LIVESTOCK

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

LIVESTOCK COSTS AND RETURNS, A.E. Res. 82-34

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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.

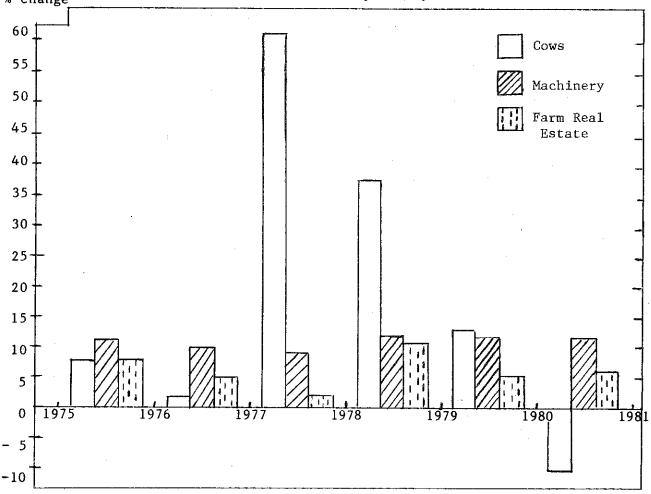
Table 1. UNIT VALUES OF NEW YORK DAIRY FARM INVENTORY ITEMS, 1975-1981

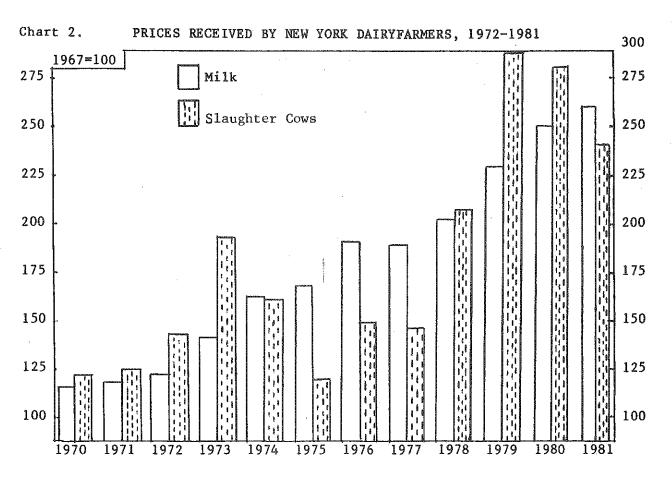
	New York D	airy Cows	Machinery*	N.Y. Farm Rea	al Estate
Year*	Value/Head	1977=100	1977=100	Value/Acre	1977=100
1975	\$ 450	91	82	\$510	88
1976	485	98	91	553	95
1977	495	100	100	587	100
1978	800	162	109	600	102
1979	1,105	223	122	670	113
1980	1,240	251	136	708	119
1981	1,120	226	152	749	126

*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 New York Dairy Farms, 1975-1981





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

	A11	Slaughter		Monthly Farm	Price Per
Year	Milk	Cows	Calves	100 Lbs. of 1	Milk, 1981
	(cwt.)	(cwt.)	(cwt.)		
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

	Index 1977=100									
Year	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 taps 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 % change 45 45 Feed 40 40 Fuels & Energy 35 35 Wage Rates 30 30 25 25 20 20 15 15 10 10 5 5 -5 -5 -10 -10

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

	Avera	ge					Length	of	
	tempera	ture	P	recipi	tation		growing		
	May - Sept.		May - S	Total An	nual	seaso	season*		
Station	1941-70	1981	1941-70	1981	1941-70	1981	1947-67	1981	
	degre	es	inches				day	s	
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	E2E	64.1	17.8	17.8	39.3	30.4	pra	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		Ju1	у	Augus	st	September	
	1941-70	1981	1941-70	1981	1941-70	1981	1941-70	1981	1941-70	1981
					inc	hes				
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	*T - F +	0.0	New York			Cost Account
rtem	Unit	1957-61	1967-71	1977-81	1981	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	bu .	57	85	90	93	93
0ats	bu.	52	60	60	64	
Wheat	bu .	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

	Number	Average acres		Hours of		ırn per		Profit
	of	per	Yield	labor	Hour	Dollar	Profit	on
Con a se	enter-	enter-	per	per	of	of	\mathtt{per}	enter-
Crop	prises	prise	acre	acre*	labor	cost	acre	prise
Forage:								
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
Grain:								
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
Fruit:								
Apples	12	99	406 bu	84	8.97	1.13	191	18,721
Red tart cherrie	s 7	38	2,815 15		13.76	1.35	291	11,008

^{*}To grow and harvest the crop .

ENTERPRISE RATES OF RETURN

FARM COST ACCOUNT RECORDS, 1978-81

	Retur	n per h	our of	labor	Retur	n per de	ollar of	cost
Enterprise	1978	1979	1980	1981	1978	1979	1980	1981
	\$	\$	\$	\$	\$	\$	\$	\$
Livestock:								
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
Forage:								
Нау	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
Grain:				·				
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
Fruits:								
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

Dairy Cows -

According to New York Crop Reporting Service figures, the value of dairy cows reached an all time high of \$1,250 per cow in November 1980. From that point, cow values declined throughout 1981 with the exception of a brief mid-year rally. At the end of 1981, cow values had dropped over \$100 per head to \$1,120. Average value for the year was slightly below the average for 1980. Cull beef prices also declined throughout the year to end at \$36.70 per cwt. - the lowest price since August, 1978. Bob calf prices continued their downward trend from mid-1979. Prices averaged \$66.81 per cwt. for the year and brought \$57.80 per cwt. in December 1981.

These dairy enterprises represent commercial herds where herd dispersals are not a factor. Cow values were held at a constant, conservative level for the year to prevent the declining cow values from affecting enterprise profits. However, profits were affected by the decline in cull beef and bob calf prices as dairymen disposed of livestock in the normal conduct of their herd management practices.

DAIRY CCWS, 1981 COSTS AND RETURNS PER DAIRY COW 3,57C CCWS ON 22 COST ACCOUNT FARMS

ITEM	AVERAGE	PER CO)W
CCSIS: DEPRECIATION			
FEED - 3,891 LBS CF DRY GRAIN	186 31 154 161 45	,	001
LABOR - 51 HOURS			323
TRACTOR, TRUCK	96 17 27 41 66 12 31 7 88 87		655
TOTAL COSTS		\$ 2,	158
RETURNS: 15,414 POUNDS OF MILK SOLD	- \$2,141	\$ 2,	237
PROEII:	-	\$	79
CTHER FACTORS - AVG PER CWT CF MILK: ALL GRAIN TOTAL FEI LABOR CO:	ED COST	3.94 6.46 2.08	
TOTAL CO RETURNS		13.38 13.89	
MILK PRODUCED PER HOUR OF LAB	OR	304 L	В
RETURN PER HOUR OF LABOR RETURN PER DOLLAR OF COST		7.89 1.04	

FACTORS FROM 23 DAIRY COW ENTERPRISES 22 COST ACCOUNT FARMS, 1981 (ARRANGED BY NUMBER OF COWS)

				MILK	***************************************	FEED		COW	شینه سید ساله منب سانه است.	VET
	•	MILK	LABOR	PER	***************************************	HIGH		HAY		MED
FARM	HERD	PER	PER	HR OF	DRY	MSTR		CROP	CORN	COST/
NQ	SIZE	COW	CCM_	LABOR_	GRAIN		_HAY_	SILG	SILG	COW_
	NG	LB	HR	Le	LB	TN	TN	TN	TN	\$
834	604	14,312	41	353	964	4.1	. 1	7.3	7.3	22
827	395	15,608	45	346	2,304	1.8	. 3	4.6	7.3	35
812	292	19,437	38	505	6,952			5.6	12.3	62
806	263	15,648	38	410	2,821	2.3	• l	4.5	8.0	32
824	217	14,499	41	353	1,806	3.3	. 1	5.3	4.0	57
830	187	16,226	59	275	3,775	3.3	. 4	10.6	2.4	36
821	148	13,394	5 C	271	4,838	2.2	. 7	3.2	11.6	21
840	146	15,215	44	342	6,767		. 1	5.8	13.4	45
804	142	14,052	51	278	6,423		. 4	5.0	10.6	47
105	131	14,776	62	239	3,099	4.5	1.0	4 • l	5.7	50
835	130	13,353	44	303	4,785	2.4	• 9	6.2	6.7	67
105*	113	16,031	79	203	7,841	·	. 7	4.4	7.4	- 74
112	111	16,740	60	281	5,802	1.1	1.2	4.7	7.6	21
111*	101	17,220	73	235	2,535	4.5	. 4	11.9	2.7	11
208*	98	14,904	61	246	7,388		. 8	4.4	9.8	64
203*	96	16,115	61	262	7,396		. 7	4.5	10.0	73
836	84	14,552	55	263	6,238		2.2		8.0	32.
867*	68	19,007	72	266	2,441	4.0	2.1	4.6	4.9	53
153*	60	16,255	69.	236	3,033	4.2	1.7	7.2	4.5	8
146*	53	13,358	120	111	4,830	1.8	. 7	4.5	3.7	35
828*	47	15,474	86	180	723	4.7	1.5	6.7	3.0	108
127*	46	16,128	48	339	6,304		1.2	4.3	11.7	36
111*	38	15,150	71	213	5,579	1.2	2.2	2.6	9.2	16
				-						
1001 0	2012									
	ROAS-Y	VERAGE:	ACC	CORDING	TC NAV	MBER_O	E_COV	<u> </u>		
THIRDS	202	16 6/2	, -	253	A 774		_			
HIGH		15,543	45	357	3,779	2.2	. 3	5.9	8.3	39
MED	118	15,297	62	256	5,411	1.8	. 8	5.9	7.3	48
LOW	62	15,756	73	234	4,569	2.0	1.6	4.3	6.9	45
0.818161.8.1	8 3 J CT 1'S A		I ("AI"	rm ioma	CUEED C		050 6		. .	
ENNAST.	TAREKE	GES. A	-L_ENJ	rra-mer:	PDIET E	Y NUM	RFR-7	IE_CUM	7:	
1981	155	15,493	51	304	3,891	2.2	• 5	5.6	7.7	4.1
1980	155	15,894	51	311	3,686	2.2	• 5 • 6	4.3	7.2	41 34
1979	150	15,372	51	303	4,521	1.8	.7	3.6	8.0	37
1978	142	15,051	50	300	4,357	1.5	.6	3.6		
1977	130	14,344	54	264	4,272	1.7	. o	3.6 4.1	7.8	33
		± 19377	J-T	207	79414	+• /	• /	4 • T	7.5	26

^{*} STANCHION BARNS

See note on page 8.

FACTORS FROM 23 DAIRY COW ENTERPRISES 22 COST ACCOUNT FARMS, 1981 (READ ACROSS BOTH PAGES)

AVG COST
PER COWMILK
EED LABOR COST RETURN COST TURN FIT LABOR COST PRISE NO \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
STATES STATE STATE STATE STATE STATES STA
\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
958 286 12.67 13.75 1889 2043 154 10.87 1.08 93,155 834 827 371 12.77 13.90 2066 2243 177 12.12 1.09 69,696 827 1,192 392 12.77 13.55 2569 2721 152 14.14 1.06 44,364 812 944 275 12.56 14.71 2044 2380 336 16.03 1.16 88,558 806 788 235 11.87 13.19 1817 2008 191 10.36 1.11 41,454 824 1,058 315 12.72 13.82 2179 2359 180 8.39 1.08 33,632 830 1,140 268 15.27 14.32 2129 2001 128- 2.82 0.94 18,969- 821 1,127 290 13.32 13.74 2100 2165 65 7.97 1.03 9,411 840 1,069 354 15.46 14.84 2263 2176 87- 5.28 0.96 12,396- 804 1,045 329 14.86 13.98 2272 2141 131- 3.20 0.94 17,181- 105 1,084 215 14.26 13.87 1983 1931 52- 3.69 0.97 6,766- 835 1,047 405 16.16 13.72 2720 2329 391- 0.18 0.86 44,169- 105 1,025 271 12.66 12.93 2204 2249 45 5.31 1.02 5,051 112 1,094 436 12.97 14.55 2309 2582 273 9.69 1.12 27,510 111 1,138 271 15.69 14.61 2469 2308 161- 1.82 0.93 15,747- 208 1,143 292 15.46 14.66 2615 2487 128- 2.67 0.95 12,256- 203 711 534 13.26 13.39 1988 2007 19 9.97 1.01 1,581 836 1,066 322 12.06 13.59 2405 2697 292 8.59 1.12 19,859 867 1,037 329 12.49 13.03 2069 2156 87 6.05 1.04 5,221 153 874 473 15.37 13.59 2111 1875 236- 1.96 0.89 12,558- 146 904 379 13.80 13.48 2272 2177 50- 3.84 0.98 2,322- 828 1,107 264 14.70 14.41 2465 2418 47- 4.56 0.98 2,166- 127 1,133 449 16.25 14.34 2514 2224 290- 2.25 0.88 10,995- 111
827 371 12.77 13.90 2066 2243 177 12.12 1.09 69,696 827 1,192 392 12.77 13.55 2569 2721 152 14.14 1.06 44,364 812 944 275 12.56 14.71 2044 2380 336 16.03 1.16 88,558 806 788 235 11.87 13.19 1817 2008 191 10.36 1.11 41,454 824 1.058 315 12.72 13.82 2179 2359 180 8.39 1.08 33,632 830 1.140 268 15.27 14.32 2129 2001 128- 2.82 0.94 18,969- 821 1,127 290 13.32 13.74 2100 2165 65 7.97 1.03 9,411 840 1,065 329 14.86 13.98 2272 2141 131- 3.20 0.94 17,181- 105 1,084 215 14.26 13.87 1983 1931 52- 3.69 0.97 6,766- 835 1,047 405 16.16 13.72 2720 2329 391- 0.18 0.86 44,169- 105 1,025 271 12.66 12.93 2204 2249 45 5.31 1.02 5,051 112 1,138 271 15.69 14.61 2469 2308 161- 1.82 0.93 15,747- 208 1,143 292 15.46 14.66 2615 2487 128- 2.67 0.95 12.256- 203 711 534 13.26 13.39 1988 2007 19 9.97 1.01 1,581 836 1,066 322 12.06 13.59 2405 2407 292 8.59 1.12 19,859 867 1,037 329 12.49 13.03 2069 2156 87 6.05 1.04 5,221 153 874 473 15.37 13.59 2111 1875 236- 1.96 0.89 12,558- 146 904 379 13.80 13.48 2227 2177 50- 3.84 0.98 2,322- 828 1,107 264 14.70 14.41 2465 2418 47- 4.56 0.98 2,166- 127 1,133 449 16.25 14.34 2514 2224 290- 2.25 0.88 10,995- 111 1981 GROUP AVERAGES. ACCORDING TO NUMBER OF COWS: THIRDS 1.005 304 12.99 13.87 2100 2240 141 10.34 1.07 45,163 HIGH 1,072 326 14.58 14.07 2318 2246 71- 4.17 0.97 9,099- MED 997 381 14.17 13.81 2300 2256 43- 4.99 0.98 1,704- LOW
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711 534 13.26 13.39 1988 2007 19 9.97 1.01 1.581 836 1.066 322 12.06 13.59 2405 2697 292 8.59 1.12 19.859 867 1.037 329 12.49 13.03 2069 2156 87 6.05 1.04 5.221 153 874 473 15.37 13.59 2111 1875 236- 1.96 0.89 12.558- 146 904 379 13.80 13.48 2227 2177 50- 3.84 0.98 2.322- 828 1.107 264 14.70 14.41 2465 2418 47- 4.56 0.98 2.166- 127 1.133 449 16.25 14.34 2514 2224 290- 2.25 0.88 10.995- 111 111 1981 GROUP AVERAGES. ACCORDING TO NUMBER OF COWS: THIRDS 1.005 304 12.99 13.87 2100 2240 141 10.34 1.07 45.163 HIGH 1.072 326 14.58 14.07 2318 2246 71- 4.17 0.97 9.099- MED 997 381 14.17 13.81 2300 2256 43- 4.99 0.98 1.704- LOW
1,066 322 12.06 13.59 2405 2697 292 8.59 1.12 19,859 867 1,037 329 12.49 13.03 2069 2156 87 6.05 1.04 5,221 153 874 473 15.37 13.59 2111 1875 236- 1.96 0.89 12,558- 146 904 379 13.80 13.48 2227 2177 50- 3.84 0.98 2,322- 828 1,107 264 14.70 14.41 2465 2418 47- 4.56 0.98 2,166- 127 1,133 449 16.25 14.34 2514 2224 290- 2.25 0.88 10,995- 111 11 1981 GROUP AVERAGES. ACCORDING TO NUMBER OF COWS: THIRDS 1,005 304 12.99 13.87 2100 2240 141 10.34 1.07 45,163 HIGH 1,072 326 14.58 14.07 2318 2246 71- 4.17 0.97 9,099- MED 997 381 14.17 13.81 2300 2256 43- 4.99 0.98 1,704- LOW
1,037 329 12.49 13.03 2069 2156 87 6.05 1.04 5,221 153 874 473 15.37 13.59 2111 1875 236- 1.96 0.89 12,558- 146 904 379 13.80 13.48 2227 2177 50- 3.84 0.98 2,322- 828 1,107 264 14.70 14.41 2465 2418 47- 4.56 0.98 2,166- 127 1,133 449 16.25 14.34 2514 2224 290- 2.25 0.88 10,995- 111 1981 GROUP AVERAGES. ACCORDING TO NUMBER OF COWS: THIRDS 1,005 304 12.99 13.87 2100 2240 141 10.34 1.07 45,163 HIGH 1,072 326 14.58 14.07 2318 2246 71- 4.17 0.97 9,099- MED 997 381 14.17 13.81 2300 2256 43- 4.99 0.98 1,704- LOW
874 473 15.37 13.59 2111 1875 236- 1.96 0.89 12,558- 146 904 379 13.80 13.48 2227 2177 50- 3.84 0.98 2,322- 828 1,107 264 14.70 14.41 2465 2418 47- 4.56 0.98 2,166- 127 1,133 449 16.25 14.34 2514 2224 290- 2.25 0.88 10,995- 111 11 11 11 11 11 11 11 11 11 11 11 1
904 379 13.80 13.48 2227 2177 50- 3.84 0.98 2,322- 828 1,107 264 14.70 14.41 2465 2418 47- 4.56 0.98 2,166- 127 1,133 449 16.25 14.34 2514 2224 290- 2.25 0.88 10,995- 111 1981 GROUP AVERAGES. ACCORDING TO NUMBER OF COWS: THIRDS 1,005 304 12.99 13.87 2100 2240 141 10.34 1.07 45,163 HIGH 1,072 326 14.58 14.07 2318 2246 71- 4.17 0.97 9,099- MED 997 381 14.17 13.81 2300 2256 43- 4.99 0.98 1,704- LOW
1,107 264 14.70 14.41 2465 2418 47- 4.56 0.98 2,166- 127 1,133 449 16.25 14.34 2514 2224 290- 2.25 0.88 10,995- 111 1981 GROUP AVERAGES. ACCORDING TO NUMBER OF COWS: THIRDS 1,005 304 12.99 13.87 2100 2240 141 10.34 1.07 45,163 HIGH 1,072 326 14.58 14.07 2318 2246 71- 4.17 0.97 9,099- MED 997 381 14.17 13.81 2300 2256 43- 4.99 0.98 1,704- LOW
1,133 449 16.25 14.34 2514 2224 290- 2.25 0.88 10,995- 111 1981 GROUP AVERAGES. ACCORDING TO NUMBER OF COWS: THIRDS 1,005 304 12.99 13.87 2100 2240 141 10.34 1.07 45,163 HIGH 1,072 326 14.58 14.07 2318 2246 71- 4.17 0.97 9,099- MED 997 381 14.17 13.81 2300 2256 43- 4.99 0.98 1,704- LOW
1981 GROUP AVERAGES. ACCORDING TO NUMBER OF COWS: THIRDS 1,005 304 12.99 13.87 2100 2240 141 10.34 1.07 45,163 HIGH 1,072 326 14.58 14.07 2318 2246 71- 4.17 0.97 9.099- MED 997 381 14.17 13.81 2300 2256 43- 4.99 0.98 1,704- LOW
THIRDS 1,005 304 12.99 13.87 2100 2240 141 10.34 1.07 45,163 HIGH 1,072 326 14.58 14.07 2318 2246 71- 4.17 0.97 9,099- MED 997 381 14.17 13.81 2300 2256 43- 4.99 0.98 1,704- LOW
THIRDS 1,005 304 12.99 13.87 2100 2240 141 10.34 1.07 45,163 HIGH 1,072 326 14.58 14.07 2318 2246 71- 4.17 0.97 9,099- MED 997 381 14.17 13.81 2300 2256 43- 4.99 0.98 1,704- LOW
THIRDS 1,005 304 12.99 13.87 2100 2240 141 10.34 1.07 45,163 HIGH 1,072 326 14.58 14.07 2318 2246 71- 4.17 0.97 9,099- MED 997 381 14.17 13.81 2300 2256 43- 4.99 0.98 1,704- LOW
1,005 304 12.99 13.87 2100 2240 141 10.34 1.07 45,163 HIGH 1,072 326 14.58 14.07 2318 2246 71- 4.17 0.97 9,099- MED 997 381 14.17 13.81 2300 2256 43- 4.99 0.98 1,704- LOW
1,072 326 14.58 14.07 2318 2246 71- 4.17 0.97 9,099- MED 997 381 14.17 13.81 2300 2256 43- 4.99 0.98 1,704- LOW
997 381 14.17 13.81 2300 2256 43- 4.99 0.98 1,704- LOW
ANNUAL AUEDAGES ALL ENTS LIESTED TO THE STATE OF THE STAT
AMMUAL AVERAGES, ALL ENTR. DETCHTER DV NUMBER DE COUC.
ANNUAL AVERAGES. ALL ENTR. WEIGHTED BY NUMBER OF COWS:
1,001 323 13.38 13.89 2158 2237 79 7.89 1.04 12,346 1981
881 320 11.74 13.15 1957 2182 225 10.64 1.11 34,711 1980
796 281 10.47 12.19 1713 1978 265 10.77 1.15 39,786 1979
700 050 0 50 70 00
695 229 9.58 9.90 1413 1460 47 5.07 1.03 6,085 1977

STANCHION BARN HERDS DAIRY COWS, 1981 COSTS AND RETURNS PER DAIRY COW 720 COWS ON 9 COST ACCOUNT FARMS

ITEM	ERAG	E PER COW
COSIS: DEPRECIATION		\$ 174
FEED - 5.161 LBS CF DRY GRAIN \$ 5 1.9 TONS OF HIGH MOISTURE CORN 1 1.0 TONS OF HAY	58 70 58 41	1,066
LABOR - 73 HOURS	·	358
BEDDING	18 23 44 50 87 19	828
TOTAL COSTS		\$ 2,426
RETURNS: 15,970 POUNDS OF MILK SOLD \$2,2 112 POUNDS OF MILK USED ON FARM CALVES OTHER RETURNS	16 96	\$ 2,360
PROFII:	,	\$ 66-
OTHER FACTORS - AVG PER CWT OF MILK: ALL GRAIN COST TOTAL FEED COS LABOR COST TOTAL COST RETURNS	T	6.63 2.23
MILK PRODUCED PER HOUR OF LABOR		221 LB
RETURN PER HOUR OF LABOR RETURN PER DOLLAR OF COST	\$	4.01 0.97

13

FREESTALL BARN HERDS

DAIRY COWS, 1981

COSTS AND RETURNS PER DAIRY COW 2,850 CCWS ON 13 COST ACCOUNT FARMS

ITEM	AVERAGE	PER C	OW
COSIS: DEPRECIATION		\$	180
FEED - 3,570 LBS CF DRY GRAIN 2.3 TONS OF HIGH MOISTURE CORN 0.4 TONS OF HAY	192 21 153 166 56		985
LABOR - 45 HOURS	· -		314
TRACTOR, TRUCK	15 23 38 61 11 28 30 6 82 78 111		611
TOTAL COSTS		\$ 2,	090
RETURNS: 15,273 POUNDS OF MILK SOLD	10 77 4	\$ 2 ₉	
PROFILE	स्वान व्यापन		110
OTHER FACTORS - AVG PER CWT OF MILK: ALL GRAIN TOTAL FEED LABOR COST	COST		
TOTAL COST RETURNS		13.09 13.85	
MILK PRODUCED PER HOUR OF LABOR	i i	337 L	.В
RETURN PER HOUR OF LABOR RETURN PER DOLLAR OF COST	\$	9.46 1.06	

14 FACTORS FROM 23 DAIRY COW ENTERPRISES 22 COST ACCOUNT FARMS, 1981 (ARRANGED BY NUMBER OF COWS)

ور بورد جبب نکت سند کک			۔ دے دی ہیں۔ جب، د	MILK		EEED	PER	COW		VET
		MILK	LABOR	PER		HIGH		HAY		MED
FARM	HERD	PER	PER	HR OF	DR Y	MSTR		CROP	CORN	COST/
_NO	_SIZE	<u>C</u> _DM_	_COM_	LABOR_	_GBAIN			SILG	_SILG_	COM_
	NO	LB	HR	LB	LB	TN	TN	TN	TN	\$
10 STA	NCHION	BARN HER	DS				•	-		· · · · · · · · · · · · · · · · · · ·
, was departured and the same		1								
105	113	16,031		203	7,841	, ,	.7	4.4	7.4	74
111 208	101 98	17,220		235 2 4 6	2,535	4.5	•4 •8	11.9	2.7 9.8	11 64
203	96	16,115		262	7,388 7,396		.7	4.5	10.0	
867	68	19,007		266	2,441	4.0	2.1	4.6	4.9	53
153	60	16,255		236	3.033	4.2	1.7	7.2	4.5	8
146	53	13,358		111	4,830	1.8	.7	4.5	3.7	35
828	47	15,474		180	723	4.7	1.5	6.7	3.0	108
127	46	16,128		339	6,304		1.2		11.7	36
111	38	15,150	71	213	5,579	1.2	2.2	2.6	9.2	16
ANNUAL	_AVERA	AGES.A	LL_EN]	R. WEI	GHIED_E	Y NUM	BER_C	E_COW	<u>S </u>	
1981	72	16,082	73	221	5,161	1.9	1.0	5.8	6.8	50
1980	56	15,002		191	3,582	2.2	1.3	4.7	7.3	28
1979	51	14,337		180	4,922	1.1	2.4	2.4	5.9	28
1978	51	14,178		160	3,741	1.4	1.7		4.4	30
1977	53	13,503		150	4,050	1.5	1.7	4.1	6.3	23
	نب بند نک دید کا حک		~~~~~			·———·				
13 FRE	ESTALL	BARN HER	<u>DS</u>							•
834	604	14,312	2 41	353	964	4.1	. 1	7.3	7.3	22
827	395	15,608		346	2,304	1.8	• 3		7.3	35
812	292	19,437		505	6,952			5.6	12.3	62
806	263	15,648		410	2,821		- 1	4.5	8.0	32
824	217	14,499		353	1,806		• 1	5.3	4.0	57
830	187	16,226		275	3,775			10.6	2.4	36
821 840	148 146	13,394		271 342	4,838 6,767	2.2	.7	3.2	11.6	21
804	142	14,052		278	6,423		•1	5.8	13.4	45 47
105	131	14,776		239	3,099	4.5	.4 1.0	5.0 4.1	10.6 5.7	47 50
835	130	13,353		303	4,785		•9		6.7	50 67
112	111	16,740		281	5,802		1.2		7.6	21
836	84	14,552		263	6,238		2.2	,,,,	8.0	32
ANNUAL	_AVER	AGES. A	LL EN	IR. WEI	GHIED_I	BY_NUM	BER_	DE_COW	S:	
	:									
1981 1980	21 9 208	15,345 16,031		337 336	3,570	2.3	• 4		7.9	38
					3,666	2.3	• 5	4.3	7.3	35 30
1977	193									
1979 1978 1977	208 203 193	15,521 15,197 14,534	44	333 348 314	4,463 4,460 4,322	1.8 1.5 1.7	•4 •4 •5		8.3 8.3 7.8	38 33 27

See note on name 8

FACTORS FROM 23 DAIRY COW ENTERPRISES 22 COST ACCOUNT FARMS, 1981 (READ ACROSS BOTH PAGES)

*TOTA WATER SECOND SHEELED SE				195000 COO COO COO 1950 B	యా ముదు అవిరుగారున్నా ధ్యాఖ్యాచా			Deliminality order consequence with		
	COST		G PER		VERAGI		REIUE	<u>N PER</u>	PROFIT	
	R COW		TOF		<u>ER_COI</u>	DO COMPANY AND AND	HOUR	\$	ON	
	EOR		ILK			PRO-	OF	OF	ENTER-	FARM
			<u>REĮURN</u>		<u>IUBN</u>		LABOE		_PRISE	NQ
\$	\$	\$	\$	\$	\$. \$. \$	\$	\$	
					2 P	₩				
10 0		NAT DADAT	TITIDE C						•	
<u>10 2</u>	TANCHIC	ON BARN	HEKUS							
A - 4 971					~~~	001		0.07		105
		16.16			2329	391-	0.18	0.86	44,169-	
1,094		12.97			2582 2308	273 161-	9.69 1.82	1:12 0.93	27,510 15,747-	111 208
1,138		15.69 15.46			2487	128-	2.67	0.95	12,256-	203
1,066		12.06			2697	292	8.59	1.12	19,859	867
1,037		12.49			2156	87	6.05	1.04	5,221	153
874		15.37			1875	236-	1.96	0.89		146
904		13.80			2177	50-	3.84	0.98	2,322-	828
1,107		14.70			2418	47-	4.56	0.98	2,166-	127
1,133		16.25		2514	2224	290-	2.25	0.88	10,995-	111
									•	
anni	ATTY?	ERAGES	LALL.	ENIR.	<u>WEIGE</u>	IED_B)		R_DE_C	OM2:	
1 04/	250	1/ /7	1/0/	2/2/	2270		. A3	0.07	. 741_	1001
1,066		14.47			2360		4.01	0.97 1.04	4,761- 4,589	
868 812		12.81			2109 1806	83 52	5.88 4.59	1.03	2,662	
669		10.25			1550	31	3.83		1,566	
709		10.77	9.67		1345	148-	1.69	0.90	7,911-	
	500	*****	200	25 9 2 22	a,					
13 F	REESTAL	L BARN	HERDS							
050	201	10 /7	10 75	1000	2012		10 07	1 00	00 155	224
958 827		12.67 12.77					10.87		-	
1,192			13.55		2243	177 152	12.12 14.14	1.09	69,696	827 812
944			14.71		2380	336	16.03	1.16	44,364 88,558	806
788			13.19		2008	191	10.36		41,454	824
1,058			13.82		2359	180	8,39		33,632	830
1,140			14.32		2001	128-			18,969-	
1,127			13.74		2165	65			9,411	840
1,069			14.84		2176	87-	5.28	0.96	12,396-	804
1,045			13.98		2141					
1,084			13.87				3.69	0.97	6,766- 5,051	835
			12.93					1.02	5,051	112
711	534	13.26	13.39	1988	2007	19	9.97	1.01	1,581	836
									•	
AAIAU	IAF AS	/ED & ^ = ^		CAITO	UF TO	iten o	V A1111455	n or c	OUC •	
ANNI	TAT"	<u>(CKAGE)</u>	S.ALL_	ENTR	_WELUE	ITEN B.	T NAURE	K UF C	<u>nm7;</u>	
985	314	13.00	13.85	2000	2206	116	9.46	1.06	25,507	1981
883			13.14		2198	250	11.80		52,012	
793			12.22		2003	296	12.29		61,442	
716			10.92			228	10.78		46,209	
692	213		9.95		1486	91	6.56	1.06	17,538	1977
									•	

HEIFERS, 1981 COSTS PER HEIFER EQUIVALENT 1,288 MATURE-HEIFER EQUIVALENTS ON 20 COST ACCOUNT FARMS*

ITEM	AVERAGE PER HEIFER RAISED TO 26.3 MONT	
VALUE OF CALF AT BIRTH	- \$ 1	1.8
FEED - MILK AND MILK REPLACER	-s 18	0
1,584 POUNDS OF DRY GRAIN	- 137	
0.4 TONS OF HIGH MOISTURE CORN	- 26	
1.1 TONS OF HAY		
2.7 TONS OF HAY CROP SILAGE	- 72	
6.8 TONS OF CORN SILAGE		
PASTURE AND ALL OTHER FEED		
TOTAL FEED COSTS	- 4	92
LABOR - 24 HOURS	-	.49
TRACTOR, TRUCK	- 36	
EQUIPMENT	- 15	
BEDDING	- 15	
BREEDING	- 12	
VET AND MEDICINE		
UTILITIES		
INSURANCE	- 8	
INTEREST	- 103	
BUILDING USE	- 68	
ALL OTHER		
TOTAL OTHER THAN CALF, FEED, LABOR	- 34	43
TOTAL COSTS - TO RAISE A HEIFER TO 26.3 MONTHS OF AGE	- \$1,10	00

^{*}THERE WERE A TOTAL OF 2,861 HEIFERS OF ALL AGES ON THESE FARMS FOR A PART OR ALL OF THE YEAR. THEY WERE FED A TOTAL OF 33,875 NET HEIFER-MONTHS, WHICH, DIVIDED BY 26.3 MONTHS OF AGE AT FRESHENING EQUALS 1,288 MATURE-HEIFER EQUIVALENTS. (HEIFERS RAISED ON CONTRACT ARE NOT INCLUDED.)

FACTORS FROM 20 HEIFER ENTERPRISES 20 COST ACCOUNT FARMS, 1981 (ARRANGED BY NUMBER OF HEIFERS)

			AVERAGE	NET COST	* PER	HEIFER	RETUR	N PER
	NUMBER	LABOR	AGE AT	PER		ΑT	HOUR	\$
FARM	CF	PER	FRESH-	HÉIFER		SHENING	OF	OF
_NQ	_HEIFERS_		ENING			YALUE_	<u>LABOR</u>	
	NO	HR	МО	\$	\$	\$	\$	\$
834	564	5	27	35	1,057	900	17.32-	0.71
827	337	7	25	36	1,000	1,050	8.10	1.00
812	257	6	24	40	1,062	1,300	24.28	1.17
806	171	8	26	33	996	1,000	7.17-	0.74
830	163	12	25	42	1,221	1,100	4.90-	0.78
824	159	24	28	40	1,282	1,200	3.86	0.93
840	140	11	32	40	1,367	1,200	3.17-	0.79
111	127	17	29	47	1,462	1,100	2.25	0.91
821	123	7	25	30	866	800	8.04-	0.78
835	117	10	25	34	941	1,000	2.38	0.94
804	103	7	24	39	1,C73	1,050	10.57	1.04
105	55	15	27	39	1,405	1,600	2.38-	0.81
112	96	10	26	37	1,111	1,100	6.13	1.03
105	95	23	25	39	1,065	1,000	0.69	0.79
836	64	18	30	38	1,224	900	1.29	0.69
867	53	18	24	40	1,120	1,000	7.23	1.08
146	52	23	28	32	978	734	2.13-	0.67
127	48	7	24	42	1,189	1,200	10.88-	0.78
828	47	11	27	22	696	800	2.08	0.91
153	46	25	27	40	1,179	850	3.99-	0.59
		RAGES.	ACCORDING.	_IC_NUMBER	R_OE_HE	IEERS:		
THIRD		1.1	27	38	1 1/1	1 100	0 52	0.87
	H 256	11	26		1,141		0.53 1.82	0.92
- MED		11		38	1,143	1,109		
LOW	58	18	26	36	1,065	927	0.81-	0.79
AUNUA	L_AVERAGE	S- ALL I	ENIR ₁ _WEI	GHIED_BY_N	NUMBER_	OE HETE	ERS:	
1981	151	11	26	37	1,100	1,051	0.25	0.87
1980	139	11	26	35	1,042	1,105	5.94	0.99
1979	120	12	27	34	1,048	960	3.97	0.96
1978	124	12	27	29	862	789	2.23	0.92
1977	113	13	27	25	739	605	2.23 1.43-	0.78
							エッサノー	0.70

^{*} Value of calf excluded.

Note - After two years of similar costs of raising heifers to freshening age, costs increased about five percent in 1981 to \$1,100 per heifer. Values for bred heifers, ready to freshen, declined about five percent during the year. These two factors caused heifer enterprise profits to retreat from the near break-even situation of 1980.