.	1.00	1.00	1.00	1.10	1.03	1.03