

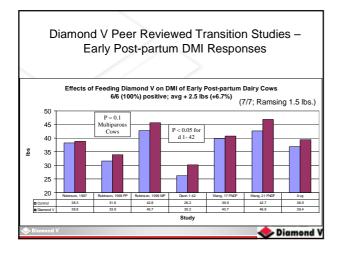
Areas we evaluate

- Forage quality
- Silo management
- Shrink
- Load preparation
- Refusals
- Feed delivery times
- Ration consistency

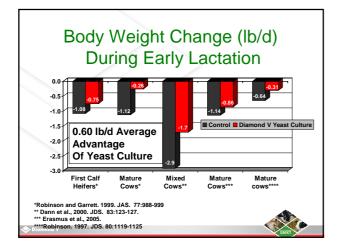
Why Diamond V and TMR Audits?

- It gets us on lots of good dairies
- The TMR audits have helped to improve TMR consistency, reduce shrink, and improve herd performance and feed efficiency
- Diamond V products improve production and feed efficiency







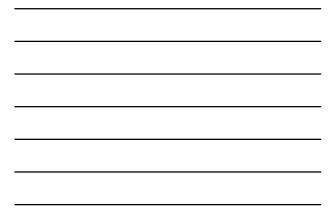




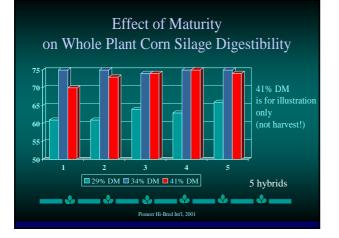
Item	Control	Diamond V	%
		Yeast Culture	Response
Milk, Ib/d	76.9	78.0	+1.4%
4% FCM, lb/d	68.7	70.5	+2.6%
DMI, Ib/d	50.9	48.7	-4.3%
Feed Efficiency	1.39 ^a	1.49 ^b	+7.2%



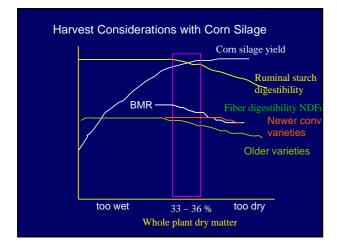
















 Hige 2nd 2007

 DM
 39%

 CP
 22%

 Bound
 1%

 Sol CP 61%
 ADF

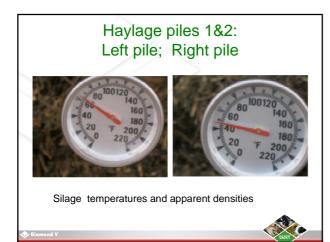
 ADF
 31%

 NDF
 39%







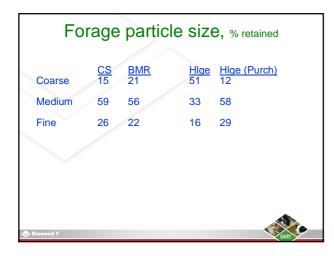




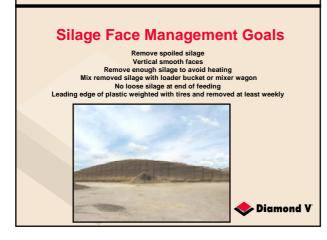
Forage quality

- Haylage density did not seem nearly as great as CS, which was probably the cause of the higher temps in the haylage (long particles, maybe not enough packing weight) Both had good fermentation odors The poor guality baylage at
- odors The poor quality haylage at the top of the bunker was being selectively removed and fed to heifers We would be happy to have a Forage Management Meeting with the crops crew 4
- .



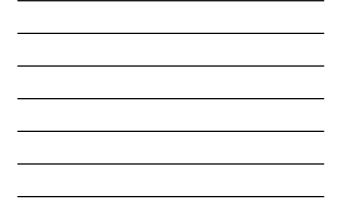






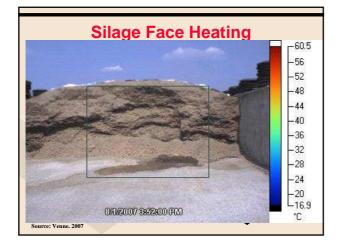




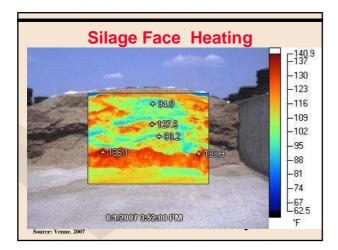




















- Fritsch makes a rugged, reliable defacer
- 5" teeth are standard; They have made models with 6" teeth if faster removal is necessary
- The largest one they make is a 10' model. They could make a larger one if your loader had adequate hydraulic oil flow (60 g/min through the couplers)

Video and additional info at: http://www.fritschequipment.com/facer.html



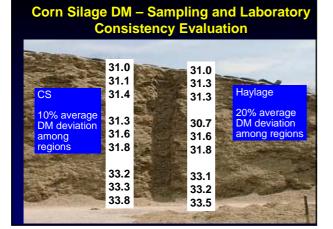
Excellent Face on Haylage Pile



• This dairy defaced, pushed the feed into a pile, and premixed it with the loader bucket. This reduces silage variation that occurs throughout the bunker, making for a much more consistent TMR.

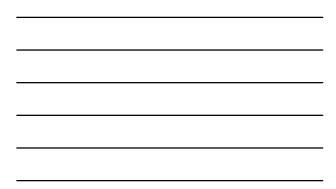
🔷 Diamond V







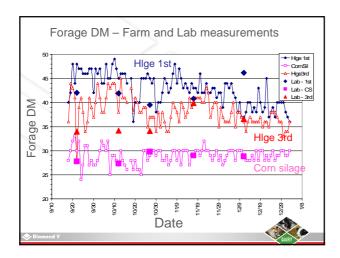




Reducing variation and increasing load preparation speed This dairy defaces when the feeder arrives

- This dairy defaces when the feeder arrives, loads the silage on the the feed truck, and briefly mixes it as the the silage is moved adjacent to the commodity building
 Now the feeder can
 - Now the feeder can quickly and accurately prepare a load of feed with CS, HIge, grain mix, and corn meal





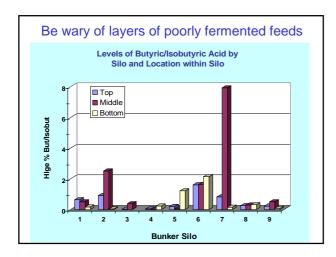




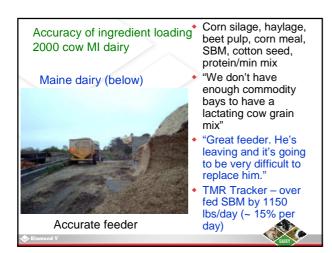






















	Lb. DM	<u>Lb. DM</u>
Corn silage	12	12
Haylage	2.0	2.0
Wheat straw	4.75	4.75
Corn meal	.75	
Whole cotton	.92	
Citrus-Soy mix	3.0	
Expeller SBM	2.7	
Minerals	.45	
Dry fat	.1	
Calcium sulfate	.15	
Limestone	.12	
Prefresh grain mix		8.75





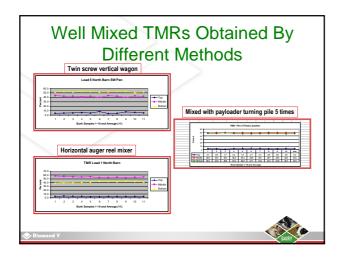












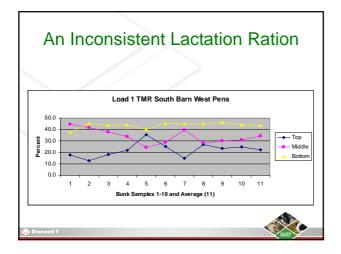






"Any ingredient or process that interferes with this will affect TMR consistency"





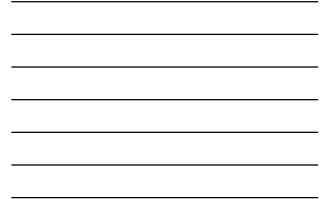








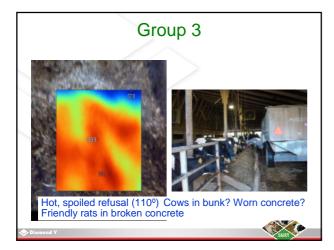






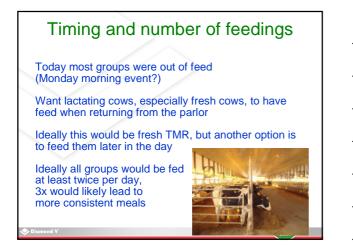


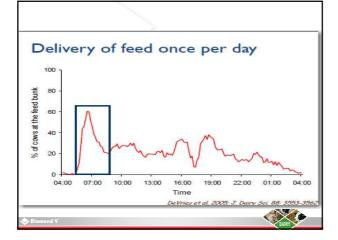




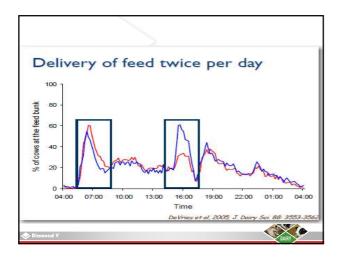




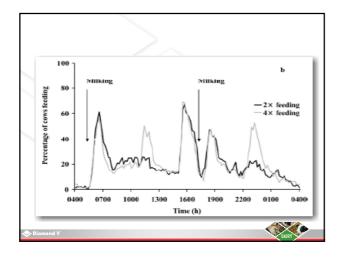










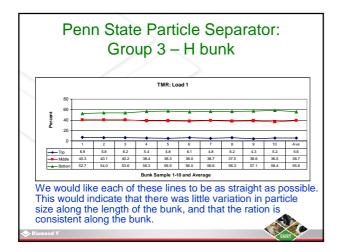






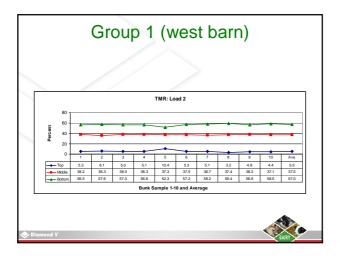




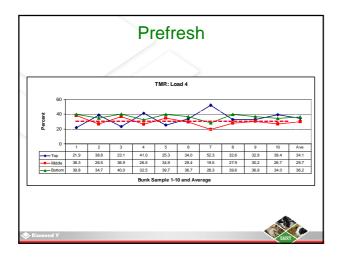
















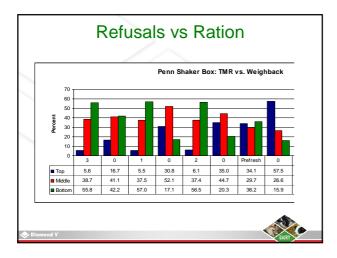




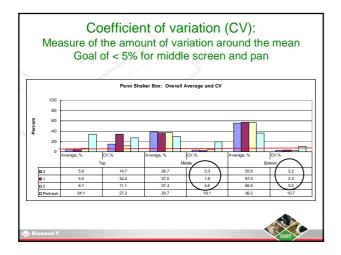




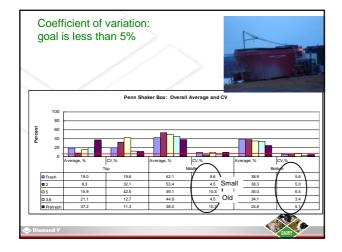








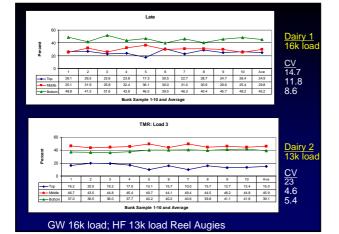


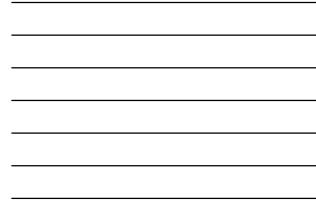




These next two dairies had the same make and model Kuhn Reel augie

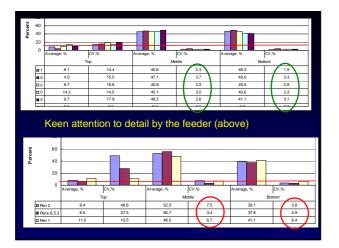






Data on the next slide are from two dairies with the same type of mixer – Kuhn Knight 4 auger







Proper load size and mixing reduces variation

- Mix time:
 - Adequate?
 - Excessive?
 - Recorded and controlled?
 - Should it vary with varying load sizes?
- Is the load too large for proper mixing?

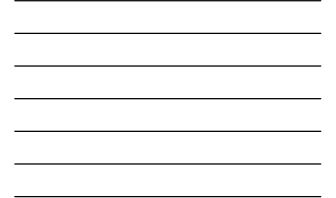


Contributing Factors to TMR Variation

4 TORRE

- 1. Silage face management
- 2. Premixing forages
- 3. Loading accuracy
- 4. Loading liquids
- 5. Ingredient inclusion amount
- 6. Ingredient mix order
- 7. Mixing Times
- 8. Equipment Wear
- 9. Hay Quality & Processing
- 10. Unlevel TMR Loading
- 11. Grain Particle Size Variation
- 12. Delivery Times







Consider bin storage for light weight, expensive ingredients, or pelleting









The bin approach – all concentrates in bins. Extended spouts with shade cloth on the walls. Advantage – look at all of the wasted feed (!) Disadvantage – pay more for auger delivery

Improving Accuracy and Reducing Shrink With Electronic Feed Monitoring Systems

Feed Watch, EZ Feed, TMR Tracker, Feed Supervisor

D. I

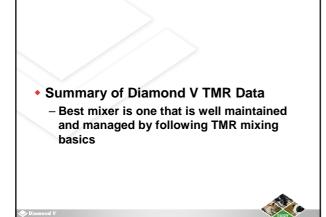
Scale head

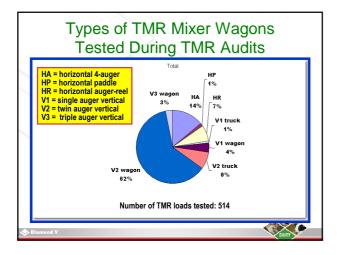
Display



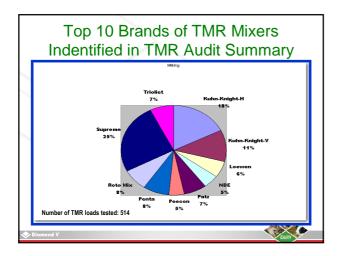
Software Wireless modems







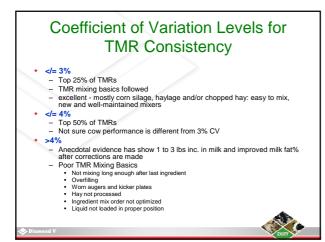






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Penn State Screens		
ottom		
2.88		
4.04		





NY Dairy - Recommendations

- Excellent silage management and feed preparation
- Limited opportunities to further reduce shrink
- Feeding more times per day may have
- benefitsH bunk needs to be repaired
- PSPS coarser?
- Prefresh mix longer
 - New knives???, or process the hay more before adding it to the mixer



