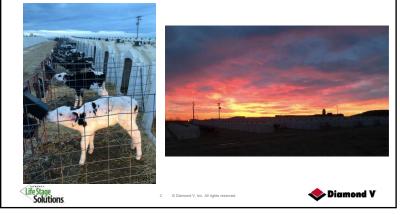


Kelly E Reed, DVM kreed@diamondv.com



## Raising them right, from the start

- Preventative Medicine- Feeding animals the right way
- When a calf is born, she has 100% genetic potential



## Today's objectives:

- 1) Why do we care so much about raising our calves well?
- 2) Tools for identifying <u>bottlenecks</u> & tips for implementing change
- Not re-inventing the wheel, goal is to share & steal ideas
- There is no "correct" way of raising calves
- Listen to your calves, they don't lie!
- Listen to your employees (although sometimes they do lie;)

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PLEASE ask questions!

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### What's the difference between these calves?



#### What's the value of investing in the milk fed calf?

- Increased nutrient intake prior to 56 days of life resulted in increased milk yield during the first lactation that ranged from 1,000 to 3,000 additional pounds compared to more restricted fed calves during the same period
- Average of 1500 pound 1<sup>st</sup> lactation advantage across studies

(Van Amburgh, 2014; Foldager and Krohn, 1994; Bar-Peled et al, 1997; Foldager et al, 1997; Everett and Schmitz. 1994; Van Amburgh et al., 1997)

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- 6000 lb milk advantage on cows after 3 lactations

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## Increased first lactation milk

 Table 1. Milk production differences among treatments where calves were allowed to consume approximately 50% more nutrients than the standard feeding rate prior to weaning from liquid feed

Study	Milk yield, lb
Foldager and Krohn, 1991	3,092
Bar-Peled et al., 1998	998
Foldager et al., 1997	1,143
Ballard et al., 2005 (@ 200 DIM)	1,543
Shamay et al., 2005 (post-weaning protein)	2,162
Rincker et al., 2006 (proj. 305@ 150 DIM)	1,100
Drackley et al., 2007	1,841
Raith-Knight et al., 2009	1,582
Terre et al., 2009	1,375
Morrison et al., 2009 (no diff. calf growth)	0
Moallem et al., 2010	1,600
Soberon et al., 2011	1,217
	1500 lbs
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#### What's the value of investing in the milk fed calf?

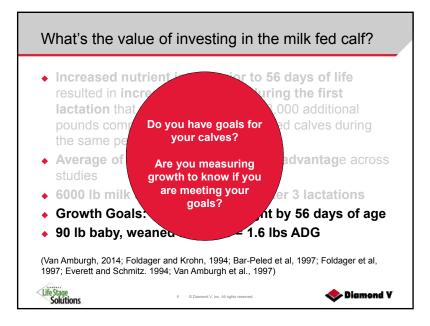
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- Average of 1500 pound 1<sup>st</sup> lactation advantage across studies
- 6000 lb milk advantage on cows after 3 lactations
- Growth Goals: double birth weight by 56 days of age
- 90 lb baby, weaned at 180 lb = 1.6 lbs ADG

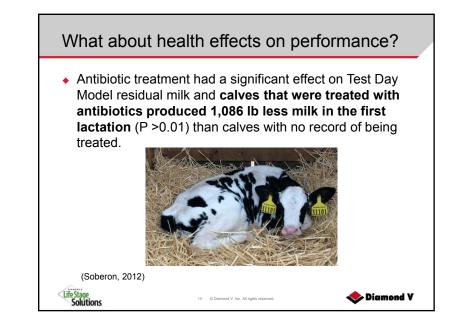
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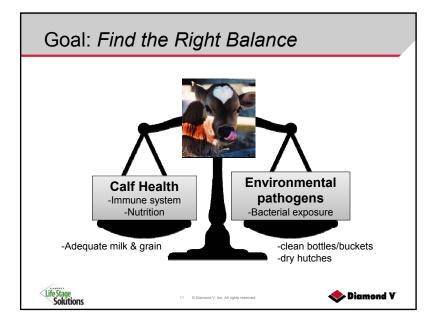
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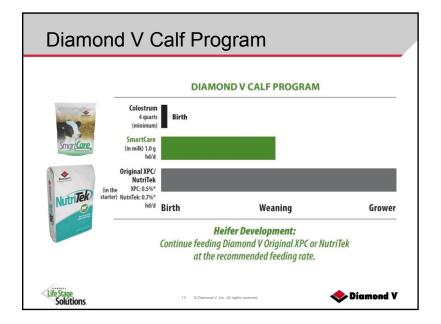


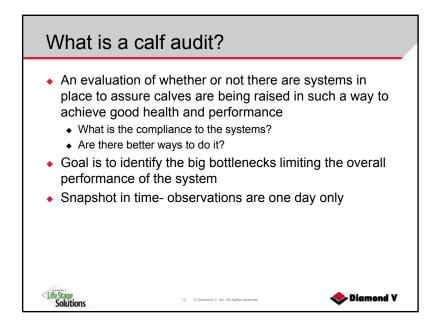
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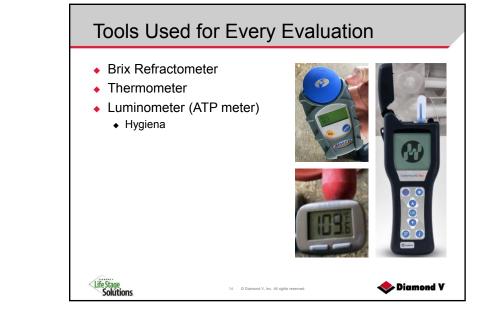


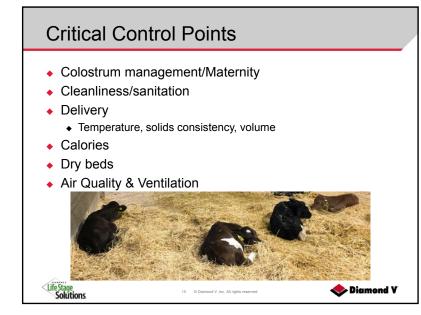


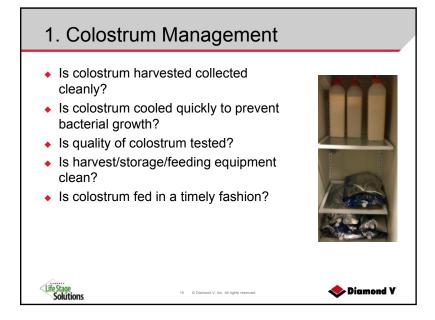






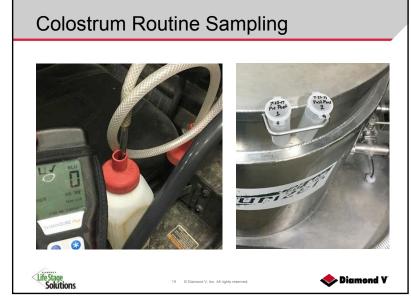


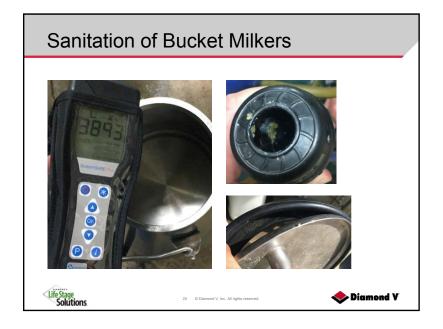














# Milk Contact Surface Cleaning Protocol

- Rinse equipment with **lukewarm** water
- Soak with hot water (>140°F) with a chlorinated alkaline detergent (pH 11-12)
- Vigorously wash calf feeding equipment with a brush 1-2 minutes
- Rinse with cold water
- Rinse a second time with an acidic solution (pH 2-3)
- Allow calf feeding equipment to dry
- Sanitize inside & outside of calf feeding equipment within in 2 hours of use

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Adapted from Don Sockett

Life Stage Solutions 2. Cleanliness/Sanitation











# Ideas for Keeping Milk Warm in Winter

Adjust mixing temperature seasonally, if needed



### Volume

- Make sure bottles/buckets are actually filled to the desired level (foam in bottles)
- Broken buckets/unsecured





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## Delivery: Sometimes It Takes A Village

• Timeliness, especially for youngest babies is critical. Keep as even a time interval as possible.



## 4. Calories

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- Make sure desired calories are actually getting delivered
- Seasonally re-evaluate environmental stressors and effect on energetic cost of maintenance vs. growth
- Thermoneutral zone for calves is 68-82 degrees F











