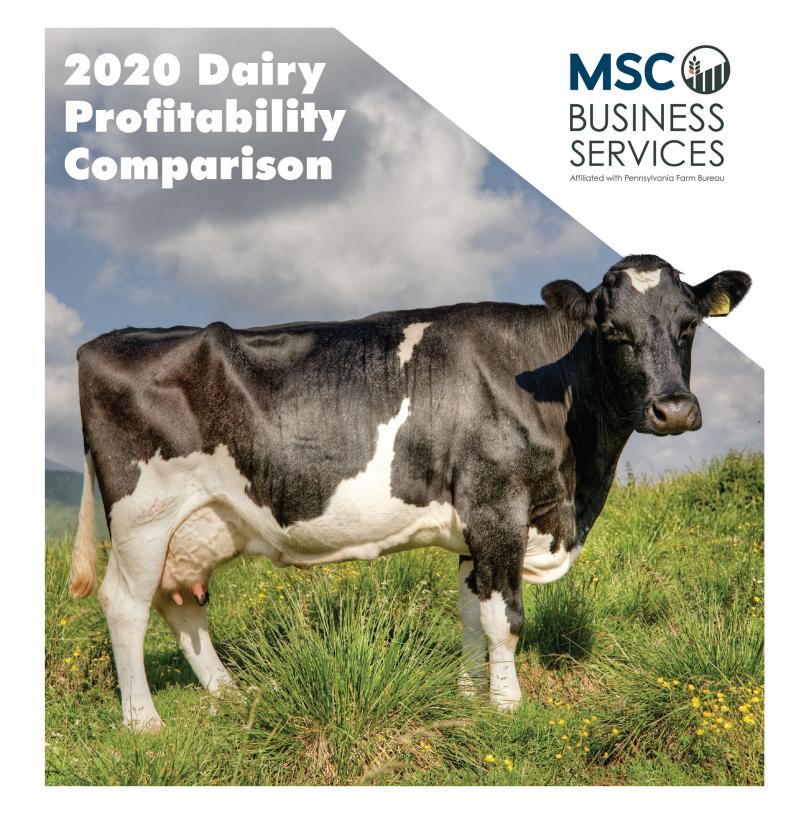


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Management Study Comparison 2020									
	•	Farm	404.00	Comparable Size Farms		Top 10%		004.05	
	Avg # Cows Milk Sold /Cow		104.60 24,157	Avg # Cows Milk Sold /Cow		104.05 21,253	Avg # Cows Milk Sold /Cow		201.65 24,654
	Dollars	\$/Cow	\$/CWT	Dollars	\$/Cow	\$/CWT	Dollars	\$/Cow	\$/CWT
Revenue	Dollars	φ/ΟΟΨ	Ψ/ΟΥΥΙ	Dollars	φ/σσν	Ψ/ΟΥΤ	Dollars	Ψ/ΟΟΨ	Ψ/ΟΥΥΙ
Milk, Sold	\$438,137	\$4,189	\$17.34	\$407,295	\$3,914	\$18.42	\$928,010	\$4,602	\$18.67
Ag Program Payments	91,335	873	3.61	81,984	788	3.71	172,707	856	3.47
Livestock Income	45,952	439	1.82	26,808	258	1.21	65,332	324	1.31
Crop Income	2,701	26	0.11	9,859	95	0.45	47,262	234	0.95
Miscellaneous	3,251	31	0.13	1,936	19	0.09	6,973	35	0.14
Custom Hire	0	0	0.00	2,611	25	0.12	5,723	28	0.12
Other Income	16,263	155	0.64	18,813	181	0.85	18,812	93	0.38
Total Revenue	\$597,639	\$5,713	\$23.65	\$549,306	\$5,280	\$24.85	\$1,244,819	\$6,172	\$25.04
Production Costs									
Feed Expenses	\$63,792	\$610	\$2.52	\$146,181	\$1,405	\$6.61	\$227,308	\$1,127	\$4.57
Labor Expenses	27,999	268	1.11	26,635	256	1.20	77,200	383	1.55
Rent - Lease of Real Estate	42,083	402	1.67	16,002	154	0.72	56,154	278	1.13
Repairs (Machinery)	36,907	353	1.46	28,514	274	1.29	43,760	217	0.88
Supply Expenses	12,981	124	0.51	26,467	254	1.20	42,044	208	0.85
Fertilizer	20,200	193	0.80	12,105	116	0.55	37,291	185	0.75
Machine Hire (Custom Work)	49,618	474	1.96	24,695	237	1.12	37,143	184	0.75
Seeds & Plants	22,937	219	0.91	19,779	190	0.89	29,616	147	0.60
Chemicals (Sprays or Pestici.)	0	0	0.00	8,659	83	0.39	21,751	108	0.44
Gasoline, Fuel, Oil (Business)	8,681	83	0.34	11,527	111	0.52	19,081	95	0.38
Vet and Medicine	8,075	77	0.32	9,481	91	0.43	17,301	86	0.35
Utilities (Business)	15,245	146	0.60	14,358	138	0.65	15,568	77	0.31
Repairs (Real Estate)	14,110	135	0.56	6,080	58	0.27	12,201	61	0.25
Other Production Costs	23,806	228	0.94	28,304	272	1.28	39,381	195	0.79
Total Production Costs	\$346,434	\$3,312	\$13.70	\$378,787	\$3,639	\$17.12	\$675,799	\$3,351	\$13.60
Administrative Costs									
Management Labor	\$57,929	\$554	\$2.29	\$58,247	\$560	\$2.63	\$95,294	\$473	\$1.92
Economic Depreciation	19,000	182	0.75	47,082	452	2.13	81,218	403	1.63
Marketing Expenses	51,025	488	2.02	34,985	336	1.58	71,117	353	1.43
Insurance (Business)	9,427	90	0.37	11,595	111	0.52	19,946	99	0.40
Other Administrative Costs	2,655	25	0.11	12,142	117	0.55	18,973	94	0.38
Total Administrative Costs	\$140,036	\$1,339	\$5.54	\$164,051	\$1,576	\$7.41	\$286,548	\$1,422	\$5.76
Interest Expense	\$0	\$0	\$0.00	\$13,701	\$132	\$0.62	\$21,567	\$107	\$0.43
Net Margin	\$111,169	\$1,062	\$4.41	(\$7,233)	(\$67)	(\$0.30)	\$260,905	\$1,292	\$5.25
Disclaimer: Numerous factors, many beyond the scope of the data in this summary, influence individual results. All data reported reflects past performance and does not predict or forecast future results. The data reported is believed to be accurate,									
but Pennsylvania Farm Bureau, MSC Business Service recognizing that Pennsylvania Farm Bureau, MSC Busi	s makes no warranty or repres	sentation, expre	ssed or implied,	, as to its suitability or fitness f	or any purpose.	The user of this			

Analytical Study Comparision 2020

	My Farm	Comparable Size Farms	Top 10%
airy Productivity Factors			
Total # Milk Shipped (CWTs)	2,526,811	2,211,407	4,971,418
Somatic Cells (1,000s)	224	199	177
Cow Cull Rate	42%	34%	36%
Dairy Animal Inventory Change	\$10,600	\$469	(\$1,437)
Internal Herd Growth	4.85%	0.09%	-1.85%
Replacements per Cow	0.96	0.83	0.76
Purchased Feed & Crop Exp / CWT	\$4.43	\$8.09	\$7.36
Net Milk Price / CWT	\$15.32	\$16.81	\$17.32
Total Cost Prod Milk / CWT	\$12.94	\$19.37	\$13.52
Pur Feed / Milk Income	16%	28%	20%
Milk Shipped / Man	1,263,406	1,032,757	1,226,343
Total Feed Fed / CWT	\$10.00	\$11.46	\$8.07
Milk Inc. over T. Feed / Cow	\$1,767	1,048	1,487
Return per \$100 Feed Fed	\$192	\$140	\$151
atios			
Return on Assets	14.02%	1.11%	10.60%
Current Ratio	6.75:1	10.12:1	4.45:1
EBITD / Cow	\$1,791	\$1,111	\$2,328
Percent Net Worth	80%	57%	61%
Operating Expense %	81%	102%	80%
Interest Expense %	0%	3%	2%
Asset Turnover (years)	1.33	3.15	2.76
Total Business Prod / Man	\$301,380	\$251,285	\$328,805
Labor Productivity Ratio	7.01:1	6.95:1	7.94:1
Total Man Equivalents	2.00	2.47	4.32
Dairy Debt per Cow	\$0	\$3,330	\$3,720
Cows / Man	53	49	53
Como / Iman			
Other Cost Analysis			
Total Fixed Costs / CWT	\$7.10	\$9.47	\$8.60
Total Variable Costs / CWT	\$12.15	\$17.11	\$13.71
Direct Crop Expense / Acre	\$138	\$128	\$115
Crop Margin / Acre	\$113	\$49	\$118
Value Forage Harv / For Acre	\$681	\$442	\$459
Value Grain Harv / Grain Acre	\$550	\$338	\$410
		400-	A440
Machine Op Cost / Acre	\$316	\$207	\$146

The data in the Comparable Size Farms column is designed to average, as closely as possible, farms with roughly the same number of cows milked as your farm. The data is not from all farms in the MSC Business Services database, but is only from those utilizing conventional feeding systems that have been designated as included in this summary by their Account Supervisor.

The Top 10% Farms were chosen based on Net Margin per cwt within the MSC Business Services database. These farms utilize conventional feeding systems and have been designated as included in this summary by their Account Supervisor.

TABLE 1

MSC Business Services

Key Dairy Benchmarks per CWT

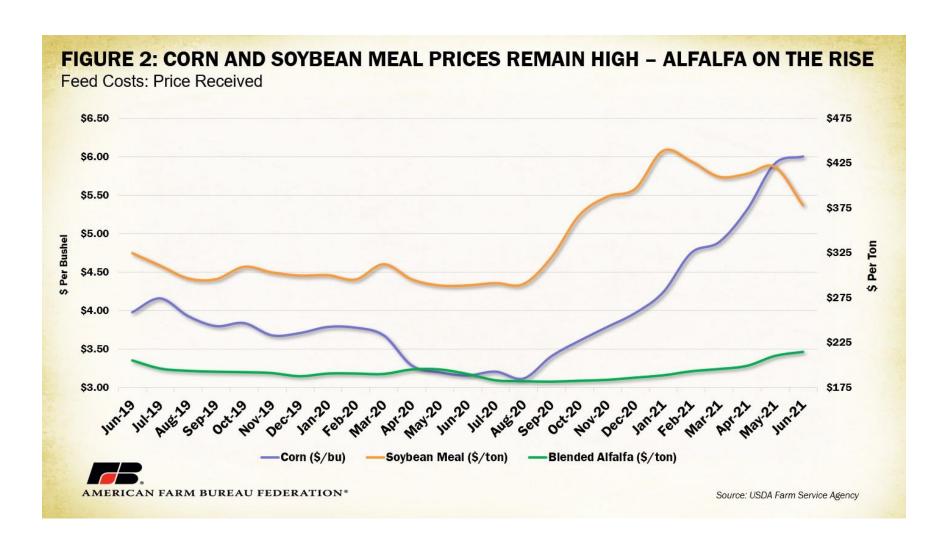
		2012	2013	2014	2015	2016	2017	2018	2019	2020	Avg
Income	2.011	440 77	404.40	405.55	440.44	446.07	440.66	447.40	440.04	440.50	440 =0
	Milk	\$19.77	\$21.40	\$25.57	\$18.14	\$16.97	\$18.66	\$17.10	\$19.34	\$18.56	\$19.50
	Livestock Income*	\$1.50	\$1.48	\$1.87	\$2.27	\$1.61	\$1.46	\$1.02	\$1.23	\$1.08	\$1.50
	Other**	\$2.06	\$1.59	\$1.28	\$1.25	\$1.55	\$1.31	\$1.94	\$2.26	\$4.86	\$2.01
Total Income		\$23.33	\$24.47	\$28.72	\$21.66	\$20.13	\$21.43	\$20.06	\$22.83	\$24.50	\$23.01
Expenses											
	Management Labor	\$2.20	\$2.10	\$2.19	\$1.92	\$1.84	\$1.86	\$1.77	\$1.75	\$1.74	\$1.93
	Feed*	\$6.60	\$6.20	\$6.97	\$6.17	\$6.02	\$5.40	\$6.09	\$6.23	\$6.82	\$6.28
	Hired Labor	\$1.84	\$1.97	\$2.06	\$1.99	\$2.03	\$2.00	\$2.11	\$2.11	\$2.09	\$2.02
	Interest	\$0.69	\$0.63	\$0.63	\$0.55	\$0.59	\$0.58	\$0.68	\$0.71	\$0.58	\$0.63
	Rent	\$0.69	\$0.77	\$0.84	\$0.84	\$0.91	\$0.90	\$0.91	\$1.06	\$1.01	\$0.88
	Milk Marketing	\$1.09	\$1.11	\$1.14	\$1.22	\$1.24	\$1.27	\$1.31	\$1.31	\$1.44	\$1.24
	Dairy Expenses	\$2.30	\$2.23	\$2.47	\$2.10	\$2.11	\$2.07	\$2.01	\$2.05	\$2.00	\$2.15
	Crops (Seed, Chem, Fert, Fuel)	\$2.85	\$2.74	\$2.89	\$2.22	\$1.95	\$2.05	\$2.04	\$2.29	\$2.20	\$2.36
	Depreciation	\$1.63	\$1.55	\$1.62	\$1.63	\$1.69	\$1.67	\$1.65	\$1.67	\$1.63	\$1.64
	Other	\$3.43	\$3.77	\$4.33	\$3.86	\$3.43	\$3.67	\$3.66	\$3.75	\$4.11	\$3.78
Total Expens	es	\$23.32	\$23.07	\$25.14	\$22.50	\$21.81	\$21.47	\$22.23	\$22.93	\$23.62	\$22.90
Net Margin		\$0.01	\$1.40	\$3.58	-\$0.84	-\$1.68	-\$0.04	-\$2.17	-\$0.10	\$0.88	\$0.12
*Adjusted for Inventory Change (Livestock Inventory for Livestock Income and Crop Inventory for Feed)											
** 2020 othe	r income includes \$3.15 in Goverer				-						
	Avg # Cows	134	149	164	161	160	169	180	210	213	
	Milk Sold per Cow	20,036	20,466	20,909	20,970	21,236	21,248	21,095	21,163	21,893	
		4	4	4	4		4		4	4	Total
	Yearly Net Margin	\$268	\$42,997	\$122,761	-\$30,321	-\$61,802	-\$515	-\$89,442	-\$4,062	\$45,102	-\$20,116
											Avg.
											\$2,776

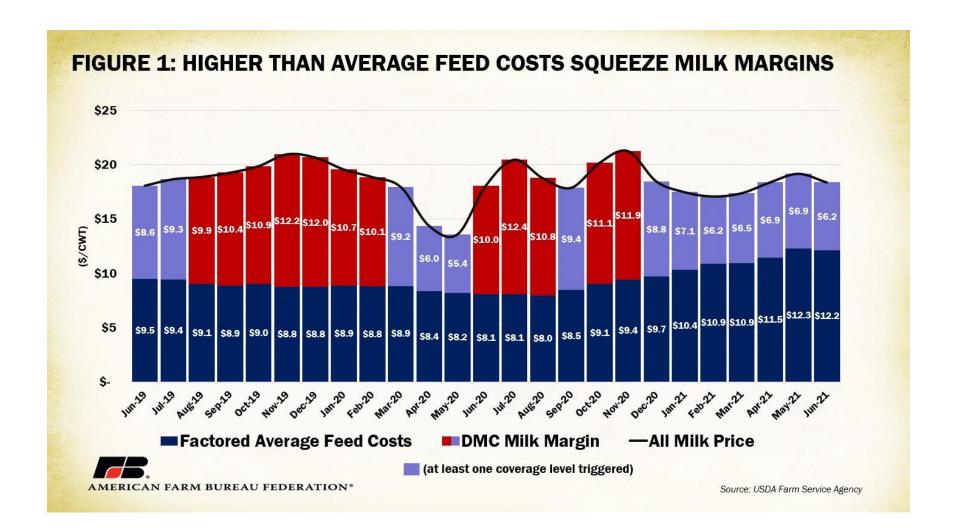
Table 2

MSC Business Services

Key Dairy Benchmarks - Purchased Feed and Crop Expense to Milk Price

Year	Purchased Feed & Crop Expense (Per CWT)	Avg. Milk Price (Per CWT)	Percent of Feed & Crop Expense to Milk Price
2010	\$7.69	\$18.05	43%
2011	\$9.50	\$21.87	43%
2012	\$9.45	\$19.77	48%
2013	\$8.94	\$21.40	42%
2014	\$9.86	\$25.57	39%
2015	\$8.39	\$18.14	46%
2016	\$7.97	\$16.97	47%
2017	\$7.45	\$18.66	40%
2018	\$8.13	\$17.10	48%
2019	\$8.52	\$19.34	44%
2020	\$8.51	\$18.56	46%





Wayne Brubaker, Consultant MSC Business Services

Wayne Brubaker has served PA Farm Bureau members since 1978. Beginning as an Account Supervisor in Bradford County, moving to Franklin County in 1980 and assuming the position of Consultant in 2008. He has worked extensively with over 200 farms helping with financial planning, farm management, tax planning and preparation, business planning and transition planning. During his tenure, he has helped numerous farms transition from one generation to the next. He has been around so long that he is now helping the third generation take over grandpa's farm.

Wayne has a BS degree in Business Administration with a minor in Accounting from Messiah College and is an IRS Enrolled Agent.

He is married, has three married children and nine grandchildren. He is actively involved in his church where he leads worship and teaches Sunday School.