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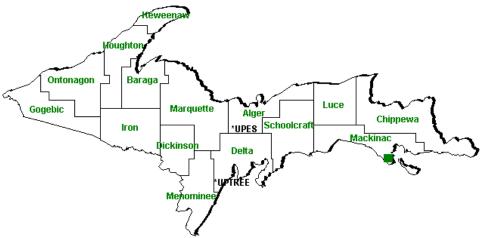
## Staff Paper

Dairy Farms in Michigan's U. P., 1999

Sherrill B. Nott

Staff Paper 2000-22

**July 2000** 





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#### DAIRY FARMS IN MICHIGAN'S U. P., 1999

#### Michigan Data from Telfarm/MicroTel, and Farm Credit Services Staff Paper No. 2000-22, 15 pages

by

#### Sherrill B. Nott<sup>1</sup>

#### Introduction

The body of this report is organized as follows:

- I. Introduction and Table of Contents for Upper Peninsula (U. P.) Dairy Farms
  - A. List of Tables
  - B. Data Source
  - C. Worksheet for per unit costs
- II. List and sequence of Tables
  - A. Averages of 16 U. P. Dairy Farms

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#### **Data Source**

Farm types were assigned using the 1992 Census of Agriculture's Standard Industrial Classification (SIC) definitions. Basically, any farm with 50 percent or more of value of farm sales from one item becomes a farm of that type. Dairy farms have 50 percent or more of value of combined sales from milk and cull dairy animals.

This report is a summary of the financial and production records kept by U.P. dairy farmers enrolled in the Telfarm/MicroTel record program through Michigan State University Extension, or were accounting clients of Farm Credit Services. Farm records were included if a Finan<sup>2</sup> summary was

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Finan = financial analysis, one of the parts of Finpack, a financial software package from the Center for Farm Financial Management at the University of Minnesota.

completed on 1999 data including beginning and ending balance sheets, plus income and expenses. The summary was included if cash discrepancy was less than 10% of gross cash inflow, and if the debt discrepancy was less than \$1,000. The averages are reported in the tables below; it should be recognized that considerable variability exist in the data. The unweighted mean of the net farm income for the 16 farms was \$113,431; the standard deviation of the mean was \$78,760 and the median was \$99,815. The unweighted mean of acres cropped (owned plus rented) was 716.3 acres; the standard deviation of the mean was 384 acres and the median was 658 acres. The unweighted mean of milk sold per cow for the 16 farms was 17,746 lbs.; the standard deviation of the mean was 3,210 lbs. and the median was 17,124 lbs.

This report has two purposes: 1) to provide statistical information about the financial results on U.P. dairy farms during 1999; and 2) to provide production costs for comparative analysis and forward planning.

Finansum allows rapid analysis of group averages with some degree of choice over how the results are presented. I prefer to show the average of the high or low 25 percent by net income, but only if the 25 percent means 6 or more farms. In order to get at least 6 farms, I increased the percentage to 38 for the U. P. dairy farms. The farm was accepted in the average regardless of whether the farm was a proprietorship, partnership, limited liability company, or corporation. Finansum will produce a variety of report options; I included a subset in this publication.

The farms included in the averages below were not a random sample. They kept their financial records on a supervised system and received a variety of off-farm management help. The averages may be representative of bigger and better managed U. P. dairy farms.

This document may be found and downloaded from the following:

http://www.msu.edu/user/nott

## Livestock and Crop Production Summary, 1999 Dairy Farms in Michigan's U. P.

	Average Of All Farms	Average Of Low 38 %	_
DAIRY  Number of farms  Avg. number of Cows  Milk produced per Cow  Percent of barn capacit  Avg. milk price per cwt	y 101.7	6 69.2 15,065 99.3 15.15	6 127.2 24,647 109.9 15.13
ACREAGE SUMMARY			
Total Crop Acres Crop Acres Owned Crop Acres Cash Rented Crop Acres Share Rented	380 239 141 -	132 66 66 -	676 439 237 -
AVERAGE YIELD PER ACRE Hay, Alfalfa (ton) Haylage, Alfalfa (ton) Hay, Mixed (ton) Corn (bu.) Corn Silage (ton) Barley (bu.) Hay, Native Grass (ton) Oatlage (ton) Haylage, Mixed (ton)	3.48 3.08 2.38 113.69 12.34 47.80 3.07 5.08 2.81	- - - - - - -	- - - - - - -

## FARM INCOME STATEMENT, 1999

## Dairy Farms in Michigan's U. P.

	Average Of All Farms	Average Of Low 38%	Average Of High 38%
Number of Farms	16	6	6
CASH FARM INCOME			
Barley	223	_	595
Cordwood	775	_	1677
Corn	1141	2127	612
Alfalfa Hay	1497	_	3993
Mixed Hay	1631	3882	417
Straw	256	337	_
Custom Fed Beef	231	_	617
Milk	344304	157812	474304
Dairy Calves	1264	976	712
Dairy Steers	8187	8647	9570
Cull breeding livestock	11547	6576	15849
Other government payment	s 45106	24303	59045
Custom work income	5880	1891	13364
Patronage dividends, cas	sh 3329	317	4643
Insurance income	1389	2500	-
Other farm income	20977	10277	32948
Gross Cash Farm Income	447738	219644	618344

## FARM INCOME STATEMENT, 1999 (Continued) Dairy Farms in Michigan's U. P. (Farms sorted by Net Farm Income)

	Average Of All Farms	Average Of Low 38%	Average Of High 38%
Number of Farms	16	6	6
CASH FARM EXPENSE			
Seed	9755	4361	14915
Fertilizer	23666	13892	40030
Crop chemicals	5909	2369	6308
Crop insurance	164	10	306
Drying fuel	659	1758	_
Crop miscellaneous	427	_	1139
Feeder livestock purchase	125	334	_
Purchased feed	82643	34303	117679
Breeding fees	2552	1506	3703
Veterinary	10361	2238	12619
Livestock supplies	17792	10449	25308
Livestock marketing	9076	4868	14024
Interest	18076	10054	12169
Fuel & oil	10441	4178	16513
Repairs	32636	21038	40544
Custom hire	8573	3454	9084
Hired labor	49934	9314	74342
Land rent	7460	6841	7773
Machinery & bldg leases	7121	5976	12847
Real estate taxes	5169	3628	5454
Farm insurance	4757	4283	4703
Utilities	8955	5116	10382
Dues & professional fees	2936	4209	1794
Miscellaneous	10754	5115	13851
Total cash expense	329941	159295	445486
Net cash farm income	117796	60349	172858
INVENTORY CHANGES			
Crops and feed	20563	7319	35871
Market livestock	1194	1106	2042
Accounts receivable	-3428	-4637	-2534
Prepaid expenses and supplie	es 6191	553	11715
Accounts payable	192	-38	-4067
Total inventory change	24712	4304	43027
Net operating profit	142508	64653	215885
DEPRECIATION AND OTHER CAPITAL	ADJUSTMENTS	S	
Breeding livestock	23589	5875	45825
Machinery and equipment	-35321	-20170	-55449
Buildings and improvements	-16225	-9504	-13388
Other farm capital	-1120	777	-449
Total depr. & other capital ad	lj -29077	-23021	-23461
Net farm income	113431	41632	192425

## INVENTORY CHANGES, 1999

## Dairy Farms in Michigan's U. P.

	Average Of All Farms	_	Average Of High 38%
Number of Farms	16	6	6
Net cash farm income	117796	60349	172858
CROPS AND FEED Ending inventory Beginning inventory	86625 66063	47089 39769	122277 86407
Inventory change	20563	7319	35871
MARKET LIVESTOCK Ending inventory	15326	15642	20875
Beginning inventory	14132	14537	18833
Inventory change	1194	1106	2042
ACCTS RECEIVABLE & OTH	ER CURRENT	ASSETS	
Ending inventory	19401	10194	15945
Beginning inventory	22829		18479
Inventory change	-3428	-4637	-2534
PREPAID EXPENSES AND S			
Ending inventory	14415	11889	20360
Beginning inventory	8225	11335	8644
Inventory change	6191	553	11715
ACCOUNTS PAYABLE			
Beginning inventory	2658	51	2180
Ending inventory	2466	89	6247
Inventory change	192	-38	-4067
Total inventory change	24712	4304	43027
Net operating profit	142508	64653	215885

	Average Of All Farms	Average Of Low 38%	Average Of High 38%
Number of Farms	16	6	6
Net operating profit	142508	64653	215885
BREEDING LIVESTOCK			
Ending inventory	242970	106754	352617
Capital sales	1632	1000	_
Beginning inventory	214587	101663	306792
Capital purchases	6426	217	_
Depreciation, capital adj.	23589	5875	45825
MACHINERY AND EQUIPMENT			
Ending inventory	117113	56628	158948
Capital sales	2710	167	-
Beginning inventory	101071	54383	121184
Capital purchases	54073	22581	93213
Depreciation, capital adj.	-35321	-20170	-55449
BUILDINGS AND IMPROVEMENTS			
Ending inventory	89517	39902	81515
Capital sales	_	_	-
Beginning inventory	94850	36747	88732
Capital purchases	10892	12658	6171
Depreciation, capital adj.	-16225	-9504	-13388
OTHER CAPITAL ASSETS			
Ending inventory	14755	8974	24826
Capital sales	13924	14732	21798
Beginning inventory	18042	22929	18596
Capital purchases	11757	_	28477
Depreciation, capital adj.	-1120	777	-449
Total depreciation, cap. adj	29077	-23021	-23461
Net farm income	113431	41632	192425

## PROFITABILITY AND LIQUIDITY ANALYSIS, 1999 Dairy Farms in Michigan's U. P.

	Avg. Of All Farms	Avg. Of Low 38%	Avg. Of High 38%	Avg. Of All Farms	Avg. Of Low 38%	Avg. Of High 38%
Number of Farms	16	6	6	16	6	6
PROFITABILITY		- Cost			- Market	
Net farm income	113431	41632	192425	149663	72912	211650
Labor & mgmt earnings	92339	29341	156058	106759	40680	150483
Rate of return on assets	12.1 %	1.1 %	17.1 %	11.4 %	5.0 %	12.9 %
Rate of return on equity		-2.8 %	21.1 %	13.5 %	4.7 %	14.5 %
Operating profit margin		2.2 %		28.2 %	18.3 %	27.4 %
Asset turnover rate	62.8 %	52.3 %	70.7 %	40.2 %	27.6 %	47.1 %
Interest on farm net wor	th 21092	12291	36367	42904	32233	61168
Farm interest expense	18076	10054	12169	18076	10054	12169
Value of operator lbr &	mgmt.52964	47430	64324	52964	47430	64324
Return on farm assets	78543	4255	140270	114775	35536	159495
Average farm assets	647688	371937	822531	1011216	704300	1235868
Return on farm equity	60467	-5799	128101	96699	25482	147326
Average farm equity Value of farm production	351540 406887	204851 194670	606122 581869	715068 406887	537214 194670	1019458 581869
			erage Of ll Farms	Average Of Low 38%	Average O High 38%	
Number of Farms		<del></del>	16	6	6	_
LIQUIDITY (Cash	•		110000	60240	150050	
Net cash farm			117796	60349	172858	
Net nonfarm i			6050	3321	4062	
Family living	and taxes		52410	33520	81164	
Real estate pr	rincipal pa	ayments	13313	1752	31957	
Cash available	e for inte	rm. debt.	58124	28398	63799	
Average inter			112637	91465	119123	
Average inter	ilediate del		112037	91403	119123	
Years to turn	over inter	m. debt	1.9	3.2	1.9	
Expense as a <sup>9</sup>	of income	е	74 %	73 %	72 %	
Interest as a	% of incom	me	4 %	5 %	2 %	
LIQUIDITY (Accr	ual)					
Total accrual	•	me	466067	223432	653723	
Total accrual			323559	158779	437837	
Net accrual o		ncome	142508	64653	215885	
Net nonfarm i	ncome		6050	3321	4062	
Family living	and taxes		52410	33520	81164	
Real estate pr	rincipal pa	ayments	13313	1752	31957	
Available for		_		32702	106826	
Average inter			112637	91465	119123	
Years to turn	over inter	m. debt	1.4	2.8	1.1	
Expense as a			69 %	71 %	67 %	
Interest as a			4 %	4 %	2 %	
incerest as a	2 OT THEO	lli <b>C</b>	4 6	4 6	∠ %	

## BALANCE SHEET AT COST VALUES, 1999

#### Dairy Farms in Michigan's U. P.

	Averag All F		Average Low 38		Average High 38	
Number of Farms	1	6	6	<del></del>		6
:	Beginning	Ending	Beginning	Ending	Beginning	Ending
ASSETS						
Current Farm Assets						
Cash and checking balance	2388	1291	10501	6765	-3106	-3799
Prepaid expenses & supplies	8225	14415	11335	11889	8644	20360
Growing crops	6820	6774	_	_	8479	8232
Accounts receivable	14537	10779	14241	9688	10000	6500
Hedging accounts	_	_	_	_	_	_
Crops held for sale or feed	66063	86625	39769	47089	86407	122277
Crops under government loan		_	_	_	_	_
Market livestock held for s		15326	14537	15642	18833	20875
Other current assets	1471	1848	590	506	=	1214
Total current farm assets	113637	137060	90973	91578	129257	175658
Intermediate Farm Assets						
Breeding livestock	214587	242970	101663	106754	306792	352617
Machinery and equipment	101071	117113	54383	56628	121184	158948
Other intermediate assets	6194	8524	789	369	15098	19563
Total intermediate assets	321852	368608	156835	163751	443074	531128
Long-Term Farm Assets	321032	300000	130033	103731	113071	331120
Farm land	70181	81593	52342	81002	92583	94355
Buildings and improvements	94850	89517	36747	39902	88732	81515
Other long-term assets		6231	22140		3498	
-	11849			8605		5263
Total long-term farm assets	176879	177341	111229	129509	184812	181134
Total Farm Assets	612368	683008	359037	384838	757143	887920
Total Nonfarm Assets	7112	7348	3566	3566	14766	15396
Total Assets	619480	690356	362603	388404	771909	903316
LIABILITIES						
Current Farm Liabilities						
Accrued interest	_	_	_	_	_	_
Accounts payable	2658	2466	51	89	2180	6247
Current notes	12534	4889	20449	_	2638	8295
Government crop loans		_		_		-
Principal due on term debt	17843	19589	3516	5174	42274	45115
Total current farm liabilit		26944	24016	5262	47092	59658
Intermediate Farm Liabilities	107463	108627	94927	84460	99965	117332
Long-term Farm Liabilities	154820	161409	44293	81214	60833	47940
Total Farm Liabilities	295318	296980	163237	170937	207890	224929
Total Falm Blabilities	255510	250500	103237	170557	207050	221727
Total Nonfarm Liabilities	-	_	-	_	-	-
Total Liabilities	295318	296980	163237	170937	207890	224929
Net Worth (farm and nonfarm)	324163	393377	199366	217468	564019	678386
Net Worth Change	324103	69214	199300	18102	304019	114368
_		J/211		10102		111300
RATIO ANALYSIS						
Current Farm Liabilities/As		20 %	26 %	6 %	36 %	34 %
Curr. & Interm Farm Liab/As		27 %	48 %	35 %	26 %	25 %
Long Term Farm Liab./Assets	88 %	91 %	40 %	63 %	33 %	26 %
Total Liabilities/Assets	48 %	43 %	45 %	44 %	27 %	25 %

## BALANCE SHEET AT MARKET VALUES, 1999

## Dairy Farms in Michigan's U. P.

	Averag All Fa		Average Low 38		Average High 3	
Number of Farms	16		6	<del></del>	6	
	Beginning	Ending	Beginning	Ending	Beginning	Ending
ASSETS						
Current Farm Assets						
Cash and checking balance	2388	1291	10501	6765	-3106	-3799
Prepaid expenses & supplies		14415	11335	11889	8644	20360
Growing crops	6820	6774	=	_	8479	8232
Accounts receivable	14537	10779	14241	9688	10000	6500
Hedging accounts			_		_	
Crops held for sale or feed		86625	39769	47089	86407	122277
Crops under government loan		15206	- 14525	-	-	-
Market livestock held for		15326	14537	15642	18833	20875
Other current assets	1471	1848	590	506	-	1214
Total current farm assets	113637	137060	90973	91578	129257	175658
Intermediate Farm Assets	016530	040070	101662	106754	211000	250617
Breeding livestock	216538	242970	101663	106754	311992	352617
Machinery and equipment	192817 22756	211612	152278 789	168592 369	217943 15932	255332 20397
Other intermediate assets Total intermediate assets	432111	25087 479669	254730	275715	545867	628345
Long-Term Farm Assets	432111	4/9009	254/30	2/5/15	343007	020345
Farm land	288486	318268	224583	260610	349446	357550
Buildings and improvements	110796	121051	83333	96333	133039	144053
Other long-term assets	12751	8604	22140	8605	3259	5263
Total long-term farm assets		447924	330057	365548	485743	506866
Total Farm Assets	957780	1064652	675759	732842	1160867	1310869
TOTAL PALM ASSECS	937760	1004032	073739	732042	1100007	1310009
Total Nonfarm Assets	30763	33211	25478	26744	21433	22062
Total Assets	988543	1097864	701237	759586	1182300	1332932
LIABILITIES						
Current Farm Liabilities						
Accrued interest	_	_	_	_	_	_
Accounts payable	2658	2466	51	89	2180	6247
Current notes	12534	4889	20449	_	2638	8295
Government crop loans	-	-	_	_	_	_
Principal due on term debt	17843	19589	3516	5174	42274	45115
Total current farm liabilit		26944	24016	5262	47092	59658
Intermediate Farm Liabilities		108627	94927	84460	99965	117332
Long-term Farm Liabilities	154820	161409	44293	81214	60833	47940
Total Farm Liabilities	295318	296980	163237	170937	207890	224929
Total Nonfarm Liabilities	_	_	_	_	_	_
Total Deferred Liabilities		_	_	_	_	
Total Liabilities	295318	296980	163237	170937	207890	224929
Not Worth (form and nonform)	693226	800884	538000	588649	974409	1108002
Net Worth (farm and nonfarm)	093220		536000		9/4409	133593
Net Worth Change		107658		50649		133333
RATIO ANALYSIS						
Current Farm Liabilities/Asse	ets 29 %	20 %	26 %	6 %	36 %	34 %
Curr. & Interm Farm Liab./Ass		22 %	34 %	24 %	22 %	22 %
Long Term Farm Liabilities/As		36 %	13 %	22 %	13 %	9 %
Total Liabilities/Assets	30 %	27 %	23 %	23 %	18 %	17 %
100d1 Didbilicicb/Abbccb	50 8	۷, ٥	25 6	25 8	10 0	±, °

## STATEMENT OF CASH FLOWS, 1999

## Dairy Farms in Michigan's U. P.

		rerage Of All Farms	Average Of Low 38%	Average Of High 38%
Number of Farms		16	6	6
(a) Beginning cash balance (farm &	nonfai	rm) 2388	10501	-3106
CASH FROM OPERATING ACTIVITIES				
Gross cash farm income		447738	219644	618344
Net nonfarm income	(+)	6050	3321	4062
Total cash farm expense	( - )	329941	159295	445486
Apparent family living expense	(-)	44195	33038	61450
Income and social security tax	( - )	8215	482	19714
(b) Cash from operations	( = )	71437	30150	95756
CASH FROM INVESTING ACTIVITIES				
Sale of breeding livestock		1632	1000	_
Sale of machinery & equipment	(+)	2710	167	_
Sale of farm land	(+)	_	_	_
Sale of farm buildings	(+)	_	_	_
Sale of other farm assets	(+)	13924	14732	21798
Sale of nonfarm assets	(+)	13	_	33
Purchase of breeding livestock	(-)	6426	217	_
Purchase of machinery & equip.	( - )	54073	22581	93213
Purchase of farm land	( - )	11266	21992	8050
Purchase of farm buildings	( - )	10892	12658	6171
Purchase of other farm assets	( - )	11757	_	28477
Purchase of nonfarm assets	( - )	13	_	33
(c) Cash from investing activities	( = )	-76148	-41549	-114113
CASH FROM FINANCING ACTIVITIES				
Money borrowed		66847	75372	81961
Cash gifts and inheritances	(+)	1780	_	4747
Principal payments	( - )	64992	67099	68989
Dividends paid	( - )	-	-	-
Gifts given	( - )	20	_	54
(d) Cash from financing activities	( = )	3614	7663	17665
(e) Net change in cash balance	(b+c+c	d) -1097	-3736	-693
Ending cash balance (farm & nonfa	arm)	1291	6765	-3799

## FINANCIAL GUIDELINES MEASURES, 1999

#### Dairy Farms in Michigan's U. P.

(Farms sorted by Net Farm Income)

		rage Of L Farms	Averag Low 3		Average High 3	
Number of Farms		16		6		6
LIQUIDITY Current ratio Working capital	Beginning 3.44 80603	_	Beginning 3.79 66956	Ending 17.40 86316	Beginning 2.74 82165	
SOLVENCY (Market) Farm debt to asset ratio Farm equity to asset ratio Farm debt to equity ratio	31 %	28 %	Beginning 24 % 76 % 32 %	Ending 23 % 77 % 30 %	Beginning 18 % 82 % 22 %	Ending 17 % 83 % 21 %
PROFITABILITY Rate of return on farm ass Rate of return on farm equ Operating profit margin Net farm income	ity 17.2 %	Market 11.4 % 13.5 % 28.2 % 149663	Cost 1.1 % -2.8 % 2.2 % 41632	Market 5.0 % 4.7 % 18.3 % 72912	Cost 17.1 % 21.1 % 24.1 % 192425	12.9 % 14.5 % 27.4 %
REPAYMENT CAPACITY  Term debt coverage ratio  Capital replacement margin	Cash 446 % n 53594	Accrual 606 % 78305	Cash 604 % 26634	Accrual 685 % 30938	Cash 291 % 53482	Accrual 445 % 96509
Asset turnover rate (marked Operating expense ration Depreciation expense ration Interest expense ration Net farm income ratio	•	40.2 % 65.5 % 6.2 % 3.9 % 24.3 %		27.6 % 66.6 % 10.3 % 4.5 % 18.6 %		47.1 % 65.1 % 3.6 % 1.9 % 29.4 %

#### LABOR ANALYSIS

	verage Of All Farms	Average Of Low 38 %	Average Of High 38 %
Number of Farms	16	6	6
Total unpaid labor hours	5128	5485	6056
Total hired labor hours	4298	1224	6770
Total labor hours per farm	n 9426	6709	12826
Value of farm production/h	our 43.16	29.02	45.36
Net farm income / unpaid h	our 22.12	7.59	31.77

Table 11 OPERATOR INFORMATION & NONFARM SUMMARY, 1999

Dairy Farms in Michigan's U. P.

Average Of All Farms	Average Of Low 38%	Average Of High 38%
16	6	6
1.6 48.9 21.0	1.5	1.8
3413 - - 1562 7 112 1780 956 7830	2998 - - 215 1 33 - 74 3321	- - 1555 - 233 4747 2274 8808
Of All Farms	Peginning	Ending
	- 811 1500 3425 1263 - 21027 2737	811 1250 3787 2000 - 22625 2737 33211
	1.6 48.9 21.0 3413 - 1562 7 112 1780 956 7830	All Farms Low 38%  1.6 6  1.6 1.5 48.9 21.0  3413 2998  1562 215 7 1 112 33 1780 - 956 74 7830 3321  Of All Farms  Beginning  811 1500 3425 1263 - 21027

#### **Per Unit Income and Expense**

Table 12 gives the per acre and per cow cash income, cash expense and depreciation for the 16 dairy farms. They had an unweighted average of 656.1 acres. These included owned acres plus land cash and share rented. All of the 16 farms reported total acres cropped. Some did not report acres of individual crops. Those reporting crop acres and yields averaged to have 380 crop acres as reported in Table 1. Table 12, then, is biased towards larger crop enterprises.

Table 12. Average Income and Expense Items, Michigan, 1999

Per Cow and Per Acre, U. P. Dairy Farms

Number of Cows	108.80	Your
Total Crop Acres	<u>716.30</u>	<u>Farm</u>
<b>Income Items per Cow:</b>		
Milk sold	\$3,165	
Cull cows, bulls	\$5,105 106	
Dairy steers	75	
Dairy steers Dairy calves	12	
Other cash income	758	
Expense Items per Cow:	130	
Purchased feed	\$760	
Breeding fees	23	
Veterinary	95 164	
Livestock supplies	164	
Livestock leases	0	
Livestock marketing	83	
Interest	166	
Fuel and oil	96	
Repairs	300	
Custom hire	79	
Hired labor	459	
Land rent	69	
Leases	65	
Real estate taxes	48	
Farm insurance	44	
Utilities	82	
Dues, professional fees	27	
Miscellaneous	100	
Machinery depreciation	325	
Buildings depreciation	149	
<b>Expense Items per Crop Acre:</b>		
Seed	\$13.62	
Fertilizer	33.04	
Crop chemicals	8.25	
Crop insurance	0.23	
Crop miscellaneous	1.52	
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