## Impact of Importing Feed on the System – Management Implications

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#### **Substitution Rate?**

# Amount of grazable forage displaced by supplemental feeding

#### MU SW Center Dairy Farm

Data from March 25-June 22 suggests:
– Cow intake on grass approximately -23-25# DM
• 18-28% CP; .65-.80 NEI; NDF 38-48
• 40-45(current) -66 (peak) #milk/cow/day

- This forage intake w/ 9# DM grain

#### **Published Research**

- Substitution rates of:
   1.0# Grain = 0.3 0.6 # grazable forage not consumed
  - 1# harvested Forage = 0.7 1.2# grazable forage not consumed

#### Example and Assumptions

- Assume cow can consume 35# DM pasture
- Substitution of 0.5# pasture for 1# grain
- If we feed 10# grain then assume total DM consumption of 40#
  - 10# grain = net loss of 5# pasture = 30# pasture + 10# grain = 40# total
- NET GAIN of 5#/cow/day????

### Questions

 Do you account for substitution directly or indirectly in feed budgets and in practice?

• Do you feel there is a net gain in intake?

 What is your "magic" number for supplemental feeding