



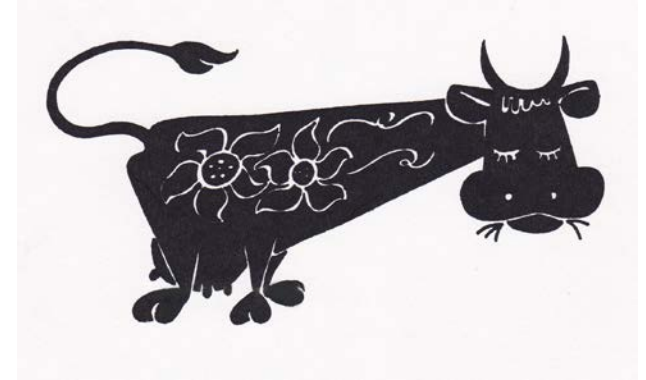
# Rayner Dairy Research and Teaching Unit –Update

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Manager

Dairy Info Day – January 26, 2017

# Outline

- Herd Production
- 2016 Projects
- Infrastructure Changes
- Key Focus Initiatives
- Community/Industry Outreach



# Herd

- DHI – Jan 13, 2016
  - 108 milking, 19 dry
  - 133 DIM
  - 40kg, 3.8% fat, 1.5 kg/cow/day
  - Robot: 40 Parlor: 40 Tiestall: 24 Boxstall: 4
  - 36% - 1<sup>st</sup> lactation, 26% - 2<sup>nd</sup> lactation, 38% - 3<sup>rd</sup> lactation
  - Inventory: 254 (129 youngstock → 110)

# Projects

- 2016 Spring
  - GP – PMR energy and robot grain allocation (8 cows; robot Insentec)
  - TM – Camelina inclusion (8 cows; tiestalls)
  
- 2016 Summer
  - DAC – The effect of dietary fat source on fibre and mineral digestibility (8 cows; parlor Insentec)
  - JS – Daily automated brush use for grooming and its relationship to lameness (43 cows; parlor)
  - CP – Uterine inflammatory cytokine and immune cell function in postpartum dairy cattle (43 cows; 28-35 DIM, 49-56 DIM)
  - PY – several *insitu* incubations
  
- 2016 Fall
  - TM – Oscillating Rumen Degradable Protein (RDP) (8 cows; tiestall)
  - TM – Replacement of barley starch with sugars and interaction with RDP (8 cows; tiestall)

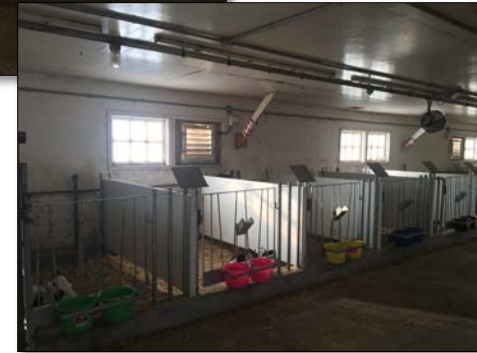
# Projects

- 2016 Winter/Current
  - TM – 2 projects (12 cows; tiestalls)
  - PY – Enzyme project (8 cows, parlor Insentec)
  - GP – Robot project (8 cows; robot Insentec)
  - GP – Calf starter project (50 calves; calf barn)
  
- 2017 Projects – Dairy User's Group Meeting

# Infrastructure

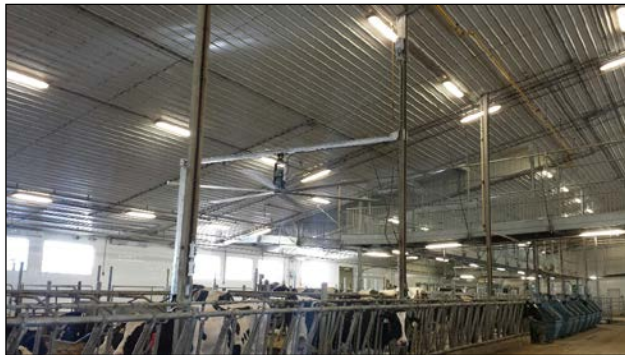
## ■ Calf Barn

- Convert old piggery into calf facility
- Calves placed end Feb 2016
- 100% milk replacer



# Infrastructure

- Ventilation
  - 2 – 12' fans installed East end of barn
  - Complement 24' fan over boxstalls
  - Air quality, cooling improved



# Key Focus Initiatives

- Manure (Phase 2)
  - Capacity
    - Robot wash water
  - Season/Weather restrictions
  
- Breeding and Dry Off
  - High production at 305 DIM
  - Extended lactation, voluntary waiting period



# Community Outreach

## ▪ Gallery

- Open 7 days a week from 12:30pm – 4:30pm
- 101 tours in 2016

## ▪ Producers

- Add value to industry practices
  - What type of information?
  - How should it be delivered?
    - Annual report, newsletters, workshops etc.

## Contact Information

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