Minnesota State Colleges and Universities

State Farm Business Management Program Database

Dairy Farm Sort - 2008

Financial Sort Categories:

(By Gross Revenue) \$50,001 to \$100,000 \$100,001 to \$250,000 \$250,001 to \$500,000 \$500,001 to \$1,000,000 Over \$1,000,000

Enterprise Sort Categories:

(By Herd Size)
Up to 50 Cows
51 to 100 Cows
101 to 200 Cows
201 to 500 Cows
Over 500 Cows

*** Including 5-yr & 20-yr trend of selected data from the statewide average. ***

Location of the Regional Program Center:	Minnesota Region:
Central Lakes Community and Technical College	Northeast and East Central
Minnesota West Community and Technical College	Southwestern
Northland Community and Technical College	Northwestern & Red River Valley
Ridgewater Community and Technical College	Central and West Central
Riverland Community and Technical College	Southeastern
South Central College	South Central

April, 2009



A MEMBER OF THE MINNESOTA STATE COLLEGES
AND UNIVERSITIES SYSTEM

In Cooperation with the Center for Farm Financial Management University of Minnesota

For more information, contact Dr. Richard Joerger at richard.joerger@so.mnscu.edu or visit the Farm Business Management Program Website: www.mgt.org

General Financial Summary

Farm Business Management Education Programs Minnesota State Colleges and Universities (Dairy Farms Sorted by Gross Farm Income)

	(Duny Furnic	Contour by Ci	OSS FAITH HICO	1110)		
	Avg. Of	50,001 -	100,001 -	250,001 -	500,001 -	Over
	All Farms	100,000	250,000	500,000	1,000,000	1,000,000
Ni wash a wash fa was a	440	40	400	454	00	
Number of farms	449	18	103	154	88	82
Income Statement						
Gross cash farm income	726,459	80,870	171,509	358,109	718,731	2,299,251
Total cash farm expense	607,251	73,227	139,450	283,726	587,783	1,968,989
Net cash farm income	119,208	7,643	32,059	74,383	130,948	330,261
Inventory change	23,204	812	783	6,369	12,218	100,851
Depreciation and capital adjust	-33,638	-6,576	-8,194	-21,168	-38,492	-91,173
Net farm income	108,773	1,880	24,649	59,584	104,674	339,940
Median net farm income	58,164	1,510	20,236	59,731	106,228	262,868
Profitability (cost)	•	,	•	·	·	,
Rate of return on assets	8.1%	-2.1%	3.1%	6.4%	7.1%	10.4%
	10.4%	-13.5%	-0.1%	6.9%	8.1%	15.0%
Rate of return on equity						
Operating profit margin	17.2%	-10.9%	9.4%	17.2%	16.6%	18.4%
Asset turnover rate	47.2%	19.2%	33.4%	37.0%	43.0%	56.6%
<u>Liquidity</u>						
Current assets	227,972	34,161	56,092	123,949	226,320	694,178
Current liabilities	134,387	40,805	41,921	78,702	127,414	389,219
Ending current ratio	1.70	0.84	1.34	1.57	1.78	1.78
Ending working capital	93,584	-6,644	14,170	45,247	98,906	304,959
End working capital to gross inc	12.40%	-7.70%	8.00%	12.10%	13.30%	12.70%
Term debt coverage ratio	1.57	0.55	0.78	1.19	1.41	1.97
Replacement coverage ratio	1.44	0.49	0.71	1.05	1.28	1.84
Solvency (cost)	440	40	400	454	00	00
Number of farms	449	18	103	154	88	82
Total farm assets	1,228,999	338,059	399,623	773,724	1,326,976	3,269,049
Total farm liabilities	627,223	189,776	231,711	407,608	673,321	1,610,199
Total assets	1,323,440	406,021	484,436	875,866	1,431,758	3,359,742
Total liabilities	648,282	209,774	252,757	426,306	689,493	1,641,962
Ending net worth	674,958	196,247	231,679	449,559	742,265	1,716,682
Net worth change	58,655	-4,359	5,186	19,611	45,355	230,446
Farm debt to asset ratio	51%	56%	58%	53%	51%	49%
Total debt to asset ratio	49%	52%	52%	49%	48%	49%
Solvency (market)						
Number of farms	449	18	103	154	88	82
Total farm assets	1,556,856	513,027	582,747	1,044,209	1,699,392	3,883,799
Total farm liabilities	627,223	189,776	231,711	407,608	673,321	1,610,199
Total assets	1,664,612	602,257	679,782	1,159,466	1,814,413	3,991,660
Total liabilities	775,918	249,768	302,391	514,240	838,197	1,943,870
Ending net worth	888,694	352,488	377,390	645,226	976,215	2,047,790
Net worth change	81,651	5,220	15,039	41,216	73,878	270,626
Farm debt to asset ratio	40%	37%	40%	39%	40%	41%
Total debt to asset ratio	47%	41%	44%	44%	46%	41%
	47 /0	4170	44 /0	44 /0	40 /0	4970
Nonfarm Information						
Net nonfarm income	11,163	26,723	14,426	11,473	9,755	4,896
Farms reporting living expenses	103	3	23	45	24	8
Total family living expense	40,831	24,130	33,542	41,168	44,573	54,930
Total living, invest, & capital	59,114	29,527	45,306	54,593	82,795	64,301
Crop Acres						
Total acres owned	182	146	138	171	187	265
Total crop acres	312	117	120	218	328	772
Total crop acres owned	0.2			127	145	173
	123	u _h				
Total crop acres cash rented	123 189	95 21	66 54			
Total crop acres cash rented Total crop acres share rented	123 189 1	95 21 -	54 0	90 1	181	598 0

Farm Business Management Education Programs

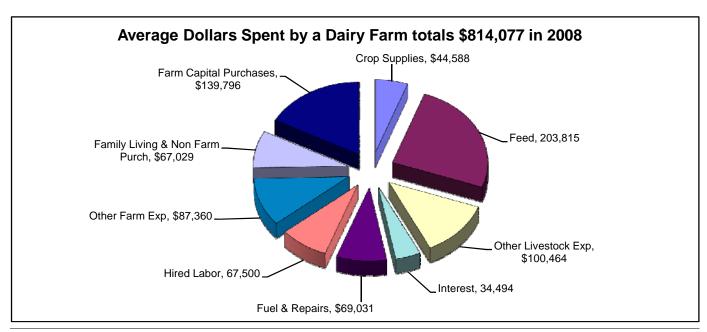
Dairy Farm Sort

April, 2009

Financial Standards Measures

Farm Business Management Education Programs
Minnesota State Colleges and Universities
(Dairy Farms Sorted by Gross Farm Income)

	Avg. Of All Farms	50,001 - <u>100,000</u>	100,001 - <u>250,000</u>	250,001 - <u>500,000</u>	500,001 - <u>1,000,000</u>	Over <u>1,000,000</u>
Number of farms	449	18	103	154	88	82
<u>Liquidity</u>						
Current ratio	1.7	0.84	1.34	1.57	1.78	1.78
Working capital	93,584	-6,644	14,170	45,247	98,906	304,959
Working capital to gross inc	12.40%	-7.70%	8.00%	12.10%	13.30%	12.70%
Solvency (market)						
Farm debt to asset ratio	48%	43%	48%	47%	48%	49%
Farm equity to asset ratio	52%	57%	52%	53%	52%	51%
Farm debt to equity ratio	0.94	0.75	0.92	0.9	0.93	0.97
Profitability (cost)						
Rate of return on farm assets	8.10%	-2.10%	3.10%	6.40%	7.10%	10.40%
Rate of return on farm equity	10.40%	-13.50%	-0.10%	6.90%	8.10%	15.00%
Operating profit margin	17.20%	-10.90%	9.40%	17.20%	16.60%	18.40%
Net farm income	108,907	1,741	24,910	59,585	104,502	340,559
EBIDTA	177,180	20,628	45,072	103,120	181,751	519,891
Repayment Capacity						
Capital debt repayment capacity	126,495	10,126	21,665	60,090	125,476	415,634
Capital debt repayment margin	46,129	-8,301	-5,958	9,705	36,228	204,761
Replacement margin	38,556	-10,529	-9,029	3,082	27,156	189,878
Term debt coverage ratio	1.57	0.55	0.78	1.19	1.41	1.97
Replacement coverage ratio	1.44	0.49	0.71	1.05	1.28	1.84
Efficiency_						
Asset turnover rate (cost)	47.2%	19.2%	33.4%	37.0%	43.0%	56.6%
Operating expense ratio	76.6%	76.0%	74.5%	72.3%	75.5%	78.4%
Depreciation expense ratio	4.4%	7.7%	4.6%	5.7%	5.2%	3.8%
Interest expense ratio	4.6%	12.8%	6.7%	6.0%	5.2%	3.7%
Net farm income ratio	14.4%	2.0%	14.1%	16.0%	14.1%	14.1%



Farm Business Management Education Programs

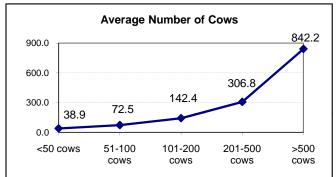
Dairy Farm Sort **April, 2009**

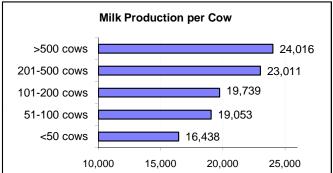
State Database	Sorted by Average Number of Dairy Cows					
Dairy Cow Enterprise	Up to	51 to	101 to	201 To	Over	
(Sorted by Herd Size)	50 Cows	100 Cows	200 Cows	500 Cows	500 Cows	
Number Of Farms	105	189	111	59	20	
Milk sold (hd)	3,219.85	3,667.35	3,859.19	4,440.88	4,672.64	
Milk used in home (hd)	3.57	1.93	0.71	0.05	-	
Milk fed to animals (hd)	20.84 75.19	12.17 33.81	17.91 28.25	13.16 30.80	12.02 27.39	
Dairy Calves sold (hd) Transferred out (hd)	101.84	62.50	63.27	36.16	30.74	
Cull sales (hd)	149.23	149.41	138.05	131.95	168.60	
Butchered (hd)	7.32	5.53	1.81	1.85	0.11	
Hedging gain/loss Other income	- 7.67	<mark>-0.09</mark> 15.22	- <mark>0.95</mark> 9.02	- <mark>9.11</mark> 6.15	-38.48 2.61	
Purchased (hd)	-128.07	-89.96	-107.35	-141.60	-88.74	
Transferred in (hd)	-146.96	-110.82	-140.97	-99.80	-39.90	
Inventory change (hd)	30.29 -241.69	44.12 -411.86	91.72	126.54 -374.36	58.22 -452.24	
Dairy repl net cost Gross margin	3,099.08	3,379.30	-364.11 3,596.55	4,162.65	-452.24 4,352.97	
Direct Expenses	0,000.00	0,0.0.00	0,000.00	., . 0=.00	.,002.01	
Protein Vit Minerals (lb.)	363.57	468.41	535.52	671.65	699.64	
Complete Ration (lb.)	184.26	212.80	236.58	274.58	193.65	
Corn (bu.)	205.08 160.03	240.97 210.56	243.36 221.08	233.92 249.89	222.37 265.21	
Corn Silage (lb.) Hay, Alfalfa (lb.)	280.87	233.96	234.50	199.44	138.53	
Haylage, Alfalfa (lb.)	49.55	138.75	104.09	152.00	150.97	
Other feed stuffs (lb)	173.37	109.42	139.12	104.63	159.81	
Veterinary	87.23 3.63	92.25 8.76	102.28 15.14	124.01 36.76	136.18 74.55	
BST Supplies	253.87	251.96	246.41	287.32	229.95	
Fuel & oil	79.66	83.90	99.96	111.99	122.37	
Repairs	116.80	115.45	100.17	97.42	104.43	
Custom hire	12.04 21.08	21.04 34.10	37.97 68.34	45.23 169.68	79.13 143.65	
Hired labor Hauling and trucking	67.72	56.52	44.22	52.53	38.71	
Marketing	34.68	38.68	36.67	39.45	58.64	
Bedding	19.64	38.65	50.79	73.39	80.26	
Total direct expenses	2,113.09 985.99	2,356.17 1,023.13	2,516.18 1,080.37	2,923.90 1,238.75	2,898.05 1,454.93	
Return over direct expense	905.99	1,023.13	1,000.37	1,230.73	1,454.95	
Overhead Expenses Hired labor	43.74	92.02	179.85	294.95	404.51	
Building leases	10.15	13.53	14.91	63.76	93.11	
Utilities	74.02	76.62	55.22	44.87	44.84	
Interest	99.27 110.62	105.55 125.00	128.12 141.70	113.05 137.74	115.88 124.19	
Mach & bldg depreciation Miscellaneous	116.79	98.54	88.60	97.77	112.26	
Total overhead expenses	454.59	511.28	608.40	752.13	894.78	
Total dir & ovhd expenses	2,567.68	2,867.44	3,124.58	3,676.03	3,792.83	
Net return	531.40	511.85	471.97	486.62	560.15	
Labor & management charge	369.30	300.80	240.02	204.48	128.84	
Net return over lbr & mgt	162.09	211.06	231.95	282.14	431.31	
Cost of Production per CWT						
Total direct expense per cwt.	12.85	12.37	12.75	12.71	12.07	
Total dir& ovhd expense per cwt.	15.62 16.50	15.05 16.64	15.83 17.25	15.98 17.24	15.79 17.17	
With other revenue adjustments With labor and management	18.75	18.21	18.47	18.13	17.17	
Est. labor hours per unit	48.28	42.44	36.47	42.75	43.83	
Other Information	10.20		00.11	12.10	10.00	
Avg. number of Cows	38.9	72.5	142.4	306.8	842.2	
Milk produced per Cow	16,438	19,053	19,739	23,011	24,016	
Culling percentage	23.8	24.6	23.2	22.0	28.0	
Turnover rate	32.6 7.7	32.8 7.2	31.7 8.1	29.9 7.6	36.6 8.5	
Cow death loss percent Percent of barn capacity	7.7 91.6	7.2 104.4	107.8	7.6 110.6	116.9	
Feed cost per day	3.88	4.42	4.70	5.17	5.01	
Feed cost per cwt of milk	8.62	8.48	8.68	8.20	7.62	
Feed cost per Cow	1,416.72	1,614.87	1,714.24	1,886.12	1,830.18	
Avg. milk price per cwt.	19.76	19.33	19.64	19.36	19.51 Dairy Farm Sort	
Farm Business Management Education Programs A Member of the Minnesota State Colleges & Universities System April, 2009						

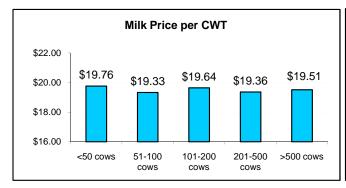
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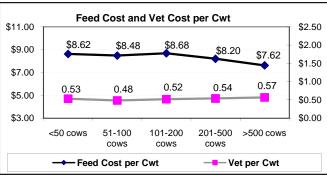
Selected Dairy Enterprise Factors from the Farm Business Management Program Database

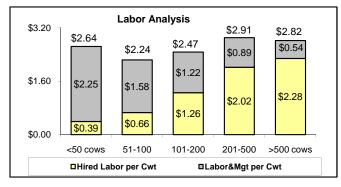
		up to 50	51-100	101-200	201-500	over 500
Herd Size	State Ave.	cows	cows	cows	cows	cows
Number of Farms	484	105	189	111	59	20
Ave # of Cows	140.4	38.9	72.5	142.4	306.8	842.2
Milk Prod. Per Cow	21,300	16,438	19,053	19,739	23,011	24,016
Feed Cost per Cwt	\$8.21	\$8.62	\$8.48	\$8.68	\$8.20	\$7.62
Interest per Cwt	\$0.61	\$0.60	\$0.55	\$0.65	\$0.49	\$0.48
Vet per Cwt	\$0.53	\$0.53	\$0.48	\$0.52	\$0.54	\$0.57
Hired Labor per Cwt	\$1.60	\$0.39	\$0.66	\$1.26	\$2.02	\$2.28
Deprec/Lease per Cwt	\$0.83	\$0.73	\$0.73	\$0.79	\$0.88	\$0.90
Milk Price per Cwt	\$19.47	\$19.76	\$19.33	\$19.64	\$19.36	\$19.51
Dir & Ovhd Cost per Cwt	\$15.71	\$15.62	\$15.05	\$15.83	\$15.98	\$15.79
Return over Dir & Ovhd per Cow	<i>\$506</i>	\$531	\$512	\$472	\$487	\$560
Herd Profit over Dir&Ovhd	\$71,097	\$20,671	\$37,109	\$67,209	\$149,295	\$471,758
Labor&Mgt per Cwt	\$1.05	\$2.25	\$1.58	\$1.22	\$0.89	\$0.54
Net per Cow after Labor&Mgt	\$283	\$162	\$211	\$232	\$282	\$431
Herd Profit over Labor&Mgt	\$39,719	\$6,306	\$15,301	\$33,030	\$86,561	\$363,249

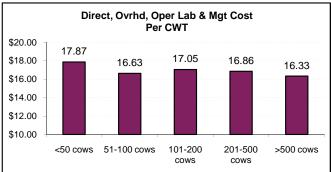




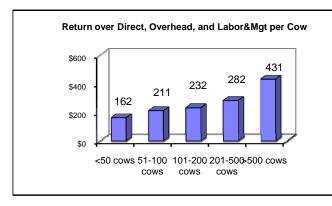


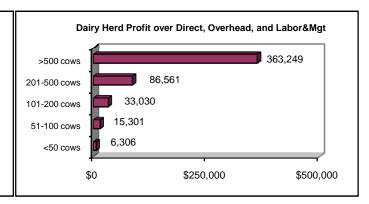


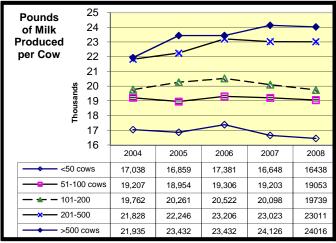


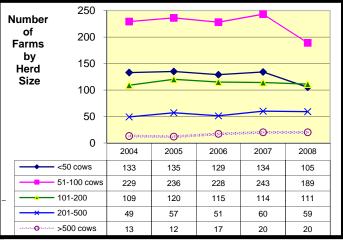


Selected Dairy Enterprise Factors from the Farm Business Management Program Database

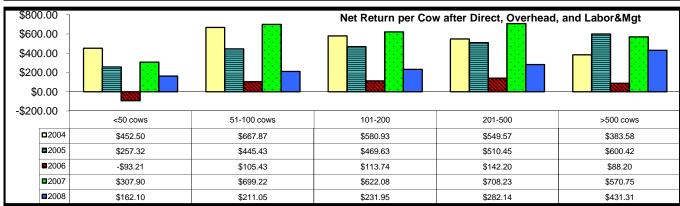












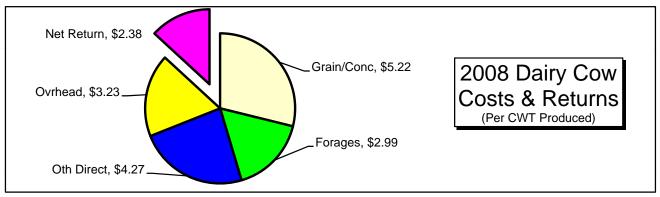
Farm Business Management Education Programs

Dairy Farm Sort

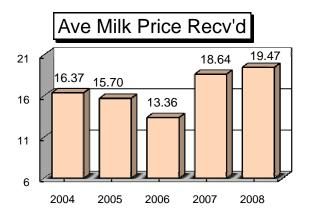
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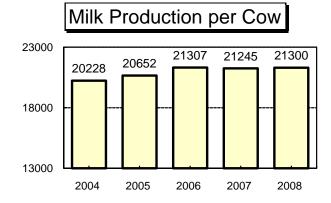
April, 2009

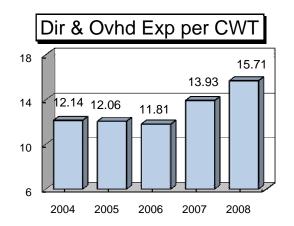
Summary of Selected Dairy Enterprise Factors - Average Farm Data

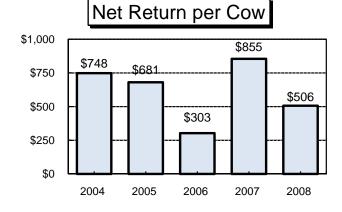


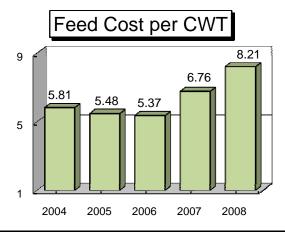
The data on this page is from the Dairy Cow Enterprise includes a "Net Cost for Dairy Replacements", new in 2008.

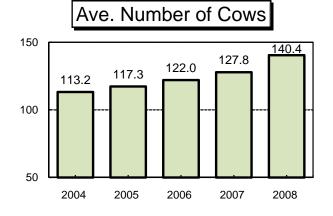








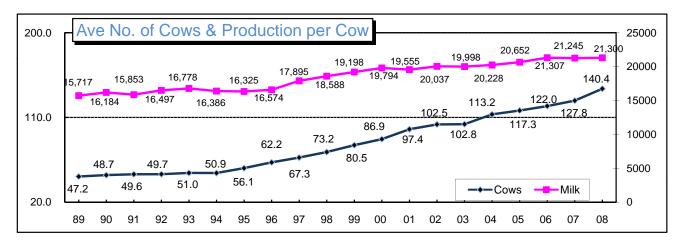


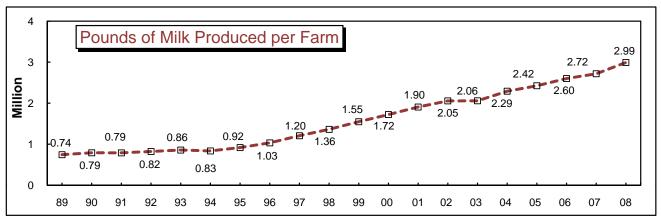


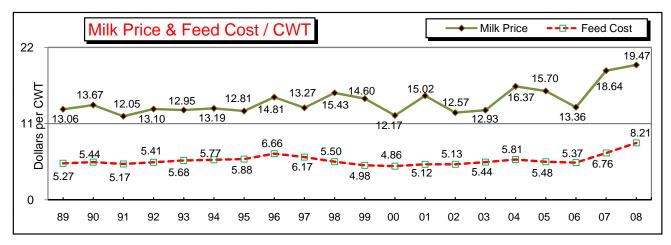
Farm Business Management Education Programs

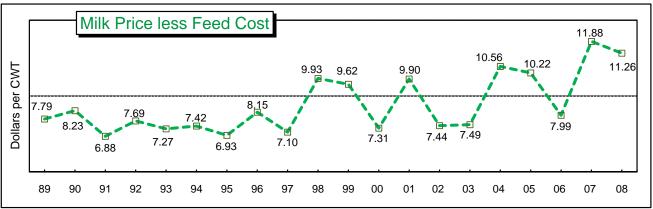
Dairy Farm Sort **April, 2009**

A Twenty Year History of Selected Dairy Information









Farm Business Management Education Programs

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