14th ANNUAL NORTHEAST OHIO REGIONAL DAIRY CONFERENCE



"The Hows & Whys of Quality Milk"

Speakers - Dr. Pamela Ruegg & Ken Vorgert

February 20, 2013

Buckeye Event Center Dalton, Ohio



Presented by the Dairy Veterinarians of the Killbuck Valley Veterinary Medical Association



Killbuck Valley Veterinary Medical Association

President: William Yost, D.V.M. Treasurer: Carlton Schlatter, D.V.M.

The Killbuck Valley Veterinary Medical Association is an association of veterinarians in private practice, teaching, research, and industry in the geographic area surrounding the path of Killbuck Creek. The association is affiliated with the Ohio Veterinary Medical Association at the state level, and includes veterinarians primarily in OVMA District 8; we also include some veterinarians from District 7 to the north and District 4 to the west.

The purposes of the Killbuck Valley VMA are to provide professional continuing education to our membership, provide a conduit for the membership to communicate with the OVMA, and provide public service as needed to our geographic area and local communities as our professional expertise allows.

Our annual dairy producer meeting is made possible with the generous support of local businesses and is a public service of our group, recognizing the importance of the dairy industry in our local geographic area as well as the state of Ohio in general. By our continued support of this type of educational meeting for Ohio dairy industry personnel, we of the KVVMA are striving to maintain and expand this important industry, insure the continued production of dairy products of the highest quality, and improve and protect the well-being of the dairy cow herself.

We welcome you to our 2013 meeting. We hope you find the meeting educational and stimulating.

14th ANNUAL NORTHEAST OHIO REGIONAL DAIRY CONFERENCE

February 20, 2013 Buckeye Event Center Dalton, Ohio

"The Hows & Whys of Quality Milk"

SCHEDULE

9:00-9:55 AM	Registration, Continental Breakfast, Visit Exhibits
9:55-10:00 AM	Welcome, Opening Remarks, Introductions - William Yost, D.V.M./ KVVMA President
10:00-10:45 AM	Dr. Pamela Ruegg - "Making great milk - strategies for keeping your bulk tank low"
10:45-11:15 AM	Break & Visit Exhibits
11:15-12:00 PM	Dr. Pamela Ruegg - "The great milk discussion continues"
12:00-1:15 PM	Lunch (provided) & Visit Exhibits
1:15-1:30 PM	Scott Higgins - "Dairy Promotion Check-Off update"
1:30-2:15 PM	Ken Vorgert - "Somatic cells and the effect on dairy products"
2:15-2:45 PM	Break & Visit Exhibits
2:45-3:30 PM	Dr. Pamela Ruegg - "Managing people and cows to minimize mastitis"
3:30 PM	Adjourn

SPEAKERS

Dr. Pamela Ruegg

Dr. Pamela Ruegg is a professor and extension milk quality specialist in the Dept. of Dairy Science at the University of Wisconsin, Madison. She received her undergraduate degree and D.V.M. from Michigan State University and completed a residency in Food Animal Herd Health and Reproductive Management and Masters of Preventive Veterinary Medicine from the University of California - Davis.

Dr. Ruegg is active in a number of industry organizations and is a past-president of the National Mastitis Council. Her extension program is focused on developing programs that help farmers maintain healthy cows, and improving milk quality and safety on dairy farms. She maintains a popular milk quality website, http://milkquality.wisc.edu with a goal of providing practical tools and resources to help farmers, consultants and veterinarians.

Among many of the awards she has received, the Wisconsin Veterinary Medical Association named her the Wisconsin Veterinarian of the Year in 2005. Dr. Ruegg enjoys consulting on complex animal health issues on dairy farms and is a frequent speaker at dairy and veterinary conferences in the U.S. and internationally.

Mr. Ken Vorgert

Ken Vorgert has been Chief, Dairy Grading Branch for the USDA since May 2008. He grew up in small towns in central Minnesota where his father managed dairy plants. In 1976, Mr. Vorgert earned a B.S. in Biology with a minor in Chemistry from the University of Minnesota.

He served as a USDA fee and resident grader working in butter, dry milk powder and cheese plants. Mr. Vorgert has worked as field supervisor, assistant National Field Director, National Director for USDA, Agricultural Marketing Service, Dairy Grading Branch.

Mr. Vorgert is currently the USDA Representative on the National Conference on Interstate Milk Shipments (NCIMS) Executive Board and the Board of Directors for 3A Sanitary Standards Inc.

Ken has served as an expert judge in both World and the United States Cheese Contests.

We gratefully acknowledge the support of our sponsors, without whom this meeting would not be possible.

Please take time to visit with those sponsors who are present today, and thank those who are not present when you encounter them.

The veterinarians of the Killbuck Valley Veterinary Medical Association would like to thank all of our sponsors for their continued support of this educational effort for the dairy industry. A strong dairy industry is a tremendous asset for all of us in northeastern Ohio.

We would like to thank the Dairy Farmers of America, DMS and Smith Dairy for their generous donation of milk and ice cream.

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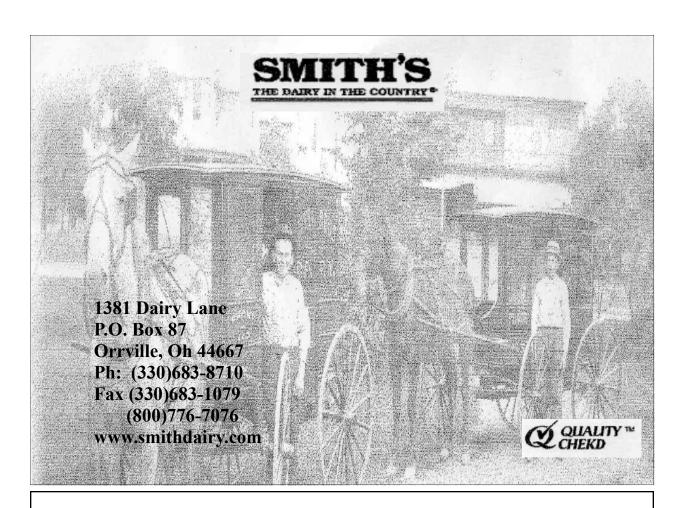
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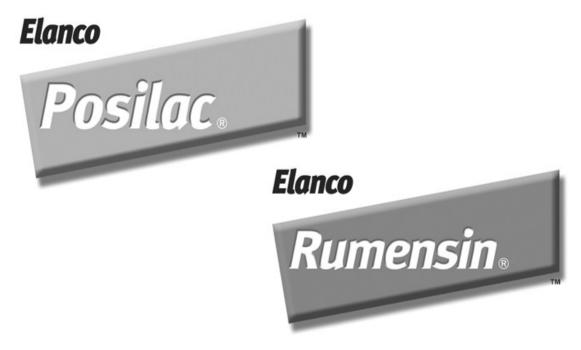
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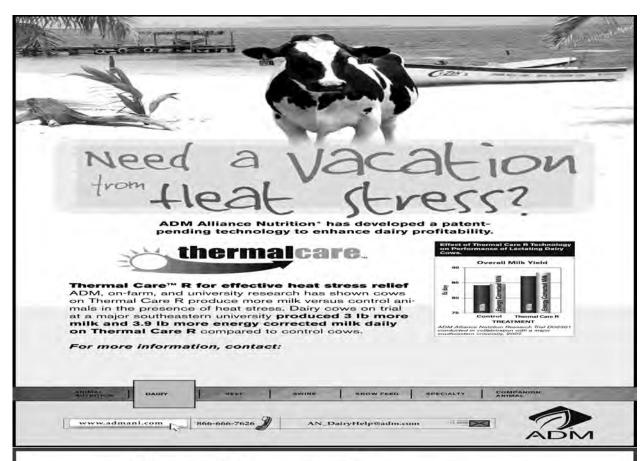
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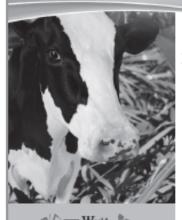
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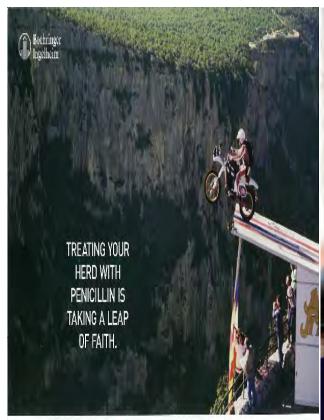
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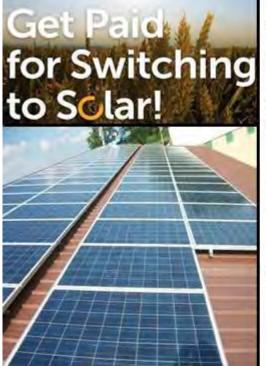


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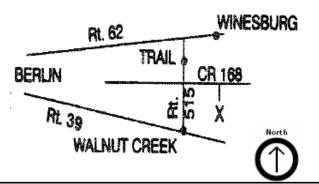


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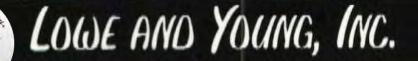














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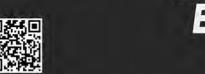




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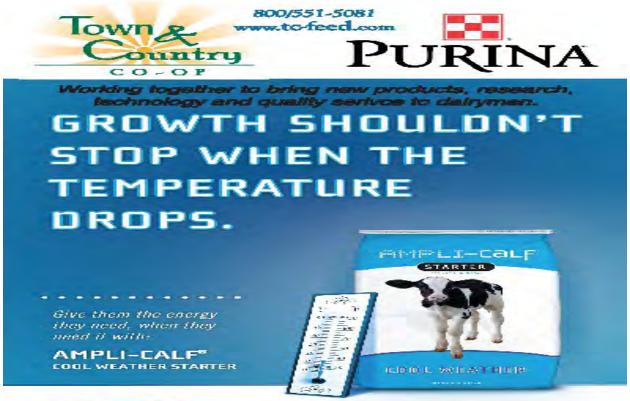
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Making Great Milk – How to Keep your Bulk tank SCC Low Panels Buses DVM MPVM University of Misconan

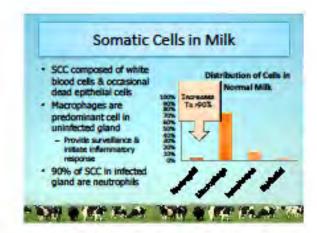


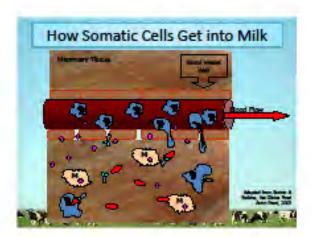
What is Mastitis?

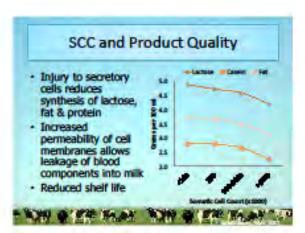
- Bacterial infection of Subclinical mastitis the udder – Mik appears norma
- 99% occurs when bacterial exposure at teat end exceeds ability of immune defenses of cow
- Mik appears normal but contains excessive numbers of inflammatory cells
- This milk can be sold for human consumption
- · Clinical mastitis
 - Visual abnormalities of milk
 - Cannot be sold for human consumption



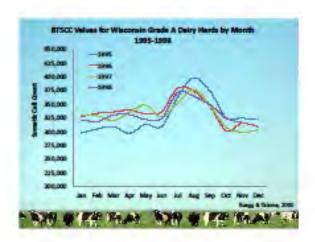
Somatic Cells in Milk Indicate the Presence of Cows with Subclinical Mastitis Infections PERSONAL PROPERTY OF A PARTY OF THE PROPERTY OF Somatic Cells are NOT Affected by: Milk yield - Unless <15 lbe day Stage of lactation - Unless there are more infected cows in later lacta Nutritional management - Unless diet results in very loose feces and dirtier cows Other cow diseases Somatic Cell Count Are Affected by · Management practices that expose teats to bacteria that cause mastitis - In milk that came from infected udders of cows Exposure to contagious bacteria - In the environment that the cow lives in Exposure to environmental bacteria THE TANK OF THE PARTY OF THE PARTY OF







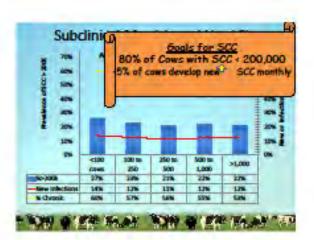


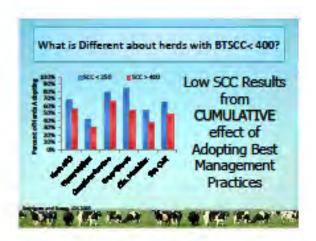


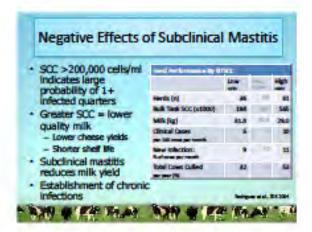
Bulk Tank versus Individual Cow SCC BTSCC measures the combined SCC of milk put in the tank Easily manipulated Withholding of quarters Detection of clinicals Use or lack of use of forestripping Individual cow SCC values are REQUIRED for solving herd mastitis problems

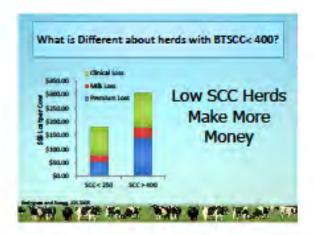
-	SCC(+1000)	Mik (ba)	WTSCCAverage
-	100	50	5000
	100	50	5000
3	100	50	5000
4	100	50	5000
5	100	50	5000
6	100	50	5000
7	100	50	5000
	100	50	5000
9	100	50	5000
10	3000	-150	450000

	Preva	lence of l	niection
0=	SCC (x0000)	Milk (Ba)	WESCE Average
Ŀ	500	90	25,000
2	500	50	25,000
3	300	90	25,000
4	300	50	25,000
5	500	90	25,000
6	500	50	25,000
7.	300	50	25,000
A .	300	50	25,000
9	300	50	25,000
10	100	150	15,000

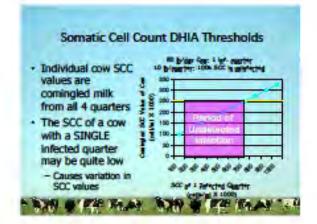




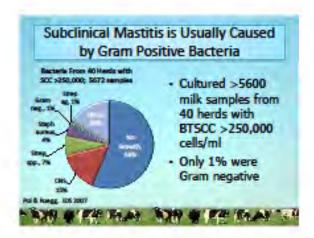




SCC of Milk from Healthy Udders is Low and Consistent SCC from uninfected quarters or cows is usually <200,000 cells/mi Many cows have SCC <100,000 cells/mi - bapedally 1* lecuson heres Survey of 4,213 bact, negative quarters - SCC of 20,000 cells/mi Cows with SCC > 200,000 cells/mi have 1 or mote quarters with subclinical massitis Heifer should be <100,000



Id	enti	fication of Subcli	nical Infec	tions
A	histo	ory of SCC is more i		than
		100000000000000000000000000000000000000	Healthy	New
2 PM. 3	4 4 4	A MITTALL OF A SILVER	3.0,0.0	
**************************************	Ma	astitis Cannot be M Individual SCC Val		





Consistently High BTSCC usually indicates Presence of Contagious Pathogens

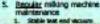
- Greatest Bulk Tank SCC is usually caused by presence of cows infected with
 - Staph aureus
 - Strep ag
 - Mycoplasma bovis
- Obtained 4 bulk milk samples from each of 126 herds
 - 1 sample every 2 weeks for 2 months
- S aureus & SCC
 - No detection: 1 of 4 BTM +: 253,000
 - 244,000 - 2 of 4 BTM +: 327,000
 - 3 of 4 8TM +: 361,000 4 of 4 8TM +: 458,000



Key Contagious Mastitis Control Practices

- Effective test dipping
 1. 97% of forms dip but many do not dip effectively
 Dry cow therapy of all quarters of all cows
 To these subdivises infections present at dry off
 Appropriate treatment of chinal coses
 Reced all cases
 Honlier determes

- 4. Culling discretally infected cows
- Prouder milking machine

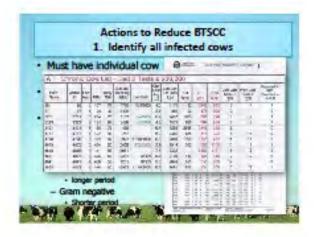


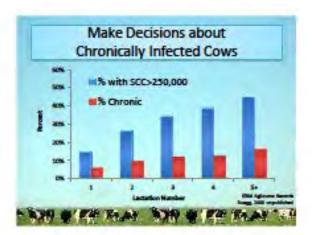


Reducing BTSCC is Based on Finding Infected Cows and Making Decisions about their Futures











Treatment of Subclinical Mastitis



- It is almost NEVER cost effective to solve subdinical mastitis problems through treatment during lactation
- **EXCEPT for** Streptococcus agalactia

HER HAT TON BEFORE THE

Segregation of Chronically Infected Cows

- Spread occurs when healthy udders contact infected milk from chronically infected quarters
- Separate healthy cows from infected cows
- or use of separate milking equipment
 Must use SCC values to
- identify infected cows and milk last



THE PLAN

Permanent Dry Off of Selected Quarters

- Chronically infected quarters can be permanently dried off
- Reduced shedding of bacteria from infected glands
- Reduces shedding of SCC into saleable milk
- Requires veterinary supervision

 - Extralabel drug usage



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т.		Market Street	200	100	100		THE RESERVE	200

Isolation of Infected Quarters

- Principle is to reduce cross-contamination of equipment and to reduce SCC of bulk tank
- *Quarter Miller* allow collection and discard of high SOC milk from infected quarters Quarter millers do NOT:
- - Cure meetrs
 Carnot be used to keep antibiotics out of bulk fank

 Antibiotics spread through the whole udder and contaminate all milk
- Must be washed and dried after each milking







Quarter Milking

- · A band aid
- Useful to manage bulk tank SCC for short term
 - While implementing long term preventive strategies
- Can be risky
 - Keep infected cows in herd
- Quarter milk
 - Cows with chronic long term infections that are very high producers
 - Mild clinicals that have failed to respond to treatment
 - Single quarter subclinicals



Actions to Reduce Bulk Tank SCC 2. Record all clinical cases in Cow Record

- . Keep them out of the bulk tank
- Low clinical rate & high BTSCC tells you dinicals are not being detected
- · Keep clinical mastitis records for each cow



WHITE THE PLANT	W .	多种 形	
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Each farm needs a Milk Quality Plan It is always more cost effective to prevent mastitis than to treat The development of a chronic cow is an indication of failure - Prevention - Detection - Treatment Typical Strategy for Reducing BTSCC

- Perform bulk tank cultures to look for
 - Staph aureus
 - Strep ag
- Mycoplasma bovis
- Review monthly individual cow SCC
 - ID all cows with SCC>200,000 cells/ml
 - ID cows with chronically high SCC
- Culture ¼ samples obtained from CMT+ quarters of cows with SCC >200,000
 - At least 25 cows
- Review clinical mastitis records
 - ID chronic cows
- Make a milk quality plan based on the data



Solving Mastitis Problems

- Technically easy
- Keep becteria away from teats
- · Find the infected cows
- Decide what to do with them
 That then or DVI then
 Determine why they get
 Infected
- What is the source of infection
- Deade how to stop new infections
 - What management changes need to occur?





Solving Herd SCC Problems is Hard to Do Alone Sentify a farm management team of advisors to help solve the problem Have a monthly meeting of the advisors to focus specifically on SCC Develop Goals for SCC Actions it ways to assess the actions recognitions for each stem Throat Dates to complete the actions Throat to meet to evaluate progress Bulk tank somatic cell count limbs will be falling Herds can achieve improved BTSCC by adopting recommended best management practices Key to improved BTSCC is to Forw which cows are infected with auditrioid measure Prevent new infections THANKS!

NOTES

















Marketing

- Certification services are provided to assist in the export of dairy and related products
- The Dairy Grading and Standards Branches of AMS work with other government agencies and dairy trade associations to resolve issues and provide a frame work that will open foreign markets to U.S. dairy products



Marketing In 2012 the Dairy Grading Branch issued 26,500 certificates to over 100 countries U.S. exports in 2011 - 70% of lactose - 8% of butter - 67% of dry whey - 49% of nonfat dry milk - 4.7% of chaese

EU Export Certification EU REQUIREMENTS US REQUIREMENTS - 400,000 Somatic cells - 730,000 Somatic cells - 100,000 Bacteria - Grade A Milk - 100,000 Bacteria - Grade B Milk - 500,000 Bacteria

EU Export Certification New requirements began on January 1, 2012 The new compliance program applies only to companies that are manufacturing products for export to the EU Program provide a level of flexibility (derogation) for farms that exceed the EU requirements.

EU Export Certification

- Grade B firms must be tested at least 2 times a month for Standard Plate Count (SPC)
- Rolling mean over a two month period
- Rolling mean must be in compliance with EU requirements (100,000 cells per ml)







EU Export Certification

- All farms must be tested once a month for Somatic Cell Count (SCC)
- Rolling mean over a three month period
- Rolling mean must be in compliance with EU requirements







EU Export Certification

- Milk supplier must provide a Certificate of Conformance (COC) to allow AMS to link the raw milk to the finished product.
- Milk supplier must notify AMS when milk in products that are certified for export to the EU exceeds EU requirements.









EU Export Certification

- Derogation A deviation under special circumstances
- Seasonal Derogation Farm is normally in compliance but due to seasonal circumstances goes out of compliance
- · Milk supplier must make request
- Approval process may take up to 5 days

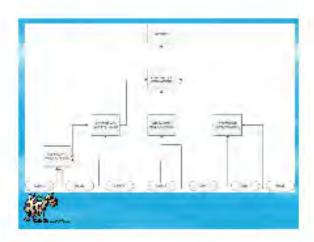




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	MATERIAL PROPERTY.
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Fees and follow-up For each derogation AMS will charge an administrative fee of 2 hours (Current hourly rate is \$68 for a total of \$136) Records review Each year AMS reviews each exponer and mace the mill products back to the case milk.







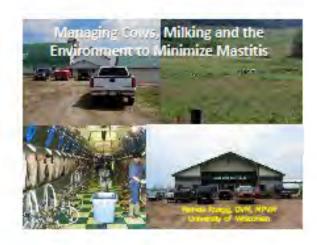


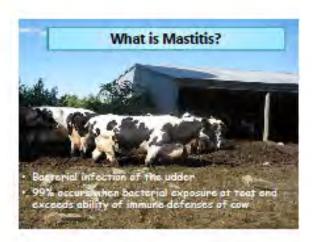


AMS Dair	y Website
http://www.ams AMSv1.0/Dairy	CONTRACTOR OF THE PARTY OF THE
	MAS

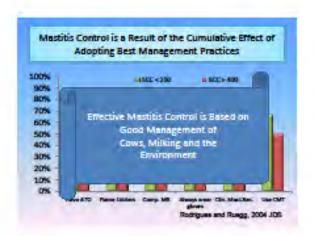


NOTES









Improving Milk Quality Requires Managerial Skills

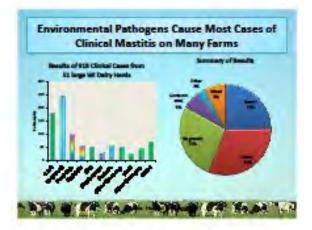
- Assess the current situation
- Develop goals for mastitis
- Implement à measure actions
- Assign responsibility
- · Determine results
- · Identify next steps
- Managing for milk quality requires
 - Records
 - Data
 - Regular planned time for managing
- We must have effective monitoring systems in order to effectively manage mastitis





Monitoring Udder Health

- · What is the current · Monitoring preventive status?
 - How much mastitis is occurring?
 - · Clinical mastitis
 - · Subclinical mastitis
- strategies
- Does cow housing result in clean, dry teats?
- Is the Milking process offective?



Management Questions

- What is the incidence (rate of new cases) of chilical mastris? What around in a cases are severe (severity score a)? What are the most common bacteria that are causino chilical mastris?

- What are the current treatment urotocols?

 What are the current treatment urotocols?

 How many days is milk discarded as a result of treatment?

 How many cases:

 O' revite chances to the original treatment protocol

 D' experience recurrence of the case within the same lactation?

 What account of lactatino cows are beloo milked on less than 4
- What corcent of caws that experience chircal most it's are called in the same lactation or de:



Suggested Indices for Monitoring Clinical Mastitis

- Qualifying Statements
 - Most accurate assessments are ± level
 - Forms don't make most decisions at the ‡ level
 - Monitoring at the COW level is easier
 - often more procioted with actual farm decision making
 Appropriate time period will vary depending on herd size.
- · The most useful data is data





Ma	stitis				
 Many mostifis pathogens remain subclinical for long periods of time 	Amount		o recent		
 Clinical episodes are the tip of the mastitis 		after Cottober 2000			
iceberg	manus I	199	- 1		
The prevalence of	October 165	(47%)	212	400	
subclinical mastitis is a function of:	140	364 (36%)	3662	180	
- Character des current		453	3664	COM	
- Duration of Infection • Influenced by freedment, culling and sportageous			-	10 mary 1	

Management Questions for Subclinical Mastitis

- What is the prevalence of cows with subclinical mastitis?
- · What is the incidence of subclinical mastitis?
- What are the most common bacteria recovered from cows with SGC values >200,000 cells/mi?
- What proportion of subclinical cases are chronic (persist more than 2 months)?
- What is the prevalence of subclinical mastitis by days in milk and parity?
- What proportion of cows have subclinical mastitis at the first DHIA test (first month in calving)?



Key Performance Indicators

Indicator	Calculation services	God
Previouse (proportion of currently affected)	Number of cost with SCC>000,000 cells/mi/number of cost with SCC	<15% of factating cown
incidence (vew infections)	Humber of cases with 5000-2000-2000-elaying for the float time in the time-period/number of cases with 5000 below 2000,000 in previous time period	cSN if determined based on 1=SCC>2006 in the lactation up to 8% if based on month to month changes in SCC
havelence at 1* DHA text	Number of coses with SCC>200,000 pellular at 1" monthly test/number of coses with 1" SCC tests.	<sn 1"="" lactation<br="" of=""><10% of lactation 2+</sn>
freesience at lett DHA text below dry off	Number of cover with SCC>100,000 cells/mil at lear test before day off/number of cover with last DHA test	cities of come with last test date SCE

Managing Milking

Milking Technicians Must Be Trained · Data from 101 WI

- forms
- 377 cowe per hard SCC = 335,000 cell/ml
- High adoption of best management practices

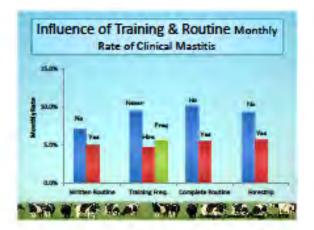
 - 89% milkers always
 sear gloves

 - 97% always postdip

 - 96% always predip

 - 89% always forestrip
- Training was rare
 - Frequent: 22% At hiring: 49% Never: 29%
- · Only 41% had written
- milling routine
- WI stall barns (n = 78) 86 cowe per hard
- 54% never train milkers



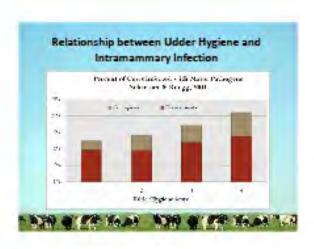


oping luces bacterial exposure 5-6X tripping y method to find mild clinical milits uate drying of teats dry towel per cow
tripping y method to find mild clinical milis uate drying of teats
y method to find mild clinical mits wate drying of teats
ititis uate drying of teats
of the format in the control
tive post-milking teat
y Attachment minutes after stimulation

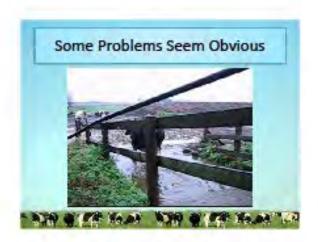
-	And by the	Suggested Steal		
Street, Square,	Average claw roccum	25-42 k/s		
	Mainum des vacuum fuctuation	< 20kPa		
	Away nik for	2.3-4.0 kg/min		
	Use of manual mode of militing (when automatic detachers are used)	<st militings<="" of="" td=""></st>		
	O phase of the pulsation cycle	Ar lead 150-200 ma.		
	Fremilling text dip contact time	it) seconds before dry off		
	irep-lay time (time from climalation to colling unit attachment)	60 to 120 seconds.		
	Militing unit attachment time	i to il minutes (depending on cells production)		
	% of texts with at least 75% coverage with good-crilling text dip	140%		

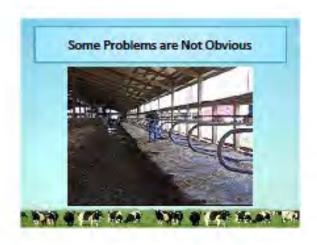


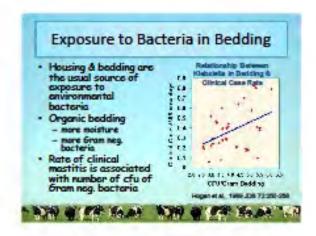


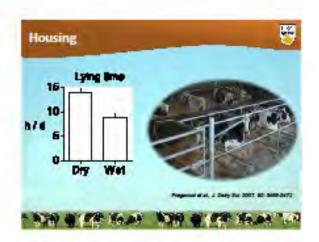














Factors Influencing Exposure to Mastitis Pathogens

- Housing, handling & nutritional management
- Animal size & conformation
- Premilking cow preparation





Solving Mastitis Problems

- Technically easy
- Keep bacteria away from teats
- Paride what to do with them
- Decide what to do with them
 Treat them or EAT them
- Determine why they get infected
- Decide how to stop new infections
 - What management changes need to occur?







Take Back to the Barn

- · Mastitis should be easy to control
- Keep Bacteria Away from Teats Control of Mastitis is a Result of the Cumulative Effect of many decisions
- Keep cow teats clean
- Reduce exposure to bacteria in housing
- Train personnel regularly to
 Use a complete milking routine & handle cows gently



NOTES

14th Annual Northeast Ohio Regional Dairy Conference <u>EVALUATION</u>

Please respond by marking numbers 1 through 5 according to the following scale:

	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree		
The Buckeye Event Center is a good venue in which to hold this event.	1	2	3	4	5		
The meal was very good.	1	2	3	4	5		
The meal was served quickly.	1	2	3	4	5		
There is sufficient room for viewing the exhibits.	1	2	3	4	5		
There is adequate time allowed for viewing the exhibits.	1	2	3	4	5		
There is too much time allowed for viewing the exhibits.	1	2	3	4	5		
Dr. Ruegg's presentation was informative and useful.	1	2	3	4	5		
Dr. Ruegg's presentation was practical and easy to understand.	1	2	3	4	5		
Mr. Vorgert's presentation was informative and useful.	1	2	3	4	5		
Mr. Vorgert's presentation was practical and easy to understand.	1	2	3	4	5		
I learned at least one new concept today that I will use on my farm.	1	2	3	4	5		
I prefer to have two primary speakers for this event.	1	2	3	4	5		
I prefer to have only one primary speaker for this event.	1	2	3	4	5		
What comments do you have about Buckeye Event Center?							
What comments do you have about the catering service?							
What comments do you have about the speakers?							
Please list any speakers or topics you would you like to see addressed at future meetings:							
Please list any suggestions you may have for improving this conference:							
Have you visited our website at www.neodairyconference.org?	YES	N) O				
Please check this line if you are an exhibitor							

The members of the Killbuck Valley Veterinary Medical Association thank you for your participation.