

Maximizing Dairy Feeding Software

Nik Ver Steeg



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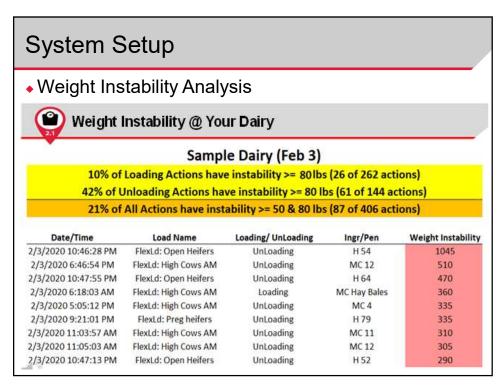
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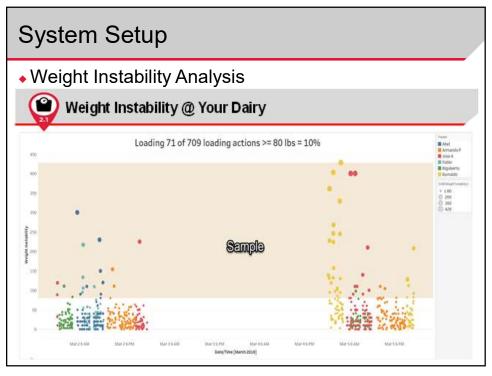
System Setup

- Weight Instability
 - Analysis
 - ◆ Reducing Weight Instability
 - Equipment Training
 - Using Motion
 - Loading Procedure Training
- Increasing Weight Accuracy
 - Calibration

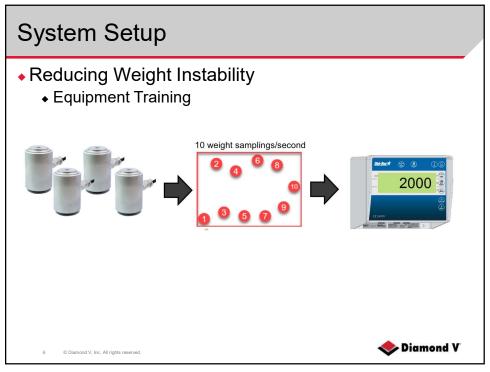
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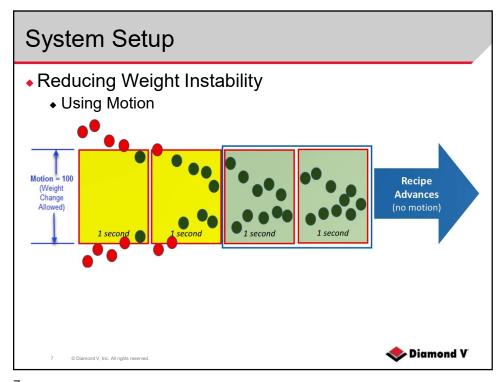






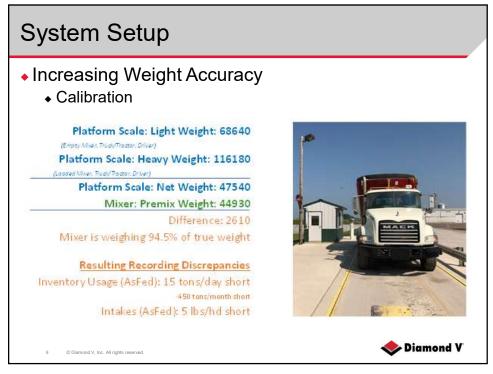


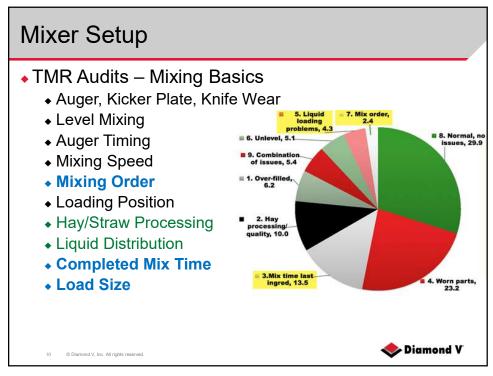


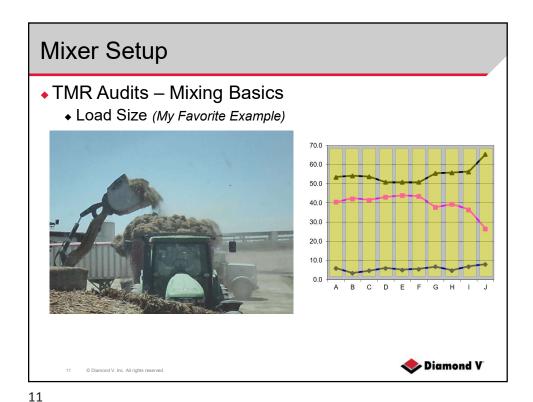


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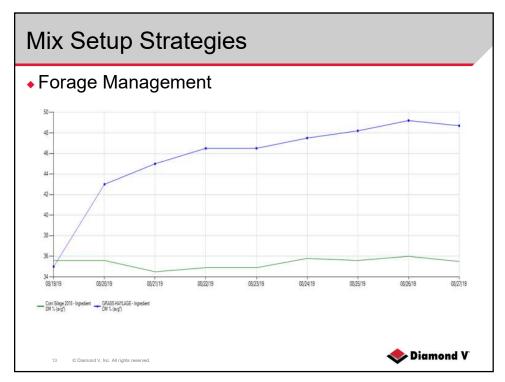


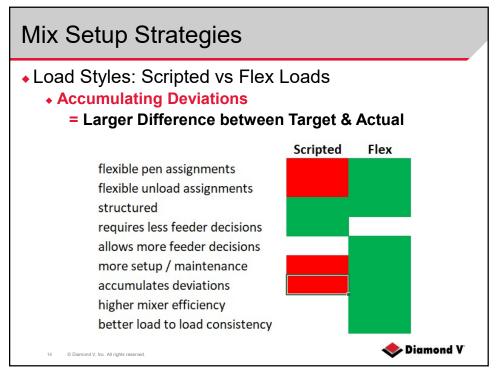


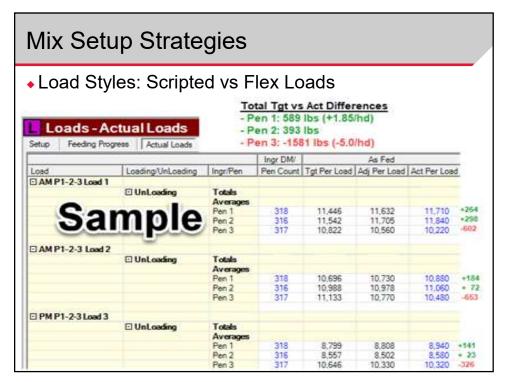
Mix Setup Strategies

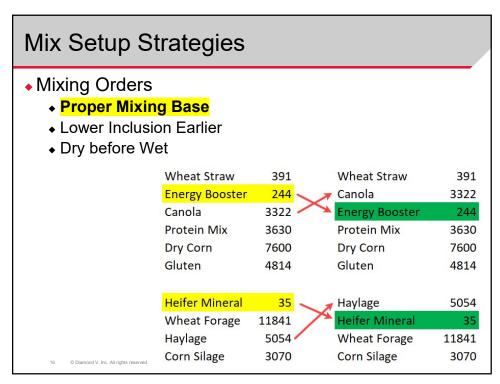
- Forage Management
 - ◆ Face Management
 - Expose as little as possible
 - Mix today's forage to reduce Nutrient & Dry Matter variability
 - ◆ Sample Dry Matters regularly
 - Enter Dry Matters into the feed software!!!

Corn Silage			DmFed (lbs/hd)		CP (lbs)		NE (Mcal)	
	DM %	AsFed (lbs/hd)	Actual	Difference from Formulation		Difference from Formulation		Difference from Formulation
Formulated	29.6%	75	22.2		1.75		17.3	
Dry Pocket	35.1%	75	26.3	4.1	2.08	0.33	20.5	3.2
Wet Pocket (rain)	25.9%	75	19.4	-2.8	1.53	-0.22	15.1	-2.2
		li.						
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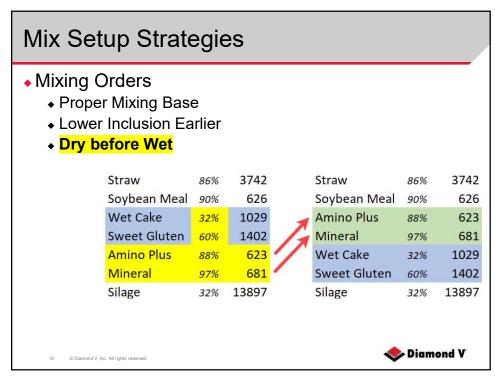






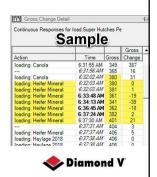
Mix Setup Strategies						
 Mixing Orders Proper Mixing Bate Lower Inclusion Dry before Wet 						
	Hay	769	Hay	769		
	Cottonseed	3805	Cottonseed	3805 4574		
	Canola	7750	Nurisol Bag	180 3.9%		
	Premix	6314 18638	Canola	7750		
	Nurisol Bag	180 1.0%	Premix	6314		
	Rolled Corn	10779	Rolled Corn	10779		
	Hay	2058	Hay	2058		
	Almond Hulls	1971	Almond Hulls	600 2658		
	Corn Silage	11606	Rumensin	146 5.5%		
	Premix	10964 26599	Corn Silage	11606		
	Rumensin	146 0.5%	Premix	10964		

Water



Mix Setup Strategies

- Low Inclusion Handling
 - Use Low Inclusion feed software settings
 - Count bags or use a hand scale
 - Shake the ingredients in slowly for 10-15 seconds
 - Double check that these ingredients are actually being added

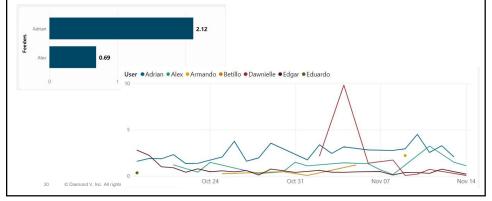


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Mix Setup Strategies

- Mixing Times
 - Use them (2-3 minutes)
 - ◆ Don't Over Mix
 - Verify they are setup correctly (no auto advancing)
 - Reporting: Over/Under Mixing Deviations



Feeder Performance

- Set & Communicate Goals
- Monitor & Report Performance

28150 dev

- Avoid Abstract Values
 - Percentages are too impacted by: Load Size, # of Ingredients, Low Inclusion Ingredients Totals 28150 dev

% dev

4.419%

High Premix	9150	50	0.546%
Haylage Mix	910	50	5.495%
Sweet Gluten	2050	50	2.439%
Silage 2018 SMALL	16040	50	0.312%
		200	2.198%
Totals	14000	dev	
	14000 4551		1.099%
High Premix		dev	
High Premix Haylage Mix	4551	dev 50	1.099%
Totals High Premix Haylage Mix Sweet Gluten Silage 2018 SMALL	4551 453	dev 50 50	1.099% 11.048%

200

High Premix	9150	50	0.546%
Haylage Mix	910	50	5.495%
Sweet Gluten	2050	50	2.439%
Silage 2018 SMALL	16040	50	0.312%
		200	2.198%
take mine	ral out of	Dromi	
take mine		Premi	X
Totals	28130	207.00	
Totals High Premix	28130 8850	50	0.565%
Totals High Premix	28130	207.00	
Totals High Premix Haylage Mix	28130 8850	50	0.565%
Totals High Premix Haylage Mix Sweet Gluten	28130 8850 910	50 50	0.565% 5.495%
take mine Totals High Premix Haylage Mix Sweet Gluten Silage 2018 SMALL Mineral	28130 8850 910 2050	50 50 50	0.565% 5.495% 2.439%

% dev

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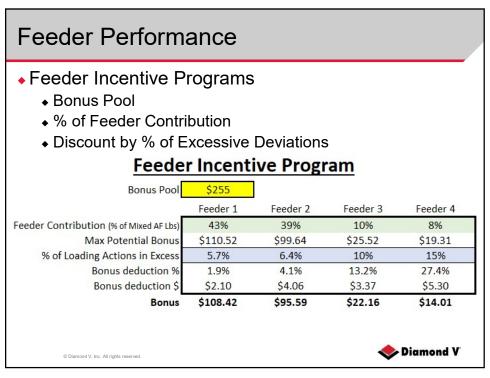
Totals

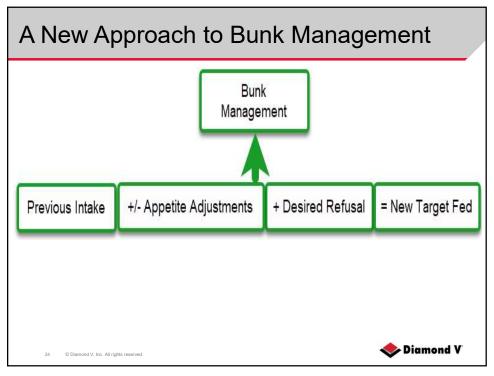
Feeder Performance

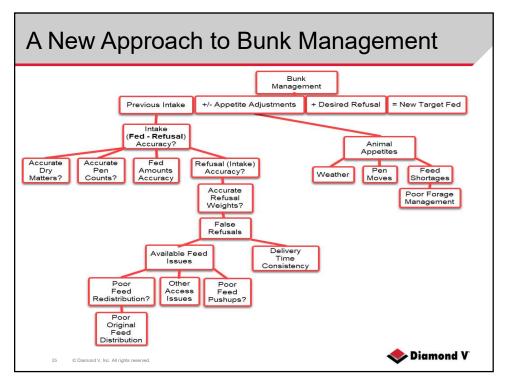
- Set & Communicate Goals
- Monitor & Report Performance
- Avoid Abstract Values
- Start with AsFed Deviations (the Natural Feed Language)
- Set AsFed Deviation Goals by Ingredient Type
- Report % of Excessive Deviations
- Other Values to Monitor
 - Unloading Deviations
 - Mixing Time Deviations
 - ◆ 1st Feeding Time
 - Forage DM Testing

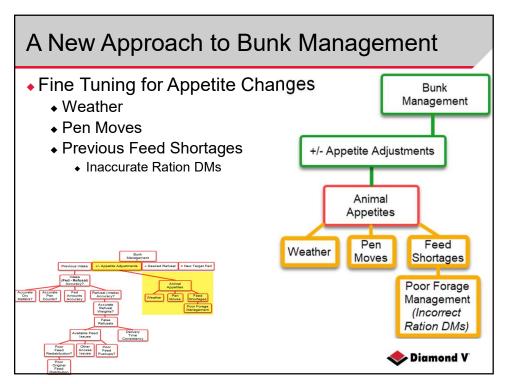
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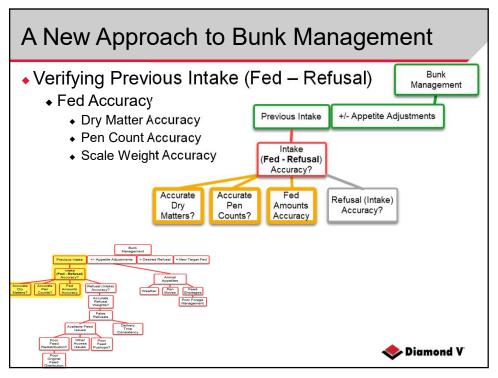


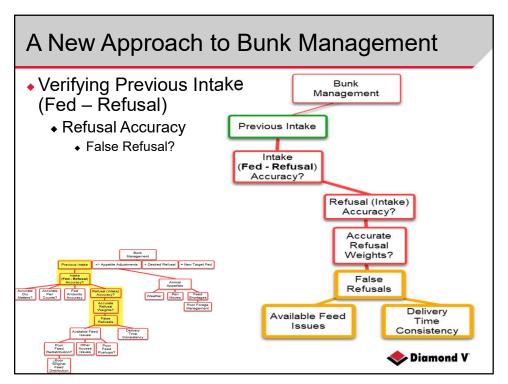


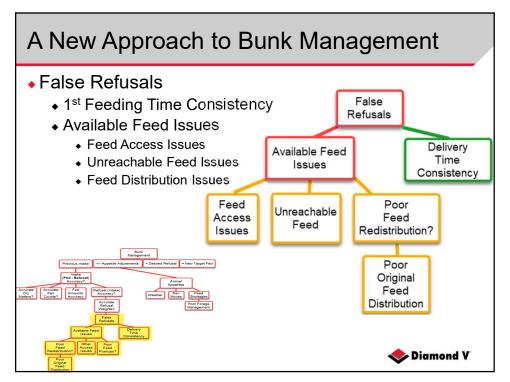


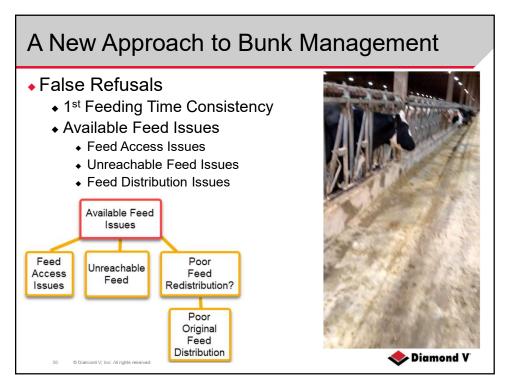


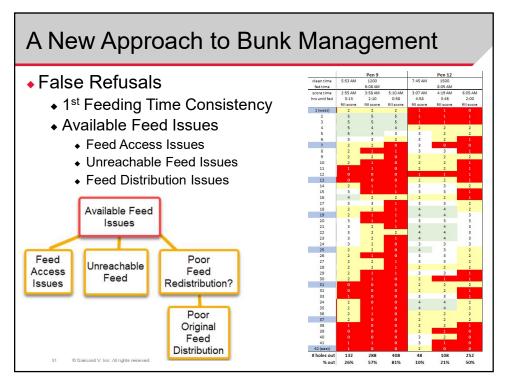


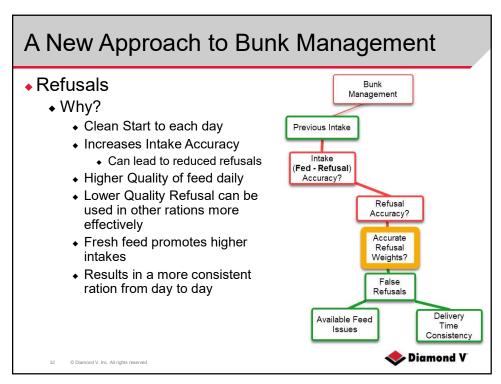












A New Approach to Bunk Management

- Refusal Recording Strategies
 - Automatic Weighing Refusal/Pen thru Mixer
 - Manual Entry of Weighed Refusal/Pen
 - ◆ Manual Entry of Estimated Refusal/Pen
 - ◆ Refusal Left
- Refusal Reuse Strategies
 - Adding Refusal as an Ingredient in other rations
 - Challenging to manage
 - Add to Refusal Loads
 - · Refusal is loaded first
 - Remaining ingredients are automatically increased or decreased on a dry matter basis

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A New Approach to Bunk Management

- Intake Management Strategies:
 - Less than 5% Change
- Refusal Management Strategies
 - Target Refusal Rates
 - 2%: Maintenance, Dry Cows
 - 3%: High Cows
 - 5-7%: Fresh Cows, Closeups
 - Refusal Rates can be lowered by eliminating False Refusal Elimination
 - ◆ Ideally, daily actual less than 1% from Target Refusal Rates

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Inventory & Shrink

- What does successful look like?
 - ◆ Platform Scale Management Program
 - Self Service Check In/Out
 - No Weigh / No Pay

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Inventory & Shrink

- What does successful look like?
 - Feed Software
 - Loads are automatically transferred from Platform

Incoming Inventory	Pre-Shinks		
Commodity Deliveries	Corn Silage	7%	
AsFed WeightsDry Matter %	Haylage	6-7%	
• Pre-shrink: 1%	Barlage	10%	
HarvestsAsFed Total Weight	Earlage	2%	
Average Dry Matter %	Dry Hay	3%	

- Double Dry Matter samples every 5 loads/field
- 100 g samples in bread pans
- Large Oven (48 samples)
- Pre-shrink
- Fine Tuning of Shrink comes at end of pile True Up
- Less than 1% to originally entered pre-shrink % Diamond V

Pre-Shinks

Inventory & Shrink

- What does successful look like?
 - ◆ Feed Software
 - Inventory Usage
 - Forage Pile Management
 - No more than 10 ft (5 days) of forage exposed
 - Double Dry Matter samples
 - Every M / W / F
 - · During & After Rain Events
 - Example: 3% dm adjustment for ½" rain

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Inventory & Shrink

- Successful Inventory Tracking Payoffs
 - Accurate Shrink Predictions
 - No spoilage
 - Enabled to experiment & fine tune other aspects of harvesting
 - Faster you get the pile covered, the lower the shrink
 - Chop Length significantly impacts shrink
 - ◆ Ideal Harvest Moisture is critical
 - Example: Haylage sweet spot: 45% DM
 - Longer Chop Lengths on Corn Silage increase components

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My Challenge to You

- Engage with Customer Support
- Take Advantage of Training Offered
- ◆ Be a Squeaky Wheel!
- Demand Good Support
 - Feed Software is worthless without it!
- Demand the features you need
- If not getting results, don't give up
 - ◆ Keep Calling
 - Reach out to others

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