

FACTS FOR DAIRYMEN

by N. Alan Bair Associate County Agricultural Agent



You, Timing and Oxytocin

Ever wished you could "beat" the milk out of a certain ornery cow? It just can't be done according to Steve Spencer, our PSU Dairy Specialist.

There is more to milking a cow than pulling four teats. Why can one milker get more milk out of a cow than someone else? Timing of the stimulation of the cow by the milker may be one of the answers.

Oxytocin (let-down hormone) is released by the pituitary gland at the base of the cow's brain upon proper stimulation. It enters the blood stream and shortly thereafter enters the udder. The presence of oxytocin causes muscles to contract around the alveoli or milk cells. Actually, the milk is forced out of these cells. If the cow is frightened or subjected to pain, adrenalin is released which is an antagonist to oxytocin. Thus, if a cow enters the parlor and is frightened, it is likely she won't have any milk for at least 30 minutes or until she calms down. This is why you need to be easy-going and gentle with your cows during milking. The effects of adrenalin can be felt in lower production if the cow is irritated by the man doing the milking.

Proper milking procedures involve washing the cow with clean warm water and then drying the

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OWNER - BREED	DAYS ON TEST	NO. COWS	% COW DAYS IN MILK	MILK LBS.	% FAT	FAT LBS.
J. Harold Musser & Son 36 GrH 7-10	305	15,881	4.0	639		
Elmer E. Kauffman Maryann RH 4-0	260	17,234	3.7	637		
William J. Aaron Poppy RJ 5-1	305	10,546	6.0	637		
Melvin L. Fisher Belle GrH 8-1	305	18,209	3.5	636		
John J. Lapp Doris RH 6-0	283	16,433	3.9	634		
Albert Breneman Laurel RH 4-6	305	15,070	4.2	634		
Joseph W. Best 36 GrH 5-10	305	14,280	4.4	634		
Ezra M. Martin Roxie RH 7-7	305	17,929	3.5	633		
Quelletal Farm 25 GrH 6-2	305	16,904	3.7	632		
Harold & Anna Engel Qualm RG 7-0	298	12,945	4.9	632		
Warren F. Bollinger 81 RH 3-7	305	16,925	3.7	631		
Ronald S. Kline 57 GrH 7-4	305	15,755	4.0	631		
J. Clayton Charlés Holly RH 3-7	305	15,469	4.1	631		
William F. Guhl 701073 GrH 4-1	278	15,167	4.2	631		
Leon S. Lapp Nancy GrH 4-10	305	18,108	3.5	630		
J. Eby Hershey Minnie RH 5-1	305	16,135	3.9	630		
Ellis D. Kreider R25 GrH 8-11	305	15,902	4.0	630		
Edgefield Farms Loran RH 2-9	305	15,523	4.1	630		

teats with a paper towel. This stimulates the cow to release oxytocin. The teat cups should be applied 30-60 seconds after the initiation of washing. At this time the concentration of oxytocin in the blood begins to build up and milk starts to flow.

After the oxytocin is released, it diminishes quickly. This is why it is important for the cow to milk out as rapidly as possible. Remember that the interval between stimulation and application of the teat cups should be short and constant each milking and Tender Loving Care is important.

OWNER - BREED	DAYS ON TEST	NO. COWS	% COW DAYS IN MILK	MILK LBS.	% FAT	FAT LBS.
Rufus G. Martin RH 25	28.0	89.1	55.2	3.8	2.12	
Ben K. Stoltzfus R&GrH 28	35.0	96.6	57.3	3.6	2.07	
Stephen J. Stoltzfus R&GrH 24	36.0	99.3	58.0	3.5	2.05	
J. Z. Nolt RH 28	35.2	82.6	55.3	3.6	2.00	
Arlene S. Longnecker RH 29	35.8	96.1	50.9	3.9	1.96	
Raymond & Louise Witmer RG 29	63.2	96.9	39.3	4.9	1.93	
Nelson E. Martin RH 27	40.6	85.1	48.2	4.0	1.91	
Nathan E. Stoltzfus RH 22	60.0	93.9	48.1	3.9	1.86	
Henry B. Leaman R&GrH 40	31.3	91.9	46.4	4.0	1.86	
Jonas B. Lantz R&GrH 29	25.4	91.0	50.1	3.7	1.86	
David B. King R&GrH 35	31.1	92.4	49.4	3.7	1.84	
Roy H. & Ruth H. Book R&GrH 31	45.2	91.9	46.8	3.9	1.83	
Lancaster Mennonite Hospital R&GrH 34	87.8	91.6	50.0	3.6	1.82	
Henry E. Kettering RH 29	55.0	85.4	47.3	3.8	1.82	
John B. Stoltzfus Jr. R&GrH 33	27.2	92.6	47.5	3.8	1.80	
Allan R. Shoemaker R&GrH 32	37.0	93.5	49.2	3.7	1.80	

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Egg program hatched

A proposed national promotion program for 1976 was one of the main discussion topics at the Executive Committee meeting of American Egg Board, according to Wentworth Hubbard, AEB Chairman, and Hubbard Farms, Walpole, New Hampshire.

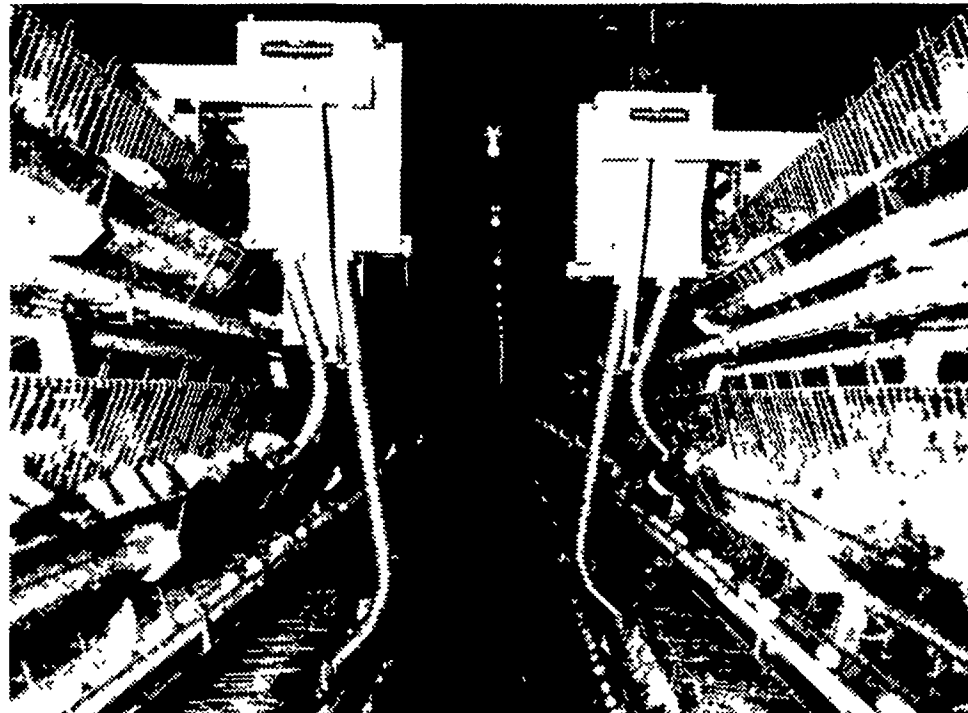
Entitled a "Golden Opportunity" the new program will be presented publicly for the first time at AEB's Board of Directors meeting, September 9-10 in Chicago. The program was recommended to the Board by the Executive Committee and includes a provision to expand activities in advertising, education, merchandising, information and market research, if additional funds are available for promotion during the last half of 1976. These staff recommendations were presented by Richard Kathe, AEB president and James Huening, vice-president. A portion of this consisted of a prototype of a national advertising media plan

presented by Huening, and Bill Stein and Dave Seibel, senior vice-president and executive vice-president, Campbell-Mithun, AEB's advertising agency.

Revisions in expenditures were authorized by the Committee and will be implemented by the staff. Permanent changes in the budget will be confirmed by the Board at its next meeting. These changes reflect savings in personnel and operating expense without materially effecting program performance, and are in keeping with the same adjustments required of other companies and organizations in the poultry and egg business, Kathe stated.

PIN-HEADED
"Oh dear!" sighed the distraught wife as she was dressing for a night on the town. "I can't find a pin anywhere. Where do all the pins go to anyway?" "That's a difficult question to answer," replied a consoling husband. "Pins seem to be always pointed in one direction and headed in another."

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