June 28th, 2023 E.B. 2023-08



Progress of the Dairy Farm Report

Selected Financial and Production Factors

Average of All Farms
Less Than 500 Cows
500 to 999 Cows
1,000 to 1,499 Cows
1,500 Cows and Greater

New York State, 2022
133 Farms

Jason Karszes Lauren Augello

Agricultural Finance and Management at Cornell
Cornell Dairy Farm Business Summary & Analysis Program
Cornell University
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Progress of the Dairy Farm Report Selected Financial and Production Factors Dairy Farm Business Summary 133 New York State Dairy Farms, 2022 June 2023

Jason Karszes and Lauren Augello¹

The objective of the Dairy Farm Business Summary & Analysis Program (DFBS) is to help farm managers improve the financial management of their dairy farm through appropriate use of historical farm data and the application of modern farm business analysis techniques. This information can also be used to track changes within the business, establish goals that will enable the business to better meet its objectives, compare the performance of the farm to other dairy producers, and establish a basis for financial projection and planned changes within the business. This is the final Progress of the Dairy Farm Report for the 2022 business year and represents the 67th year a summary of New York dairy financial and business performance has been published by Cornell.

Over 150 farms across New York participated in the DFBS for 2022. This report summarizes data for 133 conventional dairy farms that completed the summary for 2022 in which dairy is their main enterprise, with 85% or more of the farm revenue generated from milk sales, dairy cattle, and dairy calf sales. The Progress of the Dairy Farm Report provides averages of selected financial and production measures for 129 New York State Dairy Farms (pages 2-4) that participated in the program for both 2021 and 2022 that had submitted records by June 28th, 2023. The business chart on page 5 reports the data summarizing all 133 farms for 2022. The report is also broken down into four herd size categories to provide additional comparison reports by herd size.

1.	Farms with Less Than 500 Cows	Pages 6-9
2.	Farms with 500 Cows to 999 Cows	Pages 10-13
3.	Farms with 1,000 Cows to 1,499 Cows	Pages 14-17
4.	Farms with 1,500 and Greater	Pages 18-21

To utilize these reports, begin by comparing how your farm changed from 2021 to 2022 to the change in the average of all farms report. Then, determine which herd size group most closely represents your farm and compare your financial and production parameters and change to the averages of that group. This benchmarking tool can be helpful for farm owners and managers to find areas of opportunity and strengths within their businesses. If you are a DFBS participant, you can work with your extension educator to look at these comparisons for all farms and your farm business. For definitions of the different terms in the following tables, please refer to E.B. 2023-07, "Glossary of Terms Associated with the DFBS". This publication and other information for farms interested in participating can be found at: https://cals.cornell.edu/pro-dairy/our-expertise/business/dfbs

These benchmarks and comparisons are provided for comparison purposes only and represent the performance of those farms participating in the Dairy Farm Business Summary and Analysis Program in New York State. These numbers do not represent the average for all dairy farms across New York and are from farms that are generally considered above average dairy farms in New York. No analysis or interpretation of these benchmarks and ratios is provided.

The authors would like to thank the farms that continue to volunteer to participate in this project, the extension educators that work with farms utilizing the DFBS as part of their educational programs, and the financial consultants that work with farms participating in the DFBS.

¹ PRO-DAIRY Program, Department of Animal Science, Cornell University, Ithaca, NY



Same 130 New York Dairy Farms, Average of All Farms, 2021 & 2022, DFBS

	Average of	Percent	
SELECTED FACTORS	2021	2022	Change
Size of Business			
Average number of cows	1,211	1,242	3%
Percent heifers to cows, average for year	75%	73%	-2%
Milk sold, pounds	32,909,396	33,836,557	3%
Worker equivalent	22.7	23.2	2%
Total tillable acres	2,111	2,153	2%
Rates of Production			
Milk sold per cow, pounds	27,176	27,233	0.2%
Hay DM per acre, tons	3.7	3.3	-11%
Corn silage per acre, tons	19.1	18.4	-4%
Labor Efficiency			
Cows per worker	53.4	53.7	0.4%
Milk sold per worker, pounds	1,452,312	1,461,622	0.6%
Cost Control and Milk Price			
Grain & concentrate per cwt. milk	¢c c0	¢7.96	17%
•	\$6.69 \$2,937	\$7.86 \$4,548	_
Net milk income over purchased grain & conc. per cow	\$2,937 \$8.28	\$4,548 \$9.85	55% 19%
Dairy feed & crop expense per cwt. milk	\$8.28 \$1,822		15%
Labor and machinery costs per cow	\$1,822 \$3.07	\$2,101 \$3.25	6%
Hired labor costs per cwt. milk Hired labor costs per worker equivalent		•	6.4%
Total farm operating costs per cwt.	\$50,782 \$18.97	\$54,046 \$22.41	18%
Operating cost of producing milk per cwt.	\$16.97 \$16.23	\$22.41 \$19.79	22%
Purchased input cost of producing milk per cwt.	\$10.23 \$17.71	\$21.37	21%
Total cost of producing milk per cwt.	\$19.92	\$23.75	19%
Net milk price per cwt.	\$18.49	\$25.42	37%
Government receipts per cwt.	\$0.14	\$0.15	10%
	γο.= .	Ψ0.20	
Capital Efficiency (average for year)	¢12.162	¢12 102	00/
Farm capital per cow	\$12,162 \$1,823	\$13,193 \$2,028	8% 11%
Machinery and equipment per cow Asset turnover ratio	۶۱,825 0.53	32,028 0.65	23%
	0.33	0.03	25/0
Profitability Not form in companie with out or provide an	\$698,487	¢1 042 049	1700/
Net farm income without appreciation	\$698,487 \$577	\$1,942,048	178%
Net farm income without appreciation per cow	·	\$1,563	171%
Net farm income with appreciation	\$1,089,995 \$900	\$2,493,557 \$2,007	129%
Net farm income with appreciation per cow	\$80,407	\$566,186	123%
Labor & management income per operator/manager	\$80,407 8.6%	3300,186 19.9%	604% 131%
Rate return on equity capital with appreciation	4.7%	15.0%	217%
Rate return on equity capital without appreciation	6.9%	14.9%	116%
Rate return on all capital with appreciation Rate return on all capital without appreciation	4.2%	11.6%	173%
Financial Summary (based on market value, excluding defer			
	\$10,377,901	\$12,314,644	19%
Farm net worth, end year Debt to asset ratio	\$10,377,901 0.32	\$12,314,644 0.29	-9%
Farm debt per cow	\$3,950	\$4,052	3%
•		34,032 3.16	
Debt coverage ratio	1.4	5.10	126%

¹Farm participating both years



Same 130 New York Dairy Farms, Average of All Farms, 2021 & 2022, DFBS

, , ,	Average of	Percent	
SELECTED FACTORS	2021	2022	- Change
Income Generation			
% Butterfat	4.01%	4.06%	1%
% Protein	3.18%	3.19%	0%
Lbs. of butterfat and protein per cow	1,955	1,975	1%
Component value per cwt.	\$18.62	\$24.36	31%
Net marketing margin per cwt. gross milk	-\$0.73	\$1.08	248%
price	\$19.83	\$27.11	37%
Balance Sheet Analysis			
Working capital as % of operating expenses	28%	33%	18%
Long term debt to asset ratio	0.31	0.31	0%
Intermediate/current debt to asset ratio	0.33	0.29	-12%
Debt to asset ratio, total	0.32	0.29	-9%
Debt Analysis			
Accounts payable as percent of total debt	3%	3%	0%
Long-term debt as percent of total debt	43%	43%	0%
Current & intermediate debt as percent of total debt	57%	57%	0%
Cost of term debt (weighted average)	3.2%	5.0%	56%
Net Worth Change			
Retained earnings	\$312,500	\$1,486,244	376%
Contributed capital	\$85,701	\$64,461	-25%
Valuation equity	\$220,802	\$320,247	45%
Cash Flow	¥ ==0,00=	Ψ0=0/=	1070
Net provided by operating activities, per cow	\$1,178	\$2,498	112%
Net provided by investing activities, per cow	-\$2,016	-\$2,793	-39%
Net provided by financing activates, per cow	\$896	\$2,733	-69%
Net provided by reserves, per cow	-\$52	\$11	122%
Repayment Analysis ⁶	732	711	122/0
• •	\$532	¢E64	69/
Planned debt payments per cow		\$564	6%
Planned debt payments per cwt.	\$1.96 9%	\$2.07 7%	6%
Percent of total receipts	9% 10%	7% 8%	-18% -20%
Percent of milk receipts			
Cash flow coverage ratio	1.01	1.97	94%
Debt coverage ratio	1.40	3.16	125%
Crop Program Analysis	¢1CF	ćaac	270/
Crop input costs per acre	\$165	\$226	37%
Total tillable acres per cow	1.78	1.77	-1%
Total forages acres per cow	1.55	1.56	1%
Harvested dry matter per cow, tons	7.92	7.50	-5%
Percent tillable land owned	52%	53%	1%
Capital and Financial Efficiency	4.0.00	4	
Farm capital per cow	\$12,162	\$13,193	8%
Real estate per cow	\$5,403	\$5,629	4%
Machinery and equipment per cow	\$1,823	\$2,028	11%
Asset turnover	0.53	0.65	23%
Operating expense ratio	0.82	0.74	-10%
Interest expense ratio	0.02	0.02	0%
Depreciation expense ratio	0.07	0.05	-29%

¹ Farm participating both years



Same 130 New York Dairy Farms, Average of All Farms, 2021 & 2022, DFBS

	2021		20	% Change	
Item	Per Cow ¹	Per Cwt.1	Per Cow ¹	Per Cwt.1	Per Cwt.
Average number of cows	1,211		1,242		3%
Cwt. of milk sold		329,094		338,366	3%
ACCRUAL OPERATING RECEIPTS					
Milk	\$5,390	\$19.83	\$7,384	\$27.11	37%
Dairy cattle	\$276	\$1.01	\$347	\$1.28	27%
Dairy calves	\$65	\$0.24	\$100	\$0.37	54%
Other livestock	\$25	\$0.09	\$23	\$0.08	-11%
Crops	\$245	\$0.90	\$148	\$0.54	-40%
Miscellaneous receipts	\$154	\$0.57	\$143	\$0.52	-9%
Total Operating Receipts	\$6,155	\$22.65	\$8,145	\$29.91	32%
ACCRUAL OPERATING EXPENSES					
Hired labor	\$834	\$3.07	\$886	\$3.25	6%
Dairy grain & concentrate	\$1,818	\$6.69	\$2,140	\$7.86	17%
Dairy roughage	\$132	\$0.49	\$138	\$0.51	4%
Nondairy feed	\$0	\$0.00	\$0	\$0.00	NA
Professional nutritional services	\$1	\$0.00	\$1	\$0.00	NA
Machine hire, rent & lease	\$166	\$0.61	\$198	\$0.73	20%
Machine repair & vehicle expense	\$276	\$1.02	\$328	\$1.20	18%
Fuel, oil & grease	\$142	\$0.52	\$251	\$0.92	77%
Replacement livestock	, \$35	\$0.13	\$63	\$0.23	77%
Breeding	\$55	\$0.20	\$64	\$0.23	15%
Veterinary & medicine	\$151	\$0.56	\$159	\$0.58	4%
Milk marketing	\$364	\$1.34	\$460	\$1.69	26%
Bedding	\$95	\$0.35	\$107	\$0.39	11%
Milking supplies	\$93	\$0.34	\$104	\$0.38	12%
Cattle lease	\$2	\$0.01	\$5	\$0.02	100%
Custom boarding	\$90	\$0.33	\$92	\$0.34	3%
BST expense	\$0	\$0.00	\$0	\$0.00	NA
Livestock professional fees	\$20	\$0.07	\$19	\$0.07	0%
Other livestock expense	\$28	\$0.10	\$38	\$0.14	40%
Fertilizer & lime	\$124	\$0.46	\$201	\$0.74	61%
Seeds & plants	\$110	\$0.40	\$121	\$0.44	10%
Spray & other crop expense	\$60	\$0.22	\$77	\$0.28	27%
Crop professional fees	\$00 \$7	\$0.02	\$7	\$0.03	50%
Land, building & fence repair	\$78	\$0.29	\$105	\$0.39	34%
Taxes	\$66	\$0.24	\$67	\$0.24	0%
Real estate rent & lease	\$89	\$0.33	\$81	\$0.30	-9%
Insurance	\$83 \$47	\$0.33 \$0.17	\$59	\$0.22	29%
Utilities	\$99	\$0.17 \$0.37	\$124	\$0.45	22%
Interest paid	\$122	\$0.45	\$154	\$0.56	24%
Other professional fees	\$122 \$24	\$0.43 \$0.09	\$29	\$0.11	22%
Miscellaneous	\$27	\$0.09 \$0.10	\$28	\$0.11 \$0.10	0%
Total Operating Expenses	\$5,155	\$18.97	\$6,103	\$22.41	18%
Expansion livestock	\$3,133 \$22	\$0.08	\$6,103	\$0.18	125%
Extraordinary expenses	\$22 \$2	\$0.08 \$0.01	\$40	\$0.18 \$0.00	-100%
	\$2 \$212	\$0.01 \$0.78	\$235	\$0.00 \$0.86	10%
Machinery depreciation			\$235 <u>\$195</u>		4%
Real estate depreciation Total Expenses	<u>\$188</u> \$5,579	<u>\$0.69</u> \$20.53	\$195 \$6,582	<u>\$0.72</u> \$24.17	18%
Net Farm Income w/o Appreciation	\$577	\$2.12	\$1,563	, \$5.74	171%
1	75,,	72.12	7 - , 5 - 5	7 3.7∃	27 270

¹ Farms participating both years

NA - Percent change could not be calculated



Farm Business Chart

The Farm Business Chart is a tool that can assist in analyzing your business. The five numbers in each column represent the average of each quintile of farms included in the DFBS. You can compare your farm's data to others in the DFBS by drawing a line through or near the number in each column which most closely represents your current level of performance. Each column is sorted independently. Use this information to identify areas of opportunity in your business.

FARM BUSINESS CHART FOR FARM MANAGEMENT COOPERATORS

133 New York Dairy Farms, Average of All Farms, 2022, DFBS

Size of Business			Rates of Production			Labor Efficiency	
				Tons of Hay			Pounds of
Worker		Pounds of	Pounds of Milk	Crop	Tons of Corn	Cows Per	Milk Sold Per
Equivalents	No. of Cows	Milk Sold	Sold Per Cow	DM/Acre	Silage Per Acre	Worker	Worker
(14) ¹	(12)	(12)	(12)	(11)	(11)	(14)	(14)
53.5	2,897	80,167,768	29,941	4.8	22.3	73.1	1,970,725
26.9	1,465	40,661,595	28,205	3.7	19.8	57.0	1,531,212
19.8	1,062	28,776,087	27,185	3.2	18.4	50.7	1,351,016
11.8	610	15,367,434	25,602	2.5	16.9	46.1	1,196,775
4.6	199	4,791,156	20,939	1.4	11.8	35.4	869,775

Cost Control

		% Grain is of		Labor &	Feed & Crop	Feed & Crop	Hired Labor
Grain Bought	Grain Bought	Milk	Machinery	Machinery	Expenses Per	Expenses Per	Cost Per Wkr.
Per Cow	Per Cwt.	Receipts	Costs Per Cow	Costs Per Cow	Cow	Cwt. Milk	Equivalent
(12)	(12)	(12)	(14)	(14)	(12)	(12)	(14)
\$1,435	\$6.08	23	\$806	\$1,630	\$1,910	\$8.14	\$35,416
\$1,933	\$7.32	27	\$1,026	\$1,976	\$2,433	\$9.31	\$48,223
\$2,077	\$7.83	29	\$1,151	\$2,185	\$2,665	\$10.00	\$51,067
\$2,296	\$8.44	31	\$1,295	\$2,414	\$2,888	\$10.58	\$55,124
\$2,634	\$9.69	35	\$1,574	\$2,858	\$3,270	\$12.06	\$64,631

Value of Production	Profitability

		Opr. Cost		% Rate of	Net Farm	Labor &	
		Milk	Total Cost Milk	Return on All	Income	Management	Change in Net
Milk Receipts	Milk Receipts	Production	Production Per	Capital w/o	Without	Income Per	Worth With
Per Cow	Per Cwt.	Per Cwt.	Cwt.	Apprec.	Apprec.	Operator	Apprec.
(12)	(12)	(12)	(12)	(4)	(4)	(4)	(8)
\$8,155	\$29.16	\$16.88	\$21.44	17.3	\$5,068,968	\$1,758,601	\$5,051,953
\$7,647	\$27.65	\$18.55	\$23.27	11.9	\$2,559,978	\$767,420	\$2,498,540
\$7,277	\$27.05	\$20.18	\$24.71	9.6	\$1,320,932	\$382,942	\$1,283,497
\$6,899	\$26.52	\$21.52	\$26.17	7.0	\$645,612	\$174,903	\$628,962
\$5,808	\$25.69	\$24.08	\$30.59	1.6	\$174,845	\$27,188	-\$28,319

Financial Efficiency

							Working
	Machinery	Asset		Debt	Planned Debt		Capital as %
Investment	Investment	Turnover	Operating	Coverage	Payments Per		of Opr.
Per Cow	Per Cow	Ratio	Expense Ratio	Ratio	Cow	Percent Equity	Expense
(14)	(14)	(14)	(14)	(10)	(10)	(7)	(7)
\$9,180	\$989	0.97	0.65	19.95	\$64	95	74
\$11,816	\$1,760	0.71	0.70	3.57	\$385	81	38
\$13,294	\$2,282	0.62	0.75	2.38	\$590	70	28
\$15,175	\$2,786	0.55	0.79	1.75	\$767	62	21
\$19,528	\$4,314	0.43	0.86	-0.27	\$1,020	44	8

¹Page number of the participant's DFBS where the factor is located.



Same 32 New York Dairy Farms, Less Than 500 Cows, 2021 & 2022, DFBS

	Average o	Percent	
SELECTED FACTORS	2021	2022	- Change
Size of Business			
Average number of cows	255	252	-1%
Percent heifers to cows, average for year	79%	75%	-5%
Milk sold, pounds	6,304,044	6,288,203	-0.3%
Worker equivalent	6.1	6.0	-1%
Total tillable acres	600	608	1%
Rates of Production			
Milk sold per cow, pounds	24,731	24,953	0.9%
Hay DM per acre, tons	3.2	2.5	-22%
Corn silage per acre, tons	18.6	18.3	-2%
Labor Efficiency			
Cows per worker	42.1	42.0	-0.2%
Milk sold per worker, pounds	1,040,271	1,048,034	0.7%
	,,	, = =, = =	
Cost Control and Milk Price	¢c 70	ć0.04	4.00/
Grain & concentrate per cwt. milk	\$6.78	\$8.01	18%
Net milk income over purchased grain & conc. per cow	\$2,937	\$4,108	40%
Dairy feed & crop expense per cwt. milk	\$8.56	\$10.33	21%
Labor and machinery costs per cow	\$2,081	\$2,374	14%
Hired labor costs per cwt. milk	\$2.70	\$2.84	5%
Hired labor costs per worker equivalent	\$45,886	\$49,372	7.6%
Total farm operating costs per cwt.	\$19.93	\$23.53	18%
Operating cost of producing milk per cwt.	\$16.99	\$20.87	23%
Purchased input cost of producing milk per cwt.	\$18.74	\$22.79	22%
Total cost of producing milk per cwt.	\$22.49	\$26.86	19%
Net milk price per cwt.	\$19.04	\$24.95	31%
Government receipts per cwt.	\$0.28	\$0.25	-11%
Capital Efficiency (average for year)			
Farm capital per cow	\$12,486	\$13,543	8%
Machinery and equipment per cow	\$2,624	\$2,865	9%
Asset turnover ratio	0.49	0.58	18%
Profitability			
Net farm income without appreciation	\$116,412	\$262,230	125%
Net farm income without appreciation per cow	\$457	\$1,041	128%
Net farm income with appreciation	\$193,482	\$383,248	98%
Net farm income with appreciation per cow	\$759	\$1,521	100%
Labor & management income per operator/manager	\$393	\$67,662	17117%
Rate return on equity capital with appreciation	3.1%	10.3%	232%
Rate return on equity capital without appreciation	-0.3%	5.3%	1633%
Rate return on all capital with appreciation	3.3%	8.5%	158%
Rate return on all capital without appreciation	0.9%	5.0%	467%
Financial Summary (based on market value, excluding defer	red taxes)		
Farm net worth, end year	\$2,298,865	\$2,514,645	9%
Debt to asset ratio	0.3	0.30	0%
Farm debt per cow	\$3,868	\$4,143	7%
Debt coverage ratio	1.15	1.9	65%

¹Farm participating both years



Same 32 New York Dairy Farms, Less Than 500 Cows, 2021 & 2022, DFBS

	Average of	Percent		
SELECTED FACTORS	2021	2022	- Change	
Income Generation				
% Butterfat	4.03%	4.01%	-1%	
% Protein	3.16%	3.15%	0%	
Lbs. of butterfat and protein per cow	1,787	1,782	0%	
Component value per cwt.	\$18.62	\$24.16	30%	
Net marketing margin per cwt. gross	-\$1.07	\$0.55	152%	
milk price	\$20.59	\$26.96	31%	
Balance Sheet Analysis				
Working capital as % of operating expenses	23%	24%	4%	
Long term debt to asset ratio	0.31	0.32	3%	
Intermediate/current debt to asset ratio	0.29	0.28	-3%	
Debt to asset ratio, total	0.3	0.3	0%	
Debt Analysis				
Accounts payable as percent of total debt	3%	4%	33%	
Long-term debt as percent of total debt	46%	47%	2%	
Current & intermediate debt as percent of total debt	54%	53%	-2%	
Cost of term debt (weighted average)	3.5%	5.6%	61%	
Net Worth Change				
Retained earnings	\$26,735	\$127,083	375%	
Contributed capital	\$50,865	\$26,613	-48%	
Valuation equity	\$38,292	\$86,211	125%	
Cash Flow		, ,		
Net provided by operating activities, per cow	\$1,178	\$2,498	112%	
Net provided by investing activities, per cow	-\$2,016	-\$2,793	-39%	
Net provided by financing activates, per cow	\$896	\$278	-69%	
Net provided by reserves, per cow	-\$52	\$11	122%	
Repayment Analysis ⁶	7	Ŧ		
Planned debt payments per cow	\$578	\$609	5%	
Planned debt payments per cwt.	\$2.34	\$2.44	4%	
Percent of total receipts	10%	8%	-17%	
Percent of milk receipts	11%	9%	-20%	
Cash flow coverage ratio	1.11	1.44	30%	
Debt coverage ratio	1.15	1.90	65%	
Crop Program Analysis	1.13	1.50	03/0	
Crop input costs per acre	\$144	\$189	32%	
Total tillable acres per cow	2.35	2.41	3%	
Total forages acres per cow	2.09	2.06	-1%	
Harvested dry matter per cow, tons	9.52	8.50	-11%	
Percent tillable land owned	49%	50%	2%	
Capital and Financial Efficiency	4370	3070	2/0	
	\$12,486	\$13,543	8%	
Farm capital per cow Real estate per cow	\$12,466 \$5,553	\$6,012	8%	
•	\$3,535 \$2,624	\$2,865	9%	
Machinery and equipment per cow	32,624 0.49	92,865 0.58	18%	
Asset turnover	0.49	0.58 0.77	-6%	
Operating expense ratio	0.82	0.77	- 6% 0%	
Interest expense ratio				
Depreciation expense ratio	0.07	0.06	-14%	

¹ Farm participating both years



Same 32 New York Dairy Farms, Less Than 500 Cows, 2021 & 2022, DFBS

	2021		20:	_ % Change	
ltem	Per Cow ¹	Per Cwt.1	Per Cow ¹	Per Cwt.1	Per Cwt.
Average number of cows	255		252		-1%
Cwt. of milk sold		63,040		62,882	-0.3%
ACCRUAL OPERATING RECEIPTS					
Milk	\$5,092	\$20.59	\$6,727	\$26.96	31%
Dairy cattle	\$197	\$0.80	\$242	\$0.97	21%
Dairy calves	\$59	\$0.24	\$52	\$0.21	-13%
Other livestock	\$54	\$0.22	\$33	\$0.13	-41%
Crops	\$252	\$1.02	\$204	\$0.82	-20%
Miscellaneous receipts	<u>\$170</u>	<u>\$0.69</u>	<u>\$139</u>	<u>\$0.56</u>	-19%
Total Operating Receipts	\$5,825	\$23.55	\$7,397	\$29.64	26%
ACCRUAL OPERATING EXPENSES					
Hired labor	\$667	\$2.70	\$710	\$2.84	5%
Dairy grain & concentrate	\$1,676	\$6.78	\$1,999	\$8.01	18%
Dairy roughage	\$97	\$0.39	\$97	\$0.39	0%
Nondairy feed	\$3	\$0.01	\$3	\$0.01	0%
Professional nutritional services	\$0	\$0.00	\$0	\$0.00	NA
Machine hire, rent & lease	\$204	\$0.83	\$218	\$0.88	6%
Machine repair & vehicle expense	\$279	\$1.13	\$324	\$1.30	15%
Fuel, oil & grease	\$145	\$0.59	\$264	\$1.06	80%
Replacement livestock	\$19	\$0.08	\$14	\$0.06	-25%
Breeding	\$51	\$0.21	\$63	\$0.25	19%
Veterinary & medicine	\$141	\$0.57	\$146	\$0.59	4%
Milk marketing	\$382	\$1.55	\$502	\$2.01	30%
Bedding	\$109	\$0.44	\$112	\$0.45	2%
Milking supplies	\$92	\$0.37	\$87	\$0.35	-5%
Cattle lease	\$0	\$0.00	\$0	\$0.00	NA
Custom boarding	\$20	\$0.08	\$19	\$0.07	-13%
BST expense	\$0	\$0.00	\$0	\$0.00	NA
Livestock professional fees	\$25	\$0.10	\$31	\$0.12	20%
Other livestock expense	\$52	\$0.21	\$82	\$0.33	57%
Fertilizer & lime	\$170	\$0.69	\$267	\$1.07	55%
Seeds & plants	\$117	\$0.47	\$124	\$0.50	6%
Spray & other crop expense	\$50	\$0.20	\$69	\$0.28	40%
Crop professional fees	\$7	\$0.03	\$21	\$0.08	167%
Land, building & fence repair	\$71	\$0.29	\$89	\$0.36	24%
Taxes	\$7 <u>9</u>	\$0.32	\$99	\$0.39	22%
Real estate rent & lease	\$102	\$0.41	\$88	\$0.35	-15%
Insurance	\$74	\$0.30	\$94	\$0.38	27%
Utilities	\$91	\$0.37	\$114	\$0.46	24%
Interest paid	\$139	\$0.56	\$170	\$0.68	21%
Other professional fees	\$34	\$0.14	\$32	\$0.13	-7%
Miscellaneous	\$33	\$0.13	\$32 \$32	\$0.13 \$0.13	0%
Total Operating Expenses	\$4,928	\$19.93	\$5,871	\$23.53	18%
Expansion livestock	\$4,528	\$0.02	\$5,871	\$0.02	0%
Extraordinary expenses	\$0 \$0	\$0.02	\$5 \$5	\$0.02	NA
Machinery depreciation	\$255	\$1.03	\$284	\$1.14	11%
Real estate depreciation	\$179	\$1.03 \$0.72	\$190	\$1.14 \$0.76	6%
Total Expenses	\$ <u>5179</u> \$5,368	\$0.7 <u>2</u> \$21.70	\$6,356	\$0.76 \$25.47	17%
Net Farm Income w/o Appreciation	\$457	\$1.85	\$1,041	\$4.17	125%
1	7771	71.00	γ±,0 4 ±	γ 1.1 1	123/0

¹ Farms participating both years



\$2,694

\$10.40

38

Farm Business Chart

The Farm Business Chart is a tool that can assist in analyzing your business. The five numbers in each column represent the average of each quintile of farms included in the DFBS. You can compare your farm's data to others in the DFBS by drawing a line through or near the number in each column which most closely represents your current level of performance. Each column is sorted independently. Use this information to identify areas of opportunity in your business.

FARM BUSINESS CHART FOR FARM MANAGEMENT COOPERATORS

33 New York Dairy Farms, Less Than 500 Cows, 2022, DFBS

9	Size of Business		Ra	Rates of Production		Labor Efficiency	
				Tons of Hay			Pounds of
Worker		Pounds of	Pounds of Milk	Crop	Tons of Corn	Cows Per	Milk Sold Per
Equivalents	No. of Cows	Milk Sold	Sold Per Cow	DM/Acre	Silage Per Acre	Worker	Worker
(14) ¹	(12)	(12)	(12)	(11)	(11)	(14)	(14)
11.8	464	12,048,774	29,938	4.0	22.5	59.8	1,381,057
6.9	322	8,074,111	27,984	3.5	19.8	47.8	1,171,576
5.3	239	5,997,469	24,830	3.0	18.9	41.0	1,063,224
4.2	159	3,724,546	22,693	2.0	16.6	37.0	909,012
2.7	93	2,044,479	17,331	1.3	9.5	26.4	568,692

Cost Control % Grain is of Labor & Feed & Crop Feed & Crop Hired Labor **Grain Bought Grain Bought** Milk Machinery Machinery **Expenses Per Expenses Per** Cost Per Wkr. Per Cow Per Cwt. Receipts Costs Per Cow Costs Per Cow Cow Cwt. Milk Equivalent (12)(12)(12)(14)(14)(12)(12)(14)\$1,164 \$5.94 22 \$899 \$1,872 \$1,585 \$8.21 \$9,598 \$1,691 \$7.39 27 \$1,164 \$2,264 \$2,193 \$9.51 \$42,168 \$2,130 \$8.20 30 \$1,291 \$2,503 \$2,638 \$10.49 \$48,467 33 \$1,438 \$2,951 \$11.29 \$51,283 \$2,354 \$8.91 \$2,732

\$3,251

\$3,440

\$12.87

\$69,150

\$1,669

Value of Production				Profitability			
		Opr. Cost		% Rate of	Net Farm	Labor &	
		Milk	Total Cost Milk	Return on All	Income	Management	Change in Net
Milk Receipts	Milk Receipts	Production	Production Per	Capital w/o	Without	Income Per	Worth With
Per Cow	Per Cwt.	Per Cwt.	Cwt.	Apprec.	Apprec.	Operator	Apprec.
(12)	(12)	(12)	(12)	(4)	(4)	(4)	(8)
\$7,947	\$29.06	\$17.77	\$24.34	10.1	\$540,336	\$249,449	\$637,523
\$7,419	\$28.02	\$19.61	\$26.12	7.2	\$393,711	\$125,747	\$377,772
\$6,687	\$27.36	\$21.07	\$27.80	5.4	\$235,688	\$72,569	\$207,770
\$6,353	\$26.61	\$22.35	\$30.02	1.9	\$143,766	\$22,051	\$104,757
\$4,836	\$25.41	\$25.13	\$35.59	-4.5	\$39,566	-\$31,997	-\$77,045

	Financial Efficiency								
							Working		
	Machinery	Asset		Debt	Planned Debt		Capital as %		
Investment	Investment	Turnover	Operating	Coverage	Payments Per		of Opr.		
Per Cow	Per Cow	Ratio	Expense Ratio	Ratio	Cow	Percent Equity	Expense		
(14)	(14)	(14)	(14)	(10)	(10)	(7)	(7)		
\$9,398	\$1,230	0.90	0.66	5.20	\$65	97	54		
\$12,357	\$2,380	0.65	0.73	2.59	\$440	82	37		
\$14,090	\$3,079	0.57	0.78	1.88	\$640	71	26		
\$15,902	\$3,806	0.51	0.81	1.03	\$790	66	18		
\$22,036	\$5,950	0.33	0.92	-2.60	\$1,033	48	9		

¹Page number of the participant's DFBS where the factor is located.



Same 29 New York Dairy Farms, 500 to 999 Cows, 2021 & 2022, DFBS

	Average o	f 29 Farms ¹	Percent
SELECTED FACTORS	2021	2022	Change
Size of Business			
Average number of cows	704	725	3%
Percent heifers to cows, average for year	72%	69%	-4%
Milk sold, pounds	18,117,178	18,408,300	2%
Worker equivalent	13.5	13.7	1%
Total tillable acres	1,392	1,431	3%
Rates of Production			
Milk sold per cow, pounds	25,740	25,403	-1.3%
Hay DM per acre, tons	3.5	3.2	-9%
Corn silage per acre, tons	18.5	17.5	-5%
Labor Efficiency			
Cows per worker	52.1	53.0	1.9%
Milk sold per worker, pounds	1,340,028	1,346,620	0.5%
Cost Control and Milk Price			
Grain & concentrate per cwt. milk	\$6.58	\$8.03	22%
Net milk income over purchased grain & conc. per cow	\$2,937	\$4,461	52%
Dairy feed & crop expense per cwt. milk	\$8.28	\$10.25	24%
Labor and machinery costs per cow	\$1,878	\$2,108	12%
Hired labor costs per cwt. milk	\$2.94	\$3.08	5%
Hired labor costs per worker equivalent	\$48,465	\$51,030	5.3%
Total farm operating costs per cwt.	\$19.30	\$23.36	21%
Operating cost of producing milk per cwt.	\$16.62	\$20.65	24%
Purchased input cost of producing milk per cwt.	\$18.35	\$22.45	22%
Total cost of producing milk per cwt.	\$21.09	\$25.37	20%
Net milk price per cwt.	\$18.67	\$25.59	37%
Government receipts per cwt.	\$0.26	\$0.19	-26%
Capital Efficiency (average for year)			
Farm capital per cow	\$13,031	\$13,612	4%
Machinery and equipment per cow	\$2,296	\$2,417	5%
Asset turnover ratio	0.48	0.60	25%
Profitability			
Net farm income without appreciation	\$302,143	\$912,055	202%
Net farm income without appreciation per cow	\$429	\$1,259	193%
Net farm income with appreciation	\$567,394	\$1,238,313	118%
Net farm income with appreciation per cow	\$806	\$1,709	112%
Labor & management income per operator/manager	-\$6,888	\$252,811	3770%
Rate return on equity capital with appreciation	6.1%	15.1%	148%
Rate return on equity capital without appreciation	1.9%	10.4%	442%
Rate return on all capital with appreciation	5.2%	11.9%	129%
Rate return on all capital without appreciation	2.3%	8.6%	271%
Financial Summary (based on market value, excluding defer	red taxes)		
Farm net worth, end year	\$6,412,081	\$7,407,751	16%
Debt to asset ratio	0.32	0.28	-13%
Farm debt per cow	\$4,148	\$3,953	-5%
Debt coverage ratio	0.82	2.65	223%

¹Farm participating both years



Same 29 New York Dairy Farms, 500 to 999 Cows, 2021 & 2022, DFBS

•	Average of	Percent		
SELECTED FACTORS	2021	2022	- Change	
Income Generation				
% Butterfat	4.09%	4.16%	2%	
% Protein	3.19%	3.20%	0%	
Lbs. of butterfat and protein per cow	1,878	1,868	-1%	
Component value per cwt.	\$18.82	\$24.71	31%	
Net marketing margin per cwt. gross	-\$0.92	\$0.80	187%	
milk price	\$20.02	\$27.41	37%	
Balance Sheet Analysis				
Working capital as % of operating expenses	24%	30%	25%	
Long term debt to asset ratio	0.36	0.31	-14%	
Intermediate/current debt to asset ratio	0.28	0.25	-11%	
Debt to asset ratio, total	0.32	0.28	-13%	
Debt Analysis				
Accounts payable as percent of total debt	7%	6%	-14%	
Long-term debt as percent of total debt	53%	50%	-6%	
Current & intermediate debt as percent of total debt	47%	50%	6%	
Cost of term debt (weighted average)	3.2%	4.8%	50%	
Net Worth Change				
Retained earnings	-\$61,824	\$717,386	1260%	
Contributed capital	\$84,045	\$46,278	-45%	
Valuation equity	\$202,650	\$214,669	6%	
Cash Flow				
Net provided by operating activities, per cow	\$1,178	\$2,498	112%	
Net provided by investing activities, per cow	-\$2,016	-\$2,793	-39%	
Net provided by financing activates, per cow	\$896	\$278	-69%	
Net provided by reserves, per cow	-\$52	\$11	122%	
Repayment Analysis ⁶				
Planned debt payments per cow	\$509	\$610	20%	
Planned debt payments per cwt.	\$1.98	\$2.40	21%	
Percent of total receipts	9%	8%	-8%	
Percent of milk receipts	10%	9%	-10%	
Cash flow coverage ratio	0.59	1.92	225%	
Debt coverage ratio	0.82	2.65	224%	
Crop Program Analysis				
Crop input costs per acre	\$175	\$241	38%	
Total tillable acres per cow	2.08	2.07	0%	
Total forages acres per cow	1.74	1.73	-1%	
Harvested dry matter per cow, tons	8.21	7.71	-6%	
Percent tillable land owned	57%	56%	0%	
Capital and Financial Efficiency				
Farm capital per cow	\$13,031	\$13,612	4%	
Real estate per cow	\$6,089	\$6,198	2%	
Machinery and equipment per cow	\$2,296	\$2,417	5%	
Asset turnover	0.48	0.60	25%	
Operating expense ratio	0.83	0.75	-10%	
Interest expense ratio	0.02	0.02	0%	
Depreciation expense ratio	0.07	0.06	-14%	

¹ Farm participating both years



Same 29 New York Dairy Farms, 500 to 999 Cows, 2021 & 2022, DFBS

	20)21	20	22	% Change
ltem	Per Cow ¹	Per Cwt. ¹	Per Cow ¹	Per Cwt.1	Per Cwt.
Average number of cows	704		725		3%
Cwt. of milk sold		181,172		184,083	2%
ACCRUAL OPERATING RECEIPTS					
Milk	\$5,153	\$20.02	\$6,962	\$27.41	37%
Dairy cattle	\$284	\$1.10	\$327	\$1.29	17%
Dairy calves	\$46	\$0.18	\$51	\$0.20	11%
Other livestock	\$34	\$0.13	\$18	\$0.07	-46%
Crops	\$173	\$0.67	\$159	\$0.63	-6%
Miscellaneous receipts	<u>\$164</u>	<u>\$0.64</u>	<u>\$151</u>	\$0.59	-8%
Total Operating Receipts	\$5,854	\$22.74	\$7,669	\$30.19	33%
ACCRUAL OPERATING EXPENSES					
Hired labor	\$756	\$2.94	\$781	\$3.08	5%
Dairy grain & concentrate	\$1,695	\$6.58	\$2,041	\$8.03	22%
Dairy roughage	\$85	\$0.33	\$87	\$0.34	3%
Nondairy feed	\$0	\$0.00	\$1	\$0.00	NA
Professional nutritional services	\$0	\$0.00	\$0	\$0.00	NA
Machine hire, rent & lease	\$195	\$0.76	\$228	\$0.90	18%
Machine repair & vehicle expense	\$265	\$1.03	\$308	\$1.21	17%
Fuel, oil & grease	\$145	\$0.56	\$249	\$0.98	75%
Replacement livestock	\$47	\$0.18	\$71	\$0.28	56%
Breeding	\$54	\$0.21	\$56	\$0.22	5%
Veterinary & medicine	\$143	\$0.56	\$152	\$0.60	7%
Milk marketing	\$347	\$1.35	\$462	\$1.82	35%
Bedding	\$105	\$0.41	\$116	\$0.46	12%
Milking supplies	\$96	\$0.37	\$104	\$0.41	11%
Cattle lease	\$0	\$0.00	\$1	\$0.00	NA
Custom boarding	\$55	\$0.21	\$56	\$0.22	5%
BST expense	\$0	\$0.00	\$0	\$0.00	NA
Livestock professional fees	\$19	\$0.07	\$20	\$0.08	14%
Other livestock expense	; \$30	\$0.12	\$41	\$0.16	33%
Fertilizer & lime	\$160	\$0.62	\$256	\$1.01	63%
Seeds & plants	\$115	\$0.45	\$134	\$0.53	18%
Spray & other crop expense	\$70	\$0.27	\$78	\$0.31	15%
Crop professional fees	\$7	\$0.03	\$8	\$0.03	0%
Land, building & fence repair	\$79	\$0.31	\$106	\$0.42	35%
Taxes	\$79	\$0.31	\$77	\$0.30	-3%
Real estate rent & lease	\$64	\$0.25	\$65	\$0.26	4%
Insurance	\$58	\$0.23	\$71	\$0.28	22%
Utilities	\$107	\$0.42	\$131	\$0.51	21%
Interest paid	\$130	\$0.50	\$172	\$0.68	36%
Other professional fees	\$32	\$0.13	\$36	\$0.14	8%
Miscellaneous	\$ <u>28</u>	\$0.11	\$2 <u>8</u>	\$0.11	0%
Total Operating Expenses	\$4,967	\$19.30	\$5,933	\$23.36	21%
Expansion livestock	\$12	\$0.05	\$19	\$0.08	60%
Extraordinary expenses	\$11	\$0.04	\$0	\$0.00	-100%
Machinery depreciation	\$245	\$0.95	\$259	\$1.02	7%
Real estate depreciation	\$19 <u>1</u>	\$0.74	<u>\$198</u>	<u>\$0.78</u>	5%
Total Expenses	\$5,426	\$21.08	\$6,409	\$25.24	20%
Net Farm Income w/o Appreciation	\$429	\$1.67	\$1,259	\$4.95	196%
1					

¹ Farms participating both years

NA - Percent change could not be calculated



\$2,605

\$10.08

36

Farm Business Chart

The Farm Business Chart is a tool that can assist in analyzing your business. The five numbers in each column represent the average of each quintile of farms included in the DFBS. You can compare your farm's data to others in the DFBS by drawing a line through or near the number in each column which most closely represents your current level of performance. Each column is sorted independently. Use this information to identify areas of opportunity in your business.

FARM BUSINESS CHART FOR FARM MANAGEMENT COOPERATORS

30 New York Dairy Farms, 500 to 999 Cows, 2022, DFBS

	Size of Business		Ra	Rates of Production		Labor Efficiency	
				Tons of Hay			Pounds of
Worker		Pounds of	Pounds of Milk	Crop	Tons of Corn	Cows Per	Milk Sold Per
Equivalents	No. of Cows	Milk Sold	Sold Per Cow	DM/Acre	Silage Per Acre	Worker	Worker
(14) ¹	(12)	(12)	(12)	(11)	(11)	(14)	(14)
19.6	953	25,380,513	29,179	5.1	22.0	81.5	2,112,788
16.5	819	21,086,816	27,206	3.5	19.7	59.2	1,464,306
13.7	711	18,366,352	26,220	3.0	18.0	51.5	1,305,455
11.3	626	15,482,479	24,962	2.3	16.0	46.3	1,174,917
8.4	553	12,748,844	19,713	1.4	11.5	40.5	987,494

Cost Control % Grain is of Labor & Feed & Crop Feed & Crop Hired Labor **Grain Bought Grain Bought** Milk Machinery Machinery **Expenses Per Expenses Per** Cost Per Wkr. Per Cow Per Cwt. Receipts Costs Per Cow Costs Per Cow Cwt. Milk Equivalent Cow (12)(12)(12)(14)(14)(12)(12)(14)\$1,461 \$6.24 23 \$802 \$1,552 \$1,976 \$8.34 \$44,545 \$1,961 \$7.41 27 \$997 \$1,925 \$2,425 \$9.56 \$47,128 \$2,012 \$7.78 29 \$1,122 \$2,083 \$2,560 \$10.13 \$48,467 \$8.64 31 \$2,270 \$2,797 \$10.79 \$53,059 \$2,120 \$1,271

\$2,741

\$3,184

\$12.56

\$59,368

\$1,647

	Value of P	roduction		Profitability			
		Opr. Cost		% Rate of	Net Farm	Labor &	
		Milk	Total Cost Milk	Return on All	Income	Management	Change in Net
Milk Receipts	Milk Receipts	Production	Production Per	Capital w/o	Without	Income Per	Worth With
Per Cow	Per Cwt.	Per Cwt.	Cwt.	Apprec.	Apprec.	Operator	Apprec.
(12)	(12)	(12)	(12)	(4)	(4)	(4)	(8)
\$7,915	\$30.18	\$17.02	\$22.49	13.4	\$1,509,089	\$668,767	\$1,627,527
\$7,356	\$27.61	\$19.24	\$24.56	9.9	\$1,138,406	\$309,039	\$1,146,705
\$7,086	\$27.05	\$20.71	\$24.98	8.4	\$857,257	\$269,411	\$979,995
\$6,810	\$26.45	\$22.19	\$26.13	6.8	\$656,864	\$159,619	\$747,911
\$5,641	\$26.15	\$24.94	\$29.59	4.5	\$360,812	\$59,506	\$326,951

	Financial Efficiency								
							Working		
	Machinery	Asset		Debt	Planned Debt		Capital as %		
Investment	Investment	Turnover	Operating	Coverage	Payments Per		of Opr.		
Per Cow	Per Cow	Ratio	Expense Ratio	Ratio	Cow	Percent Equity	Expense		
(14)	(14)	(14)	(14)	(10)	(10)	(7)	(7)		
\$8,974	\$1,073	0.92	0.66	8.36	\$77	97	68		
\$11,768	\$1,816	0.65	0.73	4.01	\$377	87	39		
\$13,291	\$2,389	0.58	0.76	2.14	\$565	74	26		
\$15,027	\$2,770	0.54	0.80	1.72	\$742	59	20		
\$18,217	\$4,103	0.48	0.85	0.87	\$1,090	41	2		

¹Page number of the participant's DFBS where the factor is located.



Same 33 New York Dairy Farms, 1,000 to 1,499 Cows, 2021 & 2022, DFBS

	Average o	f 33 Farms ¹	Percent
SELECTED FACTORS	2021	2022	Change
Size of Business			
Average number of cows	1,204	1,240	3%
Percent heifers to cows, average for year	77%	75%	-3%
Milk sold, pounds	33,541,965	34,557,179	3%
Worker equivalent	23.0	23.4	2%
Total tillable acres	2,138	2,165	1%
Rates of Production			
Milk sold per cow, pounds	27,852	27,860	0.03%
Hay DM per acre, tons	3.6	3.5	-3%
Corn silage per acre, tons	19.3	18.8	-3%
Labor Efficiency			
Cows per worker	52.4	53.1	1.2%
Milk sold per worker, pounds	1,460,887	1,478,698	1.2%
·	, ,	, ,	
Cost Control and Milk Price	¢c 77	ć7 70	4.40/
Grain & concentrate per cwt. milk	\$6.77	\$7.70	14%
Net milk income over purchased grain & conc. per cow	\$2,937	\$4,931	68%
Dairy feed & crop expense per cwt. milk	\$8.40	\$9.83	17%
Labor and machinery costs per cow	\$1,858	\$2,121	14% 6%
Hired labor costs per cwt. milk	\$3.08	\$3.26	
Hired labor costs per worker equivalent	\$50,898 \$10.35	\$54,012	6.1% 17%
Total farm operating costs per cwt.	\$19.25 \$16.47	\$22.43 \$19.70	20%
Operating cost of producing milk per cwt. Purchased input cost of producing milk per cwt.	\$17.95	\$21.27	18%
Total cost of producing milk per cwt.	\$20.10	\$23.55	17%
Net milk price per cwt.	\$20.10 \$18.58	\$25.39	37%
Government receipts per cwt.	\$0.17	\$0.15	-11%
	γ 0.17	Ş0.13	-11/6
Capital Efficiency (average for year)	4	4	
Farm capital per cow	\$12,476	\$13,517	8%
Machinery and equipment per cow	\$1,908	\$2,138	12%
Asset turnover ratio	0.54	0.65	20%
Profitability			
Net farm income without appreciation	\$665,047	\$1,981,666	198%
Net farm income without appreciation per cow	\$552	\$1,598	189%
Net farm income with appreciation	\$1,082,870	\$2,450,506	126%
Net farm income with appreciation per cow	\$899	\$1,976	120%
Labor & management income per operator/manager	\$68,760	\$625,395	810%
Rate return on equity capital with appreciation	8.6%	19.7%	129%
Rate return on equity capital without appreciation	4.4%	15.5%	250%
Rate return on all capital with appreciation	6.9%	14.5%	110%
Rate return on all capital without appreciation	4.1%	11.7%	186%
Financial Summary (based on market value, excluding defer	red taxes)		
Farm net worth, end year	\$10,353,974	\$12,232,940	18%
Debt to asset ratio	0.33	0.32	-3%
Farm debt per cow	\$4,249	\$4,416	4%
Debt coverage ratio	1.4	3.07	119%

¹Farm participating both years



Same 33 New York Dairy Farms, 1,000 to 1,499 Cows, 2021 & 2022, DFBS

, , ,	Average o	Percent	
SELECTED FACTORS	2021	2022	- Change
Income Generation			
% Butterfat	4.00%	4.06%	2%
% Protein	3.17%	3.18%	0%
Lbs. of butterfat and protein per cow	1,998	2,018	1%
Component value per cwt.	\$18.59	\$24.30	31%
Net marketing margin per cwt. gross	-\$0.69	\$1.18	271%
milk price	\$19.93	\$27.00	35%
Balance Sheet Analysis			
Working capital as % of operating expenses	27%	30%	11%
Long term debt to asset ratio	0.35	0.37	6%
Intermediate/current debt to asset ratio	0.32	0.28	-13%
Debt to asset ratio, total	0.33	0.32	-3%
Debt Analysis			
Accounts payable as percent of total debt	3%	3%	0%
Long-term debt as percent of total debt	46%	49%	7%
Current & intermediate debt as percent of total debt	54%	51%	-6%
Cost of term debt (weighted average)	3.3%	4.9%	51%
Net Worth Change	3.375		02,0
Retained earnings	\$335,665	\$1,561,908	365%
Contributed capital	\$74,813	\$51,332	-31%
Valuation equity	\$224,641	\$188,415	-16%
Cash Flow	7224,041	7100,415	10/0
Net provided by operating activities, per cow	\$1,178	\$2,498	112%
Net provided by operating activities, per cow	-\$2,016	-\$2,793	-39%
· · · · · · · · · · · · · · · · · · ·	-32,016 \$896	-\$2,795 \$278	-59% -69%
Net provided by financing activates, per cow	-\$52	\$278 \$11	-09% 122%
Net provided by reserves, per cow	-\$32	\$11	122%
Repayment Analysis ⁶		4	
Planned debt payments per cow	\$605	\$605	0%
Planned debt payments per cwt.	\$2.17	\$2.17	0%
Percent of total receipts	10%	8%	-23%
Percent of milk receipts	11%	8%	-24%
Cash flow coverage ratio	1.03	2.03	97%
Debt coverage ratio	1.40	3.07	120%
Crop Program Analysis			
Crop input costs per acre	\$176	\$252	44%
Total tillable acres per cow	1.88	1.84	-2%
Total forages acres per cow	1.64	1.62	-1%
Harvested dry matter per cow, tons	8.34	8.12	-3%
Percent tillable land owned	47%	49%	3%
Capital and Financial Efficiency			
Farm capital per cow	\$12,476	\$13,517	8%
Real estate per cow	\$5,524	\$5,743	4%
Machinery and equipment per cow	\$1,908	\$2,138	12%
Asset turnover	0.54	0.65	20%
Operating expense ratio	0.83	0.74	-11%
Interest expense ratio	0.02	0.02	0%
Depreciation expense ratio	0.06	0.05	-17%

¹ Farm participating both years



Same 33 New York Dairy Farms, 1,000 to 1,499 Cows, 2021 & 2022, DFBS

	20)21	20	122	% Change
Item	Per Cow ¹	Per Cwt.1	Per Cow ¹	Per Cwt. ¹	Per Cwt.
Average number of cows	1,204		1,240		3%
Cwt. of milk sold		335,420		345,572	3%
ACCRUAL OPERATING RECEIPTS					
Milk	\$5,551	\$19.93	\$7,523	\$27.00	35%
Dairy cattle	\$242	\$0.87	\$385	\$1.38	59%
Dairy calves	\$71	\$0.26	\$106	\$0.38	46%
Other livestock	\$40	\$0.14	\$34	\$0.12	-14%
Crops	\$244	\$0.88	\$164	\$0.59	-33%
Miscellaneous receipts	<u>\$183</u>	<u>\$0.66</u>	<u>\$166</u>	<u>\$0.60</u>	-9%
Total Operating Receipts	\$6,331	\$22.73	\$8,378	\$30.07	32%
ACCRUAL OPERATING EXPENSES					
Hired labor	\$858	\$3.08	\$908	\$3.26	6%
Dairy grain & concentrate	\$1,887	\$6.77	\$2,145	\$7.70	14%
Dairy roughage	\$129	\$0.46	\$148	\$0.53	15%
Nondairy feed	\$0	\$0.00	\$0	\$0.00	NA
Professional nutritional services	\$2	\$0.01	\$2	\$0.01	0%
Machine hire, rent & lease	\$168	\$0.60	\$225	\$0.81	35%
Machine repair & vehicle expense	\$281	\$1.01	\$311	\$1.12	11%
Fuel, oil & grease	\$144	\$0.52	\$249	\$0.90	73%
Replacement livestock	\$15	\$0.05	\$15	\$0.05	0%
Breeding	\$52	\$0.19	\$56	\$0.20	5%
Veterinary & medicine	\$158	\$0.57	\$168	\$0.60	5%
Milk marketing	\$375	\$1.35	\$449	\$1.61	19%
Bedding	\$96	\$0.34	\$109	\$0.39	15%
Milking supplies	\$97	\$0.35	\$103	\$0.37	6%
Cattle lease	\$37 \$4	\$0.01	\$103	\$0.03	200%
Custom boarding	\$117	\$0.42	\$128	\$0.46	10%
BST expense	\$0	\$0.00	\$0	\$0.00	NA
Livestock professional fees	\$21	\$0.00 \$0.08	\$15	\$0.06	-25%
Other livestock expense	\$21 \$24	\$0.08 \$0.09	\$45	\$0.16	78%
Fertilizer & lime	\$130	\$0.09 \$0.47	\$209	\$0.75	60%
Seeds & plants	\$130 \$121	\$0.44	\$126	\$0.45	2%
Spray & other crop expense	\$121 \$62	\$0.44 \$0.22	\$126 \$104	\$0.43 \$0.37	68%
Crop professional fees				\$0.57 \$0.03	
• •	\$12	\$0.04 \$0.30	\$8		-25%
Land, building & fence repair	\$82 \$67	\$0.29	\$117	\$0.42 \$0.24	45%
Taxes Real estate rent & lease		\$0.24	\$68	·	0%
	\$108	\$0.39	\$107	\$0.38	-3%
Insurance	\$53	\$0.19	\$64	\$0.23	21%
Utilities	\$105	\$0.38	\$131	\$0.47	24%
Interest paid	\$140	\$0.50	\$163	\$0.59	18%
Other professional fees	\$24	\$0.09	\$32	\$0.12	33%
Miscellaneous	\$28 \$5.363	<u>\$0.10</u>	\$33	\$0.12	20%
Total Operating Expenses	\$5,363	\$19.25	\$6,249	\$22.43	17%
Expansion livestock	\$5	\$0.02	\$94	\$0.34	1600%
Extraordinary expenses	\$1	\$0.00	\$2	\$0.01	NA
Machinery depreciation	\$214	\$0.77	\$228	\$0.82	6%
Real estate depreciation	\$196 \$5,770	<u>\$0.70</u> \$20.74	\$207 \$6.780	\$0.74 \$24.24	6%
Total Expenses	\$5,779	\$20.74	\$6,780	\$24.34	17%
Net Farm Income w/o Appreciation	\$552	\$1.98	\$1,598	\$5.73	189%

¹ Farms participating both years

NA - Percent change could not be calculated



Farm Business Chart

The Farm Business Chart is a tool that can assist in analyzing your business. The five numbers in each column represent the average of each quintile of farms included in the DFBS. You can compare your farm's data to others in the DFBS by drawing a line through or near the number in each column which most closely represents your current level of performance. Each column is sorted independently. Use this information to identify areas of opportunity in your business.

FARM BUSINESS CHART FOR FARM MANAGEMENT COOPERATORS

34 New York Dairy Farms, 1,000 to 1,499 Cows, 2022, DFBS

	Size of Business		Ra	ites of Product	ion	Labor Efficiency	
				Tons of Hay			Pounds of
Worker		Pounds of	Pounds of Milk	Crop	Tons of Corn	Cows Per	Milk Sold Per
Equivalents	No. of Cows	Milk Sold	Sold Per Cow	DM/Acre	Silage Per Acre	Worker	Worker
(14) ¹	(12)	(12)	(12)	(11)	(11)	(14)	(14)
31.0	1,450	41,424,051	30,125	4.9	22.3	72.2	2,065,634
25.8	1,338	37,746,487	28,630	3.9	20.5	57.1	1,596,691
23.2	1,256	34,440,389	27,862	3.3	19.2	51.7	1,445,091
21.6	1,159	31,860,311	27,162	2.7	17.4	49.3	1,342,117
17.9	1,049	28,732,859	25,686	1.4	11.2	42.3	1,160,770

Cost Control

		% Grain is of		Labor &	Feed & Crop	Feed & Crop	Hired Labor
Grain Bought	Grain Bought	Milk	Machinery	Machinery	Expenses Per	Expenses Per	Cost Per Wkr.
Per Cow	Per Cwt.	Receipts	Costs Per Cow	Costs Per Cow	Cow	Cwt. Milk	Equivalent
(12)	(12)	(12)	(14)	(14)	(12)	(12)	(14)
\$1,727	\$6.31	24	\$779	\$1,571	\$2,256	\$8.32	\$47,217
\$1,989	\$7.24	26	\$988	\$1,958	\$2,603	\$9.28	\$49,833
\$2,146	\$7.71	28	\$1,108	\$2,154	\$2,723	\$9.84	\$52,550
\$2,288	\$8.18	30	\$1,261	\$2,355	\$2,882	\$10.36	\$56,471
\$2,544	\$8.90	33	\$1,506	\$2,729	\$3,246	\$11.37	\$64,689

Value of Production	Profitability
---------------------	---------------

		Opr. Cost		% Rate of	Net Farm	Labor &	
		Milk	Total Cost Milk	Return on All	Income	Management	Change in Net
Milk Receipts	Milk Receipts	Production	Production Per	Capital w/o	Without	Income Per	Worth With
Per Cow	Per Cwt.	Per Cwt.	Cwt.	Apprec.	Apprec.	Operator	Apprec.
(12)	(12)	(12)	(12)	(4)	(4)	(4)	(8)
\$8,318	\$28.85	\$16.58	\$20.67	21.1	\$3,285,164	\$1,941,796	\$3,439,036
\$7,772	\$27.48	\$18.16	\$22.24	13.9	\$2,615,677	\$980,212	\$2,608,535
\$7,474	\$27.01	\$20.10	\$23.72	11.6	\$1,891,302	\$691,623	\$1,823,376
\$7,248	\$26.55	\$21.24	\$24.89	9.0	\$1,387,996	\$454,247	\$1,324,533
\$6,881	\$25.46	\$22.76	\$26.81	6.1	\$1,041,714	\$191,176	\$235,656

Financial Efficiency

				•			Working
	Machinery	Asset		Debt	Planned Debt		Capital as %
Investment	Investment	Turnover	Operating	Coverage	Payments Per		of Opr.
Per Cow	Per Cow	Ratio	Expense Ratio	Ratio	Cow	Percent Equity	Expense
(14)	(14)	(14)	(14)	(10)	(10)	(7)	(7)
\$9,628	\$693	0.98	0.65	33.85	\$86	92	64
\$12,163	\$1,678	0.73	0.70	3.75	\$468	75	38
\$12,994	\$2,266	0.65	0.74	2.70	\$605	67	29
\$15,703	\$2,686	0.58	0.78	1.95	\$834	60	22
\$18,649	\$3,640	0.49	0.83	0.74	\$1,013	44	10

¹Page number of the participant's DFBS where the factor is located.



Same 36 New York Dairy Farms, 1,500 Cows and Greater, 2021 & 2022, DFBS

	Average o	Percent	
SELECTED FACTORS	2021	2022	Change
Size of Business			
Average number of cows	2,475	2,542	3%
Percent heifers to cows, average for year	74%	73%	-1%
Milk sold, pounds	67,894,699	70,091,731	3%
Worker equivalent	44.5	45.8	3%
Total tillable acres	4,009	4,097	2%
Rates of Production			
Milk sold per cow, pounds	27,427	27,573	0.5%
Hay DM per acre, tons	3.9	3.4	-13%
Corn silage per acre, tons	19.2	18.4	-4%
Labor Efficiency			
Cows per worker	55.6	55.5	-0.3%
Milk sold per worker, pounds	1,525,724	1,529,385	0.2%
·	,,	,,	
Cost Control and Milk Price	40.00	ć7.00	400/
Grain & concentrate per cwt. milk	\$6.66	\$7.88	18%
Net milk income over purchased grain & conc. per cow	\$2,937	\$4,827	64%
Dairy feed & crop expense per cwt. milk	\$8.20	\$9.74	19%
Labor and machinery costs per cow	\$1,769	\$2,067	17%
Hired labor costs per cwt. milk	\$3.12	\$3.32	6%
Hired labor costs per worker equivalent	\$51,624	\$55,052	6.6%
Total farm operating costs per cwt.	\$18.69	\$22.11	18%
Operating cost of producing milk per cwt.	\$15.98	\$19.57	22%
Purchased input cost of producing milk per cwt.	\$17.38	\$21.08	21%
Total cost of producing milk per cwt.	\$19.37	\$23.25	20%
Net milk price per cwt.	\$18.37	\$25.44	38%
Government receipts per cwt.	\$0.08	\$0.13	63%
Capital Efficiency (average for year)			
Farm capital per cow	\$11,794	\$12,921	10%
Machinery and equipment per cow	\$1,604	\$1,816	13%
Asset turnover ratio	0.55	0.67	22%
Profitability			
Net farm income without appreciation	\$1,565,816	\$4,228,620	170%
Net farm income without appreciation per cow	\$633	\$1,664	163%
Net farm income with appreciation	\$2,314,412	\$5,420,021	134%
Net farm income with appreciation per cow	\$935	\$2,132	128%
Labor & management income per operator/manager	\$187,374	\$1,008,992	438%
Rate return on equity capital with appreciation	9.8%	22.0%	124%
Rate return on equity capital without appreciation	6.1%	16.8%	176%
Rate return on all capital with appreciation	7.7%	16.5%	114%
Rate return on all capital without appreciation	5.1%	12.9%	151%
Financial Summary (based on market value, excluding defer	red taxes)		
Farm net worth, end year	\$20,775,887	\$25,053,424	21%
Debt to asset ratio	0.31	0.29	-6%
Farm debt per cow	\$3,780	\$3,900	3%
Debt coverage ratio	1.57	3.46	120%

¹Farm participating both years



Same 36 New York Dairy Farms, 1,500 Cows and Greater, 2021 & 2022, DFBS

, , ,	Average o	of 36 Farms ¹	Percent	
SELECTED FACTORS	2021	2022	- Change	
Income Generation				
% Butterfat	4.00%	4.05%	1%	
% Protein	3.18%	3.19%	0%	
Lbs. of butterfat and protein per cow	1,968	1,996	1%	
Component value per cwt.	\$18.60	\$24.32	31%	
Net marketing margin per cwt. gross	-\$0.67	\$1.13	267%	
milk price	\$19.69	\$27.11	38%	
Balance Sheet Analysis				
Working capital as % of operating expenses	31%	36%	16%	
Long term debt to asset ratio	0.28	0.27	-4%	
Intermediate/current debt to asset ratio	0.34	0.30	-12%	
Debt to asset ratio, total	0.31	0.29	-6%	
Debt Analysis				
Accounts payable as percent of total debt	3%	3%	0%	
Long-term debt as percent of total debt	38%	38%	0%	
Current & intermediate debt as percent of total debt	62%	62%	0%	
Cost of term debt (weighted average)	2.9%	4.8%	62%	
Net Worth Change				
Retained earnings	\$846,818	\$3,244,388	283%	
Contributed capital	\$127,981	\$124,787	-2%	
Valuation equity	\$394,136	\$734,172	86%	
Cash Flow	. ,	. ,		
Net provided by operating activities, per cow	\$1,178	\$2,498	112%	
Net provided by investing activities, per cow	-\$2,016	-\$2,793	-39%	
Net provided by financing activates, per cow	\$896	\$278	-69%	
Net provided by reserves, per cow	-\$52	\$11	122%	
Repayment Analysis ⁶	, -	•		
Planned debt payments per cow	\$501	\$531	6%	
Planned debt payments per cwt.	\$1.83	\$1.93	5%	
Percent of total receipts	9%	7%	-19%	
Percent of total receipts Percent of milk receipts	9%	8%	-20%	
Cash flow coverage ratio	1.10	2.00	82%	
Debt coverage ratio	1.57	3.46	120%	
Crop Program Analysis	1.57	3.40	120/0	
Crop input costs per acre	\$167	\$225	34%	
Total tillable acres per cow	1.62	1.61	-1%	
Total finable acres per cow Total forages acres per cow	1.42	1.44	1%	
Harvested dry matter per cow, tons	7.54	7.10	-6%	
Percent tillable land owned	54%	54%	1%	
Capital and Financial Efficiency	54%	34%	170	
	\$11,794	¢12.021	10%	
Farm capital per cow	\$11,794 \$5,178	\$12,921 \$5,414	10% 5%	
Real estate per cow				
Machinery and equipment per cow	\$1,604	\$1,816 0.67	13%	
Asset turnover	0.55	0.67	22%	
Operating expense ratio	0.82	0.73	-11% 0%	
Interest expense ratio	0.02	0.02	0% 179/	
Depreciation expense ratio	0.06	0.05	-17%	

¹ Farm participating both years



Same 36 New York Dairy Farms, 1,500 Cows and Greater, 2021 & 2022, DFBS

Item Per Cow¹ Per Cwt.¹ 3% ACCRUAL OPERATING RECEIPTS Kilk 55,399 \$19,69 \$7,476 \$27.11 38% Dairy cattle \$296 \$1.08 \$345 \$1.25 16% Dairy catives \$66 \$0.24 \$113 \$0.41 71% Other Investock \$13 \$0.05 \$18 \$0.07 40% Crops \$262 \$0.96 \$134 \$0.48 -50% Miscellaneous receipts \$51,328 \$0.50 \$131 \$0.47 -6% Miscellaneous receipts \$51,328 \$0.50 \$131 \$0.47 -6% Miscellaneous receipts \$138 \$0.50 \$131 \$0.47 -6% Miscellaneous receipts \$138 \$0.50 \$131 \$0.42 -6% Dairy grain & Concentrate \$1,828 \$0.66 \$2,173 \$3		20)21	20	_ % Change	
Average number of cows	ltem	Per Cow ¹	Per Cwt.1	Per Cow ¹	Per Cwt.1	 '
ACCRUAL OPERATING RECEIPTS Milk \$5,399 \$19,69 \$7,476 \$27,11 38% Dairy cattle \$296 \$1.08 \$345 \$1.25 16% Dairy catves \$66 \$0.24 \$113 \$0.41 71% Other livestock \$13 \$0.05 \$18 \$0.07 40% Crops \$262 \$0.96 \$134 \$0.48 -50% Miscellaneous receipts \$138 \$0.50 \$131 \$0.47 -6% Miscellaneous receipts \$138 \$0.50 \$131 \$0.47 -6% Miscellaneous receipts \$188 \$0.50 \$131 \$0.47 -6% Miscellaneous receipts \$188 \$0.50 \$131 \$0.47 -6% Miscellaneous receipts \$188 \$0.50 \$131 \$0.47 -6% Total Operating Receipts \$150 \$0.00 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	Average number of cows	2,475				3%
Milk \$5,399 \$19.69 \$7,476 \$27.11 38% Dairy cattle \$296 \$1.08 \$345 \$1.25 16% Dairy cattle \$296 \$1.08 \$345 \$1.25 16% Dairy cattle \$296 \$1.34 \$0.41 71% Other livestock \$13 \$0.05 \$18 \$0.07 40% Crops \$262 \$0.96 \$134 \$0.48 -50% Miscellaneous receipts \$262 \$0.96 \$134 \$0.48 -50% Miscellaneous receipts \$138 \$0.50 \$131 \$0.47 -6% Accault All Cartellaneous receipts \$138 \$0.50 \$131 \$0.47 -6% Accault All Cartellaneous receipts \$138 \$0.50 \$20.50 \$133 \$0.47 -6% Accault Operating Receipts \$1.828 \$6.66 \$2,173 \$7.88 188 188 90 \$1.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0	Cwt. of milk sold		678,947		700,917	3%
Dairy cattle \$296 \$1.08 \$345 \$1.25 \$16% Dairy calves \$66 \$0.24 \$113 \$0.41 71% Other livestock \$13 \$0.05 \$18 \$0.07 40% Crops \$262 \$0.96 \$134 \$0.48 -\$90% Miscellaneous receipts \$138 \$0.50 \$133 \$0.47 -\$6% Miscellaneous receipts \$138 \$0.50 \$131 \$0.47 -\$6% Total Operating Receipts \$66.75 \$22.52 \$8,216 \$29.80 323 ACCRUAL OPERATING EXPENSES Hired labor \$856 \$3.12 \$916 \$3.32 6% Bairy grain & concentrate \$1,828 \$6.66 \$2,173 \$7.88 18% Dairy grouphage \$147 \$0.54 \$148 \$0.54 0% Nondairy feed \$0 \$0.00 \$0 \$0.00 NA Professional nutritional services \$1 \$0.00 \$1 \$0.00 NA	ACCRUAL OPERATING RECEIPTS					
Dairy calves	Milk	\$5,399	\$19.69	\$7,476	\$27.11	38%
Other livestock \$13 \$0.05 \$18 \$0.07 \$0% Crops \$262 \$0.96 \$134 \$0.48 \$0.47 -50% Miscellaneous receipts \$138 \$0.50 \$1331 \$0.47 -6% Total Operating Receipts \$6,175 \$22.52 \$8,216 \$29.80 \$2% ACCRUAL OPERATING EXPENSES Hired labor \$856 \$3.12 \$916 \$3.32 6% Dairy roughage \$147 \$0.54 \$148 \$0.54 0% Nondairy feed \$0 \$0.00 \$0 \$0.00 NA Nordigity feed \$0 \$0.00 \$1 \$0.00 NA Machine repair & Wehicle expense \$155 \$0.57 \$177 \$0.64 12% Machine repair & Wehicle expense \$176 \$1.01 \$340 \$1.23 22% Fuel, oil & grease \$140 \$0.51 \$87 \$0.32 133 \$0.00 NA Replacement livestock \$42 \$	Dairy cattle	\$296	\$1.08	\$345	\$1.25	16%
Crops \$262 \$0.96 \$134 \$0.48 -50% Miscellaneous receipts \$133 \$0.50 \$131 \$0.47 -6% Total Operating Receipts \$6.175 \$22.52 \$8,216 \$29.80 32% ACCRUAL OPERATING EXPENSES Hired labor \$856 \$3.12 \$916 \$3.32 6% Dairy grain & concentrate \$1,828 \$6.66 \$2,173 \$7.88 18% Dairy grain & concentrate \$1,828 \$6.66 \$2,173 \$7.88 18% Nondairy feed \$0 \$0.00 \$0 \$0.00 NA Nondairy feed \$0 \$0.00 \$1 \$0.00 NA Machine hire, rent & lease \$155 \$0.57 \$177 \$0.64 12% Machine repair & vehicle expense \$276 \$1.01 \$340 \$1.23 22% Machine repair & vehicle expense \$155 \$0.51 \$271 \$0.64 12% Replacement livestock \$42 \$0.15 \$87 </td <td>Dairy calves</td> <td>\$66</td> <td>\$0.24</td> <td>\$113</td> <td>\$0.41</td> <td>71%</td>	Dairy calves	\$66	\$0.24	\$113	\$0.41	71%
Miscellaneous receipts \$138 \$0.50 \$131 \$0.47 -6% Total Operating Receipts \$6,175 \$22.52 \$8,216 \$29.80 32% ACCRUAL OPERATING EXPENSES Hired labor \$856 \$3.12 \$916 \$3.32 6% Dairy grain & concentrate \$1,828 \$6.66 \$2,173 \$7.88 18% Nondairy feed \$0 \$0.00 \$0 \$0.00 NA Professional nutritional services \$1 \$0.00 \$1 \$0.00 NA Machine ire, rent & lease \$155 \$0.57 \$177 \$0.64 12% Machine ire, rent & lease \$150 \$0.55 \$177 \$0.64 12% Machine ire, rent & lease \$150 \$0.55 \$177 \$0.64 12% Machine ire, rent & lease \$150 \$0.55 \$177 \$0.64 12% Machine ire, rent & lease \$150 \$0.55 \$157 \$0.57 \$178 Machine ire, rent & lease \$150 \$0.55 \$157	Other livestock	\$13	\$0.05	\$18	\$0.07	40%
Total Operating Receipts \$6,175 \$22.52 \$8,216 \$29.80 32% ACCRUAL OPERATING EXPENSES Hired labor \$856 \$3.12 \$916 \$3.32 6% Dairy grain & concentrate \$1,828 \$6.66 \$2,173 \$7.88 18% Dairy roughage \$147 \$0.54 \$148 \$0.54 0% Nondairy feed \$0 \$0.00 \$0 \$0.00 NA Professional nutritional services \$1 \$0.00 \$0 \$0.00 NA Machine Fire, rent & lease \$155 \$0.57 \$177 \$0.64 12% Machine repair & vehicle expense \$140 \$0.51 \$340 \$1.23 22% Fuel, oil & grease \$140 \$0.51 \$340 \$1.23 22% Fuel, oil & grease \$140 \$0.51 \$340 \$1.23 22% Fuel, oil & grease \$140 \$0.51 \$340 \$1.23 22% Fuel, oil & grease \$140 \$0.51 \$340	Crops	\$262	\$0.96	\$134	\$0.48	-50%
ACCRUAL OPERATING EXPENSES Hired labor \$856 \$3.12 \$916 \$3.32 6% Dairy grain & concentrate \$1,828 \$6.66 \$2,173 \$7.88 18% Dairy grain & concentrate \$1,828 \$6.66 \$2,173 \$7.88 18% Nondairy feed \$0 \$0.00 \$0.00 \$0 \$0.00 NA Professional nutritional services \$1 \$0.00 \$1 \$0.00 NA Machine hire, rent & lease \$155 \$0.57 \$177 \$0.64 12% Machine hire, rent & lease \$155 \$0.57 \$177 \$0.64 12% Machine repair & vehicle expense \$276 \$1.01 \$340 \$1.23 22% Machine repair & vehicle expense \$140 \$0.51 \$251 \$0.91 78% Replacement livestock \$42 \$0.15 \$87 \$0.32 113% Breeding \$56 \$0.21 \$69 \$0.25 19% Veterinary & medicine \$150 \$0.55 \$157 \$0.57 4% Milk marketing \$362 \$1.32 \$461 \$1.67 27% Bedding \$90 \$0.33 \$103 \$0.37 12% Milking supplies \$90 \$0.33 \$106 \$0.38 15% Cattle lease \$2 \$0.01 \$4 \$0.01 \$0.66 Custom boarding \$92 \$0.33 \$90 \$0.33 \$0.6 \$0.38 15% Custom boarding \$92 \$0.33 \$90 \$0.33 \$0.00 NA Livestock professional fees \$19 \$0.07 \$19 \$0.07 \$0% Other livestock expense \$28 \$0.10 \$31 \$0.11 \$0.06 Charle Relating \$100 \$0.00 \$0.00 \$0.00 NA Evity Stock professional fees \$19 \$0.07 \$19 \$0.07 \$0% Other livestock expense \$57 \$0.21 \$65 \$0.22 \$11% Spray & other crop expense \$57 \$0.21 \$65 \$0.23 \$10% Seeds & plants \$103 \$0.38 \$115 \$0.42 \$11% Spray & other crop expense \$57 \$0.21 \$65 \$0.23 \$10% Crop professional fees \$19 \$0.07 \$0.20 \$0.00 \$	Miscellaneous receipts	<u>\$138</u>	<u>\$0.50</u>	<u>\$131</u>	\$0.47	-6%
Hired labor \$856 \$3.12 \$916 \$3.32 6% Dairy grain & concentrate \$1,828 \$6.66 \$2,173 \$7.88 18% Dairy grain & concentrate \$1,828 \$6.66 \$2,173 \$7.88 18% Only protection of the pr	Total Operating Receipts	\$6,175	\$22.52	\$8,216	\$29.80	32%
Dairy grain & concentrate \$1,828 \$6.66 \$2,173 \$7.88 18% Dairy roughage \$147 \$0.54 \$148 \$0.54 \$0% Nondairy feed \$0 \$0.00 \$0 \$0.00 NA Professional nutritional services \$1 \$0.00 \$1 \$0.00 NA Machine repair & vehicle expense \$155 \$0.57 \$177 \$0.64 \$12% Machine repair & vehicle expense \$276 \$1.01 \$340 \$1.23 \$22% Fuel, oil & grease \$140 \$0.51 \$251 \$0.91 78% Replacement livestock \$42 \$0.15 \$87 \$0.32 \$113% Breeding \$56 \$0.21 \$69 \$0.25 \$19% Veterinary & medicine \$150 \$0.55 \$157 \$0.57 4% Milk marketing \$362 \$1.32 \$461 \$1.67 27% Bedding \$90 \$0.33 \$103 \$0.37 \$127 Milkinig suppli	ACCRUAL OPERATING EXPENSES					
Dairy roughage \$147 \$0.54 \$148 \$0.54 0% Nondairy feed \$0 \$0.00 \$0 \$0.00 NA Professional nutritional services \$1 \$0.00 \$1 \$0.00 NA Machine hire, rent & lease \$155 \$0.57 \$177 \$0.64 12% Machine repair & vehicle expense \$276 \$1.01 \$340 \$1.23 22% Fuel, oil & grease \$140 \$0.51 \$251 \$0.91 78% Replacement livestock \$42 \$0.15 \$87 \$0.32 \$113% Breeding \$56 \$0.21 \$69 \$0.25 \$19% Veterinary & medicine \$150 \$0.55 \$157 \$0.57 4% Milk marketing \$362 \$1.32 \$461 \$1.67 27% Bedding \$90 \$0.33 \$103 \$0.37 \$12% Milking supplies \$90 \$0.33 \$106 \$0.38 \$15% Cattle lease \$2	Hired labor	\$856	\$3.12	\$916	\$3.32	6%
Nondairy feed \$0 \$0.00 \$0 \$0.00 NA Professional nutritional services \$1 \$0.00 \$1 \$0.00 NA Machine hire, rent & lease \$155 \$0.57 \$177 \$0.64 12% Machine repair & vehicle expense \$276 \$1.01 \$340 \$1.23 22% Fuel, oil & grease \$140 \$0.51 \$251 \$0.91 78% Replacement livestock \$42 \$0.15 \$87 \$0.32 \$113% Breeding \$56 \$0.21 \$69 \$0.25 \$19% Veterinary & medicine \$150 \$0.55 \$157 \$0.57 4% Milk marketing \$362 \$1.32 \$461 \$1.67 27% Bedding \$90 \$0.33 \$103 \$0.37 \$12% Milking supplies \$90 \$0.33 \$106 \$0.38 \$15% Cattle lease \$2 \$0.01 \$4 \$0.01 \$0 Cattle lease \$2	Dairy grain & concentrate	\$1,828	\$6.66	\$2,173	\$7.88	18%
Professional nutritional services \$1 \$0.00 \$1 \$0.00 NA Machine hire, rent & lease \$155 \$0.57 \$177 \$0.64 12% Machine repair & vehicle expense \$276 \$1.01 \$340 \$1.23 22% Fuel, oil & grease \$140 \$0.51 \$251 \$0.91 78% Replacement livestock \$42 \$0.15 \$87 \$0.32 \$13% Breeding \$56 \$0.21 \$69 \$0.25 \$19% Veterinary & medicine \$150 \$0.55 \$157 \$0.57 4% Milk marketing \$362 \$1.32 \$461 \$1.67 27% Bedding \$90 \$0.33 \$103 \$0.37 \$12% Milking supplies \$90 \$0.33 \$103 \$0.37 \$12% Cattle lease \$2 \$0.01 \$4 \$0.01 \$0% Custom boarding \$92 \$0.33 \$90 \$0.33 \$00 \$0 ST expense	Dairy roughage	\$147	\$0.54	\$148	\$0.54	0%
Machine hire, rent & lease \$155 \$0.57 \$177 \$0.64 12% Machine repair & vehicle expense \$276 \$1.01 \$340 \$1.23 22% Fuel, oil & grease \$140 \$0.51 \$251 \$0.91 78% Replacement livestock \$42 \$0.15 \$87 \$0.32 \$113% Breeding \$56 \$0.21 \$69 \$0.25 \$19% Veterinary & medicine \$150 \$0.55 \$157 \$0.57 4% Milk marketing \$362 \$1.32 \$461 \$1.67 27% Bedding \$90 \$0.33 \$103 \$0.37 \$12% Milking supplies \$90 \$0.33 \$106 \$0.38 \$15% Cattle lease \$2 \$0.01 \$4 \$0.01 \$0 Cattle lease \$2 \$0.01 \$4 \$0.01 \$0 Cattle lease \$2 \$0.01 \$4 \$0.01 \$0 Custom boarding \$92 \$0.33	Nondairy feed	\$0	\$0.00	\$0	\$0.00	NA
Machine repair & vehicle expense \$276 \$1.01 \$340 \$1.23 22% Fuel, oil & grease \$140 \$0.51 \$251 \$0.91 78% Replacement livestock \$42 \$0.15 \$87 \$0.32 \$113% Breeding \$56 \$0.21 \$69 \$0.25 \$19% Veterinary & medicine \$150 \$0.55 \$157 \$0.57 4% Milk marketing \$362 \$1.32 \$461 \$1.67 27% Bedding \$90 \$0.33 \$103 \$0.37 12% Milking supplies \$90 \$0.33 \$106 \$0.38 15% Cattle lease \$2 \$0.01 \$4 \$0.01 0% Cattle lease \$2 \$0.01 \$0 <td>Professional nutritional services</td> <td>\$1</td> <td>\$0.00</td> <td>\$1</td> <td>\$0.00</td> <td>NA</td>	Professional nutritional services	\$1	\$0.00	\$1	\$0.00	NA
Fuel, oil & grease \$140 \$0.51 \$251 \$9.91 78% Replacement livestock \$42 \$0.15 \$87 \$0.32 \$13% Breeding \$56 \$0.21 \$69 \$0.25 \$19% Veterinary & medicine \$150 \$0.55 \$157 \$0.57 4% Milk marketing \$362 \$1.32 \$461 \$1.67 27% Bedding \$90 \$0.33 \$103 \$0.37 \$12% Milking supplies \$90 \$0.33 \$106 \$0.38 \$15% Cattle lease \$2 \$0.01 \$4 \$0.01 0% Custom boarding \$92 \$0.33 \$90 \$0.33 0% BST expense \$0 \$0.00 \$0 \$0.00 NA Livestock professional fees \$19 \$0.07 \$19 \$0.07 0% Other livestock expense \$28 \$0.10 \$31 \$0.11 10% Fertilizer & lime \$109 \$0.40	Machine hire, rent & lease	\$155	\$0.57	\$177	\$0.64	12%
Fuel, oil & grease \$140 \$0.51 \$251 \$0.91 78% Replacement livestock \$42 \$0.15 \$87 \$0.32 113% Breeding \$56 \$0.21 \$69 \$0.25 19% Veterinary & medicine \$150 \$0.55 \$1157 \$0.57 4% Milk marketing \$362 \$1.32 \$461 \$1.67 27% Bedding \$90 \$0.33 \$103 \$0.37 12% Milking supplies \$90 \$0.33 \$106 \$0.38 15% Cattle lease \$2 \$0.01 \$4 \$0.01 0% Custom boarding \$92 \$0.33 \$90 \$0.33 0% BST expense \$0 \$0.00 \$0 \$0.00 NA Livestock professional fees \$19 \$0.07 \$19 \$0.07 0% Other livestock expense \$28 \$0.10 \$31 \$0.11 10% Fertilizer & lime \$109 \$0.40	Machine repair & vehicle expense	\$276	\$1.01	\$340	\$1.23	22%
Replacement livestock \$42 \$0.15 \$87 \$0.32 \$13% Breeding \$56 \$0.21 \$69 \$0.25 \$19% Veterinary & medicine \$150 \$0.55 \$157 \$0.57 4% Milk marketing \$362 \$1.32 \$461 \$1.67 27% Bedding \$90 \$0.33 \$103 \$0.37 \$12% Milking supplies \$90 \$0.33 \$106 \$0.38 \$15% Cattle lease \$2 \$0.01 \$4 \$0.01 \$0% Custom boarding \$92 \$0.33 \$90 \$0.33 \$0% BST expense \$0 \$0.00 \$0 \$0.00 \$0 Custom boarding \$92 \$0.33 \$90 \$0.33 \$0% BST expense \$0 \$0.00 \$0 \$0.00 \$0 Livestock professional fees \$19 \$0.07 \$19 \$0.07 \$0% Other livestock expense \$28 \$0.10 \$31 <td></td> <td>\$140</td> <td>\$0.51</td> <td>\$251</td> <td>\$0.91</td> <td>78%</td>		\$140	\$0.51	\$251	\$0.91	78%
Breeding \$56 \$0.21 \$69 \$0.25 19% Veterinary & medicine \$150 \$0.55 \$157 \$0.57 4% Milk marketing \$362 \$1.32 \$461 \$1.67 27% Bedding \$90 \$0.33 \$103 \$0.37 12% Milking supplies \$90 \$0.33 \$106 \$0.38 15% Cattle lease \$2 \$0.01 \$4 \$0.01 0% Custom boarding \$92 \$0.33 \$90 \$0.33 0% BST expense \$0 \$0.00 \$0 \$0.00 NA Livestock professional fees \$19 \$0.07 \$19 \$0.07 0% Other livestock expense \$28 \$0.10 \$31 \$0.11 10% Fertilizer & lime \$109 \$0.40 \$180 \$0.65 63% Seeds & plants \$103 \$0.38 \$115 \$0.42 11% Spray & other crop expense \$57 \$0.21		\$42	\$0.15	\$87	\$0.32	113%
Milk marketing \$362 \$1.32 \$461 \$1.67 27% Bedding \$90 \$0.33 \$103 \$0.37 12% Milking supplies \$90 \$0.33 \$106 \$0.38 15% Cattle lease \$2 \$0.01 \$4 \$0.01 0% Custom boarding \$92 \$0.33 \$90 \$0.33 0% BST expense \$0 \$0.00 \$0 \$0.00 NA Livestock professional fees \$19 \$0.07 \$19 \$0.07 0% Other livestock expense \$28 \$0.10 \$31 \$0.11 10% Fertilizer & lime \$109 \$0.40 \$180 \$0.65 63% Seeds & plants \$103 \$0.38 \$115 \$0.42 11% Spray & other crop expense \$57 \$0.21 \$65 \$0.23 10% Crop professional fees \$5 \$0.02 \$6 \$0.02 0% Land, building & fence repair \$77 \$0		\$56	\$0.21	\$69	\$0.25	19%
Milk marketing \$362 \$1.32 \$461 \$1.67 27% Bedding \$90 \$0.33 \$103 \$0.37 12% Milking supplies \$90 \$0.33 \$106 \$0.38 15% Cattle lease \$2 \$0.01 \$4 \$0.01 0% Cattle lease \$2 \$0.01 \$4 \$0.01 0% Custom boarding \$92 \$0.33 \$90 \$0.33 0% BST expense \$0 \$0.00 \$0 \$0.00 NA Livestock professional fees \$19 \$0.07 \$19 \$0.07 0% Other livestock expense \$28 \$0.10 \$31 \$0.11 10% Fertilizer & lime \$109 \$0.40 \$180 \$0.65 63% Seeds & plants \$103 \$0.38 \$115 \$0.11 10% Spray & other crop expense \$57 \$0.21 \$65 \$0.23 10% Crop professional fees \$5 \$0.02 <	Veterinary & medicine	\$150	\$0.55	\$157	\$0.57	4%
Milking supplies \$90 \$0.33 \$106 \$0.38 15% Cattle lease \$2 \$0.01 \$4 \$0.01 0% Custom boarding \$92 \$0.33 \$90 \$0.33 0% BST expense \$0 \$0.00 \$0 \$0.00 NA Livestock professional fees \$19 \$0.07 \$19 \$0.07 0% Other livestock expense \$28 \$0.10 \$31 \$0.11 10% Fertilizer & lime \$109 \$0.40 \$180 \$0.65 63% Seeds & plants \$103 \$0.38 \$115 \$0.42 11% Spray & other crop expense \$57 \$0.21 \$65 \$0.23 10% Crop professional fees \$5 \$0.02 \$6 \$0.02 0% Land, building & fence repair \$77 \$0.28 \$101 \$0.37 32% Taxes \$61 \$0.22 \$6 \$0.02 0% Real estate rent & lease \$84	Milk marketing	\$362	\$1.32	\$461	\$1.67	27%
Cattle lease \$2 \$0.01 \$4 \$0.01 0% Custom boarding \$92 \$0.33 \$90 \$0.33 0% BST expense \$0 \$0.00 \$0 \$0.00 NA Livestock professional fees \$19 \$0.07 \$19 \$0.07 0% Other livestock expense \$28 \$0.10 \$31 \$0.11 10% Fertilizer & lime \$109 \$0.40 \$180 \$0.65 63% Seeds & plants \$103 \$0.38 \$115 \$0.42 11% Spray & other crop expense \$57 \$0.21 \$65 \$0.23 10% Crop professional fees \$5 \$0.02 \$6 \$0.02 0% Land, building & fence repair \$77 \$0.28 \$101 \$0.37 32% Taxes \$61 \$0.22 \$66 \$0.02 0% Real estate rent & lease \$84 \$0.31 \$77 \$0.28 \$101 \$0.37 \$22% Insuran	Bedding	\$90	\$0.33	\$103	\$0.37	12%
Custom boarding \$92 \$0.33 \$90 \$0.33 0% BST expense \$0 \$0.00 \$0 \$0.00 NA Livestock professional fees \$19 \$0.07 \$19 \$0.07 0% Other livestock expense \$28 \$0.10 \$31 \$0.11 10% Fertilizer & lime \$109 \$0.40 \$180 \$0.65 63% Seeds & plants \$103 \$0.38 \$115 \$0.42 11% Spray & other crop expense \$57 \$0.21 \$65 \$0.23 10% Crop professional fees \$5 \$0.02 \$6 \$0.02 0% Land, building & fence repair \$77 \$0.28 \$101 \$0.37 32% Taxes \$61 \$0.22 \$61 \$0.22 0% Real estate rent & lease \$84 \$0.31 \$72 \$0.26 -16% Insurance \$39 \$0.14 \$50 \$0.18 29% Utilities \$96 \$0.3	Milking supplies	\$90	\$0.33	\$106	\$0.38	15%
SST expense \$0 \$0.00 \$0 \$0.00 \$0 \$0.00 \$0 \$	Cattle lease	\$2	\$0.01	\$4	\$0.01	0%
Livestock professional fees \$19 \$0.07 \$19 \$0.07 0% Other livestock expense \$28 \$0.10 \$31 \$0.11 10% Fertilizer & lime \$109 \$0.40 \$180 \$0.65 63% Seeds & plants \$103 \$0.38 \$115 \$0.42 11% Spray & other crop expense \$57 \$0.21 \$65 \$0.23 10% Crop professional fees \$5 \$0.02 \$6 \$0.02 0% Land, building & fence repair \$77 \$0.28 \$101 \$0.37 32% Taxes \$61 \$0.22 \$61 \$0.22 0% Real estate rent & lease \$84 \$0.31 \$72 \$0.26 -16% Insurance \$39 \$0.14 \$50 \$0.18 29% Utilities \$96 \$0.35 \$120 \$0.43 23% Interest paid \$111 \$0.41 \$144 \$0.52 27% Other professional fees \$22<	Custom boarding	\$92	\$0.33	\$90	\$0.33	0%
Other livestock expense \$28 \$0.10 \$31 \$0.11 10% Fertilizer & lime \$109 \$0.40 \$180 \$0.65 63% Seeds & plants \$103 \$0.38 \$115 \$0.42 11% Spray & other crop expense \$57 \$0.21 \$65 \$0.23 10% Crop professional fees \$5 \$0.02 \$6 \$0.02 0% Land, building & fence repair \$77 \$0.28 \$101 \$0.37 32% Taxes \$61 \$0.22 \$61 \$0.22 0% Real estate rent & lease \$84 \$0.31 \$72 \$0.26 -16% Insurance \$39 \$0.14 \$50 \$0.18 29% Utilities \$96 \$0.35 \$120 \$0.43 23% Interest paid \$111 \$0.41 \$144 \$0.52 27% Other professional fees \$22 \$0.08 \$27 \$0.10 25% Miscellaneous \$26	BST expense	\$0	\$0.00	\$0	\$0.00	NA
Other livestock expense \$28 \$0.10 \$31 \$0.11 10% Fertilizer & lime \$109 \$0.40 \$180 \$0.65 63% Seeds & plants \$103 \$0.38 \$115 \$0.42 11% Spray & other crop expense \$57 \$0.21 \$65 \$0.23 10% Crop professional fees \$5 \$0.02 \$6 \$0.02 0% Land, building & fence repair \$77 \$0.28 \$101 \$0.37 32% Taxes \$61 \$0.22 \$61 \$0.22 0% Real estate rent & lease \$84 \$0.31 \$72 \$0.26 -16% Insurance \$39 \$0.14 \$50 \$0.18 29% Utilities \$96 \$0.35 \$120 \$0.43 23% Interest paid \$111 \$0.41 \$144 \$0.52 27% Other professional fees \$22 \$0.08 \$27 \$0.10 25% Miscellaneous \$26		\$19	\$0.07	\$19	\$0.07	0%
Seeds & plants \$103 \$0.38 \$115 \$0.42 11% Spray & other crop expense \$57 \$0.21 \$65 \$0.23 10% Crop professional fees \$5 \$0.02 \$6 \$0.02 0% Land, building & fence repair \$77 \$0.28 \$101 \$0.37 32% Taxes \$61 \$0.22 \$61 \$0.22 0% Real estate rent & lease \$84 \$0.31 \$72 \$0.26 -16% Insurance \$39 \$0.14 \$50 \$0.18 29% Utilities \$96 \$0.35 \$120 \$0.43 23% Interest paid \$111 \$0.41 \$144 \$0.52 27% Other professional fees \$22 \$0.08 \$27 \$0.10 25% Miscellaneous \$26 \$0.10 \$25 \$0.09 -10% Total Operating Expenses \$5,126 \$18.69 \$6,096 \$22.11 18% Extraordinary expenses \$0 </td <td>Other livestock expense</td> <td>\$28</td> <td>\$0.10</td> <td>\$31</td> <td>\$0.11</td> <td>10%</td>	Other livestock expense	\$28	\$0.10	\$31	\$0.11	10%
Seeds & plants \$103 \$0.38 \$115 \$0.42 11% Spray & other crop expense \$57 \$0.21 \$65 \$0.23 10% Crop professional fees \$5 \$0.02 \$6 \$0.02 0% Land, building & fence repair \$77 \$0.28 \$101 \$0.37 32% Taxes \$61 \$0.22 \$61 \$0.22 0% Real estate rent & lease \$84 \$0.31 \$72 \$0.26 -16% Insurance \$39 \$0.14 \$50 \$0.18 29% Utilities \$96 \$0.35 \$120 \$0.43 23% Interest paid \$111 \$0.41 \$144 \$0.52 27% Other professional fees \$22 \$0.08 \$27 \$0.10 25% Miscellaneous \$26 \$0.10 \$25 \$0.09 -10% Total Operating Expenses \$5,126 \$18.69 \$6,096 \$22.11 18% Extraordinary expenses \$0 </td <td>Fertilizer & lime</td> <td>\$109</td> <td>\$0.40</td> <td></td> <td>\$0.65</td> <td>63%</td>	Fertilizer & lime	\$109	\$0.40		\$0.65	63%
Spray & other crop expense \$57 \$0.21 \$65 \$0.23 10% Crop professional fees \$5 \$0.02 \$6 \$0.02 0% Land, building & fence repair \$77 \$0.28 \$101 \$0.37 32% Taxes \$61 \$0.22 \$61 \$0.22 0% Real estate rent & lease \$84 \$0.31 \$72 \$0.26 -16% Insurance \$39 \$0.14 \$50 \$0.18 29% Utilities \$96 \$0.35 \$120 \$0.43 23% Interest paid \$111 \$0.41 \$144 \$0.52 27% Other professional fees \$22 \$0.08 \$27 \$0.10 25% Miscellaneous \$26 \$0.10 \$25 \$0.09 -10% Total Operating Expenses \$5,126 \$18.69 \$6,096 \$22.11 18% Expansion livestock \$33 \$0.12 \$38 \$0.14 17% Extraordinary expenses \$0 <td>Seeds & plants</td> <td></td> <td></td> <td>\$115</td> <td></td> <td>11%</td>	Seeds & plants			\$115		11%
Land, building & fence repair \$77 \$0.28 \$101 \$0.37 32% Taxes \$61 \$0.22 \$61 \$0.22 0% Real estate rent & lease \$84 \$0.31 \$72 \$0.26 -16% Insurance \$39 \$0.14 \$50 \$0.18 29% Utilities \$96 \$0.35 \$120 \$0.43 23% Interest paid \$111 \$0.41 \$144 \$0.52 27% Other professional fees \$22 \$0.08 \$27 \$0.10 25% Miscellaneous \$26 \$0.10 \$25 \$0.09 -10% Total Operating Expenses \$5,126 \$18.69 \$6,096 \$22.11 18% Expansion livestock \$33 \$0.12 \$38 \$0.14 17% Extraordinary expenses \$0 \$0.00 \$0 \$0.00 NA Machinery depreciation \$200 \$0.73 \$228 \$0.83 14% Real estate depreciation \$184<	Spray & other crop expense	\$57	\$0.21	\$65	\$0.23	10%
Land, building & fence repair \$77 \$0.28 \$101 \$0.37 32% Taxes \$61 \$0.22 \$61 \$0.22 0% Real estate rent & lease \$84 \$0.31 \$72 \$0.26 -16% Insurance \$39 \$0.14 \$50 \$0.18 29% Utilities \$96 \$0.35 \$120 \$0.43 23% Interest paid \$111 \$0.41 \$144 \$0.52 27% Other professional fees \$22 \$0.08 \$27 \$0.10 25% Miscellaneous \$26 \$0.10 \$25 \$0.09 -10% Total Operating Expenses \$5,126 \$18.69 \$6,096 \$22.11 18% Expansion livestock \$33 \$0.12 \$38 \$0.14 17% Extraordinary expenses \$0 \$0.00 \$0 \$0.00 NA Machinery depreciation \$200 \$0.73 \$228 \$0.83 14% Real estate depreciation \$184<	Crop professional fees	\$5	\$0.02	\$6	\$0.02	0%
Real estate rent & lease \$84 \$0.31 \$72 \$0.26 -16% Insurance \$39 \$0.14 \$50 \$0.18 29% Utilities \$96 \$0.35 \$120 \$0.43 23% Interest paid \$111 \$0.41 \$144 \$0.52 27% Other professional fees \$22 \$0.08 \$27 \$0.10 25% Miscellaneous \$26 \$0.10 \$25 \$0.09 -10% Total Operating Expenses \$5,126 \$18.69 \$6,096 \$22.11 18% Expansion livestock \$33 \$0.12 \$38 \$0.14 17% Extraordinary expenses \$0 \$0.00 \$0 \$0.00 NA Machinery depreciation \$200 \$0.73 \$228 \$0.83 14% Real estate depreciation \$184 \$0.67 \$190 \$0.69 3% Total Expenses \$5,543 \$20.21 \$6,552 \$23.77 18%	Land, building & fence repair		\$0.28	\$101	\$0.37	32%
Insurance	Taxes	\$61	\$0.22	\$61	\$0.22	0%
Insurance	Real estate rent & lease			\$72		-16%
Utilities \$96 \$0.35 \$120 \$0.43 23% Interest paid \$111 \$0.41 \$144 \$0.52 27% Other professional fees \$22 \$0.08 \$27 \$0.10 25% Miscellaneous \$26 \$0.10 \$25 \$0.09 -10% Total Operating Expenses \$5,126 \$18.69 \$6,096 \$22.11 18% Expansion livestock \$33 \$0.12 \$38 \$0.14 17% Extraordinary expenses \$0 \$0.00 \$0 \$0.00 NA Machinery depreciation \$200 \$0.73 \$228 \$0.83 14% Real estate depreciation \$184 \$0.67 \$190 \$0.69 3% Total Expenses \$5,543 \$20.21 \$6,552 \$23.77 18%	Insurance			\$50	\$0.18	29%
Other professional fees \$22 \$0.08 \$27 \$0.10 25% Miscellaneous \$26 \$0.10 \$25 \$0.09 -10% Total Operating Expenses \$5,126 \$18.69 \$6,096 \$22.11 18% Expansion livestock \$33 \$0.12 \$38 \$0.14 17% Extraordinary expenses \$0 \$0.00 \$0 \$0.00 NA Machinery depreciation \$200 \$0.73 \$228 \$0.83 14% Real estate depreciation \$184 \$0.67 \$190 \$0.69 3% Total Expenses \$5,543 \$20.21 \$6,552 \$23.77 18%	Utilities				\$0.43	23%
Miscellaneous \$26 \$0.10 \$25 \$0.09 -10% Total Operating Expenses \$5,126 \$18.69 \$6,096 \$22.11 18% Expansion livestock \$33 \$0.12 \$38 \$0.14 17% Extraordinary expenses \$0 \$0.00 \$0 \$0.00 NA Machinery depreciation \$200 \$0.73 \$228 \$0.83 14% Real estate depreciation \$184 \$0.67 \$190 \$0.69 3% Total Expenses \$5,543 \$20.21 \$6,552 \$23.77 18%	Interest paid	\$111	\$0.41	\$144	\$0.52	27%
Miscellaneous \$26 \$0.10 \$25 \$0.09 -10% Total Operating Expenses \$5,126 \$18.69 \$6,096 \$22.11 18% Expansion livestock \$33 \$0.12 \$38 \$0.14 17% Extraordinary expenses \$0 \$0.00 \$0 \$0.00 NA Machinery depreciation \$200 \$0.73 \$228 \$0.83 14% Real estate depreciation \$184 \$0.67 \$190 \$0.69 3% Total Expenses \$5,543 \$20.21 \$6,552 \$23.77 18%			\$0.08	\$27	\$0.10	25%
Total Operating Expenses \$5,126 \$18.69 \$6,096 \$22.11 18% Expansion livestock \$33 \$0.12 \$38 \$0.14 17% Extraordinary expenses \$0 \$0.00 \$0 \$0.00 NA Machinery depreciation \$200 \$0.73 \$228 \$0.83 14% Real estate depreciation \$184 \$0.67 \$190 \$0.69 3% Total Expenses \$5,543 \$20.21 \$6,552 \$23.77 18%	-	\$26	\$0.10	\$25	\$0.09	-10%
Expansion livestock \$33 \$0.12 \$38 \$0.14 17% Extraordinary expenses \$0 \$0.00 \$0 \$0.00 NA Machinery depreciation \$200 \$0.73 \$228 \$0.83 14% Real estate depreciation \$184 \$0.67 \$190 \$0.69 3% Total Expenses \$5,543 \$20.21 \$6,552 \$23.77 18%	Total Operating Expenses		\$18.69			18%
Extraordinary expenses \$0 \$0.00 \$0 \$0.00 NA Machinery depreciation \$200 \$0.73 \$228 \$0.83 14% Real estate depreciation \$184 \$0.67 \$190 \$0.69 3% Total Expenses \$5,543 \$20.21 \$6,552 \$23.77 18%						17%
Machinery depreciation \$200 \$0.73 \$228 \$0.83 14% Real estate depreciation \$184 \$0.67 \$190 \$0.69 3% Total Expenses \$5,543 \$20.21 \$6,552 \$23.77 18%						NA
Real estate depreciation \$184 \$0.67 \$190 \$0.69 3% Total Expenses \$5,543 \$20.21 \$6,552 \$23.77 18%		\$200	\$0.73	\$228	\$0.83	14%
Total Expenses \$5,543 \$20.21 \$6,552 \$23.77 18 %						3%
Net Farm Income w/o Appreciation \$633 \$2.31 \$1,664 \$6.03 161%						
	Net Farm Income w/o Appreciation	\$633	\$2.31	\$1,664	\$6.03	161%

¹ Farms participating both years

NA - Percent change could not be calculated



Farm Business Chart

The Farm Business Chart is a tool that can assist in analyzing your business. The five numbers in each column represent the average of each quintile of farms included in the DFBS. You can compare your farm's data to others in the DFBS by drawing a line through or near the number in each column which most closely represents your current level of performance. Each column is sorted independently. Use this information to identify areas of opportunity in your business.

FARM BUSINESS CHART FOR FARM MANAGEMENT COOPERATORS

36 New York Dairy Farms, 1,500 Cows and Greater, 2022, DFBS

Size of Business			Ra	Rates of Production			Labor Efficiency	
				Tons of Hay			Pounds of	
Worker		Pounds of	Pounds of Milk	Crop	Tons of Corn	Cows Per	Milk Sold Per	
Equivalents	No. of Cows	Milk Sold	Sold Per Cow	DM/Acre	Silage Per Acre	Worker	Worker	
(14) ¹	(12)	(12)	(12)	(11)	(11)	(14)	(14)	
81.6	4,302	120,113,593	29,997	5.0	22.3	72.9	2,035,353	
52.0	2,973	82,269,289	28,836	4.0	19.3	62.4	1,689,510	
41.1	2,151	58,969,146	27,689	3.5	17.9	56.4	1,557,385	
31.8	1,820	49,969,465	26,729	2.9	17.0	50.4	1,396,153	
25.5	1,599	43,006,482	24,789	2.2	15.9	46.4	1,249,661	

Cost Control

				Labor &	Feed & Crop	Feed & Crop	Hired Labor
Grain Bought	Grain Bought	% Grain is of	Machinery	Machinery	Expenses Per	Expenses Per	Cost Per Wkr.
Per Cow	Per Cwt.	Milk Receipts	Costs Per Cow	Costs Per Cow	Cow	Cwt. Milk	Equivalent
(12)	(12)	(12)	(14)	(14)	(12)	(12)	(14)
\$1,590	\$6.04	23	\$804	\$1,659	\$2,052	\$7.93	\$48,505
\$1,973	\$7.36	27	\$1,020	\$1,909	\$2,460	\$9.11	\$51,344
\$2,119	\$7.81	29	\$1,112	\$2,063	\$2,695	\$9.81	\$53,778
\$2,405	\$8.37	31	\$1,201	\$2,285	\$2,942	\$10.25	\$58,025
\$2,648	\$9.24	34	\$1,461	\$2,556	\$3,227	\$11.22	\$64,334

Value of Production	Profitability
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		Opr. Cost		% Rate of	Net Farm	Labor &	
		Milk	Total Cost Milk	Return on All	Income	Management	Change in Net
Milk Receipts	Milk Receipts	Production	Production Per	Capital w/o	Without	Income Per	Worth With
Per Cow	Per Cwt.	Per Cwt.	Cwt.	Apprec.	Apprec.	Operator	Apprec.
(12)	(12)	(12)	(12)	(4)	(4)	(4)	(8)
\$8,207	\$28.71	\$16.73	\$21.32	17.9	\$7,683,617	\$2,572,350	\$7,364,414
\$7,926	\$27.61	\$18.07	\$22.25	15.1	\$4,727,525	\$1,378,587	\$4,826,500
\$7,592	\$26.99	\$18.87	\$23.13	12.3	\$3,961,990	\$942,423	\$3,987,945
\$7,104	\$26.56	\$20.66	\$24.11	10.7	\$3,180,682	\$666,303	\$3,024,455
\$6,619	\$25.86	\$23.16	\$26.28	8.1	\$1,919,203	\$399,455	\$1,683,476

Financial Efficiency

							Working	
	Machinery	Asset		Debt	Planned Debt		Capital as %	
Investment	Investment	Turnover	Operating	Coverage	Payments Per		of Opr.	
Per Cow	Per Cow	Ratio	Expense Ratio	Ratio	Cow	Percent Equity	Expense	
(14)	(14)	(14)	(14)	(10)	(10)	(7)	(7)	
\$9,040	\$1,130	1.05	0.65	31.07	\$60	95	105	
\$11,382	\$1,588	0.78	0.68	5.29	\$309	81	45	
\$12,990	\$1,954	0.71	0.71	2.99	\$560	70	31	
\$14,475	\$2,203	0.61	0.76	2.21	\$734	61	22	
\$19,477	\$2,834	0.46	0.84	0.77	\$956	47	14	

¹Page number of the participant's DFBS where the factor is located.

OTHER A.E.M. EXTENSION BULLETINS

EB No	Title	Fee (if applicable)	Author(s)
2023-08	Progress of the Dairy Farm Report, Dairy Farm Business Summary, 2022	Karsze	s, J. and Augello, L.
2023-07	Glossary of Terms Associated with The DFBS: Dairy Farm Business Summary and Analysis	Karsze	s, J. and Augello, L.
2023-06	Improving Farmers Market Returns for Meat Vendors using Point-of-Sale Customer Data	Rigotti,	L., LeRoux, M., & Schmit, T.
2023-05	Controlling Pests and Diseases Using Mesotunnels: Understanding Organic Cucurbit Crop Growers' Preferences and Choices	Cheng,	N.,Zhang, W.,and Gleason, M.
2023-04	2022 New York Berry Price Information	Park, K	
2023-03	Examination of Impact of Changes of Minimum Wage and Overtime Thresholds to New York State Berry Farmers	Severse M.I.	on, R.M., Park, K. and Gomez,
2023-02	How New York Farmers Adapt to New Farm Labor Overtime Requirements	•	, E. Higgins, J. Karszes, B. I and C. Wolf
2023-01	Size Year Trend Analysis 2021 – New York State Dairy Farms – Selected Financial and Production Factors	Karsze	s, J. and Augello, L
2022-13	Specialty Mushroom Grower Survey Report	Park, K	., Gabriel, S., Rangajaran, A.
2022-12	An Investigation of Marketing Channels and Suggested Methodology for Channel Assessment for Hemp Products	Leroux	M., Schmit, T., & Van, L.
2022-11	Dairy Business Summary New York State 2019	Karsze	s, J and Augello, L.

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