

Why consider behavior at the feed bunk?

• Changes in intake must be mediated through changes in feeding behavior





Why consider behavior at the feed bunk?

- Feeding behavior can have a direct impact on rumen digestion, health, efficiency, and productivity
 - $^{\circ}$ how feed is consumed
 - $^{\circ}$ when feed is consumed
 - what feed was actually consumed

How do cows eat?

- Eating behavior impacts rumen function...
 - Fewer, larger meals
 - Larger declines in rumen pH (Allen, 1997)





















What effects does feed soring have?

At a cow level...

- Lower milk fat %
 - DeVries et al. 201 I.J. Dairy Sci. 94:4039-4045
 - Fish and DeVries. 2012. J. Dairy Sci. 95:850-855
 - Miller-Cushon and DeVries. 2015. J. Dairy Sci. E-Suppl. 2 98:13.



What effects does feed soring have? • At a herd level... • Every 2% refusal of long particles = • -2.0 lb/d 4% fat corrected milk • 2% decrease in production efficiency

How do we use this knowledge to optimize cow health and productivity?

- Allow cows to eat...
 - A ration balanced to meet their requirements
 - Their feed as delivered, and in a manner conducive to rumen health and efficiency

Sova et al. 2013. J. Dairy Sci. 96:4759-477



How do we ensure cows eat feed as delivered, and in a manner conducive to rumen health and efficiency? Ensure cows have access to the ration formulated for them throughout the day!

How do we accomplish this?

- Ensure cows…
 - Have access to feed
 - Are also stimulated to access their feed throughout the day





























