

CentralStar

BIG BOOK

FROM GET MORE
YOUR

GENETICS.
REPRODUCTION.
MILK.
DATA.
HERD'S HEALTH.



2024



Dairy Greatness from Great Lakes Farmers



Founded in 1916, the Michigan Milk Producers Association (MMPA) is a farmer-owned milk marketing cooperative and dairy processor. MMPA's member farms, located throughout the Great Lakes Region, lead the way in quality milk production. Nationally recognized for their commitment to quality, MMPA serves its member-owners every day, not only by marketing their milk, but by providing services and opportunities to all.





Getting More

Who doesn't want more? I'm not talking about being ostentatious, but instead desiring greater outcomes from your current efforts and investments.

Recently, we've been part of producer surveys and focus groups, and the resounding themes include "efficiency" and "sustainability." Making strides in these areas has, and will come through new products and processes, but much can also be achieved with increased focus on optimizing current efforts ... *getting more*.

Throughout these pages, you will see references to "Get more from your ...," because we believe even when the individual components of your farm are operating at top performance, opportunities still exist to get more from your herd's genetics, reproduction, DHI data, milk sample, and overall herd health.

This year's ReproStar Award winners leveraged their CentralStar teams, and achieved high levels of reproductive efficiency, while creating more sustainable herds. The process of getting to that point may have started with genetic selection and intense management of reproduction protocols, but they expanded far beyond the early steps to "get more." Begin reading their stories on page 17.

When you peruse the year-end Top DHI reports, consider the advantages these producers have in turning data into action for more efficiency and sustainability. CentralStar's consultants have the knowledge, experience, and functional expertise to accomplish this, allowing you to *get more* from your herd.

CentralStar has been delivering on the *get more* mindset for decades. Because of the cooperative's decision to invest in our own research and development (R&D), producers and veterinarians across the U.S. and Canada *get more* from routine DHI samples by also testing them for pregnancy, Johne's, leukosis, and a host of other options. This technology continues to help dairies *get more* by reducing farm labor and increasing the value a vial of milk taken at DHI test provides.

Consider for a moment what you know about CentralStar. You might depend on us for genetic selection and A.I. service. Maybe it's DHI or diagnostic testing. Or, it could be animal-health products. Using any of these areas independent of another certainly brings value to your farm, but could you *get more* by intertwining these services together? We know the answer is yes and welcome the opportunity to work with you for the benefit of *getting more* efficiency and sustainability from your herd.

On behalf of the CentralStar team,

Kelly Bristle
Director, Member Relations and Promotions

Who's Who

- 5 Pioneer Award
- 17-20 ReproStar Award Winners

DHI year-end production reports

- 11-15 Top 300 ECM Herds
- 21-23 Top ECM Protein Breed Herds
- 25-26 Low SCC Herds
- 28-30 Top Herds by Size & ECM

Resources

- 11, 25, 30 Key Performance Indicators
- 1p-25p Herd Management Product Solutions
- 5p Guide to Calf Care Challenges
- 7p, 14p Research and Case Studies
- 11p Guide to Cow Health Challenges
- 18p-19p Decoding Mastitis PCR Results

On the Cover

Larson Acres, Inc., Evansville, Wis. L to R: CentralStar Area Sales Manager Ben Sarbacker, Larson Acres, Herdsman Paul Poppy, CentralStar CowManager Specialist, Matt Staner.



Fine Print

Reports and Key Performance Indicators are based on the period of 10/1/22 - 9/30/23. Owner-sampler and commercial herds are not eligible for report rankings. Energy Corrected Milk (ECM) calculation = (pounds of milk x .327) + (pounds of fat x 12.95) + (pounds of protein x 7.65). Herds with cows milked more than 2X per day are labeled as 3X herds.

Minimums to appear include:

- Number of processed tests = 9 or a DCR >90
- Herd size: 25 cows
- ECM: mixed-breed and Red & White herds: 20,000, Protein-breed herds: 16,000



CentralStar

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2023



PIONEER AWARD



“The growth and development of people is the highest calling of a leader.”

John C. Maxwell

Recognized as a top leadership expert in the world, it’s no surprise John C. Maxwell’s training and teachings were a constant for this year’s Pioneer Award recipient, Gary A. Smith. A 38-year team member with the cooperative, Gary had an entrepreneurial spirit and passion for people. He was truly a pioneer implementing leadership and development strategies for the benefit of the cooperative’s customers.

“What I enjoyed most about my career was seeing people grow both personally and professionally,” shared Gary. “Prioritizing people development allowed us to keep moving a sound organization forward, while staying profitable, and providing services to customers to help them add more to their bottom line.”

A career that spanned from April 1977 until retirement in March 2015, Gary’s roles were diverse and his contributions many. “I was drawn to Michigan Animal Breeders Cooperative (MABC) because of the chance to work with farmers and animals,” shared Gary. “But I soon realized it was the opportunities to help people develop their own skills for personal growth and to help our customers that I enjoyed the most.”

In 1977, Gary began his career as an A.I. Technician-Distributor in western Michigan. Soon after, he became A.I. Training Specialist for west Michigan and Indiana teaching

producers the art of artificial insemination. In 1980, he was promoted to Regional Sales Manager for northern and central Michigan, during which he was instrumental in assisting with the development and implementation of a computerized-mobile-sales program, resulting in improved efficiency and accuracy for the cooperative. Also, he created the cooperative’s first sales-training program, and developed a consultative-selling team, positioning the organization to better integrate sales and service to dairy producers.

From 1988 – 1997, Gary served as Director of Marketing and Sales, and Sales Manager. In 1997, he was named Director of Ag Sales and Technologies and was charged with developing a new revenue stream for the cooperative. Through his leadership, herd-management-product sales and technical-consultative services grew from \$197,000 to more than \$2 million annually.

Recognizing his expertise of training, people development, and sales, in 2003 the Board of Directors selected Gary to be General Manager and Executive Vice President. Through Gary’s 12-year leadership, revenues grew from \$13.5 million to over \$25 million, enabling the return of more than \$5.1 million in patronage to member-stockowners.

Gary was dedicated to creating a strong team and did so by initiating a learning culture that was committed to customer excellence. He is credited for initiating an online learning center to enhance team-member knowledge and skills for the benefit of themselves and

customers. He also identified the need to create teams of service specialists to work with customers. “Implementing a team approach at that time was critical to advancing the cooperative,” shared Gary. “Our offerings had expanded and included DHI services, research and development, and diagnostic testing, so it was time to bring everyone together for the benefit of customers.”

In March 2015, Gary retired from the cooperative, and CentralStar Board President, Paul Trierweiler shared, “Gary has poured his heart and soul into our organization. His passion for the cooperative and employees is evident in the success we have experienced during his leadership.”

Upon retirement, Gary continued his passion for developing people. In 2015, he started Gary A Smith Consulting Services, providing motivational and strategic team-growth approaches for individuals and businesses. In 2016, he joined the Michigan State University Demmer Center for Shooting Sports, Education, and Training as a Range Safety Officer and a USA Shooting Pistol Coach. Additionally, he continued to own and operate RodMaster Fishing Charters, LLC, on Lake Michigan. In 2021, Gary finally retired from it all and became a full time RV Wanderer, exploring America with his wife Denise.

The CentralStar Pioneer Award was established in 1977 to recognize individuals who, through unselfish and dedicated service as leaders, have provided the cooperative and its members greater prosperity, today, and a more secure tomorrow.

GET MORE FROM YOUR GENETICS AND REPRODUCTION

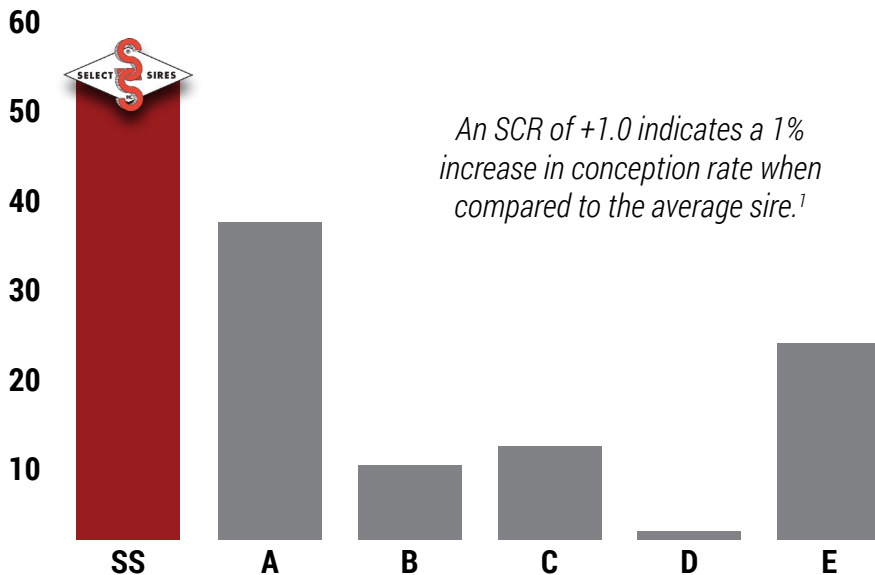
Leverage breed-leading genetics and proven reproductive programs to maximize your herd's potential and productivity. We can help you with day-to-day reproduction work and the strategic plans necessary to optimize heifer inventory, while providing programs to maximize your beef-on-dairy calves.



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SIRE CONCEPTION RATE

HOLSTEIN ACTIVE YOUNG SIRES $\geq +1.0$ SCR



An SCR of +1.0 indicates a 1% increase in conception rate when compared to the average sire.¹

Source: August 2023 Holstein Genomic Young Sire Active A.I. Listing. ¹USDA.

GENETIC IMPROVEMENT

➤ Access to the world's best dairy, beef, and crossbreeding genetics to create the herd you want. Take your genetic selection to the next level when you enroll in Select Sires' NxGEN[®] program for early access to the most elite Holstein sires.



GET
STARTED
TODAY!



REPRODUCTION MANAGEMENT

- Utilize professional A.I. Specialists to manage your herd's reproductive needs including heat detection, breeding, and synchronization program administration.
- Add CowManager®, a revolutionary ear-tag sensor that works 24/7 to detect every cow's fertility and health status.



COWMANAGER



INVENTORY MANAGEMENT

- Based on your herd goals, we provide mating recommendations to meet inventory needs and achieve genetic goals.
- Identify genetically-superior animals to make replacements from when you genomic test.
- Strategically use sexed and conventional dairy semen, custom-selected beef semen, and full-beef embryos to optimize inventory management.



HERD PERFORMANCE MONITORING

- Even when the individual areas of your dairy are operating at top performance, opportunities for optimizing total outcomes still exist. CentralStar Consultants track trends, troubleshoot areas impacting performance, and provide insights to key management areas, helping you to get more from your herd.



GET MORE FROM YOUR MILKHERD & DATA

With just a few ounces of milk collected through routine DHI testing you get essential information that impacts your herd's productivity, health, and profitability. At pennies a day, DHI is arguably one of the best investments you can make to improve herd performance.

DATA-DRIVEN MANAGEMENT DECISIONS

- Accurate data collection
- Customized DHI programs for any size herd and set-up
- Seamless data transfer to breed associations
- Official test types meet CDCB requirements
- Records processed through DRMS, the largest dairy records processing center in the USA!

CONVENIENT & COST-EFFECTIVE DIAGNOSTIC TESTS

- Use milk samples to gain insights for health and physiology, saving you time and eliminating labor to find, sort, and lock-up cows
- Add analysis for A1/A2, BVD, BLV, Johne's, mastitis, neospora, pregnancy and more
- Perform multiple tests on one sample
- Send samples direct to lab or through routine DHI testing

TURN DATA INTO ACTION

- Choose from hundreds of standard printed reports or custom build reports specific to your herd
- Maximize milk quality with FREE SCC reports
- Leverage DART (formerly PCDART) dairy management software and mobile-app for convenient access to insights for herd management. Interfaces with most major milking and electronic heat- and health-monitoring systems. Affordable per cow pricing, local support, and FREE program updates.





SCC Hot Sheet - FREE

Provides SCC scores for all cows and ranks their contribution to the bulk tank. Emailed within 24 hours of sample processing.

Index	Barn	Milk	Fat %	Pro %	SCS	Count	MUN	DIM	Lact	CAR	W/O	%
1409	1409	88.5	3.2	2.6	8.6	4851		79	6		140	12.7
1521	1521	80.3	3.4	3.0	8.5	4526		185	4		123	10.8
1884	1884	82.3	4.4	3.4	7.5	2263		160	2		115	5.5
1758	1758	70.0	5.1	3.4	7.1	1715		179	3		109	3.6

7 Test Days with Herdmate Deviation (220)

Tracks trends for milk and SCC. Lactation-to-date data includes deviation from herdmates, ranking cows within the herd.

Batch	Breed	Permanent ID	SCC and Milk Weights by Test Day							Sample Day Data			Barn Name	Lactation To Date										Projected 305 2X ME			Times Bred	Bred Date	Due Date
			Test Date	Test Date	Test Date	Test Date	Test Date	Test Date	Test Date	Milk	Fat%	Income Over Feed \$		Lact No.	Fresh Date	Days in Milk	Milk	Fat	Pro	CAR	Income Over Feed \$	Diff. from Herdmates							
			03-30	04-27	05-27	06-22	07-20	08-21	SCC													Pro%	Summit Milk	Index	Days Dry	Age Yr/Mo			
HO 2	840003008538901	MORTAIL	98	96	88	92	89	84	69.9	3.6	119	701	6	6-16	466	44600	1804	1306	B	100	31437	1326	933	2	10-23	7*29			
HO 1	840003003831045	SCORPIO	TF	115	156	132	128	148	116.5	3.7	135	775	6	3-27	181	23485	853	658	C	98	33215	1220	969	3	8-28	6-04			
HO 1	840003011934894	SHOT	DRY	DRY	138	160	144	136	136.0	2.3	152	794	6	5-12	135	18956	538	504	C	107	34629	984	977	1	8-07	5-14			

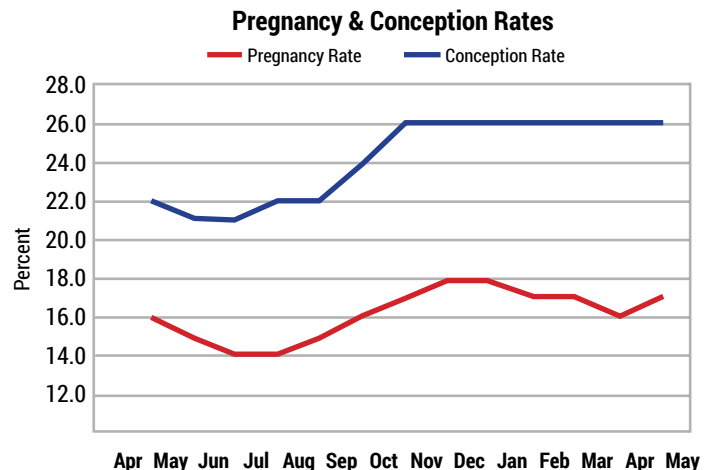
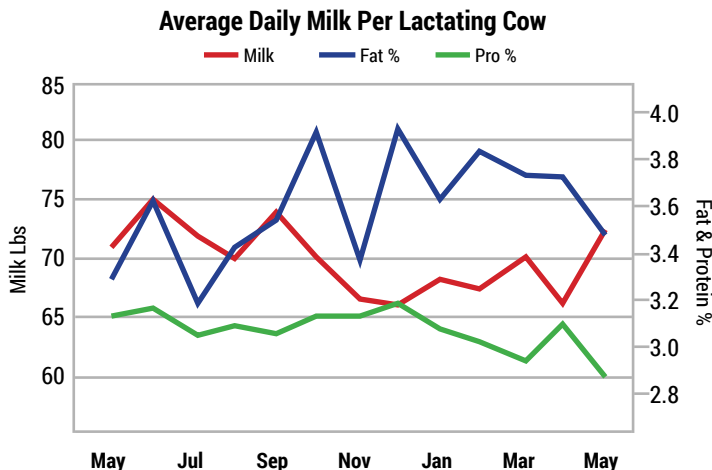
Udder Health Monitor (427)

Monitors SCC by lactation group. Identifies cows to cull for poor udder health. Overview benchmarks herd with top 20% of cohort herds.

Cows to Treat or Watch - 1st Lactation																		
Infected this test or last test (SCC >= 200K (SCS >= 4.0)) and DIM >= 5																		
Index	Grp	Lact. #	DIM	Milk	SCC	Prev. SCC	Inf. Level	Lact. Avg. SCC	Prev. Lact. Avg. SCC	Tests Infected		Date 1st Infected	DIM 1st Inf.	30 Day Milk Loss	305 2X ME Milk	Prev. Lact. 305 2X ME Milk	Days Since Bred	Prog.
										#	%							
8772	3	1	226	81.2	650	429	CHR	214	~~~~	4	57	2-12-13	135	83	28,487	~~~~	150	P
8720	3	1	407	89.2	528	66	NEW	264	~~~~	7	54	7-09-12	98	77	33,155	~~~~	157	P
8726	3	1	389	57.7	348	132	NEW	100	~~~~	2	17	3-12-13	326	63	33,722	~~~~	221	P

Herd Evaluator (402)

Monitor trends to trouble-shoot and identify areas of opportunity in a herd. Easy-to-read herd overview summarizes key areas known to affect profitability on Midwest dairies including average daily milk, SCC, turnover and death loss, pregnancy and conception, and herd inventory. Graphs provide quick visual with data tables providing more in-depth information.



IMPORTANT NOTICE



KeepOrBeef
HeiferHub
CowCompass
MilkMetrics
DairyDepot
ActivityAlerts

New Products from DRMS give you

- Cloud access***
- Real-time data***
- Regional Benchmarks***



3X	Herd	Breed	Size	Milk	Fat	F%	Prot.	P%	CFP	ECM
1	* Koester Dairy Inc., Dakota, IL	HO	412	36,429	1,578	4.3	1,154	3.2	7.5	41,175
2	* Lew-Max LLC, Belding, MI	HO	690	34,119	1,568	4.6	1,074	3.1	7.2	39,679
3	* Horsens Homestead Farms, Cecil, WI	HO	1,451	34,785	1,483	4.3	1,148	3.3	7.2	39,362
4	* Kellercrest Reg Hol Inc., Mount Horeb, WI	HO	334	33,750	1,506	4.5	1,115	3.3	7.2	39,069
5	* Sand Creek Dairy LLC, Hastings, MI	HO	962	35,658	1,434	4.0	1,153	3.2	7.1	39,051
6	* Zorowski Family Farms LLC, Custer, WI	HO	469	33,838	1,491	4.4	1,111	3.3	7.1	38,873
7	* Nor-Bert Farms, Bremen, IN	BS	27	29,632	1,576	5.3	1,080	3.6	7.3	38,361
8	* Blaser Farms Inc., Gillett, WI	HO	605	34,486	1,421	4.1	1,093	3.2	6.9	38,040
9	Tom Engelken, Earlville, IA	HO	221	34,543	1,385	4.0	1,124	3.3	6.9	37,830
10	* Shiloh Dairy, Greenleaf, WI	HO	2,665	32,733	1,468	4.5	1,056	3.2	6.9	37,793
11	* Nobis Dairy Farms, St Johns, MI	HO	1,004	35,275	1,382	3.9	1,064	3.0	6.7	37,571
12	* Tom Kunkel, Cuba City, WI	HO	244	33,593	1,437	4.3	1,035	3.1	6.8	37,512
13	* Feltz Family Farm, Stevens Point, WI	HO	791	34,445	1,376	4.0	1,101	3.2	6.8	37,505
14	* Nathan & Tajia Retzlaff, Shawano, WI	HO	150	34,665	1,364	3.9	1,091	3.1	6.7	37,345
15	* Abel Dairy Farms, Fond Du Lac, WI	HO	4,247	32,207	1,459	4.5	1,018	3.2	6.8	37,213
16	* First Farms, Ionia, MI	HO	568	33,658	1,388	4.1	1,043	3.1	6.7	36,960
17	* Top-Deck Farms, Westgate, IA	HO	719	32,224	1,431	4.4	1,010	3.1	6.7	36,795
18	* Whitetail Valley Dairy LLC, Waupaca, WI	HO	327	34,312	1,332	3.9	1,072	3.1	6.6	36,670
19	* Gibbs Family Dairy, Waterville, IA	HO	592	31,978	1,429	4.5	1,004	3.1	6.7	36,643
20	* Fischer & Clark Dairy, Hatley, WI	XX	1,014	32,301	1,390	4.3	1,051	3.3	6.7	36,603
21	* Mark Vanderhyde - Spartan Farm, Sparta, MI	HO	269	29,755	1,528	5.1	920	3.1	6.7	36,555
22	Dan & Tim Liner, Van Dyne, WI	HO	261	33,542	1,317	3.9	1,102	3.3	6.6	36,454
23	* Fred & Pat Beer, Milford, IN	HO	1,055	32,678	1,382	4.2	1,028	3.1	6.6	36,447
24	* Harry & Gary Sanborn, Hubbardston, MI	HO	700	33,363	1,353	4.1	1,038	3.1	6.6	36,372
25	* Mitchell Ronnebaum, Earlville, IA	HO	183	32,071	1,376	4.3	1,049	3.3	6.6	36,331
26	* Lucky 7 Dairy, McBain, MI	HO	2,008	34,656	1,295	3.7	1,071	3.1	6.5	36,296
27	* Crandall Farms LLC, Battle Creek, MI	HO	355	32,160	1,372	4.3	1,047	3.3	6.6	36,293
28	* Newell Farms, Trufant, MI	HO	473	33,328	1,322	4.0	1,075	3.2	6.6	36,242
29	* Weishaar Family Farm, Westfield, WI	HO	353	33,286	1,353	4.1	1,023	3.1	6.5	36,232
30	* Heimans Holsteins LLC, Marshfield, WI	HO	535	32,008	1,372	4.3	1,038	3.2	6.6	36,175
31	* Wayside Dairy, Greenleaf, WI	HO	2,571	31,389	1,398	4.5	995	3.2	6.6	35,980
32	* Smka Farms LLC, Algoma, WI	HO	501	33,612	1,323	3.9	1,016	3.0	6.4	35,896
33	* Five Star Dairy, Elk Mound, WI	HO	1,080	31,027	1,399	4.5	987	3.2	6.5	35,813
34	* Ambrosius Dairy Farm, Seymour, WI	HO	126	33,137	1,318	4.0	1,023	3.1	6.4	35,730
35	* Sugar Creek Dairy, Elkhorn, WI	HO	637	32,673	1,305	4.0	1,057	3.2	6.5	35,670
36	Devon & Doreen Zimmerman, Claypool, IN	HO	332	31,869	1,319	4.1	1,051	3.3	6.5	35,542
37	* Quantum Dairy LLC, Weyauwega, WI	HO	3,547	30,639	1,393	4.5	974	3.2	6.5	35,509
38	* Tony Rosebrugh, West Branch, MI	XX	788	32,871	1,310	4.0	1,014	3.1	6.4	35,470
39	* Scott & Dawn Seward, Pine River, WI	HO	455	32,711	1,313	4.0	1,010	3.1	6.4	35,426
40	* Banner Ridge Farms LLC, Platteville, WI	HO	551	32,407	1,307	4.0	1,030	3.2	6.4	35,402
41	* George Kasbergen, Mansfield, IL	HO	3,707	33,703	1,281	3.8	1,017	3.0	6.3	35,390
42	Kevin Solum, Deer Park, WI	HO	1,347	30,463	1,355	4.4	1,029	3.4	6.5	35,381
43	Mark Lensing, Calmar, IA	HO	939	31,420	1,336	4.3	1,001	3.2	6.4	35,233
44	Gav-N-View Farm, Lansing, IA	HO	477	30,071	1,392	4.6	963	3.2	6.5	35,227
45	* W-R-L Daniels Farm, Whittemore, MI	HO	671	29,734	1,403	4.7	956	3.2	6.5	35,205
46	* Mike Zagata, Sebewaing, MI	HO	709	31,395	1,352	4.3	969	3.1	6.4	35,187
47	* Winore Holsteins, Milton, WI	HO	90	33,415	1,251	3.7	1,053	3.2	6.3	35,183
48	* Neil Christianson, Shiocton, WI	HO	189	31,383	1,324	4.2	994	3.2	6.4	35,012
49	* J-Max, LLC, Fremont, MI	HO	1,634	32,469	1,296	4.0	990	3.0	6.3	34,974
50	* Dairy Dreams, Casco, WI	XX	4,529	29,131	1,381	4.7	982	3.4	6.5	34,922
51	* Spring Breeze Dairy, Bryant, WI	HO	4,446	32,722	1,262	3.9	1,028	3.1	6.3	34,907
52	* Katie & Jeff Falk, Monroe, WI	HO	603	31,927	1,321	4.1	962	3.0	6.3	34,906
T	Greg & Jenny Conway, Lansing, IA	HO	170	30,719	1,345	4.4	973	3.2	6.4	34,906
54	Stuart Farms, Lowell, MI	HO	433	30,693	1,325	4.3	1,007	3.3	6.4	34,899
55	* Ed Walter Farm Inc., Oshkosh, WI	HO	318	31,344	1,310	4.2	998	3.2	6.3	34,849
56	* Ronald & Nancy Felten, St. Cloud, WI	HO	470	31,050	1,306	4.2	1,014	3.3	6.4	34,823
57	Jim & Matt Wautier, Brussels, WI	HO	56	31,341	1,312	4.2	990	3.2	6.3	34,812
58	* Buning Dairy LLC, Falmouth, MI	HO	710	32,791	1,253	3.8	1,025	3.1	6.2	34,790
59	Derek Hammerand, Dubuque, IA	HO	221	31,054	1,317	4.2	986	3.2	6.3	34,753
60	* Doug Fairbanks, Anamosa, IA	HO	285	31,286	1,307	4.2	991	3.2	6.3	34,737
61	Darren Rusch, Pound, WI	HO	407	30,749	1,328	4.3	975	3.2	6.3	34,711
62	* Todd & Bryce Mark, Elmwood, WI	HO	165	32,312	1,238	3.8	1,060	3.3	6.3	34,707
63	* Jordan Prairie Holsteins, Brodhead, WI	HO	220	32,180	1,251	3.9	1,029	3.2	6.2	34,595
64	* Enyart Farms LLC, Postville, IA	HO	314	32,116	1,281	4.0	980	3.1	6.2	34,588
65	* Yonkman Dairy, McBain, MI	HO	1,885	31,481	1,312	4.2	952	3.0	6.2	34,567
66	River Crest Dairy LLC, Greenwood, WI	HO	256	30,190	1,310	4.3	1,010	3.3	6.4	34,563
67	* Foresight Farms, LLC, Decorah, IA	HO	1,128	31,794	1,256	4.0	1,030	3.2	6.3	34,541
68	Dale Brinks, McBain, MI	HO	205	31,147	1,284	4.1	1,010	3.2	6.3	34,539

TOP 300 ENERGY CORRECTED MILK HERDS

CENTRALSTAR DHI HERDS

AVERAGE
ECM
27,320

TOP 10%
33,587
ECM

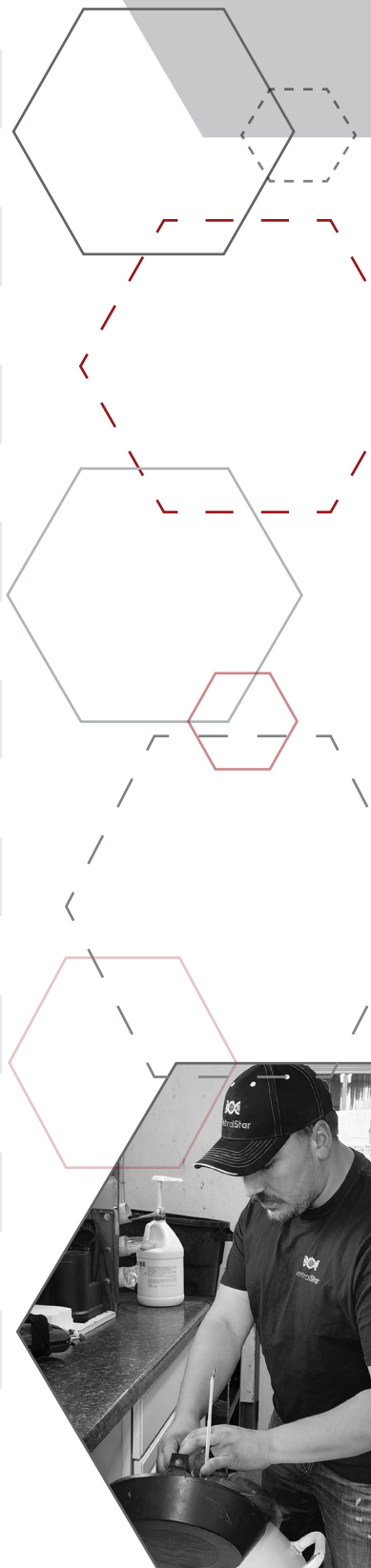
TOP 300 ENERGY CORRECTED MILK HERDS

3X	Herd	Breed	Size	Milk	Fat	F%	Prot.	P%	CFP	ECM
69	Hillebrand Farms, Cornell, WI	HO	57	30,400	1,320	4.3	977	3.2	6.3	34,509
70	* Rahm Dairy LLC, Colby, WI	HO	990	31,046	1,312	4.2	961	3.1	6.2	34,494
71	* Egan Bros & Trevor Crain, New London, WI	HO	954	31,463	1,281	4.1	994	3.2	6.2	34,481
72	* Seidls Mtn View Dairy, Luxemburg, WI	HO	1,149	32,821	1,243	3.8	1,000	3.0	6.1	34,479
73	* Oesch Swisslane, Alto, MI	HO	516	31,491	1,264	4.0	1,019	3.2	6.3	34,462
74	* Car Mer Farm, Galena, IL	HO	565	32,005	1,250	3.9	1,020	3.2	6.2	34,456
75	* S & B Dairy Farm, Sigel, IL	HO	667	32,755	1,238	3.8	1,007	3.1	6.2	34,447
76	Craig Hedrich, Brillion, WI	HO	439	31,343	1,283	4.1	990	3.2	6.2	34,438
77	* Pagels Ponderosa, Kewaunee, WI	XX	6,802	27,852	1,389	5.0	957	3.4	6.4	34,416
78	* Joseph & Susan Rieden, Mount Calvary, WI	XX	675	31,424	1,255	4.0	1,025	3.3	6.2	34,369
79	Tim Greer, West Branch, MI	HO	633	29,946	1,371	4.6	889	3.0	6.2	34,348
80	* Country Dairy, New Era, MI	HO	65	33,954	1,173	3.5	1,049	3.1	6.1	34,318
81	* Pickart Dairy LLC, Malone, WI	HO	810	31,879	1,276	4.0	958	3.0	6.1	34,277
82	* Curt Kohls, Gillett, WI	HO	496	30,301	1,305	4.3	976	3.2	6.2	34,275
83	* Jeremy Seiler, Carson City, MI	HO	379	32,588	1,222	3.7	1,018	3.1	6.1	34,269
84	Tim & Carla Kane, Denmark, WI	HO	885	32,898	1,209	3.7	1,021	3.1	6.1	34,225
85	* Grass Ridge Farm LLC, Pittsville, WI	HO	591	30,619	1,271	4.2	1,013	3.3	6.3	34,221
86	* Maly Farms, Bryant, WI	HO	511	32,355	1,231	3.8	987	3.1	6.1	34,072
87	* Nathan & Tajia Retzlaff, Shawano, WI	XX	44	31,510	1,251	4.0	989	3.1	6.1	34,070
88	* Prairie View Dairy LLC, Fairbury, IL	HO	207	31,878	1,236	3.9	977	3.1	6.1	33,904
89	* Nichols Hill Dairy, Krakow, WI	HO	352	31,101	1,240	4.0	1,003	3.2	6.1	33,901
90	* Granitehill Dairy, Mosinee, WI	HO	389	30,228	1,273	4.2	983	3.3	6.2	33,890
91	* Kevin & Diane Skinner, Junction City, WI	HO	557	31,404	1,245	4.0	980	3.1	6.1	33,889
92	* Heller Farm Inc., Alma Center, WI	HO	1,252	31,668	1,219	3.8	1,008	3.2	6.1	33,853
93	Terry Deutmeyer, Dyersville, IA	HO	110	30,514	1,284	4.2	946	3.1	6.1	33,843
94	Charles Maurer, Chilton, WI	HO	112	31,633	1,231	3.9	986	3.1	6.1	33,828
95	Hulstein Brothers Dairy, Hull, IA	HO	316	30,522	1,236	4.0	1,023	3.4	6.2	33,813
96	Schuh View Dairy LLC, Kaukauna, WI	HO	1,372	28,277	1,404	5.0	830	2.9	6.1	33,778
97	Jerangle Dairy, Wakarusa, IN	HO	234	29,822	1,259	4.2	1,006	3.4	6.2	33,752
98	Rolling Hills Dairy LLC, Luxemburg, WI	HO	1,813	30,756	1,260	4.1	964	3.1	6.1	33,749
99	* Many Blessings Dairy Inc., McBain, MI	HO	1,906	31,582	1,224	3.9	987	3.1	6.1	33,729
100	* Olson's Best Dairy LLC, Shiocton, WI	HO	320	31,332	1,231	3.9	984	3.1	6.1	33,715
101	David Martin, Fenwick, MI	HO	70	26,415	1,448	5.5	826	3.1	6.2	33,708
102	* Oesch Swisslane, Alto, MI	HO	1,571	29,436	1,292	4.4	960	3.3	6.2	33,701
103	Jeff Lambrecht, Kewaunee, WI	HO	351	28,548	1,348	4.7	903	3.2	6.2	33,700
T	* Herb Farms LLC, Shiocton, WI	HO	682	30,899	1,242	4.0	982	3.2	6.1	33,700
105	* Pasch MBM, Weidman, MI	HO	370	32,469	1,187	3.7	999	3.1	6.0	33,631
106	Ross Simler, Monticello, WI	HO	181	30,328	1,257	4.1	968	3.2	6.1	33,601
107	* Pine Breeze Dairy LLC, Pine River, WI	HO	3,256	29,871	1,281	4.3	944	3.2	6.1	33,578
108	* Jay & Amy Krahn, Brillion, WI	HO	177	31,149	1,250	4.0	941	3.0	6.0	33,572
109	* Nor-Bert Farms, Bremen, IN	HO	86	27,545	1,305	4.7	993	3.6	6.3	33,503
110	* Rusk-Rose Holsteins, Ladysmith, WI	HO	513	32,380	1,194	3.7	973	3.0	5.9	33,494
111	David Dezeeuw, Falmouth, MI	HO	173	30,802	1,247	4.0	947	3.1	6.0	33,465
112	Bergan Dairy LLC, Elkader, IA	XX	253	32,826	1,160	3.5	1,002	3.1	5.9	33,421
113	* Rosy-Lane Holsteins LLC, Watertown, WI	HO	1,757	29,077	1,285	4.4	950	3.3	6.1	33,416
114	Turner Dairy LLC, Centuria, WI	HO	172	29,744	1,242	4.2	989	3.3	6.1	33,376
115	Derek Brimeyer, Sherrill, IA	HO	166	31,573	1,205	3.8	973	3.1	6.0	33,373
116	* Terry Vanmaanen, Rock Valley, IA	HO	1,843	31,112	1,206	3.9	988	3.2	6.0	33,350
117	* Douglas Scheider, Freeport, IL	HO	781	30,181	1,245	4.1	958	3.2	6.0	33,321
118	* Country Aire Farms, Greenleaf, WI	HO	3,429	30,615	1,236	4.0	954	3.1	6.0	33,315
119	* Brickstead Dairy LLC, Greenleaf, WI	HO	987	30,917	1,210	3.9	984	3.2	6.0	33,307
120	El-Na Farms LLC, Algoma, WI	HO	2,295	31,118	1,223	3.9	953	3.1	6.0	33,304
121	* Neal Burken, Galesville, WI	HO	459	31,066	1,223	3.9	955	3.1	6.0	33,302
122	McAllister Family Dairy LLC, New Vienna, IA	HO	252	30,835	1,208	3.9	989	3.2	6.0	33,293
123	Reuben Kamp, Zeeland, MI	HO	695	30,545	1,233	4.0	959	3.1	6.0	33,292
124	Nathan & Kristy Mulder, Ridott, IL	HO	67	32,068	1,172	3.7	992	3.1	5.9	33,252
125	* Ryan Litwiller, Middleton, MI	HO	317	32,240	1,152	3.6	1,015	3.1	5.9	33,226
126	Marty Bahl, Dubuque, IA	HO	206	29,256	1,258	4.3	963	3.3	6.1	33,225
127	* Hillside Dairy, Rockvalley, IA	HO	3,007	30,558	1,209	4.0	986	3.2	6.0	33,192
128	New-Day Dairy-Robert Strack, Athens, WI	HO	120	31,522	1,187	3.8	981	3.1	5.9	33,184
129	Glendale Farms, Clintonville, WI	HO	301	29,952	1,228	4.1	978	3.3	6.0	33,179
130	United Vision Dairy LLC, Mishicot, WI	HO	1,167	31,237	1,215	3.9	933	3.0	5.9	33,086
131	Todd Augustian, Kewaunee, WI	HO	1,114	30,546	1,199	3.9	989	3.2	6.0	33,081
132	Charles & Christopher Weber, Elmwood, WI	HO	181	28,002	1,282	4.6	957	3.4	6.1	33,080
133	* United Pride Dairy LLC, Phillips, WI	HO	1,842	29,522	1,236	4.2	968	3.3	6.0	33,065
134	* Lance & Jonna Schutte, Monona, IA	HO	103	30,770	1,192	3.9	988	3.2	6.0	33,056
135	* Wesselcrest, Greeley, IA	HO	282	28,424	1,264	4.4	966	3.4	6.1	33,053
136	Hendel Farms, Caledonia, MN	HO	379	28,384	1,277	4.5	944	3.3	6.1	33,040



TOP 300 ENERGY CORRECTED MILK HERDS

3X	Herd	Breed	Size	Milk	Fat	F%	Prot.	P%	CFP	ECM
137	Lyle & Carla Weaver, Goshen, IN	HO	142	29,539	1,243	4.2	950	3.2	6.0	33,024
138	* Pebble Knolls Dairy, Brandon, WI	HO	787	29,879	1,215	4.1	981	3.3	6.0	33,009
139	Tracy Lacrosse & Dale Uecker, Forestville, WI	HO	86	29,706	1,238	4.2	949	3.2	6.0	33,006
140	* Brightside Dairy LLC, Greenleaf, WI	HO	830	32,276	1,143	3.5	999	3.1	5.9	32,998
141	Bauduin's Grandview Dairy LLC, Casco, WI	HO	775	29,750	1,247	4.2	927	3.1	6.0	32,968
142	Silvershea Holsteins LLC, Omro, WI	HO	188	30,997	1,200	3.9	953	3.1	5.9	32,966
143	Furseth Farms Inc., Stoughton, WI	HO	192	30,004	1,223	4.1	951	3.2	6.0	32,924
144	Golden Corners Dairy, Oconto Falls, WI	HO	284	29,757	1,229	4.1	951	3.2	6.0	32,921
145	* Larry & Jennifer Meyer, Chilton, WI	HO	125	30,841	1,182	3.8	982	3.2	5.9	32,904
146	* Wirth Farms, Ewart, MI	HO	1,491	32,588	1,143	3.5	973	3.0	5.8	32,902
147	Royal Vista Holsteins LLC, Pickett, WI	HO	371	29,987	1,218	4.1	957	3.2	6.0	32,900
148	Burke Larsen, Scottville, MI	HO	688	30,418	1,218	4.0	931	3.1	5.9	32,842
149	* Blanchard Family Dairy, Charlotte, IA	XX	1,614	28,209	1,297	4.6	890	3.2	6.0	32,829
150	Dominic & Jamie Mastey, Bonduel, WI	HO	160	31,219	1,195	3.8	932	3.0	5.8	32,814
151	Jonas Zimmerman, Wakarusa, IN	HO	127	26,958	1,335	5.0	875	3.2	6.1	32,797
152	* Stutzman Family Farms LLC, Conrath, WI	HO	365	30,380	1,226	4.0	913	3.0	5.9	32,795
153	Riemer-Sawall, Clintonville, WI	HO	186	29,072	1,224	4.2	972	3.3	6.0	32,793
154	Jason & Sara Menne, Postville, IA	HO	170	29,081	1,232	4.2	955	3.3	6.0	32,770
155	* Norm & Derrick Hammond, Dowling, MI	HO	521	30,933	1,182	3.8	957	3.1	5.9	32,743
156	* Cross Farms, Oshkosh, WI	HO	1,963	30,316	1,183	3.9	981	3.2	5.9	32,738
157	Petro Farms, Gobles, MI	HO	977	30,762	1,169	3.8	982	3.2	5.9	32,710
158	Reuben Nolt, Alta Vista, IA	HO	65	28,614	1,256	4.4	923	3.2	6.0	32,683
159	Earl & Jeff Horning, Manchester, MI	HO	437	29,675	1,227	4.1	924	3.1	5.9	32,662
160	* Jeff & Melinda Walz, West Union, IA	HO	124	30,472	1,212	4.0	915	3.0	5.8	32,659
161	* Schmidtkecht Farms LLP, Mondovi, WI	HO	999	29,214	1,232	4.2	928	3.2	5.9	32,607
162	* Mitchell Dairy & Grain LLC, Winnebago, IL	HO	476	30,657	1,196	3.9	923	3.0	5.8	32,574
163	Blair Farms, Winslow, IL	HO	213	30,487	1,182	3.9	952	3.1	5.8	32,559
164	* Kinnard Farms Inc., Casco, WI	HO	8,203	31,431	1,142	3.6	979	3.1	5.8	32,556
165	* Oesch Swisslane, Alto, MI	HO	1,792	28,150	1,258	4.5	922	3.3	6.0	32,549
166	* Brand Dairy Farm, Waterloo, IN	HO	402	30,189	1,189	3.9	949	3.1	5.9	32,529
167	* Brad & Laura Friesen, Barron, WI	HO	219	29,824	1,191	4.0	961	3.2	5.9	32,528
168	Production Unlimited LLC, Twin Lakes, WI	HO	130	28,731	1,225	4.3	950	3.3	6.0	32,526
169	Amy Karpinski, Waupaca, WI	XX	208	30,878	1,169	3.8	951	3.1	5.8	32,511
170	* Montecassino Dairy, Milladore, WI	HO	336	29,663	1,181	4.0	981	3.3	5.9	32,498
171	Duane, Jeanne & Dave Meier, Monticello, WI	HO	74	29,321	1,203	4.1	958	3.3	5.9	32,496
172	* Stencil Farms, Denmark, WI	HO	1,601	28,947	1,238	4.3	913	3.2	5.9	32,482
173	Tom Engelken, Earlville, IA	XX	27	28,483	1,217	4.3	962	3.4	6.0	32,433
174	Brumm Dairy LLC, Stacyville, IA	HO	264	29,364	1,201	4.1	950	3.2	5.9	32,422
175	* River Ridge Dairy, Coopersville, MI	HO	1,858	28,266	1,261	4.5	892	3.2	5.9	32,397
176	* Hopeless Dairy Inc., Sheldon, WI	HO	409	27,914	1,266	4.5	895	3.2	5.9	32,369
177	* Gene & Connie Duschner, Farley, IA	HO	620	28,486	1,217	4.3	953	3.3	5.9	32,366
178	* James & Marlene Decker, Bernard, IA	HO	530	29,728	1,200	4.0	926	3.1	5.8	32,345
179	* Second Look Holsteins LLC, Eden, WI	HO	1,197	29,544	1,187	4.0	953	3.2	5.9	32,323
180	* Kohn Dairy LLC, Cecil, WI	HO	289	29,937	1,187	4.0	932	3.1	5.8	32,291
181	* Galen Schalk, Hillman, MI	HO	221	29,346	1,187	4.0	957	3.3	5.9	32,289
182	* Stempfle Holsteins, Maynard, IA	HO	774	29,551	1,194	4.0	933	3.2	5.8	32,263
183	* Lake Breeze Dairy, Malone, WI	HO	3,360	31,117	1,138	3.7	960	3.1	5.7	32,256
184	* Ro-Linda Acres, Waterville, IA	HO	1,050	29,832	1,165	3.9	968	3.2	5.8	32,247
185	Terry & Milton Hallada, Lena, WI	HO	249	30,154	1,164	3.9	949	3.1	5.8	32,194
186	Troy & Don Meyer, Maynard, IA	HO	97	28,733	1,208	4.2	931	3.2	5.9	32,161
187	* Craig & Katharine Edler, Browntown, IL	HO	826	29,327	1,208	4.1	901	3.1	5.8	32,126
188	Brent & Carrie Pollard, Rockford, IL	HO	63	28,354	1,221	4.3	920	3.2	5.9	32,122
189	Greg Illig & Sons, West Branch, MI	HO	462	27,252	1,300	4.8	832	3.1	5.8	32,111
190	* Rem-Jem Dairy, LLC, Unity, WI	HO	561	30,540	1,163	3.8	922	3.0	5.7	32,101
191	Lehman Dairy, Sherrill, IA	HO	139	29,849	1,169	3.9	941	3.2	5.8	32,098
192	Coonridge Holsteins, Anamosa, IA	HO	172	30,608	1,158	3.8	927	3.0	5.7	32,096
T	Charles & Kappy Koch, Tremont, IL	HO	148	26,775	1,250	4.7	935	3.5	6.0	32,096
194	Martin Kevin, Warren, IL	HO	113	29,847	1,161	3.9	952	3.2	5.8	32,078
195	Jack & Tom Jeppesen, Stanton, MI	HO	273	29,341	1,183	4.0	935	3.2	5.8	32,067
196	* Meier Meadows, Ridott, IL	HO	893	29,317	1,184	4.0	934	3.2	5.8	32,065
197	* Berning Acres, East Dubuque, IL	HO	472	28,516	1,211	4.2	921	3.2	5.8	32,053
198	* Maple Leaf Acres, Elk Mound, WI	HO	354	28,018	1,227	4.4	910	3.2	5.9	32,013
199	* Sugar Creek LLC, New London, WI	HO	1,663	28,922	1,215	4.2	890	3.1	5.8	32,000
200	Auburnvale Swiss, Fremont, WI	XX	202	28,445	1,205	4.2	927	3.3	5.8	31,998
201	Kevin & Lisa Collins, Greenleaf, WI	HO	1,518	29,379	1,171	4.0	942	3.2	5.8	31,978
202	* Allen Martin, Goshen, IN	HO	482	30,110	1,149	3.8	946	3.1	5.7	31,962
203	* James & Brad Ritter, Byron, MI	HO	269	29,101	1,199	4.1	903	3.1	5.8	31,951
204	* Jeff Brenner, Hopkins, MI	HO	670	28,261	1,227	4.3	891	3.2	5.8	31,947



TOP 300 ENERGY CORRECTED MILK HERDS

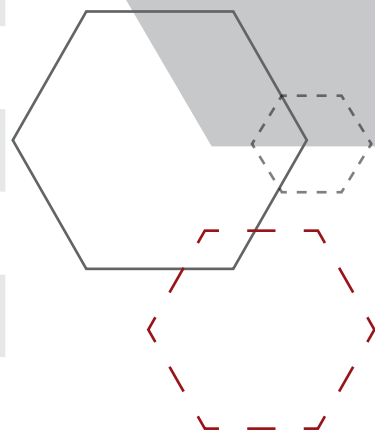
3X	Herd	Breed	Size	Milk	Fat	F%	Prot.	P%	CFP	ECM
205	* Carson Acres LLC, Hesperia, MI	HO	139	29,875	1,150	3.8	952	3.2	5.8	31,944
206	Tom & Sara Kruse, Dyersville, IA	HO	78	27,922	1,205	4.3	939	3.4	5.9	31,919
207	* Robert Getzloff, Wilson, MI	HO	465	28,466	1,224	4.3	883	3.1	5.8	31,914
208	Matthew & Susan Smith, Hudson, MI	HO	72	29,163	1,181	4.0	925	3.2	5.8	31,907
209	Rolling Valley Jerseys, Waterville, IA	XX	34	27,232	1,219	4.5	942	3.5	5.9	31,897
210	Duane, Mel & Chad See, Chilton, WI	HO	816	28,134	1,242	4.4	864	3.1	5.8	31,893
211	Loehr Dairy LLC, Mount Calvary, WI	HO	608	29,437	1,176	4.0	918	3.1	5.7	31,878
212	Andrew Houlberg, Monticello, WI	HO	117	28,965	1,173	4.0	939	3.2	5.8	31,845
213	Bill & Bob Gruppen, Zeeland, MI	HO	86	30,893	1,115	3.6	951	3.1	5.7	31,816
214	C-Dar Dairy LLC, Elkhart, IN	HO	253	29,481	1,172	4.0	913	3.1	5.7	31,802
215	Kandy-Bahr Holsteins, Waukon, IA	HO	69	29,836	1,132	3.8	964	3.2	5.7	31,790
216	* Keith Wood, Kingston, MI	HO	137	28,410	1,178	4.1	945	3.3	5.8	31,774
217	* Kris Wardin, St Johns, MI	HO	633	29,702	1,142	3.8	945	3.2	5.7	31,731
218	* Neighborhood Dairy, Kaukauna, WI	HO	1,174	28,264	1,210	4.3	890	3.1	5.8	31,720
219	* Daane Dairy LLC, Brandon, WI	XX	808	27,214	1,210	4.4	933	3.4	5.9	31,706
220	* Gilde Farms LLC, Lake City, MI	HO	247	27,720	1,267	4.6	814	2.9	5.7	31,699
221	* 23 Dairy LLC, Middleton, MI	HO	483	30,221	1,129	3.7	938	3.1	5.7	31,679
222	Dair-E-Land Holsteins, Shobonier, IL	HO	140	29,263	1,149	3.9	945	3.2	5.7	31,678
223	Jeff Taylor, Rock Valley, IA	HO	160	28,790	1,153	4.0	956	3.3	5.8	31,659
224	Charles & Kappy Coch, Tremont, IL	XX	147	25,289	1,265	5.0	909	3.6	6.0	31,605
225	* Voight Acres, Shiocton, WI	HO	290	29,780	1,138	3.8	925	3.1	5.7	31,551
226	* Lagesse Dairy Farms, Bloomer, WI	HO	496	28,233	1,186	4.2	909	3.2	5.7	31,545
227	John & Ryan Sparrgrove, Castalia, IA	HO	238	28,486	1,175	4.1	916	3.2	5.7	31,539
228	Virgil Martin, Boscobel, WI	HO	125	29,492	1,145	3.9	923	3.1	5.7	31,533
229	Jim Goldsmith, Earlville, IA	HO	172	29,255	1,152	3.9	920	3.1	5.7	31,523
230	* Sand Creek Dairy LLC, Hastings, MI	JE	417	24,725	1,261	5.1	928	3.8	6.0	31,514
231	Eric Frahm, Frankenmuth, MI	HO	133	29,452	1,135	3.9	938	3.2	5.7	31,505
232	* Green Meadow Farms Inc., Elsie, MI	HO	4,026	27,730	1,207	4.4	889	3.2	5.7	31,499
233	* Rickland Dairy LLC, Eldorado, WI	HO	1,083	29,937	1,115	3.7	949	3.2	5.7	31,489
234	Kevin & Julie Fossum, Waterville, IA	HO	246	28,779	1,147	4.0	943	3.3	5.7	31,478
235	Ron Brinks, McBain, MI	HO	133	28,972	1,142	3.9	943	3.3	5.7	31,477
236	Heather Krueger, Clintonville, WI	HO	72	28,825	1,159	4.0	919	3.2	5.7	31,465
237	NE IA Dairy Foundation, Calmar, IA	HO	215	27,744	1,201	4.3	894	3.2	5.7	31,464
238	* Kenealy Dairy Farms, Cadott, WI	HO	670	27,919	1,201	4.3	883	3.2	5.7	31,437
239	Duane & Joan Lisowe, Chilton, WI	HO	102	28,379	1,169	4.1	917	3.2	5.7	31,434
240	Mike Theunis, Wrightstown, WI	HO	3,160	28,866	1,164	4.0	902	3.1	5.7	31,413
241	Marvin Martin, Carson City, MI	HO	76	29,340	1,136	3.9	929	3.2	5.7	31,412
242	Troy & Sara Blazek, Oconto Falls, WI	HO	199	28,944	1,136	3.9	943	3.3	5.7	31,390
243	Todd Martin, Claypool, IN	HO	448	30,128	1,109	3.7	938	3.1	5.6	31,389
244	Dale & Sharon Fertig, Wall Lake, IA	HO	222	28,396	1,175	4.1	900	3.2	5.7	31,387
245	* KDS Dairy Ryan Moellers, Cresco, IA	HO	968	29,249	1,154	3.9	898	3.1	5.6	31,378
246	* Vande Hei Dairy Farms, De Pere, WI	HO	433	29,871	1,129	3.8	912	3.1	5.6	31,365
247	Ron Folkema, Fremont, MI	XX	1,063	28,869	1,173	4.1	880	3.0	5.6	31,363
248	* Preston Farms, Quincy, MI	HO	940	27,745	1,180	4.3	912	3.3	5.7	31,330
249	Wilra Farms Inc., Nashville, IL	HO	571	30,776	1,066	3.5	975	3.2	5.6	31,327
250	Steven Weaver, Goshen, IN	HO	665	27,541	1,191	4.3	900	3.3	5.7	31,314
251	* David & Susan Granskog, Stephenson, MI	HO	261	30,026	1,106	3.7	937	3.1	5.6	31,309
T	Dave Beuschel, Conklin, MI	HO	114	28,075	1,196	4.3	868	3.1	5.7	31,309
253	Brian & Monica Enyart, Postville, IA	HO	140	29,445	1,146	3.9	894	3.0	5.6	31,308
254	Stephen Burkholder, Orleans, MI	HO	120	28,175	1,185	4.2	882	3.1	5.7	31,306
255	Duane N Joan Lisowe, Chilton, WI	HO	123	28,764	1,148	4.0	917	3.2	5.7	31,287
256	Norris Dairy Farm Inc., Hesperia, MI	HO	723	28,372	1,171	4.1	892	3.1	5.7	31,266
257	Bob Van Daalwyk, Hilbert, WI	HO	184	29,321	1,138	3.9	904	3.1	5.6	31,241
258	Dutch Meadows LLC, Zeeland, MI	HO	190	27,925	1,167	4.2	909	3.3	5.7	31,198
259	* Plymouth Dairy Farm, Lemars, IA	HO	8,285	28,608	1,125	3.9	949	3.3	5.7	31,183
260	* Lavern Martin, Conrath, WI	HO	205	27,370	1,185	4.3	900	3.3	5.7	31,181
261	Bruce Martin, Whittemore, MI	XX	105	28,060	1,166	4.2	901	3.2	5.7	31,168
262	Tennesons 3-T Dairy, Ettrick, WI	HO	362	29,079	1,110	3.8	951	3.3	5.6	31,158
263	* Noll Farms, Coleman, WI	HO	681	30,743	1,089	3.5	913	3.0	5.5	31,140
T	Jeff & Kate Hendrickson, Belleville, WI	HO	123	28,749	1,137	4.0	917	3.2	5.6	31,140
265	William & Kathy Langreck, West Union, IA	HO	133	29,284	1,118	3.8	926	3.2	5.6	31,138
266	Robert Lee, Marion, MI	HO	125	27,378	1,173	4.3	913	3.3	5.7	31,127
267	Dave & Rick Tacoma, Falmouth, MI	HO	405	29,122	1,107	3.8	943	3.2	5.6	31,072
268	Bill & Lisa Holland, Apple River, IL	HO	370	29,089	1,118	3.8	924	3.2	5.6	31,059
269	Carrie Heim, Algoma, WI	HO	826	28,467	1,135	4.0	916	3.2	5.6	31,014
270	Claytop Holsteins, Howard City, MI	HO	292	27,391	1,179	4.3	887	3.2	5.7	31,010
271	Dave Wenger & Son's Dairy, Marlette, MI	HO	222	27,459	1,171	4.3	892	3.2	5.7	30,967
272	Brantmeier Hilrose Dairy, Hilbert, WI	HO	105	29,167	1,132	3.9	884	3.0	5.5	30,960

SCAN HERE
FOR THE MONTHLY
TOP 100 ECM



TOP 300 ENERGY CORRECTED MILK HERDS

3X	Herd	Breed	Size	Milk	Fat	F%	Prot.	P%	CFP	ECM
273	Twinkle-Hill Brown Swiss, Watertown, WI	XX	27	28,904	1,098	3.8	949	3.3	5.6	30,931
274	Jerry & Stephanie Kauffmann, Farley, IA	HO	266	28,556	1,125	3.9	915	3.2	5.6	30,906
275	Andy Kortman, McBain, MI	HO	254	28,893	1,121	3.9	905	3.1	5.6	30,888
276	* Jo-Eng Dairy Farms, German Valley, IL	HO	809	29,331	1,129	3.8	870	3.0	5.5	30,867
277	* Rick & Connie Schuessler, Antigo, WI	HO	439	27,784	1,145	4.1	908	3.3	5.6	30,859
278	* Cole Riverview Farms, Bancroft, MI	HO	316	27,981	1,162	4.2	868	3.1	5.6	30,838
279	* Liquid Coin Dairy LLC, Milladore, WI	HO	784	28,020	1,173	4.2	846	3.0	5.5	30,825
280	* MSU Dairy Dept, Lansing, MI	HO	247	29,103	1,096	3.8	929	3.2	5.5	30,817
281	* Quality Dairy, Luxemburg, WI	HO	2,238	29,797	1,098	3.7	894	3.0	5.5	30,802
282	Raterink Dairy Farm, Zeeland, MI	HO	121	28,525	1,151	4.0	858	3.0	5.5	30,797
283	Steve & Doug Kamphuis, Brandon, WI	HO	317	28,336	1,127	4.0	906	3.2	5.6	30,791
284	Golden Sun Dairy LLC, Shiocton, WI	HO	217	27,442	1,148	4.2	908	3.3	5.6	30,786
285	Doug Roth, Mt. Pleasant, IA	HO	188	28,059	1,138	4.1	898	3.2	5.6	30,782
286	John W Nolt, Orchard, IA	HO	58	28,339	1,149	4.1	866	3.1	5.5	30,771
287	Hanson Farms, Pine River, WI	HO	387	28,225	1,133	4.0	897	3.2	5.6	30,764
288	* Alan & Ruth Hageman, Decorah, IA	HO	120	28,875	1,111	3.8	902	3.1	5.5	30,730
289	Daryl & Pam Nunes, Deerfield, WI	HO	39	27,621	1,168	4.2	859	3.1	5.6	30,729
290	* Landstad Dairy LLC, Bonduel, WI	HO	316	29,643	1,099	3.7	889	3.0	5.4	30,726
291	Eric Zutz, Valders, WI	HO	68	30,351	1,098	3.6	860	2.8	5.4	30,723
292	* Foxland Farms LLC, Greenleaf, WI	HO	122	30,386	1,081	3.6	886	2.9	5.4	30,713
293	Dale Bogart, Kewaunee, WI	HO	1,999	28,102	1,136	4.0	890	3.2	5.6	30,709
294	Krzewina Farms, Crivitz, WI	HO	740	29,325	1,123	3.8	859	2.9	5.4	30,703
295	John Westra Sr, Primghar, IA	HO	948	28,933	1,097	3.8	917	3.2	5.5	30,682
296	* Dean Meyer, New Albin, IA	HO	2,471	26,181	1,210	4.6	843	3.2	5.6	30,680
297	Ken Zuiderveen, Falmouth, MI	HO	399	28,289	1,123	4.0	899	3.2	5.5	30,671
298	* Greenleaf Ledge Dairy, Greenleaf, WI	HO	605	29,293	1,095	3.7	902	3.1	5.5	30,659
299	* Rich Byma, Grant, MI	HO	1,205	28,294	1,133	4.0	877	3.1	5.5	30,634
300	Walnutdale Farms, Wayland, MI	HO	1,934	27,787	1,132	4.1	898	3.2	5.6	30,615



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AWARD REPROSTAR WINNERS

Annually, CentralStar recognizes dairy farms that excel in reproductive performance. Over time, the programs farms use to achieve high-pregnancy rates are similar, with double-Ovsynch, CIDR-synch, and monitoring systems all being part of “Cadillac” reproduction programs.

The dairy industry and the Holstein breed, specifically, have made huge strides in the last decade at improving health and fertility through genetic gains. Herds like our winners have put a large focus on health and fertility traits in their sire selections for several years and are now reaping the rewards. They are enjoying the production benefits of milking more mature cows, and these mature cows are healthier and breeding back better than ever before.

Congratulations to this year’s winners!

Trust in the team and systems

It has been a journey, but one that has led Schmitz East Branch Dairy to a 40% pregnancy rate. A fifth-generation dairy farm, brothers Tony and Aaron Schmitz manage the 230-cow herd in Fond du Lac, Wis. They returned home to farm with their mom, Mary, in 2019 after their father, Dave, passed away.

“We’ve gotten a lot of support from our team,” said Tony. “John (Buske, CentralStar A.I. Specialist) and Dr. Mark Sosalla with Waupun Vet Service have helped us a lot in changing breeding protocols, which has been a big part of our journey.

In the beginning, we changed our first-service protocol to double-Ovsynch and began administering GnRH a week prior to pregnancy check in an effort to be more aggressive with re-inseminating open cows.”

With those changes, the dairy began to see improvements. While continuing to make calculated adjustments, they turned their attention to the heifers and installed the CowManager® electronic herd-monitoring system in 2022. “Our vet recommended

trying CowManager for heat detection on the heifers,” recalls Tony. “It’s easy to use, and we see the positive impact CowManager has on overall reproduction and health. Like many farms, our heifer facilities are a challenge, so getting them on the CowManager system has made a huge improvement in conception and pregnancy. We don’t use any other heat detection; we rely 100% on CowManager. We have a reliable technician, we’ve done well with, and we appreciate him.”

Installing CowManager in the cow herd was never part of the original plan, however, “It just made sense to implement it in the cows. We use the health feature of CowManager, which gives us the ability to better monitor close-up cows and the fresh pen. We’ve seen good success with CowManager identifying standing heats and are now switching our breeding protocol to utilize fewer shots, while still achieving our reproductive goals,” said Tony.

The dairy has also become more aggressive in getting open cows re-inseminated. Cows are administered GnRH prior to the first pregnancy check at 28-30 days. “We give GnRH before pregnancy check, that way if an animal is open, it takes fewer days to get

Continued on next page...



SCHMITZ EAST BRANCH DAIRY

**40%
PREGNANCY
RATE**

**50%
CONCEPTION
RATE
3+ LACTATION**

**39%
PREGNANCY
RATE
3+ LACTATION**

Pictured (left): Tony and Aaron Schmitz, Dr. Mark Sosalla, CentralStar A.I. Specialist John Buske, CentralStar Reproductive Specialist Scott Hecker



BURR OAK HEIFERS

38%
PREGNANCY
RATE

68%
SUBMISSION
RATE

56%
FIRST-SERVICE
CONCEPTION RATE

Pictured (left): Jim Kruger, Marcia Starr, Melissa Brown, Ryan Brown, Mark Wallace, Alonso Luis, Anastacio Luis

them re-enrolled in Ovsynch. That change has helped us a lot to reduce the number of days open." Additionally, open, non-cycling cows are administered GnRH and a CIDR. "All of these protocols give us a chance to re-inseminate animals more quickly. Non-cycling cows are bred in 11 days and cycling cows in four," said Tony.

Genetic choices for the herd include priority to fertility traits, along with using sires from the NxGEN® program. "Using NxGEN keeps us on the front line of what Select Sires has to offer, which translates to more genetic success," shared Tony. "Dave (Sattler, CentralStar Team Leader and Genetic Consultant) has managed our matings for a couple of years and has done a good job keeping it simple, while using genetically-superior bulls that excel for health and fertility traits."

Along with monitoring conception and pregnancy rates, Tony says, "Change in protocols, putting up higher-quality feed, having a good team, being patient, and monitoring changes in protocols have all played a role in the improvements this dairy has achieved."

"The biggest aspect of our progress is trust and having a good team of people around. It's the people who care about us that make the biggest difference," shared Tony. "John is very reliable; he gets results, and we really appreciate him. Turning around reproduction takes time. You have to trust and rely on your team, trust the system, and monitor progress."

Raising royalty

"At the end of the day, the best success for a heifer starts the day she's born," shared Herd Manager Melissa Brown at Burr Oak Heifers LLC, Coloma, Wis. "I work with the

source farms to help them deliver the best calf possible to us, so that we can return a springing heifer that helps meet their goals."

Owned by Zahns Farms, LLC, Gillett, Wis., So-Fine Bovines, Westfield, Wis., and North Central Equipment, Auburndale, Wis., Melissa and her team are responsible for 2,800 heifers, ranging in age from six months old up to calving. When asked about the keys to achieving a 38% conception rate, Melissa shared, **"It's all about communication, organization, compliance, and receiving the healthiest calf possible."**

Research supports the healthier calves are at day one, week one, and month one, the greater the chance they will reach their potential. Believing in that whole-heartedly, Melissa has implemented tactics to ensure she is meeting the needs of each source farm.

"A healthier heifer is known to have a healthier, longer, more productive life," said Melissa. "And the faster and better a heifer grows, the lower the cost to my source farms." As such, a lot goes into making sure heifers are growing as they should. Average daily gain is monitored monthly from the moment a calf steps on the farm until 15-months of age. If an animal doesn't meet the source farm's breeding-weight requirements, a health analysis, which includes review of health history, and a physical assessment is performed. Using DairyComp 305 and HeiferPRO, Melissa individualizes the data in deciding between marking an animal as do-not-breed (DNB) or approving her for breeding. "It takes a lot of organization, and we don't cut corners," said Melissa. "There's a schedule, and we stick to

it. It doesn't matter if it's a holiday, sub-zero, or 95 degrees."

At any given time, there are 500-600 heifers in the breeding pen. Different breeding protocols are used based on the source farm's desires, and CentralStar A.I. Specialist Mark Wallace tail chalks and breeds daily. "Consistency is very important and Mark being here at the same time every time is part of that." Early pregnancy confirmation is performed by the veterinarian at 31 days. Open heifers are checked for a functioning CL and given Lutalyse® or are enrolled in a CIDR-synch program. A second ultrasound-pregnancy confirmation is performed in-house at about 70 days. "Our goal is to have semen in every single heifer by 15 months of age," shared Melissa. "Today, we're at 98% of our goal."

Genetic selections for breeding are made by the source farms. "We receive all the health history on calves, and the data shows calf health continues to get better," shared Melissa. "Along with our intense management focus, the source farms have also made management changes, and they use Select Sires NxGEN sires."

"Communication is key to success with reproduction, or any business," said Melissa. "Communication with Mark is top-notch. If I don't see him, we have a central location to share information daily." In addition, Burr Oak employees carry a notebook so they can easily document and communicate anything out of the ordinary, allowing the animal to be checked and action taken the same day.

"What the farms want and what they are getting are results," said Melissa. "The heifers are princesses and are treated that way!"

The snowball effect

“Having success with reproduction breeds success,” shared Kyle Levetzow, Model Dairy Farms, Dodgeville, Wis. “When we cull problem breeders, we don’t get offspring from them. That snowballs and the entire herd improves.”

This influence can be seen in the reproduction program. Forty-one percent of the herd consists of cows that are in their third or greater lactation and boast a 50% conception rate and 38% pregnancy rate, with the entire herd averaging a 37% pregnancy rate.

The reproduction program at Model Dairy includes a combination of synchronization programs. All cows are enrolled in double-Ovsynch for first-service breedings. An activity-monitoring system is used to identify cows in heat for subsequent breedings. Vet check is performed every Tuesday, and open cows are re-enrolled in a synchronization program. Cows are bred once a day by CentralStar A.I. Specialist Chakayla Stanek.

Ultrasound is used for early-pregnancy confirmation between 26-32 days and, again, at 60 days with fetus sexing. A final confirmation occurs at 180 days using a milk-pregnancy test. “We used to rely on palpation for the final pregnancy check, but when the milk-pregnancy test came out, we switched because it’s less invasive,” said Kyle.

Cows open at 200 days-in-milk (DIM) are evaluated to determine next steps. “We try to look at each animal on an individual-production basis,” said Kyle. “If they are still milking heavy, they may get another opportunity to be bred. If they’ve had health problems or have been cystic, we’ll stop breeding.”

Genetic strategy, combined with excellent calf and heifer rearing are at the foundation of this successful reproduction program. An early adopter, Kyle began genomic testing in 2014. Using that data, CentralStar Genetic Consultant David Sarbacker provides mating recommendations for the herd. “David and I meet a few times per year to discuss strategy for maximizing the number of heifers out of high-genomic animals,” said Kyle. “We focus on Net Merit Dollars (NM\$) and Dairy Wellness Profit Dollars® (DWPS®), using sexed semen on heifers and first-lactation cows.”

Unique to what is currently a norm in the industry, Model Dairy does not use any beef semen in their breeding program. “We raise as many healthy heifers as we can and sell everything we don’t need for the dairy as fresh or springing heifers,” shared Kyle. “Our death loss on calves is less than 1%. Our herdsman is the calf feeder, and he does an excellent job.”

With a high pregnancy rate and rolling herd average (RHA) of 32,382 pounds of milk, Kyle shared consistency is one of the most important things they do. “We might have a little hiccup once in a while with a herd check, but it’s important to stay the course. Stick with the protocols, don’t reinvent the wheel. We’ve been using double-Ovsynch for seven years and have been consistently over 30% for pregnancy rate the last several years -- and it keeps pushing up.”

Maximizing genetic potential

When you have a system and team that works, you stick with it. A repeat ReproStar award winner, Blue Star Dairy Farms Herdsman Dean Meinholz shared, “We’ve stayed consistent with our breeding protocols and have had the same farm team for several years. We have

a heavy focus on selecting genetics high in wellness traits, including Daughter Pregnancy Rate (DPR) which should be contributing to our improved pregnancy rate.”

Since being recognized in 2021, the dairy has improved pregnancy rate from 34% to 38%. “Blue Star Dairy Farms has a great team that is very organized, pays attention to detail, and their protocol compliance is spot on,” shared CentralStar Regional Consulting Manager, Susie Martin. “They are also very aggressive with their genetic improvement and are making great strides.”

The farm’s genetic strategy begins with genomic testing all animals, something they’ve been doing for the past six years, to identify the best animals from which to make the next generation. A combination of sexed and beef semen is used in the herd, with NxGEN sires mated to elite heifers and a few select cows. Even still, the dairy wanted to speed up their progress.

“We decided we wanted to increase the genetic potential of the herd quicker, so we adjusted our plan,” shared Dean. **“About two years ago, we began identifying a few genomically-elite heifers for IVF (in vitro fertilization) and breed them with a NxGEN sire. This strategy allows us to multiply the genetics of our very best females.”**

“We only need a defined number of heifers for replacements, so we want to make sure we are producing the best ones we can to bring into the milking herd,” shared Dean. “It’s interesting to see the progress in the herd’s genetics,” said Dean. “I remember when we started genomic testing, we had a few animals that were \$100 or less DWPS. Now, the lowest

Continued on next page...



MODEL DAIRY FARMS

37% PREGNANCY RATE

50% CONCEPTION RATE 3+ LACTATION

38% PREGNANCY RATE 3+ LACTATION

Pictured (left): Herdsman Heber Herrera, Owner Kyle Levetzow, A.I. Specialist Chakayla Stanek, Veterinarian Dr. Kevin Johnson, CentralStar Area Sales Manager Jason Goke



BLUE STAR DAIRY FARMS

**38%
PREGNANCY
RATE**

**50%
CONCEPTION
RATE
3+ LACTATION**

**36%
PREGNANCY
RATE
3+ LACTATION**

Pictured (left): Back row - Craig Meinholz, Brian Meinholz, Dean Meinholz. Front row - Javier L. Hidrogo, Susie Martin, Jeremy Konen and Jose Hidrogo.

animals in the herd are around \$500-\$600 DWPS. We've moved the bar quite a bit."

This focus and improvement in health traits has resulted in numerous positive effects, including a growing population of older cows. Today, third- and greater-lactation cows comprise 40% of the herd. "This past year, we kept looking at cull rates and seeing we didn't need to raise as many heifers, because the older cows were doing well," shared Dean. "Their overall health, production, and ability to breed back was good, so we were able to

reduce the number of heifers we needed to produce."

A multiple-site dairy, the reproduction program includes a combination of Presynch, Ovsynch, and a pedometer system. Pregnancy verification begins at 31 days with ultrasound. One week prior to pregnancy check, cows receive GnRH in the event they are open and in the right stage, then they can be re-enrolled in Ovsynch. Non-cycling cows receive a CIDR. Cows confirmed pregnant are verified again at 66 and 185 days. Cows are

marked DNB at 250 days, or earlier, depending on production and other factors.

Blue Star Dairy Farms was solely a family partnership between two third-generation brothers, Craig and Brian Meinholz. Jim Hahn began working for the farm 22 years ago when he was 14 years old and recently became a partner in the operation. The fourth generation is showing interest in the farm, as well. One has completed college and returned to the farm; others are planning to do the same.

PROGRAMS THE WINNERS REFERENCED GET DETAILS FROM YOUR CENTRALSTAR TEAM



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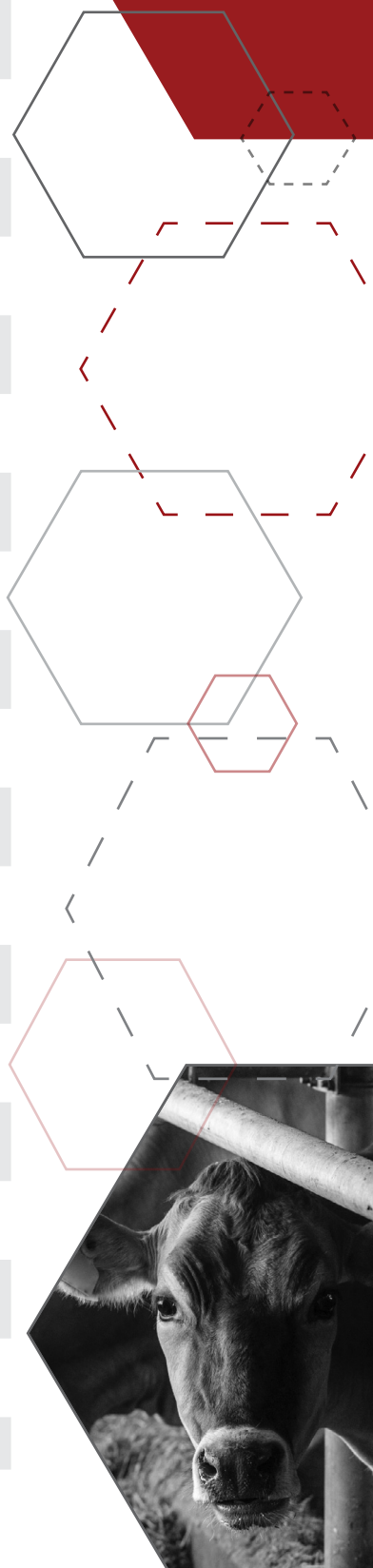
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HERD PROFITABILITY
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Implementing genomic testing ensures accurate animal identification; speeds discovery of superior animals; expedites right-sizing replacement inventory, and more.

TOP ECM PROTEIN BREED HERDS

3X	Herd	Size	Milk	Fat	%	Prot.	%	CFP	ECM
Brown Swiss									
1	* Nor-Bert Farms, Bremen, IN	27	29,632	1,576	5.3	1,080	3.6	7.3	38,361
2	Twinkle-Hill Brown Swiss, Watertown, WI	67	25,884	1,120	4.3	926	3.6	5.6	30,052
3	* Doug Fairbanks, Anamosa, IA	51	25,508	1,144	4.5	859	3.4	5.5	29,727
4	Hendel Farms, Caledonia, MN	28	23,159	1,067	4.6	814	3.5	5.2	27,618
5	John & Wendy Korth, Freeport, IL	76	23,630	1,016	4.3	837	3.5	5.1	27,287
6	Eric Frahm, Frankenmuth, MI	25	24,209	975	4.0	818	3.4	4.9	26,800
7	Loehr Dairy LLC, Mount Calvary, WI	34	24,046	972	4.0	803	3.3	4.9	26,593
8	Duane, Jeanne & Dave Meier, Monticello, WI	63	22,372	1,000	4.5	806	3.6	4.9	26,432
9	* Lewis Century Stock Farms Inc., Lagrange, IN	145	24,034	958	4.0	789	3.3	4.8	26,301
10	Troy Pauli, New Glarus, WI	69	23,384	943	4.0	792	3.4	4.8	25,917
11	Jacob Worden, Sumner, IA	61	22,802	932	4.1	776	3.4	4.7	25,462
12	Jake & Colleen Thostenson, Brodhead, WI	55	21,416	914	4.3	755	3.5	4.6	24,615
13	* Larry & Jennifer Meyer, Chilton, WI	27	21,200	899	4.2	728	3.4	4.5	24,144
14	Mark & Rhonda Hefel, Epworth, IA	25	20,878	894	4.3	734	3.5	4.5	24,020
15	Lee-Ann's Swiss LLC, De Witt, IA	89	20,513	886	4.3	736	3.6	4.4	23,812
16	Duron & Darin Bratland, Spring Grove, MN	126	21,696	823	3.8	732	3.4	4.3	23,352
17	Brad Dietsche & Family, Colfax, WI	39	18,929	851	4.5	679	3.6	4.2	22,405
18	Robert Brandt, Postville, IA	55	19,023	823	4.3	663	3.5	4.1	21,950
19	* Daniel Siegert, Peosta, IA	263	19,779	770	3.9	665	3.4	3.9	21,526
20	Robrt & Susan Kinney, Durand, IL	90	18,888	796	4.2	636	3.4	3.9	21,350
21	James Hauschildt, Ellsworth, WI	46	18,894	797	4.2	624	3.3	3.9	21,273
22	Rick Kruse, Earlville, IA	36	18,988	782	4.1	626	3.3	3.9	21,125
23	Troy & Lindsey Nevil, Juda, WI	67	17,594	717	4.1	569	3.2	3.5	19,391
24	Steve Klug, Spring Grove, MN	108	17,444	700	4.0	573	3.3	3.5	19,153
25	Craig Miller & Family, Orangeville, IL	36	17,345	667	3.8	560	3.2	3.4	18,593
26	Medlang Swiss - Linda Medlang, Kensett, IA	86	16,749	672	4.0	575	3.4	3.4	18,578
Jersey									
1	* Sand Creek Dairy LLC, Hastings, MI	417	24,725	1,261	5.1	928	3.8	6.0	31,514
2	* Grass Ridge Farm LLC, Pittsville, WI	111	21,778	1,128	5.2	822	3.8	5.3	28,017
3	* Doug Fairbanks, Anamosa, IA	82	21,705	1,146	5.3	790	3.6	5.3	27,982
4	Walnutdale Farms, Wayland, MI	1,199	21,231	1,147	5.4	803	3.8	5.3	27,939
5	Petro Farms, Gobles, MI	49	22,244	1,069	4.8	838	3.8	5.2	27,528
6	McAllister Family Dairy LLC, New Vienna, IA	48	20,626	1,102	5.3	783	3.8	5.2	27,006
7	* United Pride Dairy LLC, Phillips, WI	422	20,719	1,098	5.3	782	3.8	5.2	26,977
8	Darren Rusch, Pound, WI	88	20,452	1,097	5.4	746	3.6	5.0	26,601
9	Gary Sulzer, Marathon, WI	87	19,895	1,056	5.3	757	3.8	5.0	25,972
10	Golden Sun Dairy LLC, Shiocton, WI	45	19,890	1,006	5.1	748	3.8	4.8	25,254
11	* Ron & Nicole Wussow, Cecil, WI	81	19,786	1,007	5.1	746	3.8	4.8	25,218
12	* Peter Kimball, Baldwin, WI	110	19,343	1,015	5.2	744	3.8	4.8	25,161
13	NE IA Dairy Foundation, Calmar, IA	85	19,714	1,007	5.1	732	3.7	4.8	25,087
14	* Gord Dick, McBain, MI	72	18,134	1,050	5.8	725	4.0	4.9	25,074
15	Jason & Mary Hettinga, Orange City, IA	139	20,132	954	4.7	760	3.8	4.7	24,751
16	Donna Kunde, Manchester, IA	228	19,636	990	5.0	714	3.6	4.7	24,704
17	I-O State Dairy, Ames, IA	26	18,973	981	5.2	736	3.9	4.7	24,539
18	Spring Creek Farms Inc., Hixton, WI	73	19,896	973	4.9	706	3.5	4.6	24,507
19	Jake & Colleen Thostenson, Brodhead, WI	164	19,110	973	5.1	720	3.8	4.6	24,357
20	Dan Johnson, Evansville, WI	46	19,546	941	4.8	699	3.6	4.5	23,925
21	Clover Farms, Dundas, IL	1,537	19,120	935	4.9	727	3.8	4.6	23,922
22	Grand Central Jerseys LLC, Bristow, IA	137	19,596	925	4.7	714	3.6	4.5	23,849
23	Jenks Jersey, LLC, Marathon, WI	839	17,933	942	5.3	684	3.8	4.5	23,798
24	* Jeff Elmhurst, Granton, WI	327	17,965	974	5.4	686	3.8	4.5	23,736
25	Andy Dums, Rib Lake, WI	47	18,870	876	4.6	694	3.7	4.3	22,824
26	* Michael Heckaman, Argos, IN	221	17,440	929	5.3	643	3.7	4.3	22,652
27	Lyle Borkholder, Nappanee, IN	83	17,567	920	5.2	615	3.5	4.2	22,363
28	Leipprandt Dairy LLC, Pigeon, MI	188	17,322	920	5.3	624	3.6	4.2	22,352
29	Bill Seyller, Fond Du Lac, WI	45	17,696	891	5.0	652	3.7	4.2	22,313
30	Dave & Laurie Kyle, Elkhorn, WI	142	18,089	884	4.9	644	3.6	4.2	22,290
31	Steinhauers Jerseys, Mattoon, WI	117	17,481	887	5.1	661	3.8	4.2	22,260
32	Ronald Richards, Fairbank, IA	77	17,536	886	5.1	652	3.7	4.2	22,196
33	* Murphy Family Farm, New London, WI	83	16,719	906	5.4	633	3.8	4.2	22,042
34	* Andrew Rupperecht, Vassar, MI	49	16,945	865	5.1	645	3.8	4.1	21,677
35	Andy Hauser, Clarksville, IA	35	17,130	849	5.0	643	3.8	4.1	21,515
36	Flotos Jerseys, Oregon, IL	110	16,737	832	5.0	604	3.6	3.9	20,868
37	Paul Kilgus, Fairbury, IL	210	17,229	786	4.6	630	3.7	3.9	20,632
38	Mark & Rhonda Hefel, Epworth, IA	49	16,319	804	4.9	628	3.8	3.9	20,552
39	Shawn & Dwight Gibbs, Farley, IA	79	17,019	796	4.7	598	3.5	3.8	20,448
40	Graybill Farms, Freeport, IL	166	15,677	817	5.2	594	3.8	3.9	20,251



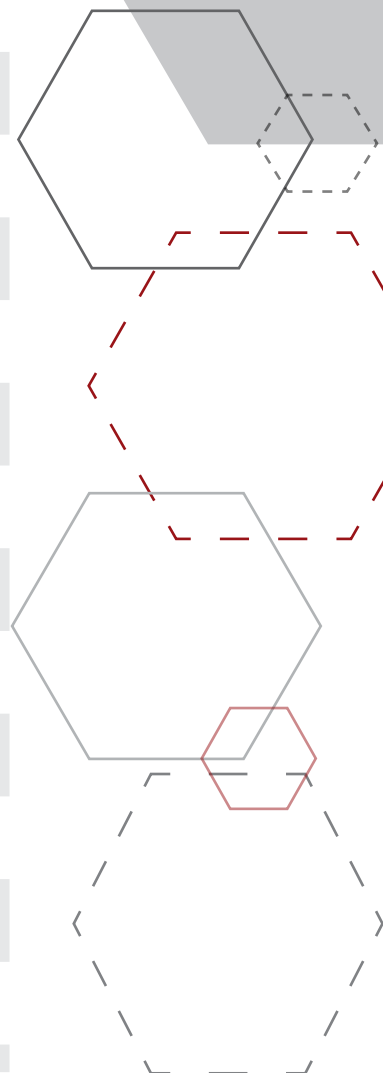
TOP ECM PROTEIN BREED HERDS

3X	Herd	Size	Milk	Fat	%	Prot.	%	CFP	ECM
41	Hickory Grove Dairy, Dakota, IL	64	15,738	810	5.1	582	3.7	3.8	20,088
42	Richlo Dairy Farms, Engadine, MI	96	15,473	807	5.2	586	3.8	3.8	19,993
43	Marshland Dairy LLC, Spencer, WI	102	16,217	782	4.8	575	3.5	3.7	19,829
44	Wendy Bok, Defiance, Ohio	393	15,834	786	5.0	584	3.7	3.8	19,824
45	* Whitford Dairy, LLC, Volga, IA	54	15,135	813	5.4	565	3.7	3.8	19,800
46	Hickory Grove Dairy, Dakota, IL	28	16,367	782	4.8	562	3.4	3.7	19,778
47	John L Schwartz, Bremen, IN	139	15,656	767	4.9	575	3.7	3.7	19,451
48	Leo & Keith Schulte, Dorchester, IA	282	16,131	741	4.6	585	3.6	3.6	19,346
49	Bruce Eldred, Blanchard, MI	72	15,732	756	4.8	571	3.6	3.6	19,303
50	Parsons Dairy Farm LLC, Antigo, WI	33	15,799	747	4.7	559	3.5	3.6	19,116
51	Valley Gem Farms Inc., Cumberland, WI	52	14,516	772	5.3	547	3.8	3.6	18,929
52	Tim Covington, Leon, IA	59	15,399	732	4.8	561	3.6	3.5	18,807
53	Mark Blaha, New Auburn, WI	260	13,529	704	5.2	500	3.7	3.3	17,366
54	Mashaw Danyel, Rock City, IL	32	14,131	631	4.5	508	3.6	3.1	16,678
55	Alan & Stephanie Hughes, Pittsville, WI	32	13,230	650	4.9	496	3.7	3.1	16,538
56	Delbert Yoder, Lagrange, IN	44	12,846	661	5.1	483	3.8	3.1	16,456
57	Michelle Popp, Unity, WI	33	13,583	613	4.5	481	3.5	3.0	16,060
Mixed Breeds									
1	* Fischer & Clark Dairy, Hatley, WI	1,014	32,301	1,390	4.3	1,051	3.3	6.7	36,603
2	* Tony Rosebrugh, West Branch, MI	788	32,871	1,310	4.0	1,014	3.1	6.4	35,470
3	* Dairy Dreams, Casco, WI	4,529	29,131	1,381	4.7	982	3.4	6.5	34,922
4	* Pagels Ponderosa, Kewaunee, WI	6,802	27,852	1,389	5.0	957	3.4	6.4	34,416
5	* Joseph & Susan Rieden, Mount Calvary, WI	675	31,424	1,255	4.0	1,025	3.3	6.2	34,369
6	* Nathan & Tajia Retzlaff, Shawano, WI	44	31,510	1,251	4.0	989	3.1	6.1	34,070
7	Bergan Dairy LLC, Elkader, IA	253	32,826	1,160	3.5	1,002	3.1	5.9	33,421
8	* Blanchard Family Dairy, Charlotte, IA	1,614	28,209	1,297	4.6	890	3.2	6.0	32,829
9	Amy Karpinski, Waupaca, WI	208	30,878	1,169	3.8	951	3.1	5.8	32,511
10	Tom Engelken, Earlville, IA	27	28,483	1,217	4.3	962	3.4	6.0	32,433
11	Auburnvale Swiss, Fremont, WI	202	28,445	1,205	4.2	927	3.3	5.8	31,998
12	Rolling Valley Jerseys, Waterville, IA	34	27,232	1,219	4.5	942	3.5	5.9	31,897
13	* Daane Dairy LLC, Brandon, WI	808	27,214	1,210	4.4	933	3.4	5.9	31,706
14	Charles & Kappy Coch, Tremont, IL	147	25,289	1,265	5.0	909	3.6	6.0	31,605
15	Ron Folkema, Fremont, MI	1,063	28,869	1,173	4.1	880	3.0	5.6	31,363
16	Bruce Martin, Whittemore, MI	105	28,060	1,166	4.2	901	3.2	5.7	31,168
17	Twinkle-Hill Brown Swiss, Watertown, WI	27	28,904	1,098	3.8	949	3.3	5.6	30,931
18	* United Pride Dairy LLC, Phillips, WI	276	24,916	1,207	4.8	893	3.6	5.8	30,610
19	* John Scidmore, Chadwick, IL	377	27,244	1,095	4.0	891	3.3	5.4	29,905
20	Stanley Ferris, Cement City, MI	164	28,995	1,039	3.6	886	3.1	5.3	29,714
21	* Erdman Dairy, Chenoa, IL	70	24,660	1,189	4.8	817	3.3	5.5	29,711
22	* Glen May, Stacyville, IA	194	25,437	1,155	4.5	819	3.2	5.4	29,541
23	Black Soil Dairy, Granville, IA	2,927	26,635	1,064	4.0	877	3.3	5.3	29,198
24	* Liquid Coin Dairy LLC, Milladore, WI	75	24,459	1,157	4.7	786	3.2	5.3	28,994
25	* Omro Dairy, Kaukauna, WI	3,165	23,162	1,120	4.8	859	3.7	5.4	28,649
26	John S Calder, Carleton, MI	138	25,851	1,042	4.0	850	3.3	5.2	28,450
27	Bob & John Bennett, Prescott, MI	213	25,122	1,046	4.2	805	3.2	5.1	27,919
28	* Landstad Dairy LLC, Bonduel, WI	90	25,078	1,041	4.2	814	3.2	5.1	27,909
29	Ted & Jonathan Keenan, Osseo, MI	53	26,894	984	3.7	831	3.1	5.0	27,894
30	Dan Mauer, Scottville, MI	44	24,927	1,025	4.1	842	3.4	5.1	27,866
31	Fisk Farms, Sand Lake, MI	277	26,273	1,009	3.8	806	3.1	5.0	27,824
32	Tim & Kari Gaul, Guttenberg, IA	80	25,890	1,013	3.9	814	3.1	5.0	27,811
33	Martha Imhoff, Goshen, IN	57	23,199	1,124	4.8	736	3.2	5.1	27,772
T	Eric Gaul, Farley, IA	146	24,513	1,063	4.3	783	3.2	5.1	27,772
35	Tom & Jeni Melcher, Castalia, IA	94	24,900	1,024	4.1	815	3.3	5.0	27,638
36	Auburnvale Swiss, Fremont, WI	67	24,218	1,021	4.2	831	3.4	5.1	27,498
37	Darga Farms, Pound, WI	336	24,613	1,038	4.2	784	3.2	5.0	27,488
38	Randy & Michelle Buehne, Highland, IL	161	24,694	1,017	4.1	802	3.2	5.0	27,380
39	Wes Weaver, Sheldon, WI	206	25,366	984	3.9	820	3.2	4.9	27,310
40	Deutsch Farms, Sycamore, IL	184	24,110	1,010	4.2	814	3.4	5.0	27,191
41	Charlie & Katie Bue, Alma Center, WI	40	24,694	1,008	4.1	791	3.2	4.9	27,180
42	Cal & Barb Marshall, Lupton, MI	609	24,145	1,072	4.4	706	2.9	4.9	27,179
43	* Thuemmel Dairy, Port Austin, MI	33	25,693	947	3.7	845	3.3	4.9	27,130
44	Jacob Worden, Sumner, IA	27	22,954	1,039	4.5	795	3.5	5.0	27,043
45	Petro Farms, Gobles, MI	42	24,901	967	3.9	822	3.3	4.9	26,954
46	Jim & Kim Wolf, Epworth, IA	262	24,403	1,004	4.1	753	3.1	4.8	26,742
47	* Robert Roden, West Bend, WI	962	24,008	1,006	4.2	751	3.1	4.8	26,623
48	David Michels, Osage, IA	136	23,863	1,001	4.2	762	3.2	4.8	26,595
49	Carrie Peissig, Loyal, WI	52	23,912	978	4.1	755	3.2	4.7	26,260
50	Steve & Ruth Butzler, Cumberland, WI	129	23,187	972	4.2	787	3.4	4.8	26,190



TOP 100 ECM PROTEIN BREED HERDS

3X	Herd	Size	Milk	Fat	%	Prot.	%	CFP	ECM
51	* Tom Zenz, Grass Lake, MI	232	24,040	935	3.9	768	3.2	4.7	25,845
52	Kevin Litwiller, Perrinton, MI	144	21,904	956	4.4	758	3.5	4.7	25,342
53	Richlo Dairy Farms, Engadine, MI	275	22,707	928	4.1	767	3.4	4.6	25,310
54	* Doug Fairbanks, Anamosa, IA	26	21,159	989	4.7	721	3.4	4.7	25,242
55	Dan & Melissa Fagle, Fayette, IA	45	23,980	900	3.8	747	3.1	4.5	25,211
56	Saxon Homestead Farms, Cleveland, WI	577	21,494	966	4.5	736	3.4	4.7	25,169
57	Randy D Knapp, Epworth, IA	113	21,044	969	4.6	744	3.5	4.7	25,122
58	Gary Nielsen, Coral, MI	66	22,631	938	4.1	721	3.2	4.5	25,063
59	Ryan Kluesner, Worthington, IA	39	22,753	910	4.0	763	3.4	4.6	25,062
60	Jeff & Nancy Taylor, Colfax, WI	143	21,828	926	4.2	759	3.5	4.6	24,936
61	Brain Saunders, Independence, IA	98	22,281	917	4.1	750	3.4	4.6	24,899
62	Twin River Dairy Inc., Freeport, MI	476	20,651	977	4.7	717	3.5	4.6	24,890
63	Randy James, Livingston, WI	442	22,019	928	4.2	737	3.3	4.6	24,856
64	Redetzkes' No Joke Dairy, Stratford, WI	220	19,610	1,004	5.1	704	3.6	4.7	24,800
65	Tom & Karen Hamlett, Arlington, IA	64	23,414	892	3.8	729	3.1	4.4	24,785
66	Hiview Farm, Orangeville, IL	59	22,301	923	4.1	714	3.2	4.5	24,707
67	* Gary & Darlene Kregel, Guttenberg, IA	479	21,053	938	4.5	679	3.2	4.4	24,226
68	Sam Schneider, Cuba City, WI	107	19,023	992	5.2	664	3.5	4.5	24,147
69	Pete & Ann Steffel, Oconto Falls, WI	55	21,719	881	4.1	733	3.4	4.4	24,119
70	Mike Carroll, Ryan, IA	38	21,791	854	3.9	716	3.3	4.3	23,662
71	Ramer View Holsteins, Goshen, IN	170	21,555	873	4.1	681	3.2	4.3	23,563
72	Hagen Brothers Dairy, Waterville, IA	75	20,786	877	4.2	692	3.3	4.3	23,448
73	Gucwa Farms, Bad Axe, MI	138	20,901	866	4.1	703	3.4	4.3	23,427
74	Bo-Te Farms Inc., West Branch, MI	297	22,066	838	3.8	678	3.1	4.2	23,254
75	Tumbleweed Dairy, Lowell, MI	34	20,799	871	4.2	671	3.2	4.2	23,214
76	John N Kuperus, Dorr, MI	220	20,407	857	4.2	672	3.3	4.2	22,912
77	Twin Oak Farms, Dorchester, WI	26	20,267	846	4.2	677	3.3	4.2	22,762
78	Jordan Martin, Greenwood, WI	79	18,652	895	4.8	661	3.5	4.3	22,746
79	Kemridge Farm 2 Inc., Westfield, WI	38	18,836	882	4.7	654	3.5	4.2	22,584
80	Aaron Dietsche, Bloomer, WI	134	19,224	840	4.4	697	3.6	4.2	22,496
81	K & S Farms, Hudson, IN	153	20,664	805	3.9	672	3.3	4.0	22,323
82	Loras Kruse Family, Holy Cross, IA	70	18,454	862	4.7	623	3.4	4.1	21,963
83	Todd & Janet Habermann, Manitowoc, WI	53	19,962	809	4.1	640	3.2	4.0	21,900
84	Wayne & Michael Mormann, Colesburg, IA	26	18,293	832	4.5	620	3.4	4.0	21,499
85	Albern Olson, Stanton, MI	115	18,428	818	4.4	623	3.4	3.9	21,385
86	Fordyce Family Farm, Aurelia, IA	158	19,249	783	4.1	637	3.3	3.9	21,307
87	Rob Marten, Onondaga, MI	66	18,741	773	4.1	654	3.5	3.9	21,142
88	Matt Brahmaer, Spring Valley, WI	35	17,171	847	4.9	595	3.5	4.0	21,135
89	Tim Busch, Cecil, WI	43	19,360	773	4.0	618	3.2	3.8	21,069
90	Roger Mason, Stanley, WI	48	19,524	767	3.9	609	3.1	3.8	20,976
91	Carissa Schneider, Browntown, WI	61	19,882	752	3.8	608	3.1	3.7	20,891
92	Folkersma Farms LLC, Rudyard, MI	122	18,250	788	4.3	607	3.3	3.8	20,816
93	Andy Lemler, Bourbon, IN	85	20,255	705	3.5	661	3.3	3.7	20,810
94	Gucwa Farms, Bad Axe, MI	38	18,435	757	4.1	624	3.4	3.8	20,605
95	Andy Hauser, Clarksville, IA	29	19,603	706	3.6	643	3.3	3.7	20,472
96	Kadence, New Glarus, WI	75	17,254	790	4.6	601	3.5	3.8	20,470
97	Clint & Abby Mueller, Black Creek, WI	55	18,371	769	4.2	581	3.2	3.7	20,411
98	Jason Weihrouch, Melrose, WI	46	18,459	753	4.1	598	3.2	3.7	20,362
99	Idlegold Guernsey, Comstock, WI	145	17,257	778	4.5	594	3.4	3.8	20,262
100	Abrahamson & Abrahamson LLC, Waupaca, WI	43	18,879	732	3.9	588	3.1	3.6	20,151
101	Frieson Dairy, Newark, IL	238	17,436	760	4.4	601	3.4	3.7	20,141



REDUCE EMISSIONS ONE GALLON AT A TIME.



Mastitis hurts your profits and the environment.

Research shows that a cow with a case of mastitis has 6% higher emissions per gallon of milk during that lactation compared to a cow without mastitis¹. Select Sires' Herd Health Profit Dollars™ (HHPD™) index places 4-5 times the emphasis on mastitis resistance traits compared to other indexes. Ask your CentralStar team about HHPD.



¹ Mostert et al. 2019

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Disinfection

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Powerful

- Killing rate of greater than 99.999% of mastitis causing pathogens
- Effective against *Mycoplasma bovis* and *Prototheca*

Efficient

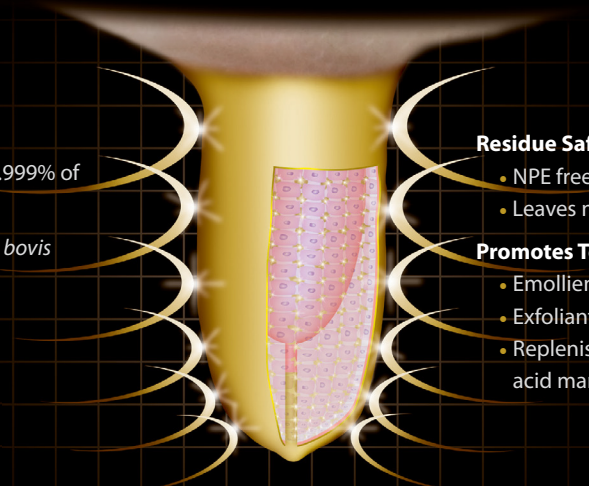
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THIS MARK MATTERS.



Paxton and Paul Windemuller | Dream Winds Dairy | Coopersville, Mich.



ADVTME22005

3X	Herd	Breed	Size	Milk	Fat	F%	Prot.	P%	CFP	ECM	SCC
*	Oesch Swisslane, Alto, MI	HO	1,571	29,436	1,292	4.4	960	3.3	6.2	33,701	42,000
	Lyle Borkholder, Nappanee, IN	JE	83	17,567	920	5.2	615	3.5	4.2	22,363	47,000
*	Maple Leaf Acres, Elk Mound, WI	HO	354	28,018	1,227	4.4	910	3.2	5.9	32,013	50,000
	Mike Bosscher, McBain, MI	HO	211	27,827	1,104	4.0	850	3.1	5.4	29,899	51,000
	Raymond Dairy Inc., New Richmond, WI	HO	88	27,210	1,124	4.1	886	3.3	5.5	30,231	52,000
	Jonathan Burkholder, Sheridan, MI	HO	82	25,679	1,039	4.0	815	3.2	5.1	28,087	52,000
	Ed & Bob Meier, Belleville, WI	HO	59	23,059	1,028	4.5	800	3.5	5.0	26,973	56,000
	Hendel Farms, Caledonia, MN	HO	379	28,384	1,277	4.5	944	3.3	6.1	33,040	59,000
	Keith & Cindy Binder, Monticello, WI	HO	99	27,993	1,084	3.9	883	3.2	5.4	29,946	60,000
	Hendel Farms, Caledonia, MN	BS	28	23,159	1,067	4.6	814	3.5	5.2	27,618	60,000
	Eric Frahm, Frankenmuth, MI	BS	25	24,209	975	4.0	818	3.4	4.9	26,800	60,000
	R A Schanbacher Inc., Newhall, IA	HO	141	27,790	1,022	3.7	859	3.1	5.2	28,894	61,000
	Mike Bosscher, McBain, MI	HO	53	25,963	1,050	4.0	802	3.1	5.1	28,223	61,000
	Auburnvale Swiss, Fremont, WI	XX	67	24,218	1,021	4.2	831	3.4	5.1	27,498	62,000
	Paige Mier, Prescott, MI	HO	65	19,502	786	4.0	609	3.1	3.8	21,215	62,000
*	Crandall Farms LLC, Battle Creek, MI	HO	355	32,160	1,372	4.3	1,047	3.3	6.6	36,293	64,000
*	Mike Zagata, Sebawaing, MI	HO	709	31,395	1,352	4.3	969	3.1	6.4	35,187	64,000
	Stuart Farms, Lowell, MI	HO	433	30,693	1,325	4.3	1,007	3.3	6.4	34,899	67,000
*	Nichols Hill Dairy, Krakow, WI	HO	352	31,101	1,240	4.0	1,003	3.2	6.1	33,901	67,000
	Eric Frahm, Frankenmuth, MI	HO	133	29,452	1,135	3.9	938	3.2	5.7	31,505	67,000
	Jesse & Rachel Thoma, Manawa, WI	HO	79	26,855	1,101	4.1	869	3.2	5.4	29,687	67,000
*	MSU Dairy Dept, Lansing, MI	HO	247	29,103	1,096	3.8	929	3.2	5.5	30,817	68,000
	John Zewen, New Vienna, IA	HO	68	26,604	1,026	3.9	867	3.3	5.2	28,619	68,000
	Terry Deutmeyer, Dyersville, IA	HO	110	30,514	1,284	4.2	946	3.1	6.1	33,843	71,000
*	Olson's Best Dairy LLC, Shiocton, WI	HO	320	31,332	1,231	3.9	984	3.1	6.1	33,715	71,000
*	Maly Farms, Bryant, WI	HO	511	32,355	1,231	3.8	987	3.1	6.1	34,072	72,000
	Silvershea Holsteins LLC, Omro, WI	HO	188	30,997	1,200	3.9	953	3.1	5.9	32,966	72,000
	Leon Henneman, Ellsworth, WI	HO	54	27,511	1,101	4.0	941	3.4	5.6	30,453	72,000
	Dale Brinks, McBain, MI	HO	205	31,147	1,284	4.1	1,010	3.2	6.3	34,539	74,000
*	Norm & Derrick Hammond, Dowling, MI	HO	521	30,933	1,182	3.8	957	3.1	5.9	32,743	74,000
	David & Peter Score, Boyceville, WI	HO	119	23,711	998	4.2	783	3.3	4.9	26,668	74,000
*	Brightside Dairy LLC, Greenleaf, WI	HO	830	32,276	1,143	3.5	999	3.1	5.9	32,998	75,000
*	Gilde Farms LLC, Lake City, MI	HO	247	27,720	1,267	4.6	814	2.9	5.7	31,699	75,000
*	Voight Acres, Shiocton, WI	HO	290	29,780	1,138	3.8	925	3.1	5.7	31,551	75,000
	Volmering Family Dairy, Harbor Beach, MI	HO	192	28,607	1,088	3.8	900	3.1	5.4	30,329	75,000
	Joel Schultz, Hammond, WI	HO	53	20,337	802	3.9	609	3.0	3.9	21,695	75,000
*	Todd & Bryce Mark, Elmwood, WI	HO	165	32,312	1,238	3.8	1,060	3.3	6.3	34,707	76,000
*	Horsens Homestead Farms, Cecil, WI	HO	1,451	34,785	1,483	4.3	1,148	3.3	7.2	39,362	77,000
	Johnson Family Dairy LLC, Juda, WI	HO	85	25,550	1,067	4.2	845	3.3	5.2	28,637	77,000
	Todd & Jessica Ertl, Unity, WI	HO	107	22,913	926	4.0	701	3.1	4.5	24,847	77,000
*	Blaser Farms Inc., Gillett, WI	HO	605	34,486	1,421	4.1	1,093	3.2	6.9	38,040	78,000
*	Grass Ridge Farm LLC, Pittsville, WI	JE	111	21,778	1,128	5.2	822	3.8	5.3	28,017	79,000
*	Wilnora Holsteins, Milton, WI	HO	90	33,415	1,251	3.7	1,053	3.2	6.3	35,183	80,000
*	Ed Walter Farm Inc., Oshkosh, WI	HO	318	31,344	1,310	4.2	998	3.2	6.3	34,849	80,000
*	Grass Ridge Farm LLC, Pittsville, WI	HO	591	30,619	1,271	4.2	1,013	3.3	6.3	34,221	80,000
	Dominic & Jamie Mastey, Bonduel, WI	HO	160	31,219	1,195	3.8	932	3.0	5.8	32,814	80,000
*	Kris Wardin, St Johns, MI	HO	633	29,702	1,142	3.8	945	3.2	5.7	31,731	80,000
*	Mitchell Ronnebaum, Earlville, IA	HO	183	32,071	1,376	4.3	1,049	3.3	6.6	36,331	81,000
	Brian & Monica Enyart, Postville, IA	HO	140	29,445	1,146	3.9	894	3.0	5.6	31,308	82,000
	Dave & Rick Tacoma, Falmouth, MI	HO	405	29,122	1,107	3.8	943	3.2	5.6	31,072	82,000
	James Reid, Jeddo, MI	HO	260	27,996	1,088	3.9	935	3.3	5.5	30,397	82,000
	Morgan Long, Brillion, WI	HO	117	27,315	984	3.6	839	3.1	5.0	28,093	82,000
*	Brickstead Dairy LLC, Greenleaf, WI	HO	987	30,917	1,210	3.9	984	3.2	6.0	33,307	83,000
	Matthew & Susan Smith, Hudson, MI	HO	72	29,163	1,181	4.0	925	3.2	5.8	31,907	83,000
*	Vande Hei Dairy Farms, De Pere, WI	HO	433	29,871	1,129	3.8	912	3.1	5.6	31,365	84,000
	Derek Hammerand, Dubuque, IA	HO	221	31,054	1,317	4.2	986	3.2	6.3	34,753	86,000
*	Jeremy Seiler, Carson City, MI	HO	379	32,588	1,222	3.7	1,018	3.1	6.1	34,269	86,000
*	Ryan Litwiller, Middleton, MI	HO	317	32,240	1,152	3.6	1,015	3.1	5.9	33,226	86,000
	Earl & Jeff Horning, Manchester, MI	HO	437	29,675	1,227	4.1	924	3.1	5.9	32,662	86,000
	Jeff & Kate Hendrickson, Belleville, WI	HO	123	28,749	1,137	4.0	917	3.2	5.6	31,140	86,000
	Roth Farms, Lowell, MI	HO	57	27,889	1,060	3.8	868	3.1	5.3	29,487	86,000
	Gary Sulzer, Marathon, WI	JE	87	19,895	1,056	5.3	757	3.8	5.0	25,972	86,000
*	Yonkman Dairy, McBain, MI	HO	1,885	31,481	1,312	4.2	952	3.0	6.2	34,567	87,000
	Auburnvale Swiss, Fremont, WI	XX	202	28,445	1,205	4.2	927	3.3	5.8	31,998	87,000
	Nienhuis Dairy Farm, Zeeland, MI	HO	304	28,219	1,084	3.8	876	3.1	5.4	29,967	87,000
*	Baker Lads Farm, Clayton, MI	HO	530	29,318	992	3.4	882	3.0	5.1	29,181	87,000
	Jeff & Nancy Taylor, Colfax, WI	XX	143	21,828	926	4.2	759	3.5	4.6	24,936	87,000
	Troy & Sara Blazek, Oconto Falls, WI	HO	199	28,944	1,136	3.9	943	3.3	5.7	31,390	88,000

**LOW
SCC
HERDS**

≤100,000 SCC
& ≥21,000 ECM

**CENTRALSTAR
DHI
HERDS**

**AVERAGE
188,886
SCC**

**TOP 10%
98,000
SCC**

LOW SCC HERDS

≤100,000 SCC
& ≥21,000 ECM

3X	Herd	Breed	Size	Milk	Fat	F%	Prot.	P%	CFP	ECM	SCC
	Melanie Junk, Epworth, IA	HO	90	22,043	935	4.2	731	3.3	4.6	24,908	88,000
	Tom Engelken, Earlville, IA	HO	221	34,543	1,385	4.0	1,124	3.3	6.9	37,830	89,000
*	Fischer & Clark Dairy, Hatley, WI	XX	1,014	32,301	1,390	4.3	1,051	3.3	6.7	36,603	90,000
*	Tony Rosbrugh, West Branch, MI	XX	788	32,871	1,310	4.0	1,014	3.1	6.4	35,470	90,000
	Tom Engelken, Earlville, IA	XX	27	28,483	1,217	4.3	962	3.4	6.0	32,433	90,000
	Duane, Mel & Chad See, Chilton, WI	HO	816	28,134	1,242	4.4	864	3.1	5.8	31,893	90,000
	Bill Deruiter, Marion, MI	HO	377	29,996	1,045	3.5	914	3.0	5.4	30,334	90,000
	Milk Source Genetics LLC, Kaukauna, WI	HO	69	21,701	956	4.4	684	3.2	4.5	24,709	90,000
	Furseth Farms Inc., Stoughton, WI	HO	192	30,004	1,223	4.1	951	3.2	6.0	32,924	91,000
	Oneeda Farms LLC, Syracuse, IN	HO	199	25,174	995	4.0	814	3.2	5.0	27,344	91,000
*	W-R-L Daniels Farm, Whittemore, MI	HO	671	29,734	1,403	4.7	956	3.2	6.5	35,205	92,000
	Darren Rusch, Pound, WI	HO	407	30,749	1,328	4.3	975	3.2	6.3	34,711	92,000
	Lyle & Carla Weaver, Goshen, IN	HO	142	29,539	1,243	4.2	950	3.2	6.0	33,024	92,000
	Ron Folkema, Fremont, MI	XX	1,063	28,869	1,173	4.1	880	3.0	5.6	31,363	92,000
	Chad Beck, West Branch, MI	HO	941	28,102	1,109	3.9	872	3.1	5.4	30,222	92,000
	Raterink Dairy Farm, Zeeland, MI	HO	121	28,525	1,151	4.0	858	3.0	5.5	30,797	93,000
	John W Nolt, Orchard, IA	HO	58	28,339	1,149	4.1	866	3.1	5.5	30,771	93,000
*	Zorowski Family Farms LLC, Custer, WI	HO	469	33,838	1,491	4.4	1,111	3.3	7.1	38,873	94,000
	McCulloch Farms, Rockford, IL	HO	101	26,966	1,054	3.9	835	3.1	5.2	28,855	94,000
	Jeremy Beebe, Whittemore, MI	HO	168	24,797	1,029	4.1	797	3.2	5.0	27,531	94,000
*	Hilger Farms Inc., Bloomer, WI	HO	444	25,139	1,036	4.1	766	3.0	4.9	27,497	94,000
	Seth Huizenga, Brandon, WI	HO	158	23,548	922	3.9	756	3.2	4.6	25,424	94,000
*	Buning Dairy LLC, Falmouth, MI	HO	710	32,791	1,253	3.8	1,025	3.1	6.2	34,790	95,000
*	Rusk-Rose Holsteins, Ladysmith, WI	HO	513	32,380	1,194	3.7	973	3.0	5.9	33,494	95,000
	Doug Roth, Mt. Pleasant, IA	HO	188	28,059	1,138	4.1	898	3.2	5.6	30,782	95,000
	Bo-Te Farms Inc., West Branch, MI	XX	297	22,066	838	3.8	678	3.1	4.2	23,254	95,000
*	George Kasbergen, Mansfield, IL	HO	3,707	33,703	1,281	3.8	1,017	3.0	6.3	35,390	96,000
	Royal Vista Holsteins LLC, Pickett, WI	HO	371	29,987	1,218	4.1	957	3.2	6.0	32,900	96,000
	Dan & Becky Meyer Family, Kiel, WI	HO	182	27,645	1,113	4.0	903	3.3	5.5	30,361	96,000
	Troy Pauli, New Glarus, WI	HO	46	26,807	1,016	3.8	850	3.2	5.1	28,426	96,000
	Andy Kortman, McBain, MI	HO	254	28,893	1,121	3.9	905	3.1	5.6	30,888	97,000
	Smith Dairy Farm, Fremont, MI	HO	109	21,374	839	3.9	661	3.1	4.1	22,911	97,000
	Al Ledvina, Luxemburg, WI	HO	60	20,988	789	3.8	641	3.1	3.9	21,984	97,000
*	Ambrosius Dairy Farm, Seymour, WI	HO	126	33,137	1,318	4.0	1,023	3.1	6.4	35,730	98,000
	Rolling Hills Dairy LLC, Luxemburg, WI	HO	1,813	30,756	1,260	4.1	964	3.1	6.1	33,749	98,000
*	Jay & Amy Krahn, Brillion, WI	HO	177	31,149	1,250	4.0	941	3.0	6.0	33,572	98,000
	Bill & Bob Gruppen, Zeeland, MI	HO	110	24,324	1,173	4.8	868	3.6	5.6	29,785	98,000
	Len-Don Farms, Bloomer, WI	HO	78	27,957	1,101	3.9	878	3.1	5.4	30,117	99,000
	Mitch-Haven, Dakota, IL	HO	73	25,591	892	3.5	765	3.0	4.5	25,772	99,000
	River Crest Dairy LLC, Greenwood, WI	HO	256	30,190	1,310	4.3	1,010	3.3	6.4	34,563	100,000
	Ron Brinks, McBain, MI	HO	133	28,972	1,142	3.9	943	3.3	5.7	31,477	100,000
	Wilwert Bros, Holy Cross, IA	HO	207	27,266	1,122	4.1	856	3.1	5.4	29,994	100,000
	Kemridge Farm 2 Inc., Westfield, WI	HO	291	27,508	1,083	3.9	854	3.1	5.3	29,553	100,000
*	Dall Dairy, Aviston, IL	HO	425	25,710	1,059	4.1	832	3.2	5.2	28,486	100,000
	Fisk Farms, Sand Lake, MI	XX	277	26,273	1,009	3.8	806	3.1	5.0	27,824	100,000
	Tom & Jeni Melcher, Castalia, IA	XX	94	24,900	1,024	4.1	815	3.3	5.0	27,638	100,000
	Ramer & Sons Dairy, New Paris, IN	HO	168	24,563	942	3.8	787	3.2	4.7	26,252	100,000
	Robert C Miller, Orangeville, IL	HO	68	22,454	871	3.9	698	3.1	4.3	23,962	100,000

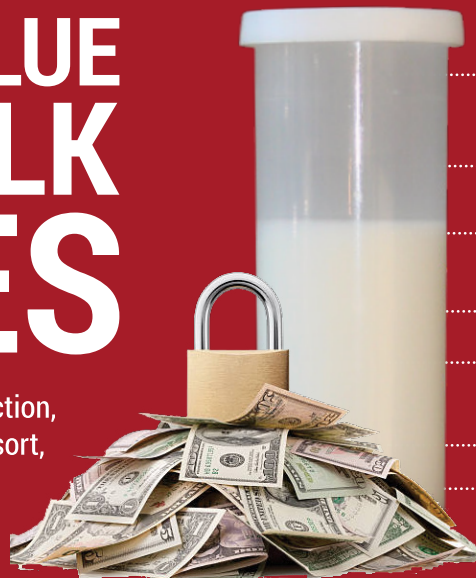
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¹ Watson CL, Forbes AB. An outbreak of sarcoptic mange in dairy cows. *UK-Vet Livestock* 2000;5(4):48-50.



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TOP HERDS BY SIZE AND ECM

3X	Herd	Breed	Size	Milk	Fat	F%	Prot.	P%	CFP	ECM
25 - 74 Cows										
1	* Nor-Bert Farms, Bremen, IN	BS	27	29,632	1,576	5.3	1,080	3.6	7.3	38,361
2	Jim & Matt Wautier, Brussels, WI	HO	56	31,341	1,312	4.2	990	3.2	6.3	34,812
3	Hillebrand Farms, Cornell, WI	HO	57	30,400	1,320	4.3	977	3.2	6.3	34,509
4	* Country Dairy, New Era, MI	HO	65	33,954	1,173	3.5	1,049	3.1	6.1	34,318
5	* Nathan & Tajia Retzlaff, Shawano, WI	XX	44	31,510	1,251	4.0	989	3.1	6.1	34,070
6	David Martin, Fenwick, MI	HO	70	26,415	1,448	5.5	826	3.1	6.2	33,708
7	Nathan & Kristy Mulder, Ridott, IL	HO	67	32,068	1,172	3.7	992	3.1	5.9	33,252
8	Reuben Nolt, Alta Vista, IA	HO	65	28,614	1,256	4.4	923	3.2	6.0	32,683
9	Duane, Jeanne & Dave Meier, Monticello, WI	HO	74	29,321	1,203	4.1	958	3.3	5.9	32,496
10	Tom Engelken, Earlville, IA	XX	27	28,483	1,217	4.3	962	3.4	6.0	32,433
11	Brent & Carrie Pollard, Rockford, IL	HO	63	28,354	1,221	4.3	920	3.2	5.9	32,122
12	Matthew & Susan Smith, Hudson, MI	HO	72	29,163	1,181	4.0	925	3.2	5.8	31,907
13	Rolling Valley Jerseys, Waterville, IA	XX	34	27,232	1,219	4.5	942	3.5	5.9	31,897
14	Kandy-Bahr Holsteins, Waukon, IA	HO	69	29,836	1,132	3.8	964	3.2	5.7	31,790
15	Heather Krueger, Clintonville, WI	HO	72	28,825	1,159	4.0	919	3.2	5.7	31,465
16	Twinkle-Hill Brown Swiss, Watertown, WI	XX	27	28,904	1,098	3.8	949	3.3	5.6	30,931
17	John W Nolt, Orchard, IA	HO	58	28,339	1,149	4.1	866	3.1	5.5	30,771
18	Daryl & Pam Nunes, Deerfield, WI	HO	39	27,621	1,168	4.2	859	3.1	5.6	30,729
19	Eric Zutz, Valders, WI	HO	68	30,351	1,098	3.6	860	2.8	5.4	30,723
20	Leon Henneman, Ellsworth, WI	HO	54	27,511	1,101	4.0	941	3.4	5.6	30,453
21	David & Julie Marcks, Black Creek, WI	HO	49	28,756	1,102	3.8	881	3.1	5.4	30,414
22	Vil-Edge Farms, Fond Du Lac, WI	HO	72	28,686	1,094	3.8	897	3.1	5.5	30,410
23	Trent & Matt Henkes, Luana, IA	HO	56	27,994	1,126	4.0	869	3.1	5.5	30,384
24	Alvin & Sylvia Sauder, Charles City, IA	HO	62	28,144	1,096	3.9	896	3.2	5.5	30,251
25	White Gold Dairy LLC, Plainfield, IA	HO	60	28,647	1,085	3.8	886	3.1	5.4	30,196
26	Steve Landis, Goshen, IN	HO	34	26,629	1,175	4.4	810	3.0	5.4	30,120
27	Twinkle-Hill Brown Swiss, Watertown, WI	BS	67	25,884	1,120	4.3	926	3.6	5.6	30,052
28	Mike Quilling, Menomonie, WI	HO	57	25,939	1,117	4.3	897	3.5	5.5	29,809
29	* Doug Fairbanks, Anamosa, IA	BS	51	25,508	1,144	4.5	859	3.4	5.5	29,727
30	* Erdman Dairy, Chenoa, IL	XX	70	24,660	1,189	4.8	817	3.3	5.5	29,711
75 - 149 Cows										
1	* Ambrosius Dairy Farm, Seymour, WI	HO	126	33,137	1,318	4.0	1,023	3.1	6.4	35,730
2	* Winore Holsteins, Milton, WI	HO	90	33,415	1,251	3.7	1,053	3.2	6.3	35,183
3	Terry Deutmeyer, Dyersville, IA	HO	110	30,514	1,284	4.2	946	3.1	6.1	33,843
4	Charles Maurer, Chilton, WI	HO	112	31,633	1,231	3.9	986	3.1	6.1	33,828
5	* Nor-Bert Farms, Bremen, IN	HO	86	27,545	1,305	4.7	993	3.6	6.3	33,503
6	New-Day Dairy-Robert Strack, Athens, WI	HO	120	31,522	1,187	3.8	981	3.1	5.9	33,184
7	* Lance & Jonna Schutte, Monona, IA	HO	103	30,770	1,192	3.9	988	3.2	6.0	33,056
8	Lyle & Carla Weaver, Goshen, IN	HO	142	29,539	1,243	4.2	950	3.2	6.0	33,024
9	Tracy Lacrosse & Dale Uecker, Forestville, WI	HO	86	29,706	1,238	4.2	949	3.2	6.0	33,006
10	* Larry & Jennifer Meyer, Chilton, WI	HO	125	30,841	1,182	3.8	982	3.2	5.9	32,904
11	Jonas Zimmerman, Wakarusa, IN	HO	127	26,958	1,335	5.0	875	3.2	6.1	32,797
12	* Jeff & Melinda Walz, West Union, IA	HO	124	30,472	1,212	4.0	915	3.0	5.8	32,659
13	Production Unlimited LLC, Twin Lakes, WI	HO	130	28,731	1,225	4.3	950	3.3	6.0	32,526
14	Troy & Don Meyer, Maynard, IA	HO	97	28,733	1,208	4.2	931	3.2	5.9	32,161
15	Lehman Dairy, Sherrill, IA	HO	139	29,849	1,169	3.9	941	3.2	5.8	32,098
16	Charles & Kappy Koch, Tremont, IL	HO	148	26,775	1,250	4.7	935	3.5	6.0	32,096
17	Martin Kevin, Warren, IL	HO	113	29,847	1,161	3.9	952	3.2	5.8	32,078
18	* Carson Acres LLC, Hesperia, MI	HO	139	29,875	1,150	3.8	952	3.2	5.8	31,944
19	Tom & Sara Kruse, Dyersville, IA	HO	78	27,922	1,205	4.3	939	3.4	5.9	31,919
20	Andrew Houlberg, Monticello, WI	HO	117	28,965	1,173	4.0	939	3.2	5.8	31,845
21	Bill & Bob Gruppen, Zeeland, MI	HO	86	30,893	1,115	3.6	951	3.1	5.7	31,816
22	* Keith Wood, Kingston, MI	HO	137	28,410	1,178	4.1	945	3.3	5.8	31,774
23	Dair-E-Land Holsteins, Shobonier, IL	HO	140	29,263	1,149	3.9	945	3.2	5.7	31,678
24	Charles & Kappy Coch, Tremont, IL	XX	147	25,289	1,265	5.0	909	3.6	6.0	31,605
25	Virgil Martin, Boscobel, WI	HO	125	29,492	1,145	3.9	923	3.1	5.7	31,533
26	Eric Frahm, Frankenmuth, MI	HO	133	29,452	1,135	3.9	938	3.2	5.7	31,505
27	Ron Brinks, McBain, MI	HO	133	28,972	1,142	3.9	943	3.3	5.7	31,477
28	Duane & Joan Lisowe, Chilton, WI	HO	102	28,379	1,169	4.1	917	3.2	5.7	31,434
29	Marvin Martin, Carson City, MI	HO	76	29,340	1,136	3.9	929	3.2	5.7	31,412
30	Dave Beuschel, Conklin, MI	HO	114	28,075	1,196	4.3	868	3.1	5.7	31,309
150 - 299 Cows										
1	Tom Engelken, Earlville, IA	HO	221	34,543	1,385	4.0	1,124	3.3	6.9	37,830
2	* Tom Kunkel, Cuba City, WI	HO	244	33,593	1,437	4.3	1,035	3.1	6.8	37,512
3	* Nathan & Tajia Retzlaff, Shawano, WI	HO	150	34,665	1,364	3.9	1,091	3.1	6.7	37,345
4	* Mark Vanderhyde - Spartan Farm, Sparta, MI	HO	269	29,755	1,528	5.1	920	3.1	6.7	36,555
5	Dan & Tim Liner, Van Dyne, WI	HO	261	33,542	1,317	3.9	1,102	3.3	6.6	36,454
6	* Mitchell Ronnebaum, Earlville, IA	HO	183	32,071	1,376	4.3	1,049	3.3	6.6	36,331

Enhancing producer profitability through integrated services.



TOP HERDS BY SIZE AND ECM

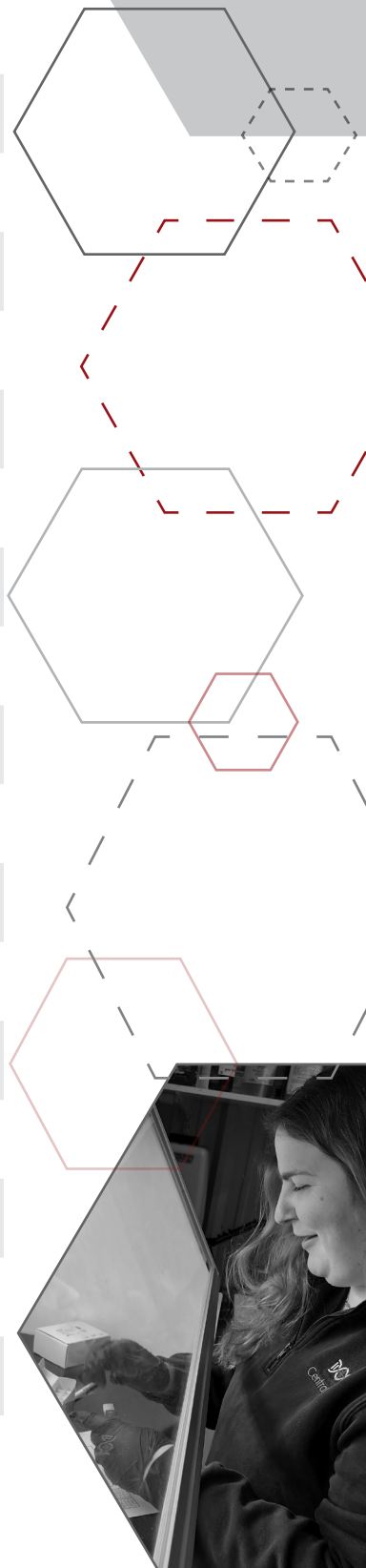
3X	Herd	Breed	Size	Milk	Fat	F%	Prot.	P%	CFP	ECM
7	* Neil Christianson, Shiocton, WI	HO	189	31,383	1,324	4.2	994	3.2	6.4	35,012
8	Greg & Jenny Conway, Lansing, IA	HO	170	30,719	1,345	4.4	973	3.2	6.4	34,906
9	Derek Hammerand, Dubuque, IA	HO	221	31,054	1,317	4.2	986	3.2	6.3	34,753
10	* Doug Fairbanks, Anamosa, IA	HO	285	31,286	1,307	4.2	991	3.2	6.3	34,737
11	* Todd & Bryce Mark, Elmwood, WI	HO	165	32,312	1,238	3.8	1,060	3.3	6.3	34,707
12	* Jordan Prairie Holsteins, Brodhead, WI	HO	220	32,180	1,251	3.9	1,029	3.2	6.2	34,595
13	River Crest Dairy LLC, Greenwood, WI	HO	256	30,190	1,310	4.3	1,010	3.3	6.4	34,563
14	Dale Brinks, McBain, MI	HO	205	31,147	1,284	4.1	1,010	3.2	6.3	34,539
15	* Prairie View Dairy LLC, Fairbury, IL	HO	207	31,878	1,236	3.9	977	3.1	6.1	33,904
16	Jerangle Dairy, Wakarusa, IN	HO	234	29,822	1,259	4.2	1,006	3.4	6.2	33,752
17	Ross Simler, Monticello, WI	HO	181	30,328	1,257	4.1	968	3.2	6.1	33,601
18	* Jay & Amy Krahn, Brillion, WI	HO	177	31,149	1,250	4.0	941	3.0	6.0	33,572
19	David Dezeeuw, Falmouth, MI	HO	173	30,802	1,247	4.0	947	3.1	6.0	33,465
20	Bergan Dairy LLC, Elkader, IA	XX	253	32,826	1,160	3.5	1,002	3.1	5.9	33,421
21	Turner Dairy LLC, Centuria, WI	HO	172	29,744	1,242	4.2	989	3.3	6.1	33,376
22	Derek Brimeyer, Sherrill, IA	HO	166	31,573	1,205	3.8	973	3.1	6.0	33,373
23	McAllister Family Dairy LLC, New Vienna, IA	HO	252	30,835	1,208	3.9	989	3.2	6.0	33,293
24	Marty Bahl, Dubuque, IA	HO	206	29,256	1,258	4.3	963	3.3	6.1	33,225
25	Charles & Christopher Weber, Elmwood, WI	HO	181	28,002	1,282	4.6	957	3.4	6.1	33,080
26	* Wesselcrest, Greeley, IA	HO	282	28,424	1,264	4.4	966	3.4	6.1	33,053
27	Silvershea Holsteins LLC, Omro, WI	HO	188	30,997	1,200	3.9	953	3.1	5.9	32,966
28	Furseth Farms Inc., Stoughton, WI	HO	192	30,004	1,223	4.1	951	3.2	6.0	32,924
29	Golden Corners Dairy, Oconto Falls, WI	HO	284	29,757	1,229	4.1	951	3.2	6.0	32,921
30	Dominic & Jamie Mastey, Bonduel, WI	HO	160	31,219	1,195	3.8	932	3.0	5.8	32,814

300 - 499 Cows

1	* Koester Dairy Inc., Dakota, IL	HO	412	36,429	1,578	4.3	1,154	3.2	7.5	41,175
2	* Kellercrest Reg Hol Inc., Mount Horeb, WI	HO	334	33,750	1,506	4.5	1,115	3.3	7.2	39,069
3	* Zoromski Family Farms LLC, Custer, WI	HO	469	33,838	1,491	4.4	1,111	3.3	7.1	38,873
4	* Whitetail Valley Dairy LLC, Waupaca, WI	HO	327	34,312	1,332	3.9	1,072	3.1	6.6	36,670
5	* Crandall Farms LLC, Battle Creek, MI	HO	355	32,160	1,372	4.3	1,047	3.3	6.6	36,293
6	* Newell Farms, Trufant, MI	HO	473	33,328	1,322	4.0	1,075	3.2	6.6	36,242
7	* Weishaar Family Farm, Westfield, WI	HO	353	33,286	1,353	4.1	1,023	3.1	6.5	36,232
8	Devon & Doreen Zimmerman, Claypool, IN	HO	332	31,869	1,319	4.1	1,051	3.3	6.5	35,542
9	* Scott & Dawn Seward, Pine River, WI	HO	455	32,711	1,313	4.0	1,010	3.1	6.4	35,426
10	Gav-N-View Farm, Lansing, IA	HO	477	30,071	1,392	4.6	963	3.2	6.5	35,227
11	Stuart Farms, Lowell, MI	HO	433	30,693	1,325	4.3	1,007	3.3	6.4	34,899
12	* Ed Walter Farm Inc., Oshkosh, WI	HO	318	31,344	1,310	4.2	998	3.2	6.3	34,849
13	* Ronald & Nancy Felten, St. Cloud, WI	HO	470	31,050	1,306	4.2	1,014	3.3	6.4	34,823
14	Darren Rusch, Pound, WI	HO	407	30,749	1,328	4.3	975	3.2	6.3	34,711
15	* Enyart Farms LLC, Postville, IA	HO	314	32,116	1,281	4.0	980	3.1	6.2	34,588
16	Craig Hedrich, Brillion, WI	HO	439	31,343	1,283	4.1	990	3.2	6.2	34,438
17	* Curt Kohls, Gillett, WI	HO	496	30,301	1,305	4.3	976	3.2	6.2	34,275
18	* Jeremy Seiler, Carson City, MI	HO	379	32,588	1,222	3.7	1,018	3.1	6.1	34,269
19	* Nichols Hill Dairy, Krakow, WI	HO	352	31,101	1,240	4.0	1,003	3.2	6.1	33,901
20	* Granitehill Dairy, Mosinee, WI	HO	389	30,228	1,273	4.2	983	3.3	6.2	33,890
21	Hulstein Brothers Dairy, Hull, IA	HO	316	30,522	1,236	4.0	1,023	3.4	6.2	33,813
22	* Olson's Best Dairy LLC, Shiocton, WI	HO	320	31,332	1,231	3.9	984	3.1	6.1	33,715
23	Jeff Lambrecht, Kewaunee, WI	HO	351	28,548	1,348	4.7	903	3.2	6.2	33,700
24	* Pasch MBM, Weidman, MI	HO	370	32,469	1,187	3.7	999	3.1	6.0	33,631
25	* Neal Burken, Galesville, WI	HO	459	31,066	1,223	3.9	955	3.1	6.0	33,302
26	* Ryan Litwiller, Middleton, MI	HO	317	32,240	1,152	3.6	1,015	3.1	5.9	33,226
27	Glendale Farms, Clintonville, WI	HO	301	29,952	1,228	4.1	978	3.3	6.0	33,179
28	Hendel Farms, Caledonia, MN	HO	379	28,384	1,277	4.5	944	3.3	6.1	33,040
29	Royal Vista Holsteins LLC, Pickett, WI	HO	371	29,987	1,218	4.1	957	3.2	6.0	32,900
30	* Stutzman Family Farms LLC, Conrath, WI	HO	365	30,380	1,226	4.0	913	3.0	5.9	32,795

500 - 999 Cows

1	* Lew-Max LLC, Belding, MI	HO	690	34,119	1,568	4.6	1,074	3.1	7.2	39,679
2	* Sand Creek Dairy LLC, Hastings, MI	HO	962	35,658	1,434	4.0	1,153	3.2	7.1	39,051
3	* Blaser Farms Inc., Gillett, WI	HO	605	34,486	1,421	4.1	1,093	3.2	6.9	38,040
4	* Feltz Family Farm, Stevens Point, WI	HO	791	34,445	1,376	4.0	1,101	3.2	6.8	37,505
5	* First Farms, Ionia, MI	HO	568	33,658	1,388	4.1	1,043	3.1	6.7	36,960
6	* Top-Deck Farms, Westgate, IA	HO	719	32,224	1,431	4.4	1,010	3.1	6.7	36,795
7	* Gibbs Family Dairy, Waterville, IA	HO	592	31,978	1,429	4.5	1,004	3.1	6.7	36,643
8	* Harry & Gary Sanborn, Hubbardston, MI	HO	700	33,363	1,353	4.1	1,038	3.1	6.6	36,372
9	* Heimans Holsteins LLC, Marshfield, WI	HO	535	32,008	1,372	4.3	1,038	3.2	6.6	36,175
10	Srnka Farms LLC, Algoma, WI	HO	501	33,612	1,323	3.9	1,016	3.0	6.4	35,896
11	* Sugar Creek Dairy, Elkhorn, WI	HO	637	32,673	1,305	4.0	1,057	3.2	6.5	35,670
12	* Tony Rosebrugh, West Branch, MI	XX	788	32,871	1,310	4.0	1,014	3.1	6.4	35,470



TOP HERDS BY SIZE AND ECM

3X	Herd	Breed	Size	Milk	Fat	F%	Prot.	P%	CFP	ECM
13	* Banner Ridge Farms LLC, Platteville, WI	HO	551	32,407	1,307	4.0	1,030	3.2	6.4	35,402
14	Mark Lensing, Calmar, IA	HO	939	31,420	1,336	4.3	1,001	3.2	6.4	35,233
15	* W-R-L Daniels Farm, Whittemore, MI	HO	671	29,734	1,403	4.7	956	3.2	6.5	35,205
16	* Mike Zagata, Sebawaing, MI	HO	709	31,395	1,352	4.3	969	3.1	6.4	35,187
17	* Katie & Jeff Falk, Monroe, WI	HO	603	31,927	1,321	4.1	962	3.0	6.3	34,906
18	* Buning Dairy LLC, Falmouth, MI	HO	710	32,791	1,253	3.8	1,025	3.1	6.2	34,790
19	* Rahm Dairy LLC, Colby, WI	HO	990	31,046	1,312	4.2	961	3.1	6.2	34,494
20	* Egan Bros & Trevor Crain, New London, WI	HO	954	31,463	1,281	4.1	994	3.2	6.2	34,481
21	* Oesch Swisslane, Alto, MI	HO	516	31,491	1,264	4.0	1,019	3.2	6.3	34,462
22	* Car Mer Farm, Galena, IL	HO	565	32,005	1,250	3.9	1,020	3.2	6.2	34,456
23	* S & B Dairy Farm, Sigel, IL	HO	667	32,755	1,238	3.8	1,007	3.1	6.2	34,447
24	* Joseph & Susan Rieden, Mount Calvary, WI	XX	675	31,424	1,255	4.0	1,025	3.3	6.2	34,369
25	Tim Greer, West Branch, MI	HO	633	29,946	1,371	4.6	889	3.0	6.2	34,348
26	* Pickart Dairy LLC, Malone, WI	HO	810	31,879	1,276	4.0	958	3.0	6.1	34,277
27	Tim & Carla Kane, Denmark, WI	HO	885	32,898	1,209	3.7	1,021	3.1	6.1	34,225
28	* Grass Ridge Farm LLC, Pittsville, WI	HO	591	30,619	1,271	4.2	1,013	3.3	6.3	34,221
29	* Maly Farms, Bryant, WI	HO	511	32,355	1,231	3.8	987	3.1	6.1	34,072
30	* Kevin & Diane Skinner, Junction City, WI	HO	557	31,404	1,245	4.0	980	3.1	6.1	33,889
1,000+ Cows										
1	* Horsens Homestead Farms, Cecil, WI	HO	1,451	34,785	1,483	4.3	1,148	3.3	7.2	39,362
2	* Shiloh Dairy, Greenleaf, WI	HO	2,665	32,733	1,468	4.5	1,056	3.2	6.9	37,793
3	* Nobis Dairy Farms, St Johns, MI	HO	1,004	35,275	1,382	3.9	1,064	3.0	6.7	37,571
4	* Abel Dairy Farms, Fond Du Lac, WI	HO	4,247	32,207	1,459	4.5	1,018	3.2	6.8	37,213
5	* Fischer & Clark Dairy, Hatley, WI	XX	1,014	32,301	1,390	4.3	1,051	3.3	6.7	36,603
6	* Fred & Pat Beer, Milford, IN	HO	1,055	32,678	1,382	4.2	1,028	3.1	6.6	36,447
7	* Lucky 7 Dairy, McBain, MI	HO	2,008	34,656	1,295	3.7	1,071	3.1	6.5	36,296
8	* Wayside Dairy, Greenleaf, WI	HO	2,571	31,389	1,398	4.5	995	3.2	6.6	35,980
9	* Five Star Dairy, Elk Mound, WI	HO	1,080	31,027	1,399	4.5	987	3.2	6.5	35,813
10	* Quantum Dairy LLC, Weyauwega, WI	HO	3,547	30,639	1,393	4.5	974	3.2	6.5	35,509
11	* George Kasbergen, Mansfield, IL	HO	3,707	33,703	1,281	3.8	1,017	3.0	6.3	35,390
12	Kevin Solum, Deer Park, WI	HO	1,347	30,463	1,355	4.4	1,029	3.4	6.5	35,381
13	* J-Max, LLC, Fremont, MI	HO	1,634	32,469	1,296	4.0	990	3.0	6.3	34,974
14	* Dairy Dreams, Casco, WI	XX	4,529	29,131	1,381	4.7	982	3.4	6.5	34,922
15	* Spring Breeze Dairy, Bryant, WI	HO	4,446	32,722	1,262	3.9	1,028	3.1	6.3	34,907
16	* Yonkman Dairy, McBain, MI	HO	1,885	31,481	1,312	4.2	952	3.0	6.2	34,567
17	* Foresight Farms, LLC, Decorah, IA	HO	1,128	31,794	1,256	4.0	1,030	3.2	6.3	34,541
18	* Seidls Mtn View Dairy, Luxemburg, WI	HO	1,149	32,821	1,243	3.8	1,000	3.0	6.1	34,479
19	* Pagels Ponderosa, Kewaunee, WI	XX	6,802	27,852	1,389	5.0	957	3.4	6.4	34,416
20	* Heller Farm Inc., Alma Center, WI	HO	1,252	31,668	1,219	3.8	1,008	3.2	6.1	33,853
21	Schuh View Dairy LLC, Kaukauna, WI	HO	1,372	28,277	1,404	5.0	830	2.9	6.1	33,778
22	Rolling Hills Dairy LLC, Luxemburg, WI	HO	1,813	30,756	1,260	4.1	964	3.1	6.1	33,749
23	* Many Blessings Dairy Inc., McBain, MI	HO	1,906	31,582	1,224	3.9	987	3.1	6.1	33,729
24	* Oesch Swisslane, Alto, MI	HO	1,571	29,436	1,292	4.4	960	3.3	6.2	33,701
25	* Pine Breeze Dairy LLC, Pine River, WI	HO	3,256	29,871	1,281	4.3	944	3.2	6.1	33,578
26	* Rosy-Lane Holsteins LLC, Watertown, WI	HO	1,757	29,077	1,285	4.4	950	3.3	6.1	33,416
27	* Terry Vanmaanen, Rock Valley, IA	HO	1,843	31,112	1,206	3.9	988	3.2	6.0	33,350
28	* Country Aire Farms, Greenleaf, WI	HO	3,429	30,615	1,236	4.0	954	3.1	6.0	33,315
29	El-Na Farms LLC, Algoma, WI	HO	2,295	31,118	1,223	3.9	953	3.1	6.0	33,304
30	* Hillside Dairy, Rockvalley, IA	HO	3,007	30,558	1,209	4.0	986	3.2	6.0	33,192

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CFP



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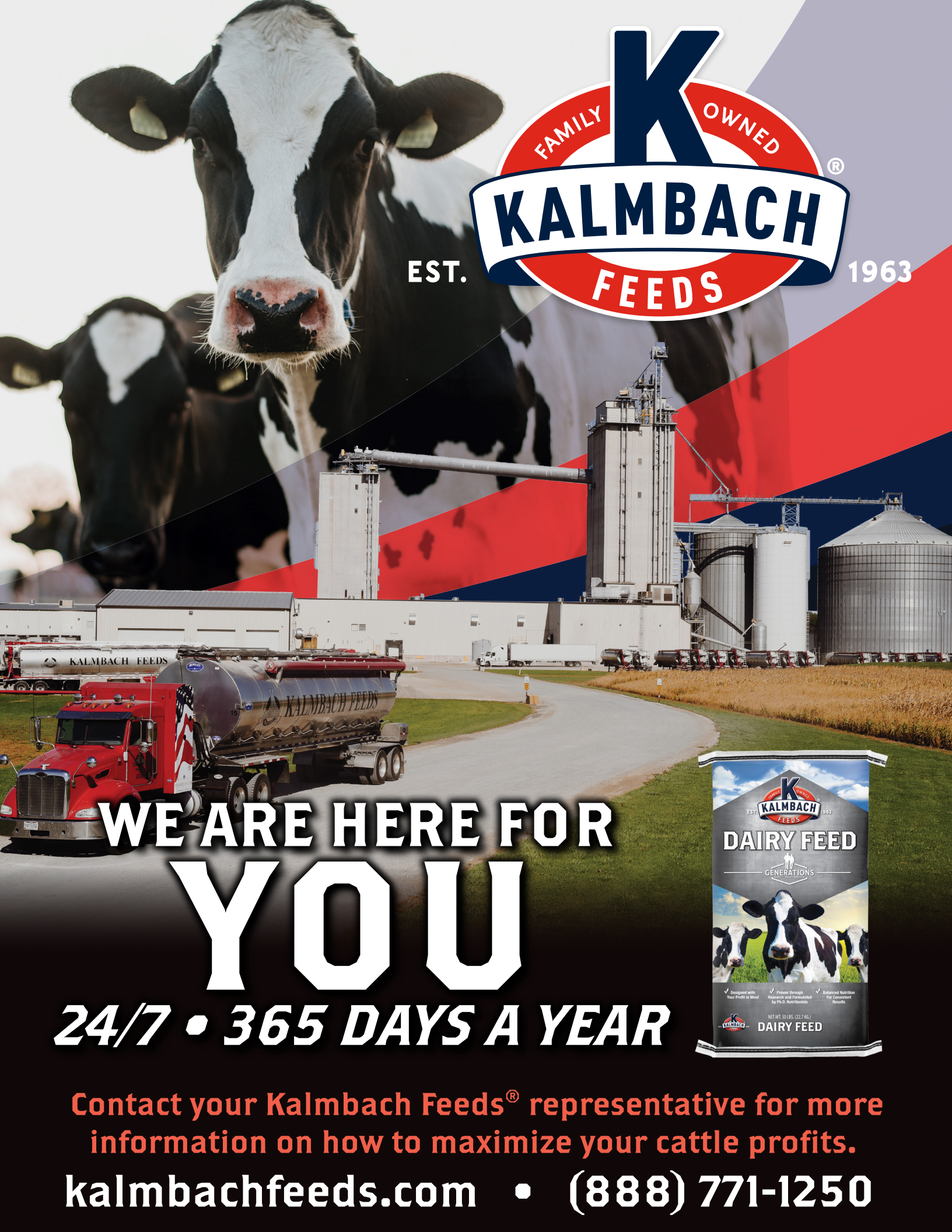
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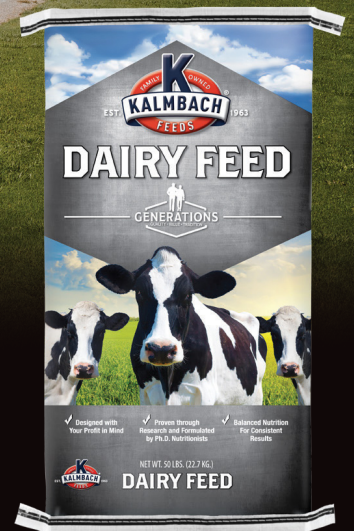


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Calf Direct-Fed Microbials

CONVERT™ Gel

Contains beneficial bacteria and egg-based specialized proteins which assists in the reduction of scour-causing organisms by altering their growth environment. Antibiotic-free. Use at birth or when calves are lethargic, not eating or doing poorly.

AC9057 - Single Dose 15cc

AC9006 - Multi Dose 60cc



\$7.50

\$18.00

CONVERT™ Bolus

Same properties as CONVERT Gel, concentrated in a bolus form. Administer 1 bolus at birth or during times of increased challenge.

AC9041 - Day One Calf Bolus 40ct

AC11007 - Day One Calf Bolus 10ct

AC11009 - Calving Season Bolus 10ct



\$190.00

\$53.00

\$33.00

CONVERT™ BIG Calf Powder

Assists calves from birth through weaning while consuming milk or milk replacer. Beneficial bacteria and egg-based specialized proteins improve nutrient absorption, restrict pathogen growth, enhance immune function and stimulates starter-feed intake. Mix 5g with colostrum or milk for same benefits as 15ml of CONVERT Gel.

AC9058 - 12.5lb pail

AC9059 - 2.2lb jar



\$560.00

\$124.00

Tri-Mic WD

A probiotic source to improve digestive microflora. Promotes the early establishment of beneficial digestive bacteria necessary for proper digestion of milk and grain diets. Aids in rumen development when transitioning to a dry feed diet. Reduces the occurrence and severity of scours and helps re-establish digestive bacteria following antibiotic treatment, illness or environmental stress.

A0048 - 500gram

A0049 - 5kg



\$23.50

\$189.50

Tri-Start Jr.+ Paste

Helps stimulate feed intake during periods of change. Contains live, viable, naturally occurring microorganisms, a short-chain fatty acid, egg protein (IgY), vitamins and selenium. Enhances the environment of the digestive tract which activates the naturally occurring beneficial digestive microbes.

A0622 - Single Dose 15cc

A0623 - Multi Dose 60cc

A0651 - Multi Dose 300 cc

A0551 - 300 cc Paste Tube Applicator



\$7.75

\$78.00

\$19.00

\$31.00

Tri-Start Jr. - Maroon Bolus

A direct-fed microbial bolus that benefits both the rumen and intestinal tract of calves. Each capsule has a guaranteed viable (live) count of 20 billion colony forming units (CFU) of naturally occurring microorganisms. Helps to stimulate feed intake during periods of change. Contains beneficial microbes to jump-start a calf's stalled digestive system.

A0052 - 36ct



\$48.00

Select BioCycle Showcase Formula™

Concentrated form of BioCycle supplemented with increased enzyme levels and Bacillus, which is shown to improve calf growth. Contains two separate L-form bacteria that enhance the function and population of the microflora in the lower gut. Contains both yeast culture and live cell yeast that produce a range of metabolites including B-vitamins, broad-based enzyme package, specialized proteins, microbial sugars and potassium iodide.

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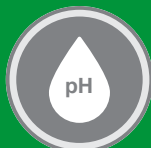
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disinfecting livestock
drinking water



POWERFUL

Kills a
wide-range
of pathogens



PH-NEUTRAL

Less-corrosive
and less-toxic
than alternatives

SCAN TO
LEARN
MORE





**SCOURING DAIRY CALVES
TREATED WITH ANTIBIOTICS
GAVE 1,086 LBS.
LESS MILK
DURING THEIR FIRST LACTATION.***



**CALF
SCOURS
PROTOCOL**



**CALF
DEVELOPMENT
PROTOCOL**

Which supplement is right for your calves?

When a calf is born there is an immediate and constant barrage of environmental challenges trying to “destroy” your newest and most promising genetic investment. How much support do your calves need? Below are solutions to address the light (●), moderate (●), and heavy (●) challenges your calves face.

	AT BIRTH	IMMUNE SUPPORT	APPETITE ENHANCER	DEHYDRATION	TRANSITION	SCOURS	STRESS (VACCINATION, DEHORNING, TRANSPORT, ETC)	BEEF	SHOW ANIMALS
CONVERT Day One Calf Gel	●	●	●	●	●	●	●	●	●
CONVERT Day One Calf Bolus	●	●	●	●	●	●	●	●	●
CONVERT Calving Season Bolus	●	●	●	●	●	●	●	●	●
CONVERT BIG Calf	●	●	●	●	●	●	●	●	●
BioCycle Showcase		●	●		●		●		●
AccelAIRate		●	●			●	●	●	
Accel Energy (cold weather support)		●					●		
Accel RS		●	●	●		●			
Calf Accelyte			●	●		●	●		●
First 21		●				●	●		
First Day Formula Colostrum Replacer	●	●	●						
First Day Formula Colostrum Replacer Deluxe	●	●	●						
First Day Formula Colostrum Supplement	●	●	●						
Tri-Mic WD			●		●	●	●	●	●
Tri-Purify						●			
Tri-Start Jr		●	●	●	●	●	●	●	●
Tri-Start Jr Plus	●	●	●	●	●	●	●	●	●

*Dairy Calf Management Practices Impact Future Production, University of Kentucky, Donna M. Amaral-Phillips.

Supplements

First 21™

Bridge the immunity gap during the first three weeks of life. Available as a complete milk replacer or nutritional supplement. Incorporates three natural sources of antibodies (plasma, egg yolk, and colostrum) to promote gut health and immune support.

A0080 - Complete Milk Replacer 50lb

A0083 - Supplement 20lb



\$84.00

\$221.50

Tri-Purify - Blue Bolus

Dietary feed supplement that provides pure, natural essential oils that have a strong antibacterial effect to improve the natural immune system. Combines live, naturally occurring microorganisms to enhance the environment of the digestive tract. Tri-Purify also contains nutraceuticals, intestinal bacteria and live cell yeast; all of which can attribute to a reduction in the severity and occurrence of scours.



A0051 - 36ct

\$89.50

Accel Whole Milk Protein Pivot

A pasteurized whole milk (PWM) balancer to be added to PWM and fed to pre-weaned calves. Protein Pivot allows for optimizing PWM by increasing the solids percent to achieve dry matter intake target goals, shifts the protein:fat ratio in favor of optimal performance to meet heifer development goals, and extends supply to meet daily calf feeding needs. Contains 28% protein; 8% fat.

A0064 - 50lb



\$61.10

Accel Energy

An energy supplement containing 60% fat and 7% protein with added vitamins and minerals. Add to milk replacer or whole milk during cold weather stress. Provides readily utilizable energy via spray-dried animal fat to increase the calorie content in a calf's diet.

A0035 - 25lb



\$56.00

First Day Formula®

Colostrum replacer or supplement for newborn calves. Fortified with essential vitamins and chelated trace minerals. High-quality-whey-protein concentrate from select Grade A dairies, free of organisms causing colostrum-transmissible diseases, like Johne's disease. Each dose contains 150 IgG. CR Deluxe includes First Defense Technology™.



A0043 - CR (replacer or supplement) 500gram

\$39.25

A0044 - CR (replacer or supplement) 20lb

\$655.00

A0045 - CR Deluxe (replacer) 500gram

\$46.25

A0046 - CR Deluxe (replacer) 20lb

\$780.00

A0047 - CS (supplement) 200gram

\$16.95

Misco Digital Refractometer

Test colostrum to determine quality and IgG scale. Measures colostrum quality and serum total protein. A0668 also measures milk-solids percent or hydration.



A0667 - Measures colostrum quality or serum total protein

\$535.00

A0668 - A0667 plus measures milk solids %, or hydration

\$630.00

Milk Replacers

Stocked Milk Replacer

Unique manufacturing technology results in a 100% instantized product. Powder combines with minimal mixing. Mos* is included in each formulation at research levels to promote gut and intestinal health. Chelated (organic) trace minerals are used to support growth and immune function. Tri-Mic WD in all formulas, optimizes feed intakes and utilization, digestive health, and immune system response. Bovatec® is available for control of coccidiosis.

Milk replacers available only in Wisconsin. Call for pricing.

*Mos increases appetite, normalizes gut microflora, and reinforces the digestive tract.

Code	Description	Protein Source	% Protein	% Fat	Guaranteed Analysis			Chelated	Medication
					IU/lb Vit A	IU/lb Vit D ₃	IU/lb Vit E	Mineral/Selenium	
A0061	APL Calf Accelerator*	APL	26	20	30,000	5,000	200	YES	Bovatec®-43 grams/ton
A0069	Performance Plus	All-Milk	20	20	30,000	10,000	150	YES	NO
A0070	Performance Plus	All-Milk	20	20	30,000	10,000	150	YES	Bovatec®-90 grams/ton
A0071	Performance Plus*	All-Milk	20	20	30,000	10,000	150	YES	Bovatec®-90 grams/ton
A0074	Hi-Performance Plus	All-Milk	22	20	30,000	10,000	200	YES	NO
A0075	Hi-Performance Plus	All-Milk	22	20	30,000	10,000	200	YES	Bovatec®-90 grams/ton
A0076	Hi-Performance Plus*	All-Milk	22	20	30,000	10,000	200	YES	Bovatec®-90 grams/ton
A0078	Calf Accelerator	APL	26	20	30,000	5,000	200	YES	Bovatec®-43 grams/ton
A0079	28-26 Jersey	All-Milk	28	26	20,000	2,500	100	YES	Bovatec®-72 grams/ton

*Formulated with Clarify® seasonally and may require volume purchase.



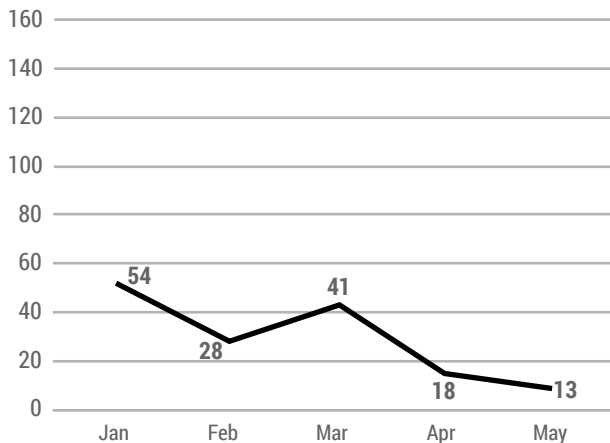
How it worked

At a commercial dairy farm in South Dakota, 3,100 Jersey and Crossbred heifer and bull calves were fed AccelAIRate in a complete pellet from birth to 90 days and 121 to 200 days of age. This on-farm demonstration evaluated the effects of AccelAIRate on pneumonia treatments and average daily gain at a half dose based on animal body weight for an extended period. Body weights and pneumonia treatment data were collected and analyzed on different groups of calves from August 2022 through May 2023.

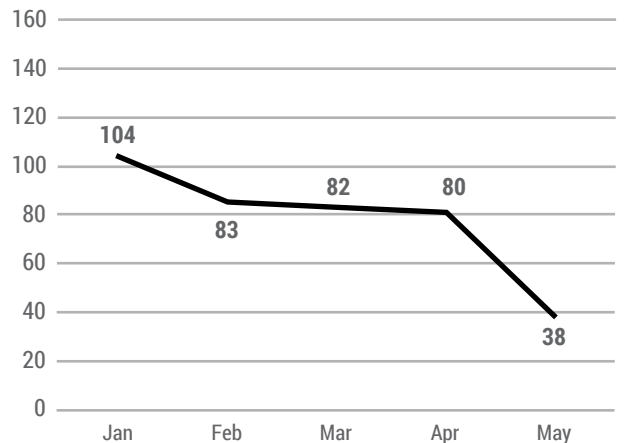
The results

Supplementing AccelAIRate at half dose for an extended period reduced the use of antibiotics by 72.6% and cut pneumonia treatment by 83% on-farm. At the same time it improved average daily gain by an additional .28 - .55lb depending on the calf's age.

Pneumonia Treatments
Calves 1 - 90 days | January '23 - May '23



Pneumonia Treatments
Calves 91 - 200 days | January '23 - May '23



AccelAIRate is formulated to preserve respiratory health, alleviate symptoms of respiratory disease, and support the recovery process. Bioactive compounds help stimulate appetite and drive feed intake. All-natural, no VFD or prescription required. Mix in milk, milk replacer, water, and dry calf feed.

Learn more: <https://centralstar.info/accelairate>



Electrolytes

Calf Accellyte

A complete electrolyte treatment for calves experiencing scours or dehydration. Contains potassium and sodium to replenish electrolytes and restore proper fluid balance. Blended with glycine and citrate to improve electrolyte and water absorption. Added dextrose provides nutritional energy and buffers to help minimize metabolic acidosis. Easily mixes with water.

- A0053 - 3.6lb**
- A0054 - 10lb**
- A0055 - 25lb**



\$31.00
\$75.00
\$165.00

Accel RS

A recovery solution aiding in hydration and digestive health for calves. Contains Tri-Mic WD as a source of live, viable, naturally occurring microorganisms. Accel RS works to restore, re-energize, recolonize, and rehydrate calves.

- A0596 - Single Dose 4oz**
- A0599 - 6lb**
- A0597 - 25lb**



\$3.75
\$64.50
\$164.00

AccelAIRate

Alleviates symptoms of respiratory disease and supports recovery from respiratory distress. Helps reduce irritation of the throat and suppress coughing, stimulates appetite, and drives feed intake. Contains Mannon-Oligosaccharides (MOS), Beta-Glucans and Nucleotides to protect against secondary pathogens.

- A0040 - 4.4lb**
- A0041 - 22lb**



\$74.00
\$298.00

Calf Coats

Woolover

Original Woolover is a high-performance blanket that keeps animals warm and dry, allowing nutrients to be used for growth. Made of 70% wool and 30% polyester. Limited supply.



- UM3602 - w/o Buckle Small** *Special ends 3/31/24 ~~\$42.00~~ **\$24.00**
- UM3605 - w/o Buckle Medium** *Special ends 3/31/24 ~~\$42.00~~ **\$24.00**
- UM3603 - w/o Buckle Large** *Special ends 3/31/24 ~~\$42.00~~ **\$24.00**
- UM3683 - w/ Buckle Medium** **\$44.00**
- UM3684 - w/ Buckle Large** **\$44.00**
- UM3667 - Ultra w/o Buckle Small** **\$45.00**
- UM3668 - Ultra w/o Buckle Medium** **\$45.00**
- UM3669 - Ultra w/o Buckle Large** **\$45.00**
- UM3686 - Ultra Lite w/ Buckle Medium** **\$48.00**

AccelCoat

Provides additional protection to calves during cold weather. Made with our exclusive insulation which wicks moisture away from the calf and provides superior thermal capabilities. The outer shell is made of high-strength polyester with a urethane back, making it water resistant. Machine washable and durable against the harshest conditions. A smooth, quilted liner provides warmth and comfort for the calf. Small fits Jersey calves and large fits Holstein calves. Embroidered with the Select Sires Logo.



- A0605 - Single Insulated Small** **\$39.00**
- A0606 - Single Insulated Large** **\$39.00**

"I SEE MUCH HEALTHIER CALVES."

CONVERT BIG Calf Powder

Beneficial bacteria and egg-based specialized proteins improve nutrient absorption, restrict pathogen growth, enhance immune function, and stimulate starter-feed intake. Feed from birth through weaning in milk or milk replacer.



"I used this product on my own calves and first noticed I had zero scouring calves, no matter how hard I pushed them on milk. Treatment for sickness was significantly cut down, and I had much healthier calves."

Producers I work with who use BIG Calf say their calves gain way more weight in a much shorter time. This means they started to wean calves up to a week to 10 days earlier than before. Also, they noticed the calves seem to have a much stronger immune system due to much less sickness and pneumonia. Previously, they used multiple products in the milk for calves. They've since dropped the others, only use BIG Calf, and are seeing far better results for much less money."

Brian Landis, CentralStar A.I. Specialist



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Calf Housing

Calf-Tel® "O" Series (Outdoor)

Hutches designed specifically for outdoor use. No matter the size or scope of your operation, Calf-Tel products can help improve labor efficiency, calf health, and overall profitability.

A0625 - Deluxe II Left Opening 24|74 **\$375.00**

A0626 - Deluxe II Right Opening 24|74 **\$375.00**

16% more interior space than competitive models and one-of-a-kind customizable ventilation. All plastic extrusion base makes hutches virtually impervious to destruction.

Deluxe hutch parts box includes: feed door, double inside pail holder, two black pails and fence attachment hardware.

L-rod sold separately.

A0372 - XXL Left Opening 35|85 **\$407.00**

A0373 - XXL Right Opening 35|85 **\$407.00**



A0625 - Deluxe II



A0372 - XXL

Calf-Tel® "I" Series (Indoor)

Easy to configure indoor calf pens to make the most of your space and time. Ultra-durable with a wide range of available accessories. Effective and economical solution for raising calves indoors.

A0376 - Calf Pen Back Airmax **\$95.00**

A0377 - Calf Pen Back Vented **\$90.00**

A0380 - Calf Pen Front Generation 3 **\$195.00**

A0382 - Calf Pen Side 4.5' & 2 rods **\$105.00**

A0383 - Calf Pen Side 6' & 2 rods **\$140.00**

A0384 - Calf Pen Side 7' & 2 rods **\$150.00**



A0376 - Calf Pen Back Airmax



A0377 - Calf Pen Back Vented



Complete Pen System

Calf-Tel® Group Housing

Weaned calves placed in large groups can face growth and health setbacks. Placing 4-5 similarly sized weaned calves in group housing is the best way to ease the transition.

A0375 - MultiMax 54|98 **\$865.00**



Calf-Tel® Accessories

Broad range of accessories designed for ease-of-use, operational efficiency and years of reliable performance.

A0417 - L-Rod Pen **\$7.00**

A0433 - L-Rod Hutch **\$4.50**

A0393 - Bottle Holder Hutch mounted 2qt **\$15.00**

A0394 - Bottle Holder Hutch mounted 3qt wide **\$22.00**

A0395 - Bottle Holder Hutch mounted 3qt & 4qt **\$16.00**

A0398 - Bottle Holder Pen mounted 2qt **\$12.75**

A0399 - Bottle Holder Pen mounted 3qt & 4qt **\$9.50**

A0590 - Bottle Chute Fence mounted 2qt **\$15.75**

A0628 - Bottle Chute Pen mounted 2qt **\$8.50**

A0400 - Bottle/Nipple Set 2qt **\$8.00**

A0401 - Bottle/Nipple Set 3qt **\$10.25**

A0402 - Bottle/Nipple Set 4qt **\$11.50**

A0407 - Calf Nipple Super **\$3.50**

A0409 - Calf Pail Black **\$5.25**

A0410 - Calf Pail White **\$5.50**

A0598 - Calf Pail Fence Mounted Black **\$10.50**

A0600 - Calf Pail Fence Mounted Gray **\$10.50**

A0437 - Pail Holder Fence Mounted Double **\$12.75**

A0438 - Pail Holder Fence Mounted Single **\$8.25**



A0417 - L-Rod



A0590 - Bottle Chute



A0409 - Calf Pail



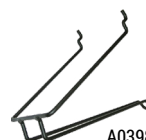
A0393 - Hutch Bottle Holder



A0402 - Bottle



A0407 - Bottle Nipple



A0398 - Bottle Holder



A0598 - Hutch Mount Pail



COW PRODUCTS

Direct-Fed Microbials

Select DTX™

Research-tested and field-proven effective for protecting cattle against mycotoxin challenges. Proprietary cell wall-deficient bacteria provide broad-range protection against mycotoxins. Use when symptoms are present and feed tests show problems. Available in concentrate for easy mixing at feed mills.

AC9004 - 50lb	\$292.00
- 10 to 35 boxes	\$277.00
- 36+ boxes	\$267.00
AC9009 - Concentrate 50lb	\$364.00
- 40+ bags	\$270.00



Select BioCycle Plus™

Producers feeding BioCycle Plus report reduced SCC, improved reproductive performance, increased digestive capacity and improved general health. Use when metabolic diseases and toxin challenges are present. Available in concentrate for easy mixing at feed mills.

AC9005 - 50lb	\$386.00
- 10 to 35 boxes	\$371.00
- 36+ boxes	\$361.00
AC9027 - Concentrate 50lb	\$472.00
- 10 to 39 bags	\$467.00
- 40+ bags	\$417.00
AC9199 - Concentrate Non-GMO 50lb	\$490.00
- 40+ bags	\$430.00



Select BioCycle™

Aids in boosting immune function, digestion, and fights environmental challenges. Producers report increased estrus expression and improved feed intake. Contains two types of L-form Lactobacillus, two sources of yeast, four digestive enzymes, microbial sugars and specialized proteins. Recommended when performance improvements are needed in reproduction, and overall herd health. Not appropriate when mold-related challenges are the major problem.

AC9003 - 50lb	\$234.00
- 10 to 35 boxes	\$219.00
- 36+ boxes	\$209.00
AC9091 - Concentrate 50lb	\$438.00
- 20+ bags	\$373.00



Tri-Mic 1:50

Improve feed intake and feed utilization for maximum production and reproductive performance. Uses patented methods of stabilization and packaging to ensure live, viable and fast-acting microbes for maximum performance.

A0000 - 4lb	\$32.00
A0001 - 20lb	\$148.00



BioFresh® Microbial Bolus

Gets fresh cows on feed faster, reducing potential metabolic disorders and DAs. Proven effective in reducing SCC by boosting immune function of cows affected by environmental challenges. Supplies critical vitamins and minerals, beneficial bacteria, and egg-based specialized proteins.

AC11011 - 50ct	\$125.00
AC11012 - 400ct	\$860.00



BioFresh® Microbial Gel

Enhances feed intake, improves ruminal fermentation, and supports immune function for dairy and beef cattle of all ages at weaning, receiving, transporting, calving, off-feed or during low-intake periods. Supplies beneficial bacteria, egg-based specialized proteins and critical vitamins and minerals. 5ml for calves under 500lbs., 10ml for calves 500lbs. – adult cattle.

AC11020 - Tube 280cc	\$55.00
AC11022 - Gel Applicator Gun	\$46.00



Tri-Start Bolus

An encapsulated, highly concentrated source of rumen-specific microbes in bolus form. Each capsule has a guaranteed viable count of 100 billion CFU. Tri-Start enhances the rumen environment to improve digestive performance and repopulate rumen microflora after periods of stress. Contains lactic acid bacteria, live cell yeast and fungal extracts.

A0003 - 25ct	\$51.00
A0004 - 100ct	\$185.25



Accel MXL 600

Combats feed quality challenges and enhances liver function. MXL 600 is a combination of beneficial micronutrients designed to assist animal performance during periods of feed quality challenges. Use when toxins are present.

A0008 - 50lb	\$82.50
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MYSTERY SAVINGS!

Scan or visit: centralstar.info/mysterysavings
Check back regularly for **NEW** Mystery Savings!





MASTITIS MILK FEVER
 RETAINED PLACENTA
COMMON COSTLY CHALLENGES
 INFLUENCE COWS EVERY DAY
 MYCOTOXINS
 METRITIS KETOSIS



MYCOTOXIN RISK ASSESSEMENT



MYCOTOXINS BINDING EFFICIENCY COMPARISONS

Which supplement is right for your cows?

Healthy cows produce more high-quality milk, breed back easier, require less time and labor to manage, and live longer. How much support does your herd need? Below are solutions to address the light (●), moderate (●), and heavy (●) challenges your herd faces.

	FRESH COW SUPPORT	IMMUNE SYSTEM SUPPORT	MYCOTOXIN CHALLENGES	ERRATIC MANURE	KETOSIS SYMPTOMS	POOR FEED INTAKE	ABORTS, EARLY EMBRYONIC DEATH	LOW PRODUCTION	HIGH SCC	POOR REPRODUCTIVE PERFORMANCE	BEEF	SHOW ANIMAL STRESS
Accel Fortifier 1:50	●	●					●	●		●	●	
BioCycle	●	●		●		●		●	●	●	●	●
BioCycle Plus	●	●	●	●	●	●	●	●	●	●	●	
BioFresh Microbial Bolus	●	●				●		●	●		●	●
BioFresh Microbial Gel	●	●				●		●	●		●	●
BioFresh Showcase		●				●					●	●
Bovikalc	●	●										
Bovine Accellyte II	●					●		●			●	●
Ca3 BioFresh	●	●										
DTX		●	●	●	●	●	●	●		●	●	
Freshen Up	●	●									●	●
Tri-Mic 1:50	●	●		●		●		●		●	●	●
Tri-Start Bolus	●	●				●					●	●

Minerals

Mineral Premixes

Premixes are formulated to meet all the mineral and vitamin needs of your herd. Add to any ration or supplement protein-grain mix.

A0016 - ES-Green 1:1 Mineral 50lb

A0017 - ES-Yellow 2:1 Mineral 50lb

A0015 - Beef Gestation 50lb



\$59.00

\$55.00

\$39.50

Accel Fortifier 1:50

Add to beef and dairy cattle diets during periods when added nutrients are required, such as; calving, high production, breeding or during environmental challenges. A concentrated source of chelated and inorganic trace minerals and vitamins. Mix into premixes, minerals, supplements and total mixed rations (TMR).

A0019 - 25lb



\$58.50

Forage Inoculant

Accel Ensile+

Assists with expediting pH decline to stabilize feed, reducing dry-matter losses and improving digestibility and forage quality. Contains three enzymes which work together to aid in fiber break down and increase nutrient absorption. One of the most economical products on the market.

A0611 - 100W - Wet Applied 100gram

A0612 - 500W - Wet Applied 500gram

A0613 - 100D - Dry Applied 50lb

A0653 - ASB - Contains *L. buchneri* 500gram



\$86.50

\$382.00

\$99.50

\$440.00

Tri-Mic 1:50



"Tri-Mic 1:50 helps keep a cow's digestive system working efficiently so they eat and function normally. I've recommended Tri-Mic for years when producers share intakes are down, or they are battling winter dysentery. It has always performed as expected and I trust it!"

Bob Brock
CentralStar Area
Sales Manager



SCAN TO
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MORE!



"I TRUST IT!"

Fresh Cow Care

Ca3 BioFresh®

Unique calcium bolus contains very high levels of fast and slow availability calcium (45.5g) and vitamin D3 (50,000 I.E.) per bolus. Calcium sources have varying release rates to supply calcium evenly to cow. Does not contain caustic calcium chloride.

AC11040 - 48ct



\$326.40

Bovikalc®

Calcium supplement provides fast, extended support for blood calcium levels in freshening dairy cows. Bolus disintegrates quickly in the rumen. Calcium chloride is available immediately and calcium sulfate provides sustained release.

BV005 - 48ct



\$364.73

Bovine Accellyte II

Contains specialized electrolytes to replace those lost during stress, minerals needed to compensate for deficiencies from reduced feed intake, and vitamins necessary for life. Use as a drench, add directly into stock tanks or individual water feedings, or mix dry into feeds for group or herd application.

A0009 - 10lb

A0010 - 25lb



\$49.00

\$82.00

Freshen Up

Administer immediately after calving to reduce the incidence of milk fever, retained placenta and ketosis. Contains a proactive combination of multiple sources of calcium, electrolytes and energy. Use as a drench or offer free choice. Contains four different sources of calcium to give cows the boost they need right away, as well as a timed-release of calcium.

A0012 - 10lb

A0013 - 35lb



\$59.00

\$185.00

Cow-Side Tests

BHB Check Plus Blood Ketone Strips

A simple on-farm test for monitoring sub-clinical ketosis in cattle. For dry cows and cows in transition periods. Check cows within the first two weeks of freshening. Test strips have a 2-year shelf life at room temperature.

PC2 - 50ct



\$95.08

BHB Check Plus Meter

Can read both BHB (Beta-hydroxybutyrate, most prevalent blood ketone body detected in sub-clinical and clinical ketosis) and blood glucose. Delivers results in under 10 seconds. Product contains meter only, test strips sold separately.

PC4 - Meter only



\$31.00

BHB Milk Ketone Test Strips

A semi-quantitative milk dipstick test for the detection of sub-clinical ketosis in dairy cows. Simply strip milk right onto the test strip or dunk it in a vial of fresh milk, shake off excess milk, and compare the test strip to the color chart. Results available in 1 minute. Test strips have a 2-year shelf life at room temperature.

PC3 - 100ct



\$105.00

Teat Dips

UDDERgold® 5-Star

Barrier film, improves environmental mastitis protection. Controls a broad spectrum of bacteria including Mycoplasma species. Glycerin and emollient polymers help improve skin health.

- UM3661/UM3662 - Base & Activator Set 5gal **\$228.36**
- UM3724/UM3725 - Base & Activator Set 14.5gal **\$631.78**
- UM3665/UM3666 - Base & Activator Set 55gal **\$1,932.38**



4XLA®

Designed as a pre and post dip with excellent teat-conditioning power. 4XLA is the ideal dip if you want the killing power of UDDERgold 5-Star (15-20 seconds) but don't need the barrier. Proven effective against environmental and contagious organisms, including *Staph aureus*. Replenishes the cow's natural defenses for fighting mastitis. Very effective against hyperkeratosis.

- UM3617/UM3618 - Base & Activator Set 5gal **\$157.38**
- UM3723/UM3722 - Base & Activator Set 14.5gal **\$400.60**
- UM3621/UM3622 - Base & Activator Set 55gal **\$1,299.16**



AZTEC GOLD™

Increased mastitis protection. Offers long-lasting color marking, up to five hours. Thicker viscosity dip clings to teats longer, exposing them to the extended killing power.

- UM3678/UM3679 - Base & Activator Set 55gal **\$1,298.02**



EfferCept SG®

An alternative to Iodine that is cost effective at any milk price. This tablet contains all the great properties of EfferCept and SoftGuard in one tablet. Proven effective as a pre/post dip or spray. Kills 99.99% of *E. Coli*, *Staph aureus* and other mastitis-causing organisms on contact. Conditions, soothes and protects udder and teats. NPE free. Mix two tablets to one gallon of water.

- S291 - Makes 10 Gallons 20ct **\$54.30**
- S289 - Makes 55 Gallons 110ct **\$207.66**
- S288 - Makes 275 Gallons 550ct **\$843.00**



EfferCept®

Economical pre/post dip. Maximizes killing power while eliminating corrosive effects found in iodine-based products. Pill form mixes with water to be a spray or pre-dip wash. Mix four tablets to one gallon of water.

- S240 - Makes 12.5 Gallons 50ct **\$66.80**
- S242 - Makes 55 Gallons 220ct **\$234.00**
- S280 - Makes 385 Gallons 20lb **\$1,127.00**
- S290 - Makes 667 Gallons 1,000ct **\$1,229.10**



EfferCept® Foam Additive

Creates a foaming solution when added to EfferCept and EfferCept SG pre-/post-teat-dip. Mix ½ ounce to 1 gallon. Can adjust mixing rate of foam for a consistency that is suitable for your farm. Can be used in a teat dip cup or automatic foamer.

- S293 - 1gal **\$28.00**
- S294 - 55gal **\$975.00**



SELECT DTX™ Wins!

Research-Proven Mycotoxin Protection



Controlled, third-party research confirms 25 years of experience.

Feeding DTX to mycotoxin-challenged, lactating cows:

- ↑ **DAILY MILK PRODUCTION INCREASED**
2.5 lb/cow for the first 150 DIM
- ↑ **29.3% IMPROVEMENT**
Artificial insemination pregnancy rates from Control 36.5% to DTX 47.2%
- ↑ **15.6% IMPROVEMENT**
Embryo transfer pregnancy rates from Control 27.6% to DTX 31.9%
- ↑ **GREATER THAN 3.5:1 ROI**

agrariansolutions.com/select-dtx



Scan this QR code to see the DTX Research

Ask your CentralStar team about complimentary mycotoxin analysis and feed mill availability.

Select DTX™

INDEPENDENT RESEARCH

Supplementing Select DTX™ to early-lactation Holstein cows challenged by mycotoxins improves milk production and pregnancy rate.¹

¹Dairy Health and Management Services



How It Worked

The study was conducted as a randomized controlled trial from August 29, 2022, to May 28, 2023 at a 3,600-cow New York commercial dairy farm experienced in conducting commercial feed additive research. After entering the dry pen, cows were blocked by lactation group, expected calving date, and stratified by lactation, and then randomized to research groups with dietary treatments beginning at calving. Depending upon the research group assignment, upon freshening the cows entered either a control group (base ration without DTX; 463 cows) or a treatment group (base ration with DTX; 463 cows). Samples of each pen's TMR were obtained routinely throughout the study for mycotoxin analyses. The TMR contamination levels of DON and zearalenone (Zea) recorded throughout the study did not differ between the research groups.

Figure 1. Supplementing DTX to second- and greater-lactation Holstein cows when consuming mycotoxin-contaminated diet during the first 150 DIM increased daily milk production 2.5 lb/cow.

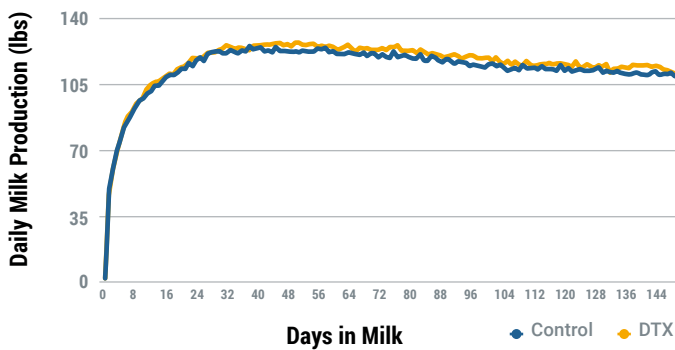


Figure 2. Supplementing DTX to lactating Holstein cows when consuming a mycotoxin-contaminated diet during the first 150 DIM increased the initial pregnancy rate at 28-34 days post-first service and tended to increase the final pregnancy rate at 61-67 days post-first service.

	Service Technique			
	Artificial Insemination		Embryo Transfer	
	Control	DTX	Control	DTX
Initial Pregnancy, % (No. preg/No. serviced)	45 (54/120)	52.0 (65/125)	34.6 (99/286)	42.0 (124/295)
Pregnancy loss, % (No. loss/No. preg)	18.5 (10/54)	9.2 (6/65)	20.2 (20/99)	24.2 (30/124)
Final pregnancy, % (No. preg/No. serviced)	36.7 (44/120)	47.2 (59/125)	27.6 (79/286)	31.9 (94/295)

The Results

Supplementing DTX to lactating Holstein cows when consuming a mycotoxin-contaminated diet during the first 150 days in milk (DIM) increased daily production, improved A.I. pregnancy rates, and improved embryo transfer pregnancy rates.

Learn More

<https://mycentralstar.com/product/select-dtx/>

SCAN FOR
MORE ON
DTX



RESEARCH
DETAILS





Udder Health

Milk Check Teat Wipes

One-step udder preparation wipes are durable, yet gentle. Contain lanolin and glycerin to keep skin soft, preventing teat chapping. Contains germicide to effectively kill bacteria and reduce cross-contamination.

UM3708 - Refill bag



\$33.12

Uddermint®

Approved Organic. Improves overall udder health by reducing udder edema. All-natural, antibiotic free, peppermint oil based liniment. Dairy producers report improvements in udder quality and pliability within 12 to 24 hours. For use after freshening, or apply to quarters on cows that show signs of mastitis.

UM3608 - White 500mL

UM3673 - Green 500mL

UM3670 - White 2.5L

UM3680 - Green 2.5L

UM3671 - Dispenser 2.5L



\$32.59

\$32.70

\$150.47

\$160.90

\$33.58

T-Hexx® Dry™

Protects dry cows against mastitis at dry off and pre-calving. Antiseptic formula sanitizes, and seals teat ends with a single dip. Proven barrier against mastitis causing organisms. Bright blue color makes it easy to see.

HEXXB132 - 1qt



\$78.12

Lockout™

A non-antibiotic intramammary teat sealant for use through the dry period to aid in the prevention of infections. Visible blue, smooth paste composed of 60% bismuth sub-nitrate forms a malleable barrier in the teat canal. Creates a sterile barrier against harmful bacteria between the udder and environment. Single-dose syringes with short tip designed for hygienic insertion.

UM3694 - 144ct pail



\$354.78

VetOne® BoviBlock™

Non-antibiotic teat sealant aids in preventing new intramammary infections. Off-white, smooth paste composed of 65% bismuth sub-nitrate to create a malleable barrier in the teat canal. Creates sterile blockage against harmful bacteria. Unique two-stage tip, allowing full or partial insertion into the teat orifice.

UM3702 - 144ct pail



\$325.36

Bovikal® Dry

An oral mineral supplement that helps maintain cow comfort by reducing milk production at dry off. Contains calcium sulfate and ammonium chloride and reduces milk production by inducing a slight and temporary metabolic acidosis.

BV057 - 48ct box



\$376.81

Sanitizer

EfferSan™ Sanitizer

An EPA registered, concentrated multi-purpose disinfectant and sanitizer that offers 100 times more killing power and effectiveness, while being safer than traditional bleach. Contains hydrochlorous acid, which penetrates cell walls and deactivates organisms primary energy-producing function. Dissolves in water.

Non-irritating. Use to wash down parlor and milking equipment, or as a biosecurity feature for washing in and out of the farm. COVID-19 is caused by SARS-CoV-2. EfferSan kills similar viruses and therefore can be used against SARS-CoV-2 when used in accordance with the directions for use against Norovirus (Feline Calicivirus as surrogate) (ATCC VR-782) on hard, non-porous surfaces. Refer to the CDC or OIE website for additional information.

S270 - 24ct

S271 - 100ct

S272 - spray bottle

\$24.58

\$77.00

\$6.67



Animal Assistance

Vink Cowlift

Helps save cows that can't stand. With proper use it will not cause bruising around the hipbone and is easily adjusted.

S255 - Complete Cowlift

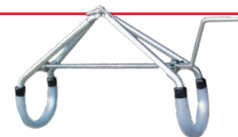
S278 - Handle replacement

S279 - Screw replacement

\$186.00

\$24.64

\$62.53



Vink Double Action Calf Puller

Makes difficult deliveries easy. Double action puller with unique rump frame encircles the rear of the cow making it impossible for the frame to slip away. Constructed of stainless steel to ensure long, trouble-free service.

S028 - Complete Calf Puller

S026 - Rope replacement

S029 - Mechanism replacement

S030 - Bar replacement

S031 - Yolk replacement

\$465.50

\$15.04

\$190.73

\$150.00

\$100.00



Cow Cuff Links

Fastens to a cows ankle with a positive lock buckle system - no velcro. Constructed of 6,000 pounds of tensile strength nylon webbing with stainless steel components. Therapeutic benefits, as well as anti-kicking protection.

AC9026 - Non-Adjustable

AC9047 - Adjustable

\$30.00

\$32.00



Flagger Leg Band

Easy to apply and remove. Can be reused. Available in red, yellow, and orange.

AC2804 - 10pk

\$15.30



DIAGNOSTIC TESTS AND SUPPLIES



Test Options

A1/A2 (beta-casein)

Use to identify the A1 and A2 beta-casein status of individual animals, providing insight for strategic breeding to develop A2 herd status. Results in 10 days of sample receipt.

ABT36 - PCR (Milk, Whole Blood, or Tissue) \$13.75

Bovine Leukosis (BLV)

Test individual cows with ELISA to identify infection and establish herd prevalence. Use PCR to identify most infected animals, "Super Shedders" which cause most risk to uninfected herd mates and youngstock. Results in 5-10 days of sample receipt.

ABT7 - Serum ELISA \$6.50

ABT8 - Milk ELISA \$6.50

ABT35 - AntelBio™ STRATA-G™ BLV PCR (whole blood) \$12.00

Bovine Neospora

Test individuals or groups of aborting and non-aborting cattle to associate *Neospora caninum* with abortions. Results in 5 days of sample receipt.

ABT24 - Serum ELISA \$6.50

ABT25 - Milk ELISA \$6.50

Bovine Viral Diarrhea (BVD)

Test ear notch or serum from calves to identify persistently infected (PI) animals. Test individual or pooled milk from cows to efficiently clear adult herd of PI suspicion. Pooling options to economically monitor infection and prevalence also available. Results in 5-10 days of sample receipt.

ABT11 - Milk ELISA \$6.50

ABT12 - Serum ELISA \$6.50

ABT14 - Tissue ELISA \$6.50

ABT38 - Individual PCR (Milk, Tissue, or Whole Blood) \$40.00

ABT22 - Pooled Tissue / Whole Blood PCR (Min. 10) \$3.70/sample

ABT44 - Pooled Milk PCR (Min. 20) \$2.50/sample

Johne's Disease

Determine individual animal infection in cattle, goats and sheep by milk, blood or fecal samples. Identify and monitor herd prevalence with pooled sample analysis. Results in 5-10 days of sample receipt.

ABT1 - Milk ELISA \$6.50

ABT2 - Blood ELISA \$6.50

ABT3 - Fecal PCR (Individual) \$40.00

ABT15 - Milk PCR (Individual or Bulk Tank) \$50.00

ABT43 - Pooled Fecal PCR (Min. 3) \$12.00/sample

Mastitis PCR

Use to identify mastitis pathogens in individual cows (high SCC, fresh cows, hospital pen, bulk tank, purchased cows) to determine management action. Test groups and bulk tank to monitor infection status. Effective on DHI or hand-stripped milk samples from treated, fresh or late lactation cows. No culturing required. Results in 2 days of sample receipt. Cost effective pooling strategies to monitor and manage herd status also available.

ABT23 Contagious 4 Mastitis PCR \$30.00

(M bovis, Strep ag., Staph aureus, Strep Uberis)

ABT32 - Complete 16 Mastitis PCR - Detects 90% of infections! \$40.00

(Staph aureus, Strep ag., Prototheca, Staph species, Strep dysgalactiae, Strep uberis, Klebsiella pneumoniae & oxytoca, E coli, M bovis, Corynebacterium bovis, Enterococcus faecalis & faecium, Serratia marcescens, Arcanobacterium pyogenes & Peptostreptococcus indolicus, Staph beta-lactamase gene, Mycoplasma species, and Yeast.)

ABT37 - Single Organism PCR (M bovis or Staph aureus) \$14.25

Pooling strategies available on all Mastitis PCR test types.

Pregnancy

Test milk or serum of cattle or goats as early as 28-days postbreeding to confirm pregnancy through pregnancy specific protein (PAG). Milk test can be ordered on routine DHI samples or submit samples direct. Results within 1 day of sample receipt.

ABT26 - Serum Pregnancy ELISA \$4.00

ABT27 - Milk Pregnancy ELISA \$4.75

Components

When not utilizing DHI test, submit individual milk samples to assist with management decisions. Results within 1 day of sample receipt.

Milk Urea Nitrogen (MUN) \$1.50

SCC/Components \$1.50

MUN/SCC/Components \$3.00

LOOKING TO BVD OR A2 TEST AND NEED THIS?

Ear Notcher (for BVD testing)

Small size V cut ear notcher is made of lightweight die-cast aluminum construction. Heat treated cutting plate for long life and clean cuts. Individually hand-fitted and tested for precision tolerance. Can be used to collect ear notch for BVD or A2 testing.

ID3207 - V SM 5/16 7000



\$31.00

CentralStar

800.631.3510 • www.mycentralstar.com

Testing Supplies, Kits & Shippers

\$10 minimum order for collection supplies, kits, and shippers. Mix and match to reach the minimum order.

Blood Sampling Supplies

Supplies can be stored for use at a later date. Includes blood tubes and needles. Red-top tubes required for serum tests: Pregnancy, Johne's disease, Leukosis, BVD, and Neospora. Purple-top tubes required for whole blood tests: A1/A2, and STRATA-G BLV PCR.



ABK7 - Blood Supplies

\$1.25

Milk Collection Supplies

Preservative does not expire and can be stored for use at a later date. Includes vial with milk preservative.



ABK6 - Milk Supplies

\$1.00

Fecal Collection Supplies

Includes vial and glove.



ABK8 - Fecal Supplies

\$1.00

Tissue Collection Supplies

Includes vials.



ABK9 - Tissue Supplies

\$1.00

Complete Small Sample Kits (up to 10 samples)

Holds up to 10 samples. Kit includes sample submission form, collection supplies, and prepaid shipping box addressed to laboratory.



ABK5 - Complete Small Sample Milk Kit

\$30.00

ABK5 - Complete Small Sample Milk Kit *expedited shipping

\$60.00

ABK13 - Complete Small Sample Blood Kit

\$35.00

ABK13 - Complete Small Sample Blood Kit *expedited shipping

\$65.00

Complete Large Sample Kits

Includes sample submission form, collection supplies and UPS-paid shipping box addressed to laboratory.

ABK11 - Complete Large Blood/Ear Notch Kit

\$95.00

(Holds up to 100 blood/tissue samples)

ABK12 - Complete Large Milk/Fecal Kit

\$95.00

(Holds up to 60 milk/fecal samples)

*For larger sample submissions call 800.631.3510.



HOW TO:

SUBMIT SAMPLES

- Submit samples direct to CentralStar laboratories or milk samples through routine DHI testing.

CentralStar Michigan Lab
1163 Comet Lane
Suite 100
Grand Ledge, MI 48837

CentralStar Wisconsin
Lab Complex
200 East Kelso Road
Kaukauna, WI 54130

- \$10 submission fee for diagnostic tests.

SAMPLE
SUBMISSION
FORM



GET TEST RESULTS

- Diagnostic test results available online, email or mail. Text results available for some tests.
- Component, SCC and MUN results reported by email or mail.
- Johne's Analysis DHI report 420 organizes test results, production, SCC and reproduction data for quick analysis to take management actions. Download results into DART (formerly PCDART).
- Download pregnancy test results into DART.

BUNDLE & SAVE

- Pooling samples for Johne's, BVD or Mastitis reduces cost and effectively identifies herd or group status. Call 800.631.3510 to discuss pooling options.
- Two ELISA tests on one sample **\$11**
- Three ELISA tests on one sample **\$15**
- Four+ ELISA tests on one sample **\$5/test**

Decoding Mastitis PCR Results

Mastitis PCR results provide a comprehensive picture of the cause of mastitis. While this allows you to treat and manage mastitis more effectively, the data can be confusing. ***So what does it all mean?***



Control of each mastitis-causing organism is unique.

When your results indicate infection, understanding the source of the infection and how it's transmitted is essential to implementing an effective control plan. CentralStar's Mastitis PCR can report up to 16 mastitis-causing pathogens, depending on which test you use. Below is a quick reference of some of the organisms most often reported. Management of the various pathogens and their relative abundance is herd-specific and dependent on your goals.

Target Organism	Source	Transmission	Control
<i>Staphylococcus aureus</i>	Infected udders, skin surfaces, mucous, and the environment	During milking by contaminated milk	Treatment often unsuccessful; Segregate and cull; test all incoming purchased animals
<i>Mycoplasma bovis</i>	Infected cows shed bacteria in milk, blood, and respiratory secretions	Cow-to-cow through infected milk, blood, nose-to-nose contact	Not susceptible to antibiotics, consider cows infected for life; Segregate and cull; test all incoming purchased animals
<i>Mycoplasma species</i>	Infected cows shed the bacteria in milk, blood, and respiratory secretions	Cow-to-cow through infected milk, blood, nose-to-nose contact	Not susceptible to antibiotics, consider cows infected for life; Segregate and cull; test all incoming purchased animals
<i>Streptococcus uberis</i>	Shed in feces, contaminates all bedding types	Environmental contact, possibly cow-to-cow through infected milk	Cure rate generally lower than other Strep species, but may increase with extended-duration therapy; cull chronic infections
<i>Streptococcus dysgalactiae / Enterococcus faecalis & faecium</i>	Shed in feces, contaminates all bedding types	Environmental contact, cows with negative-energy balance or compromised immunities most at risk	Responds to antibiotic treatment; Clean dry-cow environment, good pre- and post-milking teat-dip procedure
<i>Staphylococcus species</i>	Skin surfaces, occasionally environment	Infects teat canal from skin sources	High rate of spontaneous cure, responds to antibiotic treatment, pre- and post-milking teat disinfectant, dry-cow therapy
<i>Staphylococcal beta-lactamase gene (A sub-group of Staphylococcus)</i>			Resistant to treatment with beta-lactam products; discuss alternative antibiotic uses with veterinarian
Yeast	Soil, plants, water	Improperly cleaned teat ends prior to infusion, milking machine malfunction or poor milking technique	Does not respond to antibiotics and their use may worsen the signs of mastitis; Sterile, single-use udder prep for teat infusions, ensure properly working milking equipment and technique

SCAN TO
LEARN
MORE



Don't go it alone.

Ask your CentralStar team for help with understanding your results and implementing testing on your farm.

 **CentralStar**
800.631.3510 • www.mycentralstar.com

REPRODUCTION TOOLS

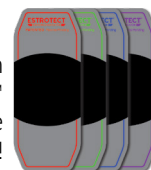


Heat Detection

Estrotest™

No more messy glue. Scratches off exposing brilliant color when cows are mounted. The precision-designed Breeding Bullseye™ takes the guess work out of your breeding program. When the Bullseye, or equivalent amount, is rubbed off it's time to breed! Available in orange, lime green, fuchsia, and blue.

ID3229 - 50ct
ID3232 - Rubber brush



\$87.00
\$6.75

Kamar® HeatMount™ Detectors

Advanced heat detection aid that helps identify standing heat occurring between visual observations. Apply with adhesive over sacrum of cow. Detector turns red when activated by mounting.

ID3220 - 25ct w/adhesive
ID3230 - 100ct w/adhesive
ID3223 - Adhesive



\$33.00
\$132.00
\$5.00

Eazi-Breed™ CIDR®

Produces tighter estrous synchronization, which means more animals in heat in an insemination window. The insert is easily administered into the vagina, continuously releasing progesterone, allowing breeding programs to start at any stage of the estrous cycle.

AC21274 - 10ct
AC21285 - Individual applicator



\$167.50
\$18.33

Twist-Stik

Slow-dry formula marks skin, hide, and pelts. Convenient plastic dispenser with cover prevents waste and mess. Fade-resistant, weather-resistant, and nontoxic.

ID61029 - Regular 12ct box
ID61030 - Fluorescent 12ct box



\$26.40
\$28.92

Paintstik™

Highly-visible, nontoxic identification. Applies easily wet or dry and resists fading. Available in orange, green, fluorescent orange, fluorescent green, and fluorescent pink.

ID61024 - Regular 12ct box
ID61012 - Fluorescent 12ct box



\$13.56
\$13.92

Detect-Her™ Tailpaint

Rubs off with several mounts. Has BITTERGUARD® to deter licking. Water soluble for easy clean-up, will not stain hands. Available in wipe-on or aerosol in blue, green, orange, yellow, pink, and red (wipe-on only).

DT202 - Wipe-on 6ct box
DT208 - Aerosol 12ct box



\$51.00
\$101.40

CowManager®

24/7 monitoring of your herd's reproduction. Ear tag transmits data every 15-minutes. Fertility alerts accurately identify which cows are in heat, provides precise information on optimal time to breed and identifies anovular and cystic cows. Nutrition and health information also available.

See www.mycentralstar.com/cowmanager to learn more.



Reproduction Tools

D-Y Herd Monitor

Use for keeping accurate records of your herd's breeding and freshening. Available in red, pink, green, blue, and yellow.

AC2802 - Herd Monitor
AC2803 - Monitor Labels 30/sheet



\$238.00
\$0.47

A.I. Training

SS100 - A.I. Training Manual \$25.00
SS145 - Supplemental A.I. Training Manual Spanish \$3.00
SS170 - Basic A.I. Training DVD English \$20.00
SS171 - Basic A.I. Training DVD Spanish \$20.00
SS180 - Basic A.I. Training Video English \$20.00
SS183 - Basic A.I. Training Video Spanish \$20.00
SS184 - Heat Detection & Timed A.I. Video English \$15.00
SS185 - Heat Detection & Timed A.I. Video Spanish \$15.00

IT'S CONVENIENT!

Milk Pregnancy Test



"Farms I work with use the Milk Pregnancy Test because of its convenience. They use it at a variety of times from the initial confirmation to just before dry-off. Since I'm at the farm every month, I can easily create a report to identify which animals need to be checked, saving them time, and keeping their breeding program on track."

Heather Noskowiak
CentralStar DHI Specialist



SCAN TO
LEARN
MORE!





Breeding Supplies

A.I. Gun Warmer

Heated, temperature controlled carrying case keeps guns at correct temperature. Includes: 12V rechargeable battery, belt/shoulder strap, 100V AC wall adapter, 12V DC auto adapter, spare liner. One-year warranty.

IN8011 - Gun Warmer Kit	\$394.16
IN8012 - 14.4V Rechargeable Battery	\$76.63
IN8013 - 100V AC Wall Adapter	\$15.93
IN8014 - Auto Adapter- Gun Warmer	\$12.04



Breeding Sheaths

IN3004 - Individual Sheath - Split 50pk	\$8.87
IN3012 - Univ N/S Sheath-Blue (spiral/univ gun) 50pk	\$4.50
IN3016 - Univ Split Indv Sheath - Green 50pk	\$11.17
IN3017 - Univ N/S Indv Sheath - Blue 50pk	\$14.51
IN3024 - San Sheath Covers 100 roll	\$15.90
IN3025 - Univ N/S Sheath - Green (o-ring gun) 50pk	\$3.67
IN3028 - HD Plastic Sheath Covers 25pk	\$8.65
IN3054 - Metallic Tip Sheath-ET 5pk	\$13.88
IN3056 - Alpha Sheath 50pk	\$10.27
IN3013 - Infuzee w/ Connectors 25pk	\$8.25
IN3031 - Infuzee Pipettes 25pk	\$7.57

Insemination Guns

IN3005 - French Straw Gun	\$30.00
IN3006 - Spare Lock Ring	\$1.05
IN3011 - Spiral Straw Gun 1/2cc	\$30.00
IN3042 - Spiral Straw Gun 1/4cc	\$37.00
IN3053 - ET Breeding Gun	\$128.79
IN8010 - Deep Horn Breeding Gun	\$48.00



Kombicolor Insemination Guns

Use with 1/4 and 1/2cc straws.

IN3044 - White	\$44.22
IN3045 - Yellow	\$44.22
IN3046 - Green	\$44.22
IN3047 - Blue	\$44.22
IN3048 - Red	\$44.22
IN3057 - Plunger	\$17.00



Breeding Gloves

IN3040 - Buff Poly Sleeve 100 box	\$21.94
IN3049 - Red Breeder Sleeve 100 box	\$17.80

Cito Thaw Cup

A sensitive and accurate thermostatic control ensures a constant temperature range of 95°- 98° F. Indicator light shows when the unit is ready to use, and when it is maintaining the water bath at the proper temperature. Includes AC adapter and DC adapter.



IN3058 - Dual Purpose Thaw Cup	\$251.92
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Breeding Kit

Plastic breeding box to hold breeding supplies. Comes with thermos bottle (blue box includes Cito dual purpose thaw cup), Kombicolor gun, universal sheaths, gloves, bottle of Lubogel, tweezers, scissors, and thaw monitor.



IN3015 - Breeding Kit Plastic	\$116.21
IN3023 - Plastic Box Only	\$21.73
IN3051 - Breeding Kit Blue	\$371.73
IN3050 - Blue Box Only	\$98.55

Breeding Extras

IN3029 - Lubogel gallon	\$15.13
IN3021 - Thermos Bottle	\$21.91
IN3026 - Thaw Monitor	\$4.00
IN3032 - Tank Measure Stick	\$5.25
IN3041 - Digital Thermometer	\$21.14
IN3020 - Dial Thermometer	\$14.65
IN3007 - Scissors	\$12.59
IN3009 - Forceps - stainless steel	\$11.22
IN3008 - Fiberglass Tweezer 1/2cc	\$3.10
IN3043 - Fiberglass Tweezer 1/4cc	\$4.40
IN3037 - CITO Straw Cutter	\$6.20
IN3061 - Tork Dairy Towel single pack (16 packs in a case)	\$2.10



Nitrogen Tanks

Description	No. of Canisters	Capacity 1/2cc Straws	Hold Time (weeks)	Neck Opening (inches)	2 year Warranty	Weight Filled (pounds)
Millennium XC20	6	720	16	2 1/4	Yes	60
MVE XC34/18 Tank	6	2,100	16	3 1/2	Yes	96

Call for pricing



PEST CONTROL

Fly & Insect Control

ULTRABoss® Pour-On

Controls lice, flies, mosquitoes and ticks on cattle. Effective horn fly control up to eight weeks. No pre-slaughter withdrawal or milk withhold. 3 mL per 100 lbs. body weight.

AC2814 - 1qt
AC2813 - 1gal



\$40.21
\$153.32

Intersect Gold Pour-On™

Synergized pour-on controls lice and flies on lactating and non-lactating dairy and beef cattle and calves. Controls keds on sheep and lambs when applied as a pour-on. Controls flies on horses when applied as a wipe-on, pour-on or a ready-to-use spray. Apply as a pour-on, mist spray or in back rubbers.

AC2839 - Intersect Gold 2.5gal
AC2840 - Intersect Gold 1gal



\$215.00
\$100.00

CyLence® Pour-On

Ready-to-use pour-on insecticide for the control of horn flies, face flies, biting and sucking lice on beef and dairy cattle. Use anytime of the year. No mixing and no withdrawal requirements.

AC2825 - 6pt



\$127.82

Cattle Armor Pour-On

Ready to use pour-on to kill horn flies, face flies, house flies, stable flies, keds, lice, mosquitoes and many more. Works as a pour-on, mist or diluted in back rubbers. Use on beef cattle, lactating and non-lactating dairy cattle, calves and sheep.

UM3716 - 55gal



\$1,158.43

CyLence® Ultra Premise Spray

Broad spectrum control of crawling, flying and wood-infesting insects, in and around animal housing, warehouses, and processing and packing plants. Provides effective knockdown and residual control of over 60 different pests.

AC2845 - 240ML



\$68.57

Cyzmic® CS Insecticide Premise

Encapsulated premise insecticide for use around livestock buildings. Kills flies, ants, spiders, crickets, moths, ticks, mosquitoes, fleas, beetles, bugs and more. Provides broad-spectrum control, lasts up to 90 days on a surface, mixes with water.

AC2846 - 1qt



\$103.79

ULD® BP-100 Premise

A versatile fly control that is safe for humans and livestock. Kills flies with extremely low risk of resistance. Application will leave a residue to control flies for up to seven days.

UM3703 - 1gal
UM3706 - 55gal



\$96.87
\$2,998.97

Dewormer

EpriGard®

Internal and external parasite control for beef and dairy cattle. Kills 39 species and stages of internal and external parasites. Controls adult worms and fourth-stage larvae, lice, mange mites, grubs and horn flies. Active ingredient: Eprinomectin at 5g/L. No milk or meat withholding.

AC2848 - 5L



\$271.62

Ivomec® Eprinex®

Parasite control that kills 39 species and stages of internal and external parasites. Controls adult worms and fourth-stage larvae, lice, mange mites, grubs and horn flies. No milk withholding or meat withdrawal (when used according to label).

MR30252 - 2.5L
MR30253 - 5L
MR30254 - 10L
MR19499 - 20L



\$270.92
\$368.22
\$692.12
\$1,292.94

Ivomec®

Highly effective against roundworms, lungworms, grubs, lice and mange mites in cattle.

MR41350A - 5L



\$298.60

CYDECTIN® Pour-On

Pour-on formula approved for beef and dairy cattle, including lactating cows. Use for the treatment of infections and infestation of internal and external parasites. Proven to provide persistence against specific species including brown stomach worms, lungworms, barber pole worms and nodular worms. Zero milk withhold and zero slaughter withdrawal. Contains weather-proof formula with purple dye to easily identify which animals have been treated.

AC2822 - 5L
AC2823 - 10L
AC2844 - 2.5L



\$381.11
\$758.28
\$318.00

SCAN TO
ORDER FLY
CONTROL



SCAN TO
ORDER
DEWORMER



Evergreen® Pyrethrum Concentrate Premise

Water based, broad-spectrum insecticide that can be used in OMRI-certified organic facilities. Contains pyrethrum, a botanical insecticide. Use indoors in food and non-food areas, and in and around livestock facilities. Rapidly degrades in sunlight with no residual activity. Offers fast, effective control of insects including ants and cockroaches.

AC2819 - Organic 1gal

AC2838 - 60-6 Fly Spray 1gal



\$497.91

\$342.65

Neporex®

Controls stable flies and mosquitoes. Granular formulation larvicide, suitable for scattering, or dissolving for pouring and spraying. Can be used as a spot treatment where larvae are found developing. NOT allowed for application directly to livestock, feed or water for consumption, as residues may occur. Apply to calf hutches, slatted floors, cattle pens and spillage areas.

AC2837 - 11lb



\$133.70

Tempo® SC Ultra Premise

Premise spray provides broad-spectrum control of more than 60 pests including flies, ants, spiders, darkling beetles, mosquitoes, fleas, ticks and more. Can be used as a general surface, spot, mist, or crack and crevice spray for use in and around animal facilities.

AC2820 - 240mL

AC2821 - 420gm



\$59.75

\$85.00

QuickBait® Fly Bait

Controls nuisance flies in as little as 60 seconds. Ready to use indoors or around livestock production facilities, poultry houses and horse stables as scatter bait or in bait stations. Contains Bitrex®, a bitter substance to help prevent accidental ingestion by children and animals.

AC2835 - 5lb

AC2836 - 35lb **limited supply*



\$51.71

\$232.91

Dairy Fly Bomb 55Z

Kills and repels stable flies, horse flies, face flies, deer and house flies, mosquitoes and gnats. Use on beef cattle, dairy cattle, horses, hogs, chickens and other livestock; in animal barns and storage facilities. Quick killing pyrethrin.

AC2829 - 25oz



\$22.03

Sticky Roll®

Use in dairy barns, horse stables and animal premises of all kinds. USDA testing shows it captures 92% of available flies. No baits, toxins or pheromones are necessary.

AC2832 - Hardware

AC2833 - 1,000ft Roll



\$69.29

\$44.05

Application quick reference

Product	Parlor/ Milkhouse	Barns	Animals	Hutches	Use
CyLence Pour-On	No	No	Yes	No	Apply to topline every 3 weeks; rotate with Ultra Boss
UltraBoss Pour-On	No	No	Yes	No	Apply to topline every 2 weeks; rotate with CyLence
Intersect Gold Pour-On	No	Yes	Yes	No	Apply as pour-on or in back rubbers, effective on dairy, beef, horses or sheep
Cattle Armor Pour-On	No	No	Yes	No	Apply to topline, oil-based, reapply every 2 weeks
CyLence Ultra Premise Spray	Yes	Yes	No	Yes	Broad spectrum for indoor or outdoor use
Cyzmic CS Insecticide Premise	Yes	Yes	No	Yes	General use, quick knockdown, up to 90-days residual
Tempo SC Ultra Premise	Yes	Yes	No	Yes	Indoor and outdoor; surface, spot, mist, or crack and crevice spray.
EverGreen	Yes	Yes	Yes	Yes	Pyrethrins degrade quickly in sunlight. Kills 140+ pests.
UDL BP-100	Yes	Yes	Yes	Yes	To kill stable flies, apply 2 fl oz/adult animal
Neporex	No	Yes	No	Yes	For under bedding in hutches or around perimeter of manure piles and packs
QuickBait Fly Bait	No	Yes	No	Yes	Fresh product attracts more flies; for house flies, not stable flies.
Sticky Roll Fly	No	Yes	No	No	Indoor and outdoor; over headlocks or tie stalls
Fly Bomb	Yes	Yes	Yes	Yes	Quick knockdown, no residue



EAR TAGS

Visual Tags

Allflex

Patented laser-ink marking with matching laser-etched number into tag surface guarantees permanent identification for the life of the animal. Special order with custom options available. Available in blue, green, orange, pink, purple, red, white, and yellow.



Medium 1.75" x 1.5" numbered/blank	\$0.95/\$0.85
Large 3" x 2.25" numbered/blank	\$1.53/\$1.43
Maxi 4" x 3" numbered/blank	\$1.78/\$1.68
Super Maxi 4.625" x 3" numbered/blank	\$1.88/\$1.78

Z-Tags

With their unique flip-out applicator and no-snap design, Z-tags are a premium ear tag. Available in one and two piece tags. Available in yellow, purple, black, pink, blue, red, green, orange, and white.



One Piece Calf 2.5" x 3.25" numbered/blank	1.05/\$0.82
One Piece Cow 3" x 4.5" numbered/blank	\$1.45/\$1.30
Two Piece Calf 2.5" x 3.25" numbered/blank	\$1.05/\$0.82
Two Piece Cow 3" x 4.5" numbered/blank	\$1.36/\$1.12

A-Tags

One-piece tag, self-piercing, pinhole tip for faster healing and reduced animal stress. Highly versatile designed for long-term identification and cost effective. Patented laser ink permanent marking, custom marking and numbering available by special order. Available in blue, green, orange, pink, purple, red, white, and yellow.



One Piece Cow 4.5" x 3" numbered/blank	\$1.35/\$1.25
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Y-Tex

Two-piece tags are made of an advanced polyurethane formulation and are engineered to prevent cracking, remain flexible and provide excellent longevity. All-American ear tag design features a Snap-Lok® collar for superior retention, a long neck for greater visibility and ultraviolet inhibitors to resist fading. Available in orange, blue, green, pink, purple, yellow, red, black, white, and gray.



Medium 3-Star 2.25" x 4.875" numbered/blank	\$1.20/\$1.10
Large 4-Star 3.5" x 4.75" numbered/blank	\$1.30/\$1.20

RFID Tags

Allflex Official USDA '840' Ultra EID Tag

The USDA Premise ID number is required to purchase. The tag is ISO Compliant. Extended small male allows a deeper placement in the ear.



Single Tag	\$2.63
-500+	\$2.50

Allflex USDA '840' Visual Tags

Tags are laser-ink printed and available with custom letters and numbers. The USDA Premise ID number is required. EID button only available in white. Visual tags are available in: yellow, white, blue, green, orange, red, and pink. Also available with tissue sample units.



Double matched 2 pair maxi female w/ large male	\$5.93
Double matched combo set	\$4.07
840 only double matched 2 pair maxi female w/ large male	\$4.15
Maxi matched pair visual set numbered	\$4.95
Maxi matched pair visual set blank	\$4.85
Large matched pair visual set numbered	\$4.48
Large matched pair visual set blank	\$4.38

Allflex All-in-One

Available in Half Duplex (HDX) and Full Duplex (FDX). Combines Allflex Maxi or Large visual tag with EID component. Tamperproof Ultra Cap™ provides ultimate security and retention. Available in yellow and white.



Maxi - blank or numbered	\$4.45
Maxi - numbered with text	\$4.49

CowManager®

CowManager Blank RFID Tag

The dummy RFID tags are a perfect way to put in CowManager® ear tags, or use with regular RFID tags. Female tags are reusable.



Female	\$2.00
Male	\$0.58

ProfitSOURCE®

ProfitSOURCE

ProfitSOURCE is a complete program offering the expertise of CentralStar's reproductive and genetic specialists. ProfitSOURCE can significantly impact your herd's bottom line by increasing the revenue from your lower genetic value females. *Calves MUST meet all Select Sires requirements to qualify for the ProfitSOURCE™ program. Call for specifications.





Swine Tags

Official 840 Swine Tag

Required for all show gilts and barrows. USDA official 840 number. 840 tags are not used for production swine (see Swine Premise tags). Premise number required to order (available through your local Department of Agriculture). Tags offer a tamper-proof button and visual panel stud. Available blank, with management number or with premise number or text. Available in blue, magenta, orange, pink, red, white, and yellow.

Rectangle
Button



\$1.25
\$1.25

Sheep & Goat Tags

FDX Lightweight Goat and Sheep Ultra 840 EID

Packaged with small global males, FDX technology utilizes the lightweight EID tag. The USDA Premise ID number (issued by the Department of Agriculture in your state) is required to purchase. Apply with the Allflex universal total tagger or Allflex Ultra Retract-O-Matic for EID tags. Packaged in sets of 20 buttons per package.

Goat and Sheep



\$2.47

Tagging Accessories

Taggers and Accessories

Allflex Ultra Retract-O-Matic for CowManager	\$105.00
Allflex Ultra Retract-O-Matic for EID Tags	\$75.61
Allflex UTT3S Tag Applicator for all 2-piece tags/electronic tags	\$34.00
Allflex Retract-O-Matic for visual/global	\$56.00
Z-Tag Applicator for one-piece Tags	\$25.00
Destron Fearing Universal Tag Applicator	\$24.00
Allflex A-Tag Applicator	\$24.50
Allflex Total Tagger Applicator	\$25.26
Allflex Total Tag Applicator Pin	\$2.60
Destron Fearing Pin for ProGrip Universal Applicator	\$2.91
Remover Knife	\$3.82
Z-Marking Pen	\$7.25
Allflex 2-in-1 Marking Pen	\$5.98
Y-Tag Tagger Plus/Combination	\$25.00

EID Stick Readers

Allflex AWR300 EID Stick Reader	\$1,370.85
Allflex AWR300 EID Stick Reader Kit	\$1,430.00
Tru-Test XRS2 EID Stick Reader	\$1,899.00
Tru-Test SRS2 EID Stick Reader	\$1,399.00
I.D. Ology LCD Lightning Rod Reader w/ Bluetooth	\$1,250.00
I.D. Ology Lightning Rod Reader w/ Bluetooth	\$765.00
Allflex RS420 Replacement Battery	\$38.50

"THE SUPPORT TEAM WITH COWMANAGER IS SECOND TO NONE!"

"CowManager makes us more efficient. It identifies specific cows that need attention, so we aren't walking around all the pens looking for sick cows and wasting our time. The return on investment for CowManager has been solid because of decreased death loss, increased heat detection, and our overall stewardship of antibiotic usage has also improved. We feel the support system and team you get with CentralStar and CowManager is second to none!"

~Larson Acres, Inc, Evansville, Wis.



HEALTH • FERTILITY • NUTRITION

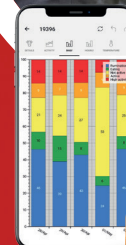


AHEAD OF THE HERD TOGETHER

TRY IT NOW
OUR DEMO



SCAN QR



CentralStar

Learn more from your CentralStar team.