DHI-302

20.577

20.641

20,884

21.214

21.421

21.608

21.748

21,900

21,820

21, 765

21,851

21, 942

769

772

777

784

788

796

801

803

803

801

806

810

365 DAY AVERAGE >

NO PUBLICATION

DHI Herdcode Test Type & Description Breed Sample Date Process Date 41990010 41 DHI-OSAP HOL 4/02/10 4/05/10

MNDHIA SAMPLE HERD

PString 2/21 4/02/10 97MN **HERD** 41

Minnesota

• 90% of 1st lactation cows should be in 0-3 range. If less than 90%, heifer management may be compromised.

• 80% of the whole herd should be under a Linear Score of 4.

% Cows by Linear Score

47

39

30

4,5,6

20

32

23

New Infections

10

15

15

21

11

10

17

14

12

Vumber

24

33

32

44

36

28

24

17

127 OWS

7,8,9

12

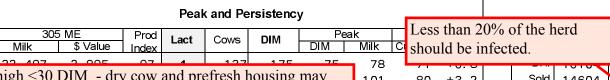
17

10

BASED ON

2,3

Herd Summary



- If high <30 DIM dry cow and prefresh housing may need attention. If only lactation 1, look into heifer housing and management.
- If high 30-220 DIM ineffective milking procedure or marginal equipment. Could be ineffective control of cow to cow spread where contagious pathogens are of concern or high exposure to environmental pathogens.
- If high >220 DIM possibly over milking late lactation cows, contracting a contagious pathogen from other cows. Chronic cows may also fall into this group.
- If the trend from <30 to >220 is low to high target milking procedure and teat dipping, have equipment and vacuum levels checked at least every 6 months. An inconsistent dry cow program may also be a problem.

667

671

670

673

676

249

642 266 88 62 110 4/02

• A high percent of Cures and l

percent of New Infections wou

676 Infections may indicate the dry

56

LIMITED DISCLOSURE

106

AVG

674 • A high percent of New

Sold 101 80 +3.2 14604 102 79 +5.0 Shipped 110% 75 +5.5 Value 90 \$2416 0.77

nfected LS Cows 0,1 19 2.7 23 26 51 3.40 24 27 \$/cwt | 15.00 60 43 21 230 28 26 3. 1

Numbei

SCC

417

%

		Yearly SCC Summary											
	4	Lact	% Infected by DIM										
200			< 30	П	30-220	> 220	l						
73		1	50	П	25	22	l						
81		2	21	П	27	41	l						
68		3+	38	П	40	44	l						
74		All	40	Ш	30	34	1						
BASED ON 2228 SAMPLES													

Production Averages

Changes in SCC Status									
Fresh vs	Last Dry Off	Current vs Last Test							
Cures 24%	Chronics 1 2%	Cures 1 0%	Chronics 18%						
Negatives	New Infections	Negatives	New Infections						
50%	1 4%	62%	1 0%						
ACED ON	102 COWS	BASED OF	1 220 COWS						

Current SCC Evaluation

J										Qua	inuty						Quai	ıty
ram may also be a problem.							Milk Cows	Fresh Cows		DIM	Milk	MLM	% Fat	% Protein	Raw SCC	SCC LS	Number Infections	Fresh Infections
2	266	88	62	110	4/02/	10	234	27		178	70	76	3.6	3. 0	375	3. 0	65	8
6	• A hig	gh pero	cent o	of Cur	es and lo	w	227	44		169	63	70	3.9	3. 2	417	3. 4	74	15
ŀ	percent	t of Ne	w In	fection	ns would	i	209	30		176	65	72	3.8	3. 2	379	3. 5	71	10
	indicate the dry cow program is						212	18		102	62	70	1 1	2 2	524	3 6	01	6
, I			ny cc	w pro	grain is		213	32		Effe	ct of F	erce	nt Ne	w Infe	ctions	on he	rd SCC:	9
	effectiv			03.7			200	11		4-	7% lov	wers	SCC					5
	 A high percent of New 						207	07 26 8-12% maintains current SCC								8		
6	Infections may indicate the dry						205	26	>15% increases SCC							9		
2	cow pr		207	24		~ 13/0 HICICASUS SCC								8				
١.	attentic	_					194	16	ľ	165	73	76	3.6	3. 0	426	3. 4	55	3
3	attentic	,,,,,					201	18		160	73	74	3.5	3. 0	516	3 2	64	6
6	253	86	58	101	3/28/	0 9	218	33		157	68	71	3.9	3. 2	408	з <mark>T</mark> h	e sum of	f Chroni

Further explanations and definitions on reverse.

DATA COLLECTION RATING (MILK) =

175

25

nics and New Infections should be below 20%. Under 20% designates the attempt to control spread is working.

Explanations and Definitions of SCC on the 302 Herd Summary

Current SCC Evaluation

- Schematic of where the herd currently is in regard to SCC and used to find out who and how bad the problem is. The information is categorized by first, second, and other lactation animals as well as an average for the entire herd.
- Linear scores of 0 and 1 are considered negligible with respect to mastitis. Scores of 2 and 3 are suspicious.
- Cows with a linear score above 4 (200,000) are considered likely to be infected with mastitis.
- Those above 7 (1,600,000) probably have clinical signs of mastitis and may have a significant impact on Bulk Tank SCC.
- Monthly SCC \$ Loss Dollars lost due to production loss. Calculated by using current linear score times yield loss times average milk price.

Year SCC Summary - shows the percentage of animals infected with a SCC over 200,000.

• Use to determine which lactation is the problem and when most infections occur

Changes in SCC Status – Compares animals' SCC status at the last test before dry off to their status at the first test after freshening.

- Fresh vs Last Dry Off
 - Negatives Not infected at dry off, not infected after fresh
 - New Infections Not infected at dry off, infected after fresh
 - Cures Infected at dry off, not infected after fresh
 - Chronics Infected at dry off, infected after fresh
- Current vs Last Test Compares those animals at last test to the current test
 - Negatives Not infected last test, not infected this test
 - New Infections Not infected last test, infected this test
 - Cures Infected last test, not infected after this test
 - Chronics Infected lat test, infected after this test
- Goal: Have more cures than new infections for both Fresh vs Last Dry Off and Current vs Last Test

Production Averages - Right

- Raw SCC The Raw SCC is weighted by pounds of milk, this value should be very similar to the bulk tank test. Unless high SCC cows or quarters are excluded from the bulk tank, then bulk tank will be lower.
- SCC LS Herd average linear SCC may be compared to previous months, especially the preceding month and the same month one year earlier. An increase in SCC score indicates that subclinical mastitis is becoming increasingly more common and severe.
- Number infections Cows are considered infected if the Raw SCC is over 200,000. New infections
 occur when a cow is now infected and was not infected at the previous test.
- Fresh infections Count of fresh cows this test that are infected.
- Number new infections Count of cows over 200 this test that were under 200 last test including fresh
 cows
- Percent New Infections Percent of total infections that are new this test.

41-99-0010 **MINNESOTA DHIA SAMPLE HERD**

Test Date: 04-15-2010

Processed: 04-16-2010

Page 1 of 1

Test T	Breed	
31	DHI AP	НО

	ay Milk Expectd	Actual Prev C		Cow		%of Tank	DIM	Lact	Log SCC	Lact This	Avg Last	#> 200K	#SCC Tests	Prod Index	MUN	Pro %	Total Solids
55	61	857	1493	718	Р	33%	183	3	6.9	6.2	4.2	6	6	75	8	3.4	
39	4 2	214	6 96	769	Р	2%	387	3	5.8	4.2	1.7	8	12	9.	11	3.8	
33	41	429	373	752	Р	4%	414	3	4.9	4.5	3.8	10	13	104	10	3.0	
89		y milk 55	pound	s !2			unts for		of .9	4.9	All 6 to	sts she	1		15	3.3	
37	with 14	93 SCC.		4	the		SCC fo	r this	.1	4.9	been o	ver 200	K. 9	103	10	4.1	
57	49	919	174	706		3%	296	3	3.8	4.5	2.0				10	3.5	
65	68	162	174	749		4%	239	6	3.8	3.5	4.3			ndex of 7 % of the			
83	84	132	162	727		4%	55	2	3.7	3.6	3.3		nerd pro		THINK GI	cavoi	age con
45	47	174	141	698		2%	433	6	3.5	2.8	1.5	1	14	123	9	4.0	
41	47	57	115	744		2%	285	3	3.2	1.5			8	102	11	3.5	
103			100	767		3%	14	5	3.0	3.0	4.0		1		11	3.3	
67	72	38	100	726		2%	125	1	3.0	2.2			5	91	6	3.0	
103	100	200	87	784		3%	43	4	2.8	3.4	1.7		2	90	9	2.7	
79	83	1493	76	717		2%	46	3	2.6	4.8	3.0	1	2	78	9	2.8	
99			76	709		2%	29	3	2.6	2.6	1.5		1		8	2.7	
85	101	107	76	777		2%	45	5	2.6	2.9	3.4		2	82	14	2.5	
69	71	57	66	754		1%	245	2	2.4	1.3	1.8		8	119	15	3.3	
45	41	76	66	761		1%	631	1	2.4	1.9		1	19	93	10	4.2	
53	46	107	66	734		1%	285	3	2.4	1.5	0.7		9	90	12	3.1	
85	81	57	57	710		2%	180	6	2.2	1.4	1.5		6	101	9	2.9	
71	69	87	50	740		1%	232	1	2.0	2.6			8	118	10	3.1	
85	85	20	38	755		1%	266	1	1.6	1.1			9	138	8	3.0	
67	56	66	38	725		1%	42	1	1.6	2.0			2	86	7	2.8	
61	63	20	29	790		1%	136	1	1.2	1.5		1	5	89	10	3.0	
37	43	20	29	692			174	1	1.2	1.8			6	70	5	2.8	
53	49	29	29	742		1%	230		1.2	1.2			8	93	11	3.5	
89	82	20	29	758		1%	179	2	1.2	1.2	1.1		6	111	7	3.1	
61		566	20	764			33	1	0.7	3.1		1	2		8	2.9	
67	71	20	20	735			202	l	0.7	0.9			6		10	3.4	
91	98	13	20			1%	157	5	0.7	1.5	1.2	1	5	110	13	2.9	
89	76	20	20			1%	135	2	0.7	0.6	1.3		5	96	8	3.0	
73	70	20	20			1%	198	1	0.7	1.1			7	104	9	3.2	
97	99	264	20			1%	89	3	0.7	2.1	2.1	1	3	95	12	2.7	
71			20				27	7	0.7	0.7			1		9	3.0	
				704			TF	_			2.2						
97		100	20				160	_		3.7			4	114		2.9	-
70		210		AVERAGE			186		2.5					100	10	3.2	
-	TF = Too	Fresh to 7	Test				N Cow	SCC	> 200,0	000 this	test						

Test Date:

total herd SCC will be

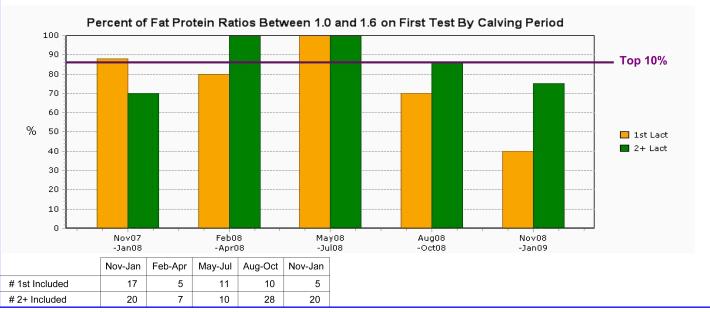
increasing.

04-23-2010 Processed: 04-26-2010

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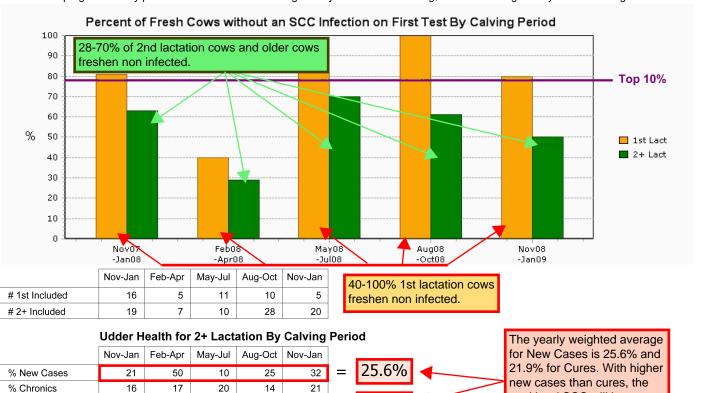
Fat Protein Ratio (FPR) Is it appropriate on the first test?

The ratio of milk fat% to protein% (FPR) can indicate metabolic problems resulting from an inadequate transition management program. A normal FPR of 1.0 to 1.6 indicates that cows began the lactation eating well, are maintaining bodyweight and have a low incidence of metabolic and infectious disorders. Although FPR does not indicate whether fat% or protein% is at the improper level, it is an alert for potential problems.



Udder Health What percent of the herd does not have an SCC infection on the first test?

Although there is no absolute threshold of SCC for subclinical mastitis, it is usually accepted that a cow with 200,000 cells per ml or 4.0 SCC score has mastitis. A high percentage of infected cows early in lactation indicates potential problems in dry cow treatment programs or dry pen conditions. Note: cured=high at dry off but low at calving, and chronic=high at dry off and calving.



21.9%

21

19

17

6

40

10

21

28

16

19

% Cures

Included

Test Date: **04-23-2010**Processed: **04-26-2010**

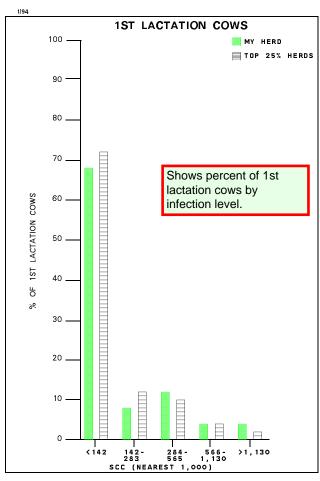
Page 1 of 1

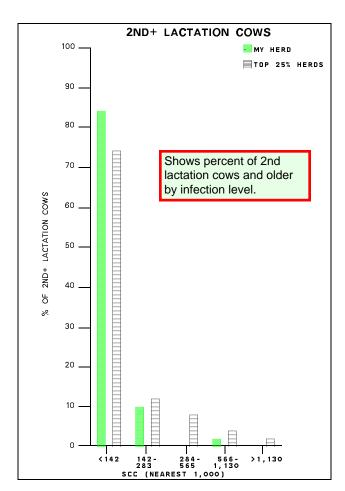
Sum of Test Day Weights	3780
Bulk Tank Weight Reported	3665
Milk Price Reported	14.35
Value of Bulk Tank	533

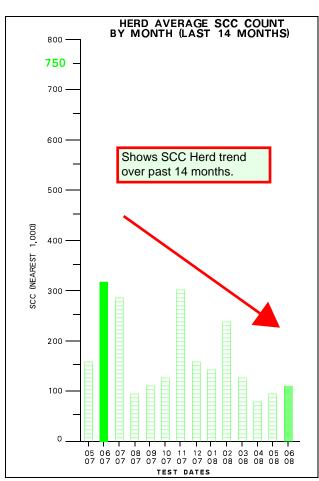
Number of Milking Cows	63
Milk Per Cow	61
SCC Average	714

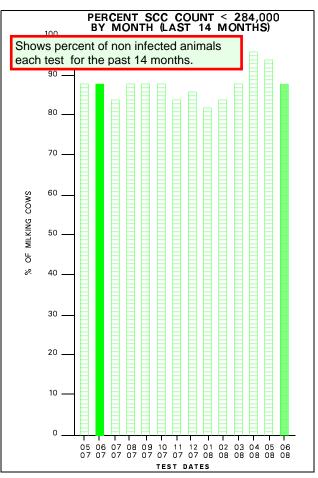
				Value	% of	With	out	Witho	ut
Barn		Cur.	Prev.	Adjusted	SCC in	This	Cow	This and Hig	her Cows
Name	Milk	SCC	SCC	by SCC	Tank	SCC	Income	SCC	Income
407	120	4526	429	16.88	20.1	587	531.91	587	531.91
436	72	6860	4851	10.13	18.3	592	539.02	458	527.24
356	34	686	566	4.78	8.6	657	535.07	396	528.08
380	407 and 436 ar	e chronic	l	5.07 407 and	436 combine	ed amount to	534.78	353	522.63
399	cows infected b	oth this	1715		he total herd		527.51	Removing just the will lower the hero	
431	test and last tes	ZIII		9.57	5.3	688	530.13	714 to 396.	
366	72	1838	1715	10.13	4.9	692	529.55	243	496.80
357	64	1838	2263	9.01	4.4	694	530.71	211	486.95
359	64	1493	650	9.01	3.5	700	523.78	185	482.98
384	92	857	132	12.94	2.9	710	519.76	164	468.64
475	58	1213	429	8.16	2.6	706	524.64	143	459.59
367	84	400	100	12.58	1.2	721	520.91	136	446.50
388	42	696		6.11	1.1	714	526.93	127	439.95
392	62	460	429	9.28	1.1	718	524.06	120	430.28
345	72	348	264	10.90	0.9	721	522.63	114	419.06
364	98	174	696	15.28	0.6	729	518.90	112	403.78
373	96	174	303	14.97	0.6	728	519.18	109	388.82
378	88	187	400	13.72	0.6	727	520.33	106	375.10
404	44	373	1493	6.66	0.6	718	526.65	102	368.24
419	34	400	200	5.09	0.5	717	528.08	97	369.45
362	76	174	429	11.85	0.5	725	522.05	95	357.39
397	66	187	100	10.29	0.5	724	523.49	92	346.92
412	20	606	492	2.91	0.4	715	530.09	87	343.74
426	46	246	246	7.08	0.4	720	526.36	84	336.44
405	42	246	174	6.47	0.4	719	526.93	80	329.78
374	50	200	283	7.70	0.4	721	525.78	77	321.84
369	50	187	115	7.80	0.3	721	525.78	75	313.91
389	42	187	1600	6.55	0.3	720	526.93	72	307.24
392	66	115	76	10.29	0.3	725	523.49	71	296.77
396	66	115		10.29	0.3	725	523.49	69	286.30
								1	

HERD CODE 41990010









Two herds - samples were taken from random cows after prep, but before milkers were applied (PRE), and after milking (POST) by stripping milk out from each quarter. The Meter represents the normal DHIA sample.

Cow	PRE	METER	POST
1	2475	296	4807
2	389	1128	1401
3	150	103	355
4	66	297	18
5	970	2197	102
6	56	72	47
7	143	18	67
8	52	27	66
9	3320	1687	6390
10	72	20	203
11	1614	3306	4399
12	715	1719	1812
13	1150	2242	3047
14	49	27	37
15	229	319	1065
16	113	109	215
17	1196	719	1526
18	396	193	708
19	25	56	250
20	66	122	244
21	1575	1733	386
22	238	62	217
23	937	272	1069
24	223	153	1021
25	5441	2475	5574
26	1790	170	1616
27 _	705	835	723
Average	895	754	1384