E.B. 2022-10

June 6th, 2022



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

Dairy Farm Business Summary and Analysis New York State, 2021 136 Farms

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Agricultural Finance and Management at Cornell Cornell Dairy Farm Business Summary & Analysis Program Cornell University Ithaca, New York 14853-7801 It is the Policy of Cornell University actively to support equality of educational and employment opportunity. No person shall be denied admission to any educational program or activity or be denied employment on the basis of any legally prohibited discrimination involving, but not limited to, such factors as race, color, creed, religion, national or ethnic origin, sex, age, or handicap. The University is committed to the maintenance of affirmative action programs which will assure the continuation of such equality of opportunity.

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Progress of the Dairy Farm Report Selected Financial and Production Factors Dairy Farm Business Summary 136 New York State Dairy Farms, 2021 June 2022

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 2021 business year.

The Progress of the Dairy Farm Report provides averages of selected financial and production measures from 132 New York State Dairy Farms (pages 2-4) that participated in the program for both 2020 and 2021 that had submitted records by June 6th, 2022. The report is also broken down into four herd size categories to provide additional comparison reports by herd size. The business charts report data for all farms that participated in 2021.

1.	Farms with Less Than 500 Cows	Pages 5-7
2.	Farms with 500 Cows to 999 Cows	Pages 8-10
3.	Farms with 1,000 Cows to 1,499 Cows	Pages 11-13
4.	Farms with 1,500 and Greater	Pages 14-16

To utilize these reports, begin by comparing how your farm changed from 2020 to 2021 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.

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.



Same 132 New York Dairy Farms, 2020 & 2021, DFBS

	Average of	Percent	
SELECTED FACTORS	2020	2021	- Change
Size of Business			
Average number of cows	1,158	1,186	2%
Percent heifers to cows, average for year	78%	76%	-2%
Milk sold, pounds	30,618,993	32,137,134	5%
Worker equivalent	22.2	22.2	0.1%
Total tillable acres	2,024	2,092	3%
Rates of Production			
Milk sold per cow, pounds	26,444	27,108	3%
Hay DM per acre, tons	3.1	3.7	19%
Corn silage per acre, tons	18.2	19.2	5%
Labor Efficiency			
Cows per worker	52.2	53.4	2.3%
Milk sold per worker, pounds	1,381,100	1,448,271	4.9%
	_,,	_,,	
Cost Control and Milk Price	¢C 04	¢C 71	11%
Grain & concentrate per cwt. milk	\$6.04 \$2,864	\$6.71 \$3,080	8%
Net milk income over purchased grain & conc. per cow	\$2,804 \$7.50	\$8.30	8% 11%
Dairy feed & crop expense per cwt. milk	\$1,744	\$8.50 \$1,826	5%
Labor and machinery costs per cow Hired labor costs per cwt. milk	\$3.03	\$3.04	0.4%
Hired labor costs per worker equivalent	\$48,011	\$50,471	5.1%
Total Farm Operating Costs per Cwt.	\$18.06	\$18.96	5.1%
Operating cost of producing milk per cwt. ²	\$16.04	\$16.11	0.4%
Purchased input cost of producing milk per cwt. ²	\$17.61	\$17.63	0.1%
Total cost of producing milk per cwt. ²	\$19.81	\$19.88	0.4%
Net milk price per cwt.	\$17.24	\$18.43	7%
Government Receipts per cwt.	\$2.49	\$0.13	-95%
Capital Efficiency (average for year)			
Farm capital per cow	\$11,715	\$12,306	5%
Machinery and equipment per cow	\$1,790	\$1,888	5%
Asset turnover ratio	0.53	0.53	0%
Profitability			
Net farm income without appreciation	\$966,741	\$688,805	-29%
Net farm income without appreciation per cow	\$835	\$581	-30%
Net farm income with appreciation	\$1,210,606	\$1,063,763	-12%
Net farm income with appreciation per cow	\$1,046	\$897	-14%
Labor & management income per operator/manager	\$205 <i>,</i> 460	\$75,949	-63%
Rate return on equity capital with appreciation	10.8%	8.4%	-22%
Rate return on equity capital without appreciation	8.2%	4.7%	-43%
Rate return on all capital with appreciation	8.6%	6.8%	-21%
Rate return on all capital without appreciation	6.8%	4.2%	-38%
Financial Summary (based on market value, excluding defer	rred taxes)		
Farm net worth, end year	\$9,760,153	\$10,366,015	6%
Debt to asset ratio	0.31	0.31	0%
Farm debt per cow	\$3,676	\$3,931	7%
Debt coverage ratio	2.11	1.5	-29%

¹Farm participating both years



Same 132 New York Dairy Farms, 2020 & 2021, DFBS

	20	20	20	2021		
Item	Per Cow ¹	Per Cwt. ¹	Per Cow ¹	Per Cwt. ¹	_ % Change Per Cwt.	
Average number of cows	1,158		1,186		2%	
Cwt. of milk sold		306,190		321,371	5%	
ACCRUAL OPERATING RECEIPTS						
Milk	\$4,907	\$18.56	\$5,360	\$19.77	7%	
Dairy cattle	\$273	\$1.03	\$273	\$1.01	-2%	
Dairy calves	\$40	\$0.15	\$64	\$0.24	60%	
Other livestock	\$13	\$0.05	\$25	\$0.09	80%	
Crops	\$82	\$0.31	\$254	\$0.94	203%	
Miscellaneous receipts	<u>\$729</u>	\$2.76	<u>\$180</u>	<u>\$0.66</u>	-76%	
Total Operating Receipts	\$6,044	\$22.86	\$6,156	\$22.71	-1%	
ACCRUAL OPERATING EXPENSES						
Hired labor	\$802	\$3.03	\$825	\$3.04	0.3%	
Dairy grain & concentrate	\$1,596	\$6.04	\$1,819	\$6.71	11%	
Dairy roughage	\$115	\$0.43	\$127	\$0.47	9%	
Nondairy feed	\$0	\$0.00	\$0	\$0.00	NA	
Professional nutritional services	\$0 \$1	\$0.00	\$0 \$1	\$0.00	NA	
Vachine hire, rent & lease	\$154	\$0.58	\$164	\$0.60	3%	
Vachine repair & vehicle expense	\$262	\$0.99	\$275	\$1.01	2%	
Fuel, oil & grease	\$109	\$0.95	\$144	\$0.53	29%	
Replacement livestock	\$33	\$0.13	\$30	\$0.11	-15%	
Breeding	\$54	\$0.21	\$56	\$0.21	0%	
/eterinary & medicine	\$146	\$0.21 \$0.55	\$150	\$0.55	0%	
Ailk marketing	\$349	\$1.32	\$365	\$1.35	2%	
Bedding	\$91	\$1.32 \$0.34	\$94	\$0.35	3%	
-	\$94	\$0.34 \$0.36	\$92	\$0.33 \$0.34	-6%	
Milking supplies Cattle lease	•				-0%	
	\$4	\$0.01	\$2	\$0.01		
Custom boarding	\$91	\$0.34	\$90	\$0.33	-3%	
3ST expense	\$0	\$0.00	\$0	\$0.00	NA	
ivestock professional fees	\$19	\$0.07	\$19	\$0.07	0%	
Other livestock expense	\$22	\$0.08	\$28	\$0.10	25%	
Fertilizer & lime	\$104	\$0.39	\$126	\$0.47	21%	
Seeds & plants	\$109	\$0.41	\$112	\$0.41	0%	
Spray & other crop expense	\$54	\$0.21	\$60	\$0.22	5%	
Crop professional fees	\$6	\$0.02	,\$6	\$0.02	0%	
and, building & fence repair	\$85	\$0.32	\$79	\$0.29	-9%	
Taxes	\$63	\$0.24	\$65	\$0.24	0%	
Real estate rent & lease	\$86	\$0.32	\$90	\$0.33	3%	
nsurance	\$47	\$0.18	\$47	\$0.17	-6%	
Jtilities	\$85	\$0.32	\$99	\$0.36	13%	
nterest paid	\$143	\$0.54	\$123	\$0.45	-17%	
Other professional fees	\$26	\$0.10	\$24	\$0.09	-10%	
Viscellaneous	<u>\$26</u>	<u>\$0.10</u>	<u>\$27</u>	<u>\$0.10</u>	0%	
Total Operating Expenses	\$4,777	\$18.06	\$5,139	\$18.96	5%	
Expansion livestock	\$17	\$0.06	\$24	\$0.09	50%	
Extraordinary expenses	\$1	\$0.00	\$0	\$0.00	NA	
Machinery depreciation	\$225	\$0.85	\$222	\$0.82	-4%	
Real estate depreciation	<u>\$189</u>	<u>\$0.71</u>	<u>\$189</u>	<u>\$0.70</u>	-1%	
Total Expenses	\$5,209	\$19.68	\$5,574	\$20.57	5%	
Net Farm Income w/o Appreciation	\$835	\$3.16	\$581	\$2.14	-32%	
Farms participating both years		NA - Percent change c	ould not be calculated			

¹ Farms participating both years



FARM BUSINESS CHART FOR FARM MANAGEMENT COOPERATORS

136 New York Dairy Farms, 2021, DFBS

S	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)	
50.1	2,777	76,483,396	29,680	5.1	23.7	72.3	1,919,109	
26.5	1,410	38,944,459	28,112	4.2	21.2	56.6	1,518,908	
19.1	987	26,698,585	26,984	3.7	19.6	50.3	1,345,731	
10.9	558	13,959,248	25,504	3.2	17.6	45.0	1,170,442	
4.6	193	4,624,533	21,225	1.9	12.0	34.3	841,818	

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/Cow	Cow	Cwt. Of Milk	Equivalent
(12)	(12)	(12)	(14)	(14)	(12)	(12)	(14)
\$1,299	\$5.44	27	\$633	\$1,388	\$1,695	\$7.07	\$33,440
\$1,644	\$6.31	32	\$833	\$1,745	\$2,039	\$7.94	\$45,122
\$1,786	\$6.73	34	\$950	\$1,929	\$2,201	\$8.36	\$47,922
\$1,923	\$7.14	35	\$1,089	\$2,162	\$2,400	\$8.89	\$51,209
\$2,163	\$7.90	39	\$1,398	\$2,594	\$2,714	\$9.86	\$61,158

	Value of P	roduction		Profitability			
		Opr. Cost of	Total Cost of	% Rate of	Net Farm	Labor &	
		Milk	Milk	Return on All	Income	Management	Change in
Milk Receipts	Milk Receipts	Production	Production Per	Capital w/o	Without	Income Per	Net Worth
Per Cow	Per Cwt.	Per Cwt.	Cwt.	Apprec.	Apprec.	Operator	With Apprec.
(12)	(12)	(12)	(12)	(4)	(4)	(4)	(8)
\$5,996	\$21.84	\$13.76	\$18.30	7.7	\$2,072,771	\$457,603	\$2,164,228
\$5,606	\$20.50	\$15.45	\$19.53	5.2	\$869,186	\$138,719	\$811,371
\$5,352	\$20.00	\$16.31	\$20.51	3.5	\$482,000	\$43,208	\$372,179
\$5,088	\$19.56	\$17.09	\$22.02	1.3	\$156,087	-\$11,165	\$136,313
\$4,368	\$18.87	\$19.10	\$25.40	-2.1	-\$66,683	-\$210,463	-\$307,328

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)
\$8,658	\$870	0.76	0.73	7.21	\$55	96	69
\$11,168	\$1,584	0.58	0.79	1.69	\$373	80	33
\$12,639	\$2,140	0.52	0.81	1.33	\$595	68	23
\$14,593	\$2,707	0.44	0.85	0.83	\$755	59	19
\$20,040	\$4,369	0.34	0.91	0.00	\$1,094	42	4

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



Same 33 New York Dairy Farms, Less Than 500 Cows, 2020 & 2021, DFBS

	Average of	Percent	
SELECTED FACTORS	2020	2021	- Change
Size of Business			
Average number of cows	235	234	-0.4%
Percent heifers to cows, average for year	87%	86%	-1%
Milk sold, pounds	5,880,171	5,902,474	0.4%
Worker equivalent	6.1	6.0	-2%
Total tillable acres	586	593	1%
Rates of Production			
Milk sold per cow, pounds	24,999	25,273	1%
Hay DM per acre, tons	2.6	3.3	27%
Corn silage per acre, tons	17.5	18.7	7%
Labor Efficiency			
Cows per worker	38.5	38.9	1.2%
Milk sold per worker, pounds	962,385	982,109	2.0%
Cost Control and Milk Price		-	
Grain & concentrate per cwt. milk	\$6.29	\$6.94	10%
Net milk income over purchased grain & conc. per cow	\$2,595	\$3,007	16%
Dairy feed & crop expense per cwt. milk	\$7.95	\$8.61	8%
Labor and machinery costs per cow	\$2,159	\$2,275	5%
Hired labor costs per cwt. milk	\$2.67	\$2.73	2%
Hired labor costs per worker equivalent	\$42,792	\$45,208	5.6%
Total Farm Operating Costs per Cwt.	\$18.82	\$20.18	7%
Operating cost of producing milk per cwt. ²	\$15.89	\$16.99	7%
Purchased input cost of producing milk per cwt. ²	\$17.88	\$18.95	6%
Total cost of producing milk per cwt. ²	\$21.88 \$17.04	\$23.20 \$19.24	6%
Net milk price per cwt.	\$17.04 \$2.49	\$19.24 \$0.35	13% -86%
Government Receipts per cwt.	Ş2.49	ŞU.55	-00%
Capital Efficiency (average for year)			
Farm capital per cow	\$13,858	\$14,936	8%
Machinery and equipment per cow	\$2,911	\$3,114	7%
Asset turnover ratio	0.44	0.43	-2%
Profitability			
Net farm income without appreciation	\$159,794	\$105,743	-34%
Net farm income without appreciation per cow	\$679	\$453	-33%
Net farm income with appreciation	\$222,950	\$194,931	-13%
Net farm income with appreciation per cow	\$948	\$835	-12%
Labor & management income per operator/manager	\$19,574	-\$13,429	-169%
Rate return on equity capital with appreciation	4.5%	2.8%	-38%
Rate return on equity capital without appreciation	1.8%	-0.7%	-138%
Rate return on all capital with appreciation	4.3%	3.1%	-28%
Rate return on all capital without appreciation	2.4%	0.5%	-79%
Financial Summary (based on market value, excluding defer	red taxes)		
Farm net worth, end year	\$2,407,910	\$2,641,116	10%
Debt to asset ratio	0.28	0.26	-7%
Farm debt per cow	\$3,921	\$4,056	3%
Debt coverage ratio	1.58	1.38	-13%

¹Farm participating both years



Same 33 New York Dairy Farms, Less Than 500 Cows, 2020 & 2021, DFBS

Item Average number of cows	Per Cow ¹	Per Cwt.1	Per Cow ¹	- 1	_ % Chang
		Fer Cwt.	Fer COW	Per Cwt. ¹	Per Cwt
	235		234		-0.4%
Cwt. of milk sold		58,802		59,025	0.4%
ACCRUAL OPERATING RECEIPTS					
Milk	\$4,597	\$18.39	\$5,242	\$20.74	13%
Dairy cattle	\$194	\$0.78	\$210	\$0.83	6%
Dairy calves	\$32	\$0.13	\$58	\$0.23	77%
, Dther livestock	\$38	\$0.15	\$51	\$0.20	33%
Crops	\$159	\$0.63	\$285	\$1.13	79%
Viscellaneous receipts	\$862	\$3.45	\$208	\$0.82	-76%
Total Operating Receipts	\$5,882	\$23.53	\$6,054	\$23.95	2%
ACCRUAL OPERATING EXPENSES					
Hired labor	\$668	\$2.67	\$690	\$2.73	2%
Dairy grain & concentrate	\$1,573	\$6.29	\$1,754	\$6.94	10%
Dairy roughage	\$87	\$0.35	\$70	\$0.28	-20%
Nondairy feed	\$3	\$0.01	\$3	\$0.01	0%
Professional nutritional services	\$0	\$0.00	\$0	\$0.00	NA
Vachine hire, rent & lease	\$162	\$0.65	\$203	\$0.80	23%
Machine repair & vehicle expense	\$321	\$1.29	\$318	\$1.26	-2%
Fuel, oil & grease	\$121	\$0.48	\$164	\$0.65	35%
Replacement livestock	\$8	\$0.03	\$8	\$0.03	0%
Breeding	\$56	\$0.22	\$55	\$0.22	0%
/eterinary & medicine	\$142	\$0.22 \$0.57	\$146	\$0.58	2%
Ailk marketing	\$338	\$1.35	\$380	\$1.50	11%
Bedding	\$338 \$109	\$0.44	\$115	\$0.45	2%
Ailking supplies	\$109 \$81	\$0.44 \$0.33	\$89	\$0.45 \$0.35	2 <i>%</i> 6%
Cattle lease	\$81 \$1	\$0.00 \$0.00	\$0 \$0	\$0.00	NA
	\$1 \$9	\$0.00 \$0.04	\$0 \$11	\$0.00 \$0.04	0%
Custom boarding					
3ST expense	\$0 ¢25	\$0.00	\$0 ¢25	\$0.00	NA 0%
ivestock professional fees	\$25	\$0.10	\$25 ¢58	\$0.10	0%
Other livestock expense	\$44	\$0.18	\$58	\$0.23	28%
ertilizer & lime	\$132	\$0.53	\$161	\$0.64	21%
Seeds & plants	\$131	\$0.52	\$121	\$0.48	-8%
Spray & other crop expense	\$60	\$0.24	\$62	\$0.24	0%
Crop professional fees	\$5	\$0.02	\$8	\$0.03	50%
and, building & fence repair	\$67	\$0.27	\$79	\$0.31	15%
Taxes	\$95	\$0.38	\$94	\$0.37	-3%
Real estate rent & lease	\$81	\$0.32	\$89	\$0.35	9%
nsurance	\$76	\$0.30	\$81	\$0.32	7%
Jtilities	\$85	\$0.34	\$99	\$0.39	15%
nterest paid	\$160	\$0.64	\$147	\$0.58	-9%
Other professional fees	\$29	\$0.11	\$36	\$0.14	27%
Aiscellaneous	<u>\$36</u>	<u>\$0.14</u>	<u>\$37</u>	\$0.15	7%
Total Operating Expenses	\$4,705	\$18.82	\$5,101	\$20.18	7%
Expansion livestock	\$0	\$0.00	\$6	\$0.02	NA
Extraordinary expenses	\$2	\$0.01	\$0	\$0.00	-100%
Machinery depreciation	\$308	\$1.23	\$291	\$1.15	-7%
Real estate depreciation	<u>\$189</u>	<u>\$0.75</u>	<u>\$203</u>	<u>\$0.80</u>	7%
Total Expenses	\$5,204	\$20.81	\$5,601	\$22.15	6%
Net Farm Income w/o Appreciation	\$679	\$2.72	\$453	\$1.79	-34%

¹ Farms participating both years



FARM BUSINESS CHART FOR FARM MANAGEMENT COOPERATORS

34 New York Dairy Farms, Less Than 500 Cows, 2021, DFBS

S	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)	
11.7	424	11,557,570	29,466	4.5	22.6	55.8	1,448,289	
6.8	284	7,334,256	27,140	3.9	20.0	45.9	1,145,153	
5.3	228	5,425,029	25,073	3.5	19.3	38.0	982,865	
4.1	165	3,988,717	22,877	2.8	17.5	33.9	834,257	
2.7	93	2,138,805	19,414	2.0	12.8	28.3	613,579	

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/Cow	Cow	Cwt. Of Milk	Equivalent	
(12)	(12)	(12)	(14)	(14)	(12)	(12)	(14)	
\$1,317	\$5.93	29	\$821	\$1,775	\$1,653	\$7.39	\$12,078	
\$1,505	\$6.55	32	\$978	\$2,140	\$1,909	\$8.28	\$37,409	
\$1,720	\$7.01	34	\$1,131	\$2,313	\$2,113	\$8.73	\$43,134	
\$1,915	\$7.43	35	\$1,275	\$2,455	\$2,422	\$9.52	\$47,529	
\$2,217	\$8.19	38	\$1,589	\$2,874	\$2,819	\$10.26	\$68,804	

	Value of P	roduction		Profitability			
		Opr. Cost of	Total Cost of	% Rate of	Net Farm	Labor &	
		Milk	Milk	Return on All	Income	Management	Change in
Milk Receipts	Milk Receipts	Production	Production Per	Capital w/o	Without	Income Per	Net Worth
Per Cow	Per Cwt.	Per Cwt.	Cwt.	Apprec.	Apprec.	Operator	With Apprec.
(12)	(12)	(12)	(12)	(4)	(4)	(4)	(8)
\$6,232	\$22.45	\$14.76	\$20.74	6.2	\$248,166	\$76,093	\$463,238
\$5,542	\$21.55	\$16.20	\$22.32	2.5	\$149,549	\$15,632	\$201,620
\$5,155	\$20.93	\$16.70	\$23.45	0.4	\$108,282	-\$4,848	\$115,703
\$4,755	\$20.39	\$17.38	\$25.09	-1.0	\$67,377	-\$28,500	\$64,702
\$4,174	\$19.46	\$19.10	\$28.62	-3.8	-\$8,305	-\$75,121	-\$78,552

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)
\$9,657	\$1,366	0.75	0.72	4.20	\$72	99	54
\$12,646	\$2,321	0.54	0.78	1.65	\$411	85	38
\$13,824	\$3,048	0.47	0.82	1.33	\$628	72	25
\$15,937	\$3,815	0.38	0.85	0.95	\$760	65	20
\$27,029	\$6,301	0.26	0.88	-0.11	\$1,088	54	13

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



Same 30 New York Dairy Farms, 500 to 999 Cows, 2020 & 2021, DFBS

	Average of	f 30 Farms ¹	Percent	
SELECTED FACTORS	2020	2021	- Change	
Size of Business				
Average number of cows	671	681	1%	
Percent heifers to cows, average for year	74%	74%	-0.5%	
Milk sold, pounds	16,324,691	16,945,487	4%	
Worker equivalent	13.2	13.1	-0.2%	
Total tillable acres	1,421	1,436	1%	
Rates of Production				
Milk sold per cow, pounds	24,335	24,892	2%	
Hay DM per acre, tons	3	3.5	17%	
Corn silage per acre, tons	18.6	19.7	6%	
Labor Efficiency				
Cows per worker	51.0	51.9	1.6%	
Milk sold per worker, pounds	1,241,421	1,290,593	4.0%	
Cost Control and Milk Price		, ,		
	ćr 02	ĊC FA	1.00/	
Grain & concentrate per cwt. milk	\$5.93	\$6.54	10%	
Net milk income over purchased grain & conc. per cow	\$2,604	\$3,004	15% 9%	
Dairy feed & crop expense per cwt. milk	\$7.61	\$8.26	9% 5%	
Labor and machinery costs per cow	\$1,845 \$2.88	\$1,932 \$2.97	3%	
Hired labor costs per cwt. milk	\$2.88 \$44,696	\$2.97 \$48,246	7.9%	
Hired labor costs per worker equivalent Total Farm Operating Costs per Cwt.	\$18.79	\$19.63	4%	
Operating cost of producing milk per cwt. ²	\$15.82	\$16.38	4%	
Purchased input cost of producing milk per cwt. ²	\$17.82	\$18.24	2%	
Total cost of producing milk per cwt. ²	\$20.71	\$21.18	2%	
Net milk price per cwt.	\$17.13	\$18.71	9%	
Government Receipts per cwt.	\$2.49	\$0.20	-92%	
Capital Efficiency (average for year)				
Farm capital per cow	\$12,722	\$13,222	4%	
Machinery and equipment per cow	\$2,274	\$2,446	8%	
Asset turnover ratio	0.47	0.47	0%	
Profitability				
Net farm income without appreciation	\$468,219	\$309,216	-34%	
Net farm income without appreciation per cow	\$698	\$454	-35%	
Net farm income with appreciation	\$645,074	\$568,901	-12%	
Net farm income with appreciation per cow	\$962	\$836	-13%	
Labor & management income per operator/manager	\$76,063	-\$1,499	-102%	
Rate return on equity capital with appreciation	8.0%	6.2%	-23%	
Rate return on equity capital without appreciation	4.9%	2.0%	- 60%	
Rate return on all capital with appreciation	6.7%	5.3%	- 21%	
Rate return on all capital without appreciation	4.6%	2.4%	-49%	
Financial Summary (based on market value, excluding defer	rred taxes)			
Farm net worth, end year	\$6,082,310	\$6,398,880	5%	
Debt to asset ratio	0.31	0.31	0%	
Farm debt per cow	\$3,983	\$4,105	3%	
Debt coverage ratio	1.71	1.28	-25%	

¹Farm participating both years



Same 30 New York Dairy Farms, 500 to 999 Cows, 2020 & 2021, DFBS

Item Per Covt. ¹		2020		20	2021		
Average number of cows 671 681 Cwt. of milk sold 163,247 169,455 ACCRUAL OPERATING RECEIPTS Milk \$4,496 \$18,48 \$4,994 \$20,06 Dairy catile \$230 \$0,94 \$229 \$0,92 Dairy catile \$230 \$0,94 \$223 \$0,92 Other livestock \$7 \$0,03 \$18 \$0,07 1 Miscellaneous receipts \$943 \$3,87 \$22,33 \$1,10 Total Operating Receipts \$943 \$3,87 \$2,71 \$5,806 \$23,33 Miced labor \$700 \$2,88 \$739 \$2,97 Dairy roughage \$52 \$0,21 \$50 \$0,00 \$0 \$0,000 \$0 \$0,000 \$0 \$0,000 \$0 \$0,000 \$0 \$0,000 \$0 \$0,000 \$0 \$0,000 \$0 \$0,000 \$0 \$0,000 \$0 \$0,000 \$0 \$0,000	Item	Per Cow ¹	Per Cwt.1	Per Cow ¹	Per Cwt. ¹	_ % Chang Per Cwt	
ACCRUAL OPERATING RECEIPTS Karl Starting Starting <thstarting< td=""><td>Average number of cows</td><td></td><td></td><td></td><td></td><td>1%</td></thstarting<>	Average number of cows					1%	
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seeds & plants $\$125$ $\$0.51$ $\$127$ $\$0.51$ ip ray & other crop expense $\$57$ $\$0.23$ $\$655$ $\$0.26$ $\$0.26$ ir op professional fees $\$9$ $\$0.04$ $\$66$ $\$0.02$ \bullet and, building & fence repair $\$65$ $\$0.27$ $\$81$ $\$0.32$ \ddagger arxes $\$70$ $\$0.29$ $\$772$ $\$0.29$ $\$$ keal estate rent & lease $\$91$ $\$0.37$ $\$93$ $\$0.37$ nsurance $\$59$ $\$0.24$ $\$59$ $\$0.24$ Utilities $\$83$ $\$0.34$ $\$97$ $\$0.39$ $\$$ nterest paid $\$155$ $\$0.64$ $\$133$ $\$0.53$ \bullet Other professional fees $\$32$ $\$0.13$ $\$33$ $\$0.13$ \bullet Miscellaneous $$226$ $$0.11$ $$227$ $$0.11$ $$27$ $$0.11$ Total Operating Expenses $$4,572$ $$1.879$ $$4,886$ $$19.63$ $$1.63$ $$1.63$ Expansion livestock $$15$ $$0.06$ $$4$ $$0.02$ $$1.53$ $$0.00$ $$0.00$ Acchinery depreciation $$288$ $$1.18$ $$273$ $$1.09$ $$0.76$ $$0.81$ $$190$ $$0.76$	-					-10%	
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Crop professional fees \$9 \$0.04 \$6 \$0.02 - and, building & fence repair \$65 \$0.27 \$81 \$0.32 \$ axes \$70 \$0.29 \$72 \$0.29 \$ eaal estate rent & lease \$91 \$0.37 \$93 \$0.37 \$ nsurance \$59 \$0.24 \$	-					0%	
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nterest paid \$155 \$0.64 \$133 \$0.53 - Other professional fees \$32 \$0.13 \$33 \$0.13 \$ Miscellaneous \$26 \$0.11 \$27 \$0.11 \$ Total Operating Expenses \$4,572 \$18.79 \$4,886 \$19.63 \$ Expansion livestock \$15 \$0.06 \$4 \$0.02 - Extraordinary expenses \$1 \$0.00 \$0.00 \$ Machinery depreciation \$288 \$1.18 \$273 \$1.09 \$ Real estate depreciation \$197 \$0.81 \$190 \$0.76 \$	nsurance					0%	
Other professional fees \$32 \$0.13 \$33 \$0.13 Miscellaneous \$26 \$0.11 \$27 \$0.11 Total Operating Expenses \$4,572 \$18.79 \$4,886 \$19.63 Expansion livestock \$15 \$0.06 \$4 \$0.02 - Extraordinary expenses \$1 \$0.00 \$0 \$0.00 40.00 \$4.886 \$1.09 Machinery depreciation \$197 \$0.81 \$190 \$0.76 \$4.76	Jtilities					15%	
Miscellaneous \$26 \$0.11 \$27 \$0.11 Total Operating Expenses \$4,572 \$18.79 \$4,886 \$19.63 Expansion livestock \$15 \$0.06 \$4 \$0.02 - Extraordinary expenses \$1 \$0.00 \$0 \$0.00 \$4.886 \$1.09 Machinery depreciation \$288 \$1.18 \$273 \$1.09 \$6.76 \$4.890 \$6.76	-					-17%	
Total Operating Expenses \$4,572 \$18.79 \$4,886 \$19.63 Expansion livestock \$15 \$0.06 \$4 \$0.02 - Extraordinary expenses \$1 \$0.00 \$0 \$0.00 \$ Machinery depreciation \$288 \$1.18 \$273 \$1.09 \$ Real estate depreciation \$197 \$0.81 \$190 \$0.76 \$	Other professional fees		\$0.13		\$0.13	0%	
Expansion livestock \$15 \$0.06 \$4 \$0.02 - Extraordinary expenses \$1 \$0.00 \$0 \$0.00 \$ Machinery depreciation \$288 \$1.18 \$273 \$1.09 \$ Real estate depreciation \$197 \$0.81 \$190 \$0.76 \$	Aiscellaneous	<u>\$26</u>	<u>\$0.11</u>	<u>\$27</u>	<u>\$0.11</u>	0%	
Extraordinary expenses \$1 \$0.00 \$0 \$0.00 Machinery depreciation \$288 \$1.18 \$273 \$1.09 \$ Real estate depreciation \$197 \$0.81 \$190 \$0.76 \$		\$4,572	\$18.79	\$4,886	\$19.63	4%	
Machinery depreciation \$288 \$1.18 \$273 \$1.09 Real estate depreciation \$197 \$0.81 \$190 \$0.76	xpansion livestock	\$15	\$0.06	\$4	\$0.02	-67%	
Real estate depreciation \$197 \$0.81 \$190 \$0.76		\$1	\$0.00	\$0	\$0.00	NA	
Real estate depreciation \$197 \$0.81 \$190 \$0.76			\$1.18	\$273	\$1.09	-8%	
						-6%	
	-					3%	
Net Farm Income w/o Appreciation \$698 \$2.87 \$454 \$1.82 -	Net Farm Income w/o Appreciation	\$698	\$2.87	\$454	\$1.82	-37%	

¹ Farms participating both years



FARM BUSINESS CHART FOR FARM MANAGEMENT COOPERATORS

32 New York Dairy Farms, 500 to 999 Cows, 2021, DFBS

S	Size of Business			Rates of Production			ficiency
				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)
20.0	908	24,277,342	29,321	5.1	24.4	81.7	1,969,650
17.1	776	19,991,974	27,140	4.1	21.6	59.7	1,489,282
13.1	669	17,382,152	26,287	3.7	20.3	52.0	1,304,690
10.5	589	14,677,262	25,040	3.3	18.4	46.9	1,170,699
7.8	520	11,253,199	18,832	2.1	12.1	38.6	940,349

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/Cow	Cow	Cwt. Of Milk	Equivalent
(12)	(12)	(12)	(14)	(14)	(12)	(12)	(14)
\$1,052	\$4.82	24	\$601	\$1,289	\$1,549	\$7.29	\$42,358
\$1,582	\$6.05	31	\$860	\$1,755	\$2,029	\$7.95	\$45,261
\$1,706	\$6.58	32	\$1,017	\$1,933	\$2,115	\$8.22	\$47,421
\$1,800	\$6.92	34	\$1,190	\$2,160	\$2,264	\$8.50	\$49,935
\$1,969	\$7.75	38	\$1,554	\$2,696	\$2,425	\$9.52	\$55,302

	Value of Production				Profitability				
		Opr. Cost of	Total Cost of	% Rate of	Net Farm	Labor &			
		Milk	Milk	Return on All	Income	Management	Change in		
Milk Receipts	Milk Receipts	Production	Production Per	Capital w/o	Without	Income Per	Net Worth		
Per Cow	Per Cwt.	Per Cwt.	Cwt.	Apprec.	Apprec.	Operator	With Apprec.		
(12)	(12)	(12)	(12)	(4)	(4)	(4)	(8)		
\$5,866	\$22.22	\$13.31	\$18.81	6.5	\$858,637	\$206,217	\$1,049,308		
\$5,408	\$20.30	\$15.04	\$19.84	4.9	\$595,945	\$102,156	\$587,156		
\$5,221	\$20.03	\$16.23	\$20.95	3.4	\$425,947	\$40,661	\$436,539		
\$4,947	\$19.70	\$17.86	\$22.31	1.2	\$190,642	-\$13,715	\$183,395		
\$3,947	\$18.88	\$20.24	\$25.05	-2.6	-\$197,382	-\$247,147	-\$116,469		

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)
\$9,013	\$914	0.64	0.73	5.17	\$64	96	63
\$11,745	\$1,842	0.55	0.78	1.68	\$435	84	35
\$13,342	\$2,393	0.48	0.81	1.18	\$637	71	22
\$15,374	\$2,968	0.41	0.85	0.57	\$736	59	16
\$18,776	\$4,421	0.37	0.94	0.02	\$1,320	46	-12

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



Same 37 New York Dairy Farms, 1,000 to 1,499 Cows, 2020 & 2021, DFBS

	Average o	f 37 Farms ¹	Percent	
SELECTED FACTORS	2020	2021	- Change	
Size of Business				
Average number of cows	1,230	1,234	0.3%	
Percent heifers to cows, average for year	76%	75%	-2%	
Milk sold, pounds	33,460,325	34,149,591	2%	
Worker equivalent	23.8	23.5	-1%	
Total tillable acres	2,179	2,272	4%	
Rates of Production				
Milk sold per cow, pounds	27,200	27,684	2%	
Hay DM per acre, tons	3	3.6	20%	
Corn silage per acre, tons	18.7	19.6	5%	
Labor Efficiency				
Cows per worker	51.6	52.5	1.8%	
Milk sold per worker, pounds	1,404,126	1,453,793	3.5%	
Cost Control and Milk Price				
Grain & concentrate per cwt. milk	\$6.07	\$6.84	13%	
•			3%	
Net milk income over purchased grain & conc. per cow Dairy feed & crop expense per cwt. milk	\$3,158 \$7.58	\$3,244 \$8.55	13%	
	\$7.58 \$1,778	\$8.55 \$1,836	3%	
Labor and machinery costs per cow Hired labor costs per cwt. milk	\$3.07	\$3.08	0.5%	
Hired labor costs per worker equivalent	\$48,321	\$50,281	4.1%	
Total Farm Operating Costs per Cwt.	\$18.34	\$19.45	4.1 <i>%</i>	
Operating cost of producing milk per cwt. ²	\$16.05	\$16.34	2%	
Purchased input cost of producing milk per cwt. ²	\$17.55	\$17.84	2%	
Total cost of producing milk per cwt. ²	\$19.57	\$19.97	2%	
Net milk price per cwt.	\$17.32	\$18.51	7%	
Government Receipts per cwt.	\$2.49	\$0.17	-93%	
Capital Efficiency (average for year)				
Farm capital per cow	\$11,623	\$12,380	7%	
Machinery and equipment per cow	\$1,755	\$1,890	8%	
Asset turnover ratio	0.56	0.54	-4%	
Profitability				
Net farm income without appreciation	\$1,117,841	\$693,664	-38%	
Net farm income without appreciation per cow	\$909	\$562	-38%	
Net farm income with appreciation	\$1,418,620	\$1,098,964	-23%	
Net farm income with appreciation per cow	\$1,153	\$891	-23%	
Labor & management income per operator/manager	\$280,763	\$80,612	-71%	
Rate return on equity capital with appreciation	13.1%	8.7%	-34%	
Rate return on equity capital without appreciation	9.8%	4.7%	-52%	
Rate return on all capital with appreciation	9.8%	6.9%	-30%	
Rate return on all capital without appreciation	7.7%	4.3%	-45%	
Financial Summary (based on market value, excluding defer	red taxes)			
Farm net worth, end year	\$9,925,473	\$10,457,460	5%	
Debt to asset ratio	0.33	0.34	3%	
Farm debt per cow	\$3,957	\$4,247	7%	
Debt coverage ratio	2.04	1.4	-31%	

¹Farm participating both years



Same 37 New York Dairy Farms, 1,000 to 1,499 Cows, 2020 & 2021, DFBS

	2020		20	21	% Change	
Item	Per Cow ¹	Per Cwt. ¹	Per Cow ¹	Per Cwt. ¹	Per Cwt.	
Average number of cows	1,230		1,234		0.3%	
Cwt. of milk sold		334,603		341,496	2%	
ACCRUAL OPERATING RECEIPTS						
Milk	\$5,082	\$18.68	\$5,502	\$19.88	6%	
Dairy cattle	\$268	\$0.99	\$266	\$0.96	-3%	
, Dairy calves	\$37	\$0.14	\$69	\$0.25	79%	
, Dther livestock	\$30	\$0.11	\$42	\$0.15	36%	
Crops	\$110	\$0.40	\$302	\$1.09	173%	
Miscellaneous receipts	<u>\$791</u>	\$2.91	<u>\$185</u>	\$0.67	-77%	
Total Operating Receipts	\$6,318	\$23.23	\$6,367	\$23.00	-1%	
ACCRUAL OPERATING EXPENSES						
lired labor	\$835	\$3.07	\$854	\$3.08	0.3%	
Dairy grain & concentrate	\$1,651	\$6.07	\$1,893	\$6.84	13%	
Dairy roughage	\$132	\$0.49	\$137	\$0.49	0%	
Nondairy feed	\$1	\$0.00	\$0	\$0.00	NA	
Professional nutritional services	\$1	\$0.01	\$2	\$0.01	0%	
Aachine hire, rent & lease	\$163	\$0.60	\$154	\$0.56	-7%	
Aachine repair & vehicle expense	\$266	\$0.98	\$280	\$1.01	3%	
uel, oil & grease	\$115	\$0.42	\$147	\$0.53	26%	
Replacement livestock	\$27	\$0.10	\$32	\$0.12	20%	
reeding	\$48	\$0.18	\$50	\$0.18	0%	
/eterinary & medicine	\$152	\$0.56	\$156	\$0.56	0%	
Ailk marketing	\$371	\$1.37	\$377	\$1.36	-1%	
edding	\$99	\$0.36	\$100	\$0.36	0%	
Ailking supplies	\$102	\$0.38	\$103	\$0.37	-3%	
Cattle lease	\$9	\$0.03	\$3	\$0.01	-67%	
Custom boarding	\$98	\$0.36	\$101	\$0.37	3%	
BST expense	\$0	\$0.00	\$0	\$0.00	NA	
ivestock professional fees	\$15	\$0.05	\$19	\$0.07	40%	
Other livestock expense	\$16	\$0.06	\$23	\$0.08	33%	
ertilizer & lime	\$102	\$0.38	\$133	\$0.48	26%	
eeds & plants	\$102	\$0.40	\$129	\$0.40 \$0.47	18%	
pray & other crop expense	\$60	\$0.22	\$65	\$0.23	5%	
Crop professional fees	\$7	\$0.03	\$11	\$0.04	33%	
and, building & fence repair	\$96	\$0.35	\$85	\$0.31	-11%	
axes	\$66	\$0.24	\$70	\$0.25	4%	
Real estate rent & lease	\$95	\$0.35	\$106	\$0.38	9%	
nsurance	\$45	\$0.17	\$53	\$0.19	12%	
Itilities	\$ 9 3	\$0.34	\$107	\$0.39	15%	
nterest paid	\$162	\$0.60	\$144	\$0.55 \$0.52	-13%	
Other professional fees	\$24	\$0.00 \$0.09	\$23	\$0.08	-11%	
Aiscellaneous	\$ <u>2</u> 4 <u>\$28</u>	\$0.10 \$0.10	\$29 \$29	<u>\$0.11</u>	10%	
Total Operating Expenses	\$4,989	\$18.34	\$5,385	\$19.45	6%	
Expansion livestock	\$4,989	\$18.34 \$0.04	\$3,383 \$4	\$0.01	-75%	
Extraordinary expenses	\$3	\$0.04 \$0.01	\$4 \$1	\$0.01	-100%	
Machinery depreciation	\$223	\$0.01 \$0.82	\$217	\$0.00 \$0.78	-100%	
Real estate depreciation	\$223 <u>\$183</u>	\$0.82 <u>\$0.67</u>	\$217 <u>\$198</u>	\$0.78 <u>\$0.71</u>	- 5% 6%	
Total Expenses	\$ <u>5,409</u>	\$19.88	\$5,805	\$20.95	5%	
Net Farm Income w/o Appreciation	\$909	\$3.34	\$562	\$2.03	-39%	
Farms participating both years	5056	35.54 NA - Percent change c			-35/0	

¹ Farms participating both years



FARM BUSINESS CHART FOR FARM MANAGEMENT COOPERATORS

37 New York Dairy Farms, 1,000 to 1,499 Cows, 2021, DFBS

S	Size of Business			Rates of Production			fficiency
				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)
30.2	1,455	40,926,563	29,909	5.1	23.6	72.3	2,026,663
26.1	1,362	37,523,561	28,633	4.3	22.0	59.1	1,576,816
23.7	1,233	34,301,527	28,080	3.7	20.4	51.6	1,453,778
21.2	1,133	30,740,776	27,319	3.1	17.3	48.4	1,332,125
17.4	1,029	28,543,386	25,063	1.4	9.4	42.1	1,171,026

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/Cow	Cow	Cwt. Of Milk	Equivalent	
(12)	(12)	(12)	(14)	(14)	(12)	(12)	(14)	
\$1,612	\$5.85	30	\$608	\$1,326	\$1,977	\$7.25	\$43,935	
\$1,806	\$6.54	33	\$819	\$1,724	\$2,243	\$8.24	\$46,952	
\$1,909	\$6.94	35	\$900	\$1,896	\$2,395	\$8.72	\$49,370	
\$2,009	\$7.22	36	\$1,004	\$2,022	\$2,540	\$9.02	\$52,318	
\$2,172	\$7.79	39	\$1,185	\$2 <i>,</i> 335	\$2,753	\$9.73	\$59,697	

	Value of Production				Profitability				
		Opr. Cost of	Total Cost of	% Rate of	Net Farm	Labor &			
		Milk	Milk	Return on All	Income	Management	Change in		
Milk Receipts	Milk Receipts	Production	Production Per	Capital w/o	Without	Income Per	Net Worth		
Per Cow	Per Cwt.	Per Cwt.	Cwt.	Apprec.	Apprec.	Operator	With Apprec.		
(12)	(12)	(12)	(12)	(4)	(4)	(4)	(8)		
\$6,001	\$21.06	\$14.32	\$18.33	8.7	\$1,459,257	\$568,963	\$1,801,530		
\$5,741	\$20.17	\$15.60	\$19.40	5.7	\$907,809	\$176,359	\$1,041,195		
\$5,540	\$19.92	\$16.41	\$20.00	4.6	\$678,426	\$94,948	\$547,728		
\$5,355	\$19.53	\$17.18	\$20.59	3.0	\$512,959	\$17,383	\$267,271		
\$5,025	\$19.02	\$18.86	\$22.19	0.2	\$30,431	-\$246,595	-\$257,612		

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)
\$8,340	\$691	0.79	0.75	11.32	\$117	94	63
\$11,064	\$1,533	0.62	0.79	1.69	\$427	74	32
\$12,252	\$2,014	0.56	0.82	1.42	\$648	66	22
\$14,365	\$2,388	0.50	0.86	0.91	\$874	58	18
\$17,084	\$3,134	0.42	0.92	0.08	\$1,068	33	7

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



Same 32 New York Dairy Farms, 1,500 Cows and Greater, 2020 & 2021, DFBS

	Average of	f 32 Farms ¹	Percent	
SELECTED FACTORS	2020	2021	Change	
Size of Business				
Average number of cows	2,482	2,585	4%	
Percent heifers to cows, average for year	78%	76%	-3%	
Milk sold, pounds	66,246,521	71,106,893	7%	
Worker equivalent	45.3	45.9	1%	
Total tillable acres	3,891	4,044	4%	
Rates of Production				
Milk sold per cow, pounds	26,686	27,508	3%	
Hay DM per acre, tons	3.2	3.8	19%	
Corn silage per acre, tons	17.9	19.0	6%	
abor Efficiency				
Cows per worker	54.8	56.4	2.8%	
Milk sold per worker, pounds	1,463,365	1,550,521	6.0%	
Cost Control and Milk Price				
	¢c 02	¢c.cc	110/	
Grain & concentrate per cwt. milk	\$6.02	\$6.66	11%	
Net milk income over purchased grain & conc. per cow	\$3,045 \$7.39	\$3,184 \$8.15	5% 10%	
Dairy feed & crop expense per cwt. milk	\$7.39 \$1,659	\$8.15 \$1,753	10% 6%	
Labor and machinery costs per cow	\$3.08	\$3.06	-1%	
Hired labor costs per cwt. milk Hired labor costs per worker equivalent	\$49,086	\$51,552	5.0%	
Total Farm Operating Costs per Cwt.	\$17.66	\$18.43	4%	
Operating cost of producing milk per cwt. ²	\$16.10	\$15.85	-2%	
Purchased input cost of producing milk per cwt. ²	\$17.57	\$17.26	-2%	
Total cost of producing milk per cwt. ²	\$19.56	\$19.26	-2%	
Net milk price per cwt.	\$17.23	\$18.25	6%	
Government Receipts per cwt.	\$2.49	\$0.08	- 97%	
Capital Efficiency (average for year)				
Farm capital per cow	\$11,304	\$11,794	4%	
Machinery and equipment per cow	\$1,578	\$1,634	4%	
Asset turnover ratio	0.54	0.54	0%	
Profitability				
Net farm income without appreciation	\$2,091,562	\$1,640,336	-22%	
Net farm income without appreciation per cow	\$843	\$635	-25%	
Net farm income with appreciation	\$2,518,794	\$2,382,978	-5%	
Net farm income with appreciation per cow	\$1,015	\$922	-9%	
Labor & management income per operator/manager	\$348,803	\$186,035	-47%	
Rate return on equity capital with appreciation	11.1%	9.5%	-14%	
Rate return on equity capital without appreciation	8.9%	6.0%	-33%	
Rate return on all capital with appreciation	8.9%	7.6%	-15%	
Rate return on all capital without appreciation	7.3%	5.1%	-30%	
inancial Summary (based on market value, excluding defe	rred taxes)			
Farm net worth, end year	\$20,598,983	\$21,945,772	7%	
Debt to asset ratio	0.3	0.31	3%	
Farm debt per cow	\$3,414	\$3,704	8%	
Debt coverage ratio	2.36	1.65	-30%	

¹Farm participating both years



Same 32 New York Dairy Farms, 1,500 Cows and Greater, 2020 & 2021, DFBS

	20)20	2021		_ % Change	
Item	Per Cow ¹	Per Cwt. ¹	Per Cow ¹	Per Cwt. ¹	Per Cwt.	
Average number of cows	2,482		2,585		4%	
Cwt. of milk sold		662,465		711,069	7%	
ACCRUAL OPERATING RECEIPTS						
Milk	\$4,941	\$18.51	\$5,383	\$19.57	6%	
Dairy cattle	\$295	\$1.11	\$294	\$1.07	-4%	
Dairy calves	\$43	\$0.16	\$64	\$0.23	44%	
Other livestock	\$2	\$0.01	\$14	\$0.05	400%	
Crops	\$65	\$0.24	\$228	\$0.83	246%	
Miscellaneous receipts	<u>\$626</u>	<u>\$2.35</u>	<u>\$152</u>	<u>\$0.55</u>	-77%	
Total Operating Receipts	\$5,972	\$22.38	\$6,135	\$22.30	0%	
ACCRUAL OPERATING EXPENSES						
Hired labor	\$822	\$3.08	\$843	\$3.06	-1%	
Dairy grain & concentrate	\$1,606	\$6.02	\$1,831	\$6.66	11%	
Dairy roughage	\$123	\$0.46	\$147	\$0.53	15%	
Nondairy feed	\$0	\$0.00	\$0	\$0.00	NA	
Professional nutritional services	\$1	\$0.00	\$0	\$0.00	NA	
Machine hire, rent & lease	\$136	\$0.51	\$156	\$0.57	12%	
Machine repair & vehicle expense	\$252	\$0.95	\$266	\$0.97	2%	
Fuel, oil & grease	\$105	\$0.39	\$141	\$0.51	31%	
Replacement livestock	\$38	\$0.14	\$29	\$0.10	-29%	
Breeding	\$57	\$0.21	\$58	\$0.21	0%	
/eterinary & medicine	\$144	\$0.54	\$148	\$0.54	0%	
Milk marketing	\$342	\$1.28	\$363	\$1.32	3%	
Bedding	\$83	\$0.31	\$88	\$0.32	3%	
Milking supplies	\$93	\$0.35	\$88	\$0.32	-9%	
Cattle lease	\$95 \$1	\$0.01	\$2	\$0.01	0%	
Custom boarding	\$103	\$0.39	\$99	\$0.36	-8%	
3ST expense	\$0	\$0.00	\$0	\$0.00	NA	
Livestock professional fees	\$0 \$20	\$0.00	\$18	\$0.06	-14%	
Other livestock expense	\$20	\$0.07	\$18	\$0.10 \$0.10	25%	
Fertilizer & lime	\$87	\$0.33	\$106	\$0.39	18%	
			-			
Seeds & plants	\$102 ¢F0	\$0.38	\$99 \$55	\$0.36	-5% 5%	
Spray & other crop expense	\$50 ¢5	\$0.19		\$0.20		
Crop professional fees	\$5	\$0.02	\$4	\$0.01	-50%	
Land, building & fence repair	\$85 ¢57	\$0.32	\$76	\$0.28	-13%	
Taxes	\$57	\$0.21	\$59	\$0.21	0%	
Real estate rent & lease	\$80 642	\$0.30	\$81	\$0.29	-3%	
nsurance	\$42	\$0.16	\$38	\$0.14	-13%	
Jtilities	\$81	\$0.30	\$94	\$0.34	13%	
nterest paid	\$127	\$0.48	\$106	\$0.39	-19%	
Other professional fees	\$25	\$0.09	\$22	\$0.08	-11%	
Viscellaneous	<u>\$25</u>	<u>\$0.09</u>	<u>\$25</u>	<u>\$0.09</u>	0%	
Total Operating Expenses	\$4,714	\$17.66	\$5,070	\$18.43	4%	
Expansion livestock	\$23	\$0.09	\$41	\$0.15	67%	
Extraordinary expenses	\$0	\$0.00	\$0	\$0.00	NA	
Machinery depreciation	\$202	\$0.76	\$205	\$0.75	-1%	
Real estate depreciation	<u>\$190</u>	<u>\$0.71</u>	<u>\$183</u>	\$0.67	-6%	
Total Expenses	\$5,129	\$19.22	\$5,499	\$20.00	4%	
Net Farm Income w/o Appreciation	\$843	\$3.16 NA - Percent change of	\$635	\$2.31	-27%	

¹ Farms participating both years



FARM BUSINESS CHART FOR FARM MANAGEMENT COOPERATORS

33 New York Dairy Farms, 1,500 Cows and Greater, 2021, DFBS

	Size of Business		Rates of Production			Labor Ef	fficiency
				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)
77.2	4,288	119,501,511	29,823	5.5	24.3	73.5	2,047,172
51.0	3,039	85,112,872	28,613	4.7	21.5	61.7	1,696,495
43.7	2,318	62,924,663	27,621	3.9	19.6	56.4	1,537,062
34.8	1,874	49,984,474	26,734	3.5	17.8	52.3	1,405,899
26.5	1,629	44,177,182	24,773	2.6	14.8	46.1	1,252,218

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/Cow	Cow	Cwt. Of Milk	Equivalent
(12)	(12)	(12)	(14)	(14)	(12)	(12)	(14)
\$1,415	\$5.43	28	\$616	\$1,413	\$1,734	\$6.75	\$44,589
\$1,657	\$6.16	31	\$764	\$1,635	\$2,025	\$7.47	\$47,970
\$1,811	\$6.56	34	\$869	\$1,770	\$2,213	\$8.01	\$50,745
\$1,991	\$6.99	36	\$968	\$1,900	\$2,430	\$8.61	\$54,885
\$2,241	\$7.95	40	\$1,113	\$2,184	\$2,766	\$9.66	\$61,676

Value of Production					Profita	ability	
		Opr. Cost of	Total Cost of	% Rate of	Net Farm	Labor &	
		Milk	Milk	Return on All	Income	Management	Change in
Milk Receipts	Milk Receipts	Production	Production Per	Capital w/o	Without	Income Per	Net Worth
Per Cow	Per Cwt.	Per Cwt.	Cwt.	Apprec.	Apprec.	Operator	With Apprec.
(12)	(12)	(12)	(12)	(4)	(4)	(4)	(8)
\$5,905	\$20.79	\$13.40	\$17.81	7.8	\$3,201,218	\$705,572	\$3,378,469
\$5,644	\$20.08	\$14.94	\$18.60	6.3	\$2,222,345	\$363,788	\$2,097,658
\$5,492	\$19.58	\$15.96	\$19.33	5.6	\$1,645,397	\$220,413	\$1,566,867
\$5,242	\$19.18	\$16.75	\$20.13	3.9	\$1,177,341	\$84,608	\$678,422
\$4,714	\$18.66	\$18.11	\$21.38	1.0	\$269,236	-\$228,779	-\$675,600

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)
\$8,249	\$918	0.84	0.71	8.50	\$33	96	108
\$10,651	\$1,281	0.62	0.79	2.64	\$275	85	34
\$11,521	\$1,643	0.57	0.81	1.43	\$540	70	25
\$13,409	\$2,070	0.51	0.85	1.11	\$703	56	21
\$18,149	\$2,738	0.38	0.91	0.16	\$946	42	12

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OTHER A.E.M. EXTENSION BULLETINS

EB No	Title	Fee (if applicable)	Author(s)
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2022-09	2020 Farm Employee Compensation Benchmark Report	Stup, R., Sr	nith, L., and Karszes, J.
2022-08	The Economic Contributions of Agriculture to the Northern New York Economy: Jefferson, Lewis, Oswego, and St. Lawrence Counties, 2019 & 2020	Schmit, T.,	and Liu, X.
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2021-06	Effects of NY Overtime Laws on Agricultural Production Costs and Competitiveness	Wolf, C., St	up, R., and Karszes, J.
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