

Annual NCERA-087 meeting

June 6th - 8th, 2011

Location: University of Nebraska ARDC station, Mead, NE

Host: Rick Rasby

Reporting Secretary: Steve Paisley

Monday, June 6th, 2011

6:00 PM

Evening meal at Johnny's Italian Steakhouse, Omaha.

Tuesday, June 7th, 2011

7:30 a.m. – Meet in lobby of Hampton Inn, Omaha

7:45 - Drive to Mead Research Facility (ARDC)

Attending:

Personnel	Institution:
Amy Radunz	Wisconsin
Rick Rasby	University of Nebraska-Lincoln
Jason Warner	Grad Student, University of Nebraska-Lincoln
John Jaeger	Kansas State University, Hays KS
Cody Wright	SDSU, Brookings SD
Jack Whittier	Colorado State University, Ft. Collins
Jim Russell	Iowa State Univ
D.A. Bear	Graduate Student, Iowa State Univ.
Dan Faulkner	University of Illinois
Keela Retallick	Graduate Student, University of Illinois
T. B. Wilson	Graduate Student, University of Illinois
Steve Paisley	University of Wyoming, SAREC – Lingle, WY

8:30 – Begin Station Reports.

Objective #1: Development of cow-calf production systems which reduce unit cost of production while still producing high quality beef that meets the demands of today's consumer.

University of Illinois – Dan Faulkner

- 1) Chemical extrusion of corn stalks (Ca, NaOH) to improve energy recovery and digestibility
- 2) 5-State project looking at feed efficiency, Forage vs. grain intake and how it relates to relative efficiency.
- 3) Comparison of weaning system on cow performance and intake
- 4) Evaluating RFI measurements in heifers, and how that correlates to efficiency in mature cows
- 5) Combination of early weaning and source of energy on calf performance, feedlot performance and carcass merit.
- 6) Energy source in calf development diets for early-weaned calves on performance, intramuscular fat development and carcass characteristics. (increase understanding the effects of fat vs. protein in diets for developing calves)
- 7) Influence of prepartum supplementation of distillers grains on cow performance and subsequent calf performance.
- 8) Influence of protein level of late gestation diet on cow performance and subsequent calf performance.

- 9) Influence of protein degradability of late gestation diet on cow performance on subsequent calf performance.
- 10) Influence of energy level of late gestation diet on cow performance and subsequent calf performance.
- 11) Measuring RFI and feedlot performance on progeny of current Angus sires, year 3 report.
- 12) Evaluating forage-based vs. grain-based diets in measuring RFI in replacement heifers.
- 13) Evaluate relationship between actual sire RFI and progeny RFI.

Iowa Report – Dr. Jim Russell

- 1) Performance of fall calving cows and forage and soil characteristics of tall fescue pastures managed by rotational, strip or mob stocking systems.

Kansas State University Report - John Jaeger

- 3 reports, all focusing on evaluating preconditioning programs for calves

University Of Wyoming

- 1) Low-input, early weaned feeder calf development programs that produces carcasses comparable in weight to cattle fed traditionally but with higher quality grades.
- 2) The effects of high sulfur water on animal performance and hepatic gene expression in feedlot steers with or without supplemental molybdenum

Colorado State University – Jack Whittier

- 1) Relationship between behavioral traits and feedlot performance in finishing steers.

Objective 2: Development and integration of reproductive management technologies into management systems.

Colorado State University – Jack Whittier

- 1) Detection of ovulation, disease, and parturition in dairy cattle with passive monitoring of reticulo-rumen temperature (Trr).
- 2) Administration of GnRH on day 9 of a 14-day CIDR with Co-Synch 72 h. in lactating beef cows and heifers.

Kansas State University – John Jaeger

- 1) Replacement of soybean meal with wet distiller's grains in replacement heifer diets.

South Dakota State University – Cody Wright

- 1) Influence of high nitrogen and sulfur intake on bovine uterine pH.

Objective 3: Development of profitable, environmentally sound, cow-calf production systems while encouraging efficient use of feed resources in cow-calf operations.

Iowa State University – Jim Russell and

- 1) Assessment of the risks of nonpoint source pollution of pasture streams related to grazing management
- 2) Pasture management effects on nonpoint source pollution of Midwestern watersheds
- 3) Effects of pasture size, stream access, and off stream water availability on the congregation of cattle in or near pasture streams.

University of Nebraska-Lincoln

- 1) The effects of supplementing beef cows grazing cornstalk residue with a dried distillers grain based cube on cow and calf performance.
- 2) Application of condensed corn distillers solubles to hay windrows prior to baling.

Kansas State University, John Jaeger

- 1) Effect of prepartum and postpartum mineral bolus on cow health and reproduction, calf health and performance. (Zn, Mn, Se, and Cu)

3:00 PM – Adjourn for the day and tour ARDC facilities

6:15 PM – Meet for supper at Upstream restaurant and brewery, Omaha.

Wednesday, June 8, 2011

8:00 AM – Reconvene at Hampton Inn, Omaha, finished station reports.

Objective 4: Maintain and enhance formal and informal linkages which facilitate outreach and information sharing among committee members and with beef cattle producers in the region.

University of Wyoming, Steve Paisley

- 1) Enterprise budget for beef cow-calf production, 200 hd, Southeastern Wyoming.

University of Nebraska-Lincoln, Rick Rasby

- 1) An Evaluation of high frequency RFID in adding value to the cow/calf enterprise.

Colorado State University – Jack Whittier

- 1) Range Beef Cow Symposium
- 2) NIFA approved “Beginning Producer” multi-state grant for NE, CO and WY.

8:45 AM – NCERA087 Business Meeting

1) General discussion of organizing a collaborative project among NCERA087 members. Topic discussed was collaborating on a herd management/injectable mineral study based off of John Jaeger’s K-State Objective 3 report . Seven states volunteered university herds to be used in a multi-state project. John Jaeger will contact the Multi-Min company, and Jack Whittier and Steve Paisley offered to attend a face-to-face meeting at their headquarters in Ft. Collins to help coordinate a possible study.

2) NCERA087 was renewed for another term, but the name changes to NCERA-218.

3) Discussion on our annual Midwest ASAS Symposium. Potential topics to consider include:

- a) Treatment, evaluation and management of alternative forages in beef production systems.
- b) Typically have 4 speakers, giving them approx. 30 minutes for presenting and 10 min. discussion
- c) Suggest a manuscript/proceedings that can be electronically published and handed out at the symposium
- d) Find a sponsorship for the webinar portion of the symposium
 - i) What is the current situation of forages/roughages for beef production systems
 - ii) Predicting nutritive value of low quality forages – Mary Beth Hall
 - iii) Chemical treatment of low quality forages to improve nutritive value – student pres.
 - iv) Alternative forages: cover crops and residue management

4) Reports need to be submitted to Rick Rasby by July 1, 2011. Rick will send out compiled reports via .pdf and email.

5) John Jaeger, K-State, volunteered to be 2012 secretary for NCERA-218

6) Meeting dates for next year’s meeting is June 5-6, 2012

7) Proposed meeting location is Minneapolis, MN

8) Suggestions were to include an outside speaker to encourage attendance and further discussions. Group preference was to either invite an upper management person or tour a corn ethanol plant to discuss new fractions, and future direction. Potential companies to work with would be Elk River MN/Cargill or Land O’ Lakes corporate offices in Minneapolis.