

Minnesota DHIA News

A PUBLICATION OF MINNESOTA DHIA

Volume 22 Issue 8

AUGUST 2022

Save the Date! Minnesota DHIA is sponsoring a visit to the U of M experiment station at Morris to be lead by Dr. Brad Heins. More details coming – but we will start at 10:45 on Thursday September 15, and we will cater in a lunch. Possible topics/ tours include calf housing (variety in use, pairs, groups, nurse cows), different forages they are growing to increase legumes, different breeds and xbrd , lot of use of solar energy (& the campus runs on wind energy from a turbine), make your own anhydrous ammonia (they do on a small scale), horticultural garden (may have a horticulturalist on hand if there is interest).



DHIA Scholarship Application Now Available

Applications are due by **October 31, 2022**

The application and guidelines are available by visiting mndhia.org

Milk Quality and Fertility: Is mastitis the reason she's not pregnant?

Getting cows pregnant and managing somatic cell count (SCC) levels are two major challenges to the health of your cows and your profit. When a cow has mastitis, her immune system has to work harder producing extra white blood cells. This elevates the risk of pregnancy loss, increases days to first AI, causes more days open and extends calving intervals. Ricardo Chebel, DVM formerly at the University of Minnesota, stated in his article, *Mastitis effects on reproduction*, “Mastitis prevents ovulation, extends the interval to first AI and reduces fertilization rates and embryo development. Mastitis compromises pregnancy establishment and maintenance and increases incidence of abortions. Cows that have mastitis at any interval after calving have reduced pregnancy rate, which results in significant economic losses to dairy herds”. Research published by the University of Wisconsin in April 2015, found that mastitis before and after a breeding event can greatly reduce conception. This period is crucial to the success of breeding. The severity of the case of mastitis correlated to the probability that the cow will not retain her pregnancy. Down the road, cows with clinical mastitis within the first 45 days of pregnancy were 2.7 times more likely to suffer a pregnancy loss. Both gram negative and gram positive bacteria have been found to cause reproductive issues. Next time when you ask yourself why she's not pregnant, take a look at your SCC report.



Manure Matters Dairy Herd Management reports that “all manure is not the same. It can be quite variable, making it a challenge to match plant nutrient needs to the amount of nutrients available in the manure.” A team at the University of Minnesota has done the research, and the Minnesota DHIA's Centre Lab had been cooperating in this research. For more information on the research email manure@umn.edu. For information on the manure testing service available from DHIA, or to ask for a sample kit, please call the Cheri at (763) 233-7866 or the main lab number (763) 231-6768.

A Successful Cow

Who are the successful cows in your herd? High components, good production, low SCC, pregnant, low number of breeding's and good feed efficiency are all possible criteria to be considered successful cow in your herd. Bottom line: They make money and are not drama queens.

Find your successful cows and individuals that need attention in one report; the 365 Condensed report gives you summary data as well as individual cows.

Area of Focus: Fat & Protein

You are paid on components, therefore last year we added "Fat + Protein lbs." Are cows reaching their full potential? Fat and protein are closely related to animal health and nutrition quality. Also, keep in mind there is some seasonality as milk fat and protein percentages are generally the highest in the fall. Fat concentration is the most sensitive to dietary change.

BarnName	DIM	Peak Milk	Last Milk	Test Milk	Pct Fat	Pct Pro	Lbs F+P	SCC	Test MUN	MLM	Prod Indx	Proj Milk	Calved	L N	Age	Days Open	Br #	Due Date
1831	267	92	85	78	4.0	3.0	5.5	1.4	12	96	121	30376	Oct 22	1	35	80	1	Oct 17
1845	260	101	87	61	3.9	2.5	3.9	1.0	9	77	112	31413	Oct 29	1	34	204	4	Feb 25
1864	237	88	72	69	3.0	2.8	4.0	.1	8	86	98	27832	Nov 21	1	32	73	1	Nov 09
1865	203	97	72	78	4.2	2.9	5.5	2.5	12	92	115	28791	Dec 25	1	32	122	2	Jan 31
1866	242	91	70	72	4.1	2.8	5.0	2.7	7	90	110	27785	Nov 16	1	32	99	2	Nov 30

The Condensed Report is available to every herd online each month. Call our office if you need your release code to access Web Reports 800-827-3442.

What is there to gain in fat & protein?						
Your Current #s						
Milk	Fat	Prot	Fat \$/lb.	Prot. \$/lb.	\$ per cow	
25,000	3.3%	2.9%	2.6579	\$ 2.0046	\$ 2,192.77	\$ 1,453.34
After Fat & Protein Improvement						
Milk	Fat	Prot	Fat \$/lb.	Prot. \$/lb.	\$ per cow	
25,000	3.7%	3.1%	\$ 2.6579	\$ 2.0046	\$ 2,458.56	\$ 1,553.57
Gain			Difference		\$ 265.79	\$ 100.23
\$ for Fat	\$ 26,579		(Example is based on 100 cows)			
\$ for Protein	\$10,023					
Total for Herd	\$ 36,602					

July by the numbers:

Milk Price reported to DHIA \$25.74

13% of DHIA herds and 41% of cows are milked 3x

Average MUN 10.8

Rolling 365 Day Herd Average Milk 25,207 lbs

Median SCC 232,000

Rolling 365 Day Herd Average Fat lbs 1,038 (4.1)

54% of DHIA herds and 83% of cows are milked in parlors

Rolling 365 Day Herd Average Protein lbs 814 (3.2)

What is this new test?

New Tool in Milk Production and Herd Health!

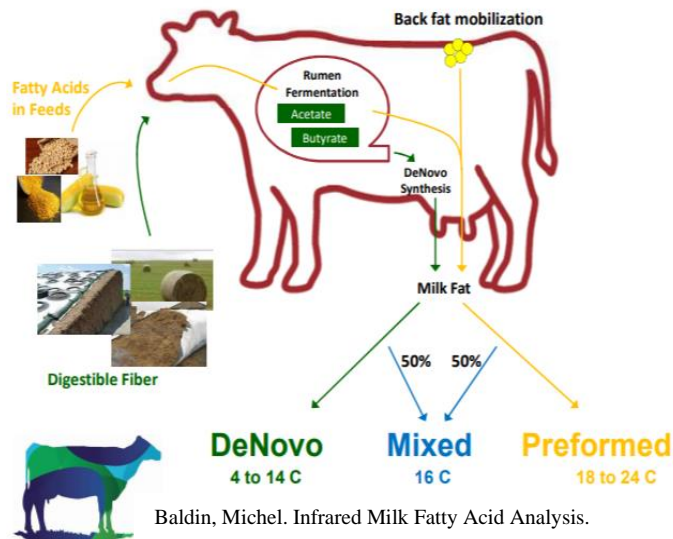
Fatty acid analysis, which looks at DeNovo, Mixed, and Preformed Fatty Acids in bulk tank milk, is now available at Minnesota DHIA labs. Gain components without losing production, sounds like a win-win situation.

Consult your Nutritionist!

Background:

For bulk tank milks, the interpretation of the data helps understand how well the herd (or subgroups within the herd) are digesting forage and producing DeNovo fatty acids. The preformed fatty acids give insight into how the cows are doing with respect to body fat reserve and mobilization of body fat. The chain length and fatty acid unsaturation values provide some insight into how the cows are using dietary fat and flags herds that have a high probability of being in classical trans fatty induced milk fat depression. This, combined with the milk weight per cow per day and the calculated lactose production per cow per day provides some insight into the status of glucose metabolism in the herd.

“New Milk Analysis Tools to Improve Animal Performance -
Dr. Dave Barbano.” Progressive Dairyman.



To get started:

1. Contact your nutritionist
2. Contact Centre Lab for Supplies (763) 231-6768
3. Results are emailed to your nutritionist for interpretation.

How to collect samples for FA Profile

- Bulk tank samples should be collected at minimum for 5 days. (i.e. 5 samples if everyday pickup, 3 samples if every other day pickup.)
- If the dairy has multiple tanks a sample must be taken from every tank for the 5 day span.
- Samples must be refrigerated during the collection period and shipped in correct packaging to maintain temperature. DO NOT FREEZE.

Fatty acid profiles overall provide insight to:

- Diet and dietary changes
- Management and environment changes
- Physiological state of the cow
- Energy Balance

July Milk Quality Leaders, ranked by SCC then Log SCC

Name	Town	SCC	Cows	Name	Town	SCC	Cows
HIGH POINT DAIRY	MELROSE	30	140	FAIRVIEW DAIRY	KENYON	106	334
HAPPKE HOLSTEIN FARM	PIERZ	33	111	CANC	ELK RIVER	106	65
SELKE FARMS	DAKOTA	53	237	SCHMITY HOLSTEINS	OWATONNA	107	218
EMPIRE FARMS	PAYNESVILLE	54	6	RKB DAIRY	FARIBAULT	110	140
*SCOTT GATHJE	RICHMOND	56	74	WOLF CREEK DAIRY	DUNDAS	111	468
WELLE DAIRY	HILLMAN	61	32	*RONALD & ANN BORASH	BOWLUS	112	51
*ADAM & SARAH MELLGREN	ZUMBRO FALLS	62	70	*MIKE MENZE	OTTERTAIL	113	84
*MATT BERKTOLD	LAKE CITY	62	204	*ROGER ALDINGER	WINONA	114	107
DELBERT BECHTOLD	ST JOSEPH	64	38	TRAIL SIDE HOLSTEINS	FOUNTAIN	114	732
*BILL & ALAN MILLER	THEILMAN	65	288	*BRIAN & JULIE LIBBESMEIER	WATKINS	114	63
SUNSHINE DAIRY LLC	ARLINGTON	67	91	CASEY ACRES INC	PRIOR LAKE	115	58
VOGT DAIRY LLC	SAUK CENTRE	69	319	*JOHN AND CONNIE DONNAY	GLENCOE	115	63
HOEFS' DAIRY	NEW PRAGUE	70	286	BLUE VIEW DAIRY FARM	CALEDONIA	118	299
*DENNIS AND WAYNE WOLTERS	LITTLE FALLS	71	154	VALLEY ACRES DAIRY	LEWISTON	119	938
*JOE WUETHRICH	BROWNTON	71	29	DNA FARMS INC	LINDSTROM	120	76
*DEVOINE KRUSE	CALEDONIA	73	249	BARGMANN FARMS INC	GLENCOE	120	45
*CORY AND KRISTEN SALZL	LITCHFIELD	75	22	MUNDT DAIRY	UTICA	121	244
*SCOTT&MICHELLE HERBER	UTICA	78	756	BONOW FARMS	LEWISTON	122	277
HARMONY HILLS DAIRY	VICTORIA	78	56	*MICHAEL BANSE	EITZEN	122	89
*JERRY & BEV POHLMANN	GREY EAGLE	78	70	PATNODE DAIRY LLC	CORCORAN	123	115
SCHULTE FARMS	CALEDONIA	81	264	*MAYNARD & JEREMY SCHUMACHER	PLAINVIEW	123	122
PINE-VUE FARMS	ROLLINGSTONE	82	94	*LORNE CHAPPUIS	FARIBAULT	124	61
SCHEFFLER DAIRY	ZUMBROTA	84	146	*KYLE MOSER	LAKE BENTON	126	113
RYBERG REG HOLSTEIN	FREERPORT	84	42	*DUANE&KAREN TIMM	PLAINVIEW	127	123
MARSHALL KORN	ATWATER	85	71	DORITY VALLEY DAIRY	HILLSDALE,WI	127	106
*BRANDON + JILL MARSHIK	RICE	86	133	*JOHN LARSEN	MANTORVILLE	128	40
*JOHN + KARYL DIERSEN	CALEDONIA	87	192	*JEREMY HOLTHAUS	RICHMOND	128	63
*MARVIN RADEMACHER	BELGRADE	87	45	*STEVE&DEB HEUER	LITCHFIELD	128	33
MERDAN DAIRY INC	AVON	88	87	SCHWARTZ DAIRY	SLAYTON	129	127
WIRTLAND HOLSTEINS	LEWISTON	91	540	RIVERVIEW ENTERPRISES	FOLEY	129	92
BURKE DAIRY INC	SEBEKA	91	193	ZUMBRO VIEW FARMS LLC	ZUMBROTA	129	79
*MARK KLEHR	BELLE PLAINE	92	54	*NICK PRAMANN	CLEARWATER	130	98
PRIGGE FARMS LLC	WINONA	92	334	BROOKSIDE DAIRY	CLITHERALL	130	535
GLEN & BECKY CHRISTEN	SAUK CENTRE	93	43	WALNUT ROW FARM LLC	SPRING GROVE	131	24
ROGER AND SANDY ERICKSON	BECKER	94	50	*TOM AND SUE HOLST	LANESBORO	131	182
*KEN & LINDA GLISCZINSKI	NEW PRAGUE	95	187	MASCHKA DAIRY	MINNESOTA CITY	131	291
SUNSHINE ACRES	ST CHARLES	95	224	WHITE-AKER PASTURES	KASSON	132	13
HOFFMAN NORTH-CREEK	CHATFIELD	96	483	*MATT ANDRING	DOVER	133	135
HOUDEK DAIRY LLC	CALEDONIA	96	515	THISTLE DEW DAIRY	WESTBROOK	134	134
*JAMES C PFEIFER	OWATONNA	97	53	METZ'S HART-LAND DAIRY	RUSHFORD	135	245
JOHNSON DARREN+LYNN	WINONA	97	231	*ANDY AND LINDA RIEKE	FRANKLIN	136	54
*JIM EVANS	PIPESTONE	97	113	BLUFF VIEW FARMS	KELLOGG	136	400
JOHNSON DAIRY	HERON LAKE	98	96	*RANDY AND LUANN WAGNER	WEBSTER	136	362
*MAREN & JEREMY HOLST	LAKE CITY	99	104	SCHWING-D FARM CORP	ALBANY	137	449
DOUG & SANDRA DEROUSSEAU	RICE LAKE,WI	99	76	MOLDANS HOLSTEINS	COMFREY	139	77
SHIR-MAN HOLSTEIN FARM	FOUNTAIN	100	36	*JOSH AND JON FRENCHICK	PAYNESVILLE	139	87
JER-LEY HOLSTEINS	HUTCHINSON	103	48	*PHIL SUESS	GRAND MEADOW	140	11
REUTER FARMS	HASTINGS	103	117	*RICHARD RUHLAND	MONTGOMERY	140	49
CURTSGROVE GUERNSEYS	CENTURIA	105	15	*RICK AND ANN STOCKER	JORDAN	140	85
BEAVER OAK DAIRY	ALTURA	106	137	CORNERSTONE DAIRY LLP	FORT RIPLEY	140	101