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**Statistics Used in the Nebraska Beef Report and Their Purpose**

**MP95 – 2012 Beef Cattle Report** — [http://www.ianrpubs.unl.edu/epublic/live/mp100/build/mp95.pdf](http://www.ianrpubs.unl.edu/epublic/live/mp100/build/mp95.pdf)

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- Feeding Distillers Grains and *E. coli* O157:H7
- An Economic Overview of Ethanol Co-Product Utilization in Nebraska
- Using Wet Corn Gluten Feed to Adapt Cattle to Finishing Diets
- The Effects on Ruminal pH, Feed Intake and Digestibility When Using Wet Corn Gluten Feed to Adapt Cattle to Finishing Diets
- Effect of the Grains-to-Solubles Ratio in Diet Containing Wet Distillers Grains ± Solubles Fed to Finishing Steers
- Effects of Substituting Wet Distillers Grains with Solubles in a Wet Corn Gluten Feed-Based Diet on Finishing Performance
- Wet Distillers Grains Plus Solubles or Solubles in Feedlot Diets Containing Wet Corn Gluten Feed
- Cattle Performance and Economic Analysis of Diets Containing Wet Distillers Grains and Dry-Rolled or Steam-Flaked Corn
- Effects of Wet Corn Gluten Feed and Roughage Inclusion Levels in Finishing Diets Containing Modified Distillers Grains Plus Solubles
- Effects of Roughage Source and Level with the Inclusion of Wet Distillers Grains on Ruminal Metabolism and Nutrient Digestibility
- Effects of Feeding High Levels of Byproducts in Different Combinations to Finishing Steers
- Sulfur in Distillers Grains
- Ruminal Sulfide Levels in Corn Byproduct Diets with Varying Roughage Levels
- Hydrogen Sulfide Gas Levels Post Feeding
- Effects of Rumensin® and Tylan® in Finishing Diets with Wet Distillers Grains Plus Solubles
- Effects of Feeding Wet Distillers Grains Plus Solubles on Feedlot Manure Value
- Effect of Dietary Cation-Anion Difference on Feedlot Performance, Nitrogen Mass Balance and Manure pH in Open Feedlot Pens
- Effect of Dietary Cation-Anion Difference on Intake and Urinary pH in High Concentrate Diets
- Composting or Stockpiling Feedlot Manure: Nutrient Concentration and Recovery
- Impact of a New Direct-Fed Microbial on Intake and Ruminal pH
- Effects of Environmental Factors on Body Temperature of Feedlot Cattle
- Effects of Surface Soil Temperature on Daily Water Intake in Feedlot Cattle

**Beef Products**
- Fatty Acid Profile of Three Beef Muscles from Yearlings and Calf-Fed Steers Fed Wet Distillers Grains Plus Solubles
- Fatty Acid Composition of Beef from Cattle Fed Wet Distillers Grains Diets Supplemented with Vitamin E
- Vitamin E Mitigates the Boost in Lipid Oxidation of Beef Due to Wet Distillers Grains Feeding
- Effect of Wet Distillers Grain Feeding Supplemented with Vitamin E on Case Life of Beef
- Modified Wet Distillers Grains Finishing Diets May Increase the Levels of Polyunsaturated and Trans Fatty Acids of Beef
- A Rapid Method to Evaluate Oxidation Capacity of Fresh Beef

**Statistics Used in the 2009 Nebraska Beef Report and Their Purpose**

**MP91 – 2008 Beef Cattle Report** — [http://www.ianrpubs.unl.edu/epublic/live/mp100/build/mp91.pdf](http://www.ianrpubs.unl.edu/epublic/live/mp100/build/mp91.pdf)

**Cow/Calf**
- Effect of Pre-breeding Weight and MGA Supplementation on Heifer Performance
- Effect of Wintering System and Nutrition Around Breeding on Gain and Reproduction in Heifers
- Pre- and Peri-pubertal Feeding of Melengesterol Acetate (MGA) Alters Testis Characteristics in Bulls
- Effects of Summer Climatic Conditions on Body Temperature in Beef Cows
- Supplementing Beef Cows Grazing Cornstalk Residue with a Distillers Based Cube
- Comparison of Crude Protein and Digestibility of Diets of Grazing Cattle at Different Sandhills Range Sites
- Determination of Diet Protein and Digestibility of Native Sandhills Upland Range
- Evaluation of Storage Methods for Wet Distillers Grains Plus Solubles with Added Forages

**Growing**
- Use of Dried Distillers Grains to Extend Range Capacity
- Dried Distillers Grains Supplementation to Yearling Cattle Grazing Smooth Bromegrass: Response and Performance Profile Summary
- The Effects of Supplementing Wet Distillers Grains Mixed with Wheat Straw to Growing Steers
- Forage Quality and Grazing Performance of Beef Cattle Grazing Brown Mid-rib Grain Sorghum Residue
Beef Feedlot
- Meta-Analysis of UNL Feedlot Trials Replacing Corn with WCGF
- Meta-Analysis of UNL Feedlot Trials Replacing Corn with WDGS
- Effect of Inclusion Level of Modified Distillers Grains Plus Solubles in Finishing Steers
- Effect of Corn Processing and Wet Distillers Grains on Nutrient Metabolism
- Effect of Distillers Grains Fat Level on Digestibility
- Cattle CODE: An Economic Model for Determining Byproduct Returns for Feedlot Cattle
- Economics of Modified Wet Distillers Grains Plus Solubles Use in Feedlots
- Influence of Corn Hybrid, Kernel Traits, and Growing Location on Digestibility
- Influence of Corn Hybrid and Processing Method on Finishing Performance and Carcass Characteristics
- Nutrient Mass Balance and Performance of Feedlot Cattle Fed Wet Distillers Grains
- Aerobic Composting or Anaerobic Stockpiling of Feedlot Manure
- Effects of Distillers Grains and Manure Management on Nutrient Management Plans and Economics
- Total and Water Soluble Phosphorus Content of Feedlot Cattle Feces and Manure
- Climate Conditions in Bedded Confinement Buildings
- Modeling Daily Water Intake in Cattle Finished in Feedlots
- Sorting Steers by Weight into Calf-Fed, Summer Yearlings and Fall Yearling Feed Systems
- Performance and Economics of Two Calf Wintering Systems
- Evaluation of Calf-fed and Long Yearling Production with Increasing Corn Price
- The Effect of Delaying Initial Feedlot Implant on Performance and Carcass Characteristics of Calf-fed Steers
- Effect of Backgrounding Gain, Grazing Length and Dry Distillers Grain Consumption on Performance and Carcass Traits of June Born Cattle
- Price Discovery in North and West Central Nebraska Livestock Auction Markets
- The Cattle Price Cycle: Revisited Again
- Effect of Excede® Administered to Calves at Arrival in the Feedlot on Performance and Respiratory Disease Vaccination for Escherichia coli O157:H7 in Feedlot Cattle

Beef Products
- Mapping Tenderness of the Serratus Ventralis
- Factors That Influence Consumers’ Overall Sensory Acceptance of Strip Steaks
- Analysis of Veal Shoulder Muscles for Chemical Attributes
- Effects of Aging on Veal Shoulder Muscles
- Tenderness, Sensory, and Color Attributes of Two Muscles from the Beef Knuckle
- Characteristics of Beef Finished on Wet Distillers Grains with Varying Types and Levels of Roughage
- Influence of Feeding Wet Distillers Grains on Fatty Acid Composition of Beef
- Wet Distillers Grains Plus Solubles Affect Lipid Oxidation and Objective Color of Beef Steaks
- Effects of Wet Distillers Grains Finishing Diets on Fat Content and Marbling Score in Steers

Analytical Methods: New Technology
- Sampling Wet Distillers Grains Plus Solubles to Determine Nutrient Variability
- Evaluation of Methods for Dry Matter Determination of Ethanol Byproducts
- Ruminal Methane Production Following the Replacement of Dietary Corn with Dried Distillers Grains
- Relationship Between Metabolizable Protein Balance and Feed Efficiency of Steers and Heifers
- Microbial Characteristics, Microbial Nitrogen Flow, and Urinary Purine Derivative Excretion in Steers Fed at Two Levels of Feed Intake
- Predicting Aged Beef Tenderness with a Hyperspectral Imaging System

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Cow/Calf
- Utilization of Dried Distillers Grains for Developing Beef Heifers
- Progestin Concentrations Alter Follicle Characteristics and May Affect Quality of Oocytes (Eggs)

Growing
- Summary Analysis of Grazing Yearling Response to Distillers Grains
- Dried Distillers Grains Substitute for Forage and Nitrogen on Pasture: N Dynamics and Use Efficiency
- Comparing a Modified Dry Byproduct to Dry Distillers Grains with Solubles in Growing Calf Diets
- Effect of Distillers Grains Composition and Level on Steers Consuming High-Quality Forage
Replacement of Forage with Dried Distillers Grains Reduces Ruminal Methane Production
Dried Distillers Grains as Creep Feed for Yearling Beef Cattle Grazing Sandhill Range

**Beef Feedlot**

Effect of Feeding a By-product Combination at Two Levels or By-product Alone in Feedlot Diets
Effects of Different Inclusion Levels of Wet Distiller Grains in Feedlot Diets Containing Wet Corn Gluten Feed
Effects of Roughage Source and Level with the Inclusion of Wet Distillers Grains on Finishing Cattle Performance and Economics
Effect of Corn Processing and Wet Distillers Grains Inclusion Level in Finishing Diets
Optimum Levels of Dry Distillers Grains with Solubles for Finishing Beef Steers
Digestibility, Rumen Metabolism, and Site of Digestion for Finishing Diets Containing Wet Distillers Grains or Corn Oil
Pen Density and Straw Bedding During Feedlot Finishing
Environmental Factors Affecting Water Intake in Steers Finishing in Feedlots
Feedlot Surface Conditions and Ammonia Emissions
Effect of Phase Feeding Protein on Cattle Performance and Nitrogen Mass Balance in Open Feedlots
Changes in Gain Through the Feeding Period
Comparison of a Long Yearling System and Calf-fed Performance and Economics
Effect of Sorting and Feeding Optaflexx on Performance and Economics of Long Yearling Steers
Performance Profile and Carcass Characteristics of Steers Fed Optaflexx
Evaluation of Excede® Given at Either Initial Processing or Revaccination on Bovine Respiratory Disease and Pasture vs. Feedlot Receiving Systems
Evaluation of Synovex Choice Versus Revalor Implant Strategies in Beef Finishing Steers
Effect of CRINA RUMINANTS AF, a Mixture of Essential Oil Compounds, on Finishing Beef Steer Performance
Effect of CRINA RUMINANTS AF, a Mixture of Essential Oil Compounds, on Ruminal Fermentation and Digestibility
Feeding Potassium Bicarbonate and Sodium Chloride in Finishing Diets
Effect of Feeding DAS-59122-7 Corn Grain and Non-transgenic Corn Grain to Finishing Feedlot Steers

**Beef Products**

Identification of Off-Flavor Compounds in Beef Round and Chuck Muscles
Fatty Acids and Minerals Affect the Liver-Like Off-Flavor in Cooked Beef
Off-Flavor Mitigation in Cow Steaks
Masking Off-Flavors in Ground Beef
Enhancement of Beef Chuck and Round Muscles with Ammonium Hydroxide
Effects of Aging on Beef Chuck and Round Muscles Enhanced with Ammonium Hydroxide and Salt
Ranking Beef Muscles for Warner-Bratzler Shear Force and Trained Sensory Panel Ratings

**New Technology**

Hyperspectral Imaging: A Non-Invasive Technique to Predict Beef Tenderness
Evaluating Use of Urinary Purine Derivative to Creatinine Ratio as an Estimate of Microbial Protein Production in Steers
Diurnal and Dietary Impacts on Purine Derivative Excretion from Spot Samples of Chronic Exposure of Ruminal Fluid Cultures to Treatments That Inhibit Methanogenesis
Comparison of In Vivo Digestibility to In Vitro Digestibility of Five Forages Fed to Steers
Using a Modified In Vivo Procedure to Measure Corn Bran Buoyancy
Vascular Endothelial Growth Factor Inhibitory Isoform Is Regulated Prior to Ovulation
Inhibition of Vascular Endothelial Growth Factor Manipulates Follicles in Beef Females

**Statistics Used in the Nebraska Beef Report and Their Purpose**


**Cow/Calf**

Effects of Supplementing Beef Cows with Lipid from Whole Corn Germ
Effects of Supplementing Lactating, June-calving Cows on Second-calf Pregnancy Rates
Effects of Pre- and Postpartum Nutrition on Reproduction in Spring Calving Cows and Calf Feedlot Performance
Effects of Dam Nutrition on Growth and Reproductive Performance of Heifer Calves
A System for Wintering Beef Heifers Using Dried Distillers Grains
Feeding Melengestrol Acetate to Bulls Prior to and at Puberty Alters Body Weight, and Hormone Concentration
Bull Exposure, When Combined with a Seven Day MGA Synchronization, Does Not Enhance Rates in Cows
Vascular Endothelial Growth Factor mRNA Isoforms 120 and 164 Are Differentially Regulated Prior to Ovulation
Growing
- Digestibility of Undegradable Intake Protein of Feedstuffs
- Effect of Fat and Undegradable Intake Protein in Dried Distillers Grains of Performance of Cattle Grazing Smooth Bromegrass Pastures
- Effects of Supplementing Dried Distillers Grains to Steers Grazing Summer Sandhill Range
- Influence of Dried Distillers Grains Supplementation Frequency on Forage Digestibility and Growth Performance
- Dried Distillers Grains Supplementation of Calves Grazing Corn Residue

Beef Feedlot (Finishing)
- Effect of Corn Hybrid and Processing Method on Site and Extent of Nutrient Digestibility Using the Mobile Bag Technique
- Influence of Corn Hybrid and Processing Method on Digestibility and Ruminal Fermentation
- Influence of Corn Hybrid on Kernel Traits
- Influence of Corn Hybrid, Kernel Traits, and Dry Rolling or Steam Flaking on Digestibility
- Effect of Corn Processing in Finishing Diets Containing Wet Distillers Grains on Feedlot Performance and Carcass Characteristics of Finishing Steers
- Effect of Dietary Inclusion of Wet Distillers Grains on Feedlot Performance of Finishing Cattle and Energy Value Relative to Corn
- Economic Optimum Use of Wet Distillers Grains in Feedlots
- Evaluation of a Low Protein Distillers By-product for Finishing Cattle
- Effect of Min-AD Ruminal Buffer and Roughage Level on Ruminal Metabolism and Extent of Digestion in Steers
- Sodium Chloride and Soybeans in Feedlot Diets
- Effects of Field Pea Level and Processing in Finishing Diets
- Vaccination for *Escherichia coli* O157:H7 in Market Ready Feedlot Cattle
- Large-scale Clinical Trial to Evaluate an Experimental *Escherichia coli* Vaccine
- Effect of Optaflexx Dosage and Duration of Feeding Prior to Slaughter on Feed Conversion and Carcass Characteristics
- Effects of Optaflexx Fed in Combination with MGA on Feedlot Heifer Performance
- Growth Promoting Agents and Season Effects on Blood Metabolite and Body Temperature Measures
- Inhibition of Methanogenesis in Rumen Fluid Cultures
- Livestock Risk Protection Insurance Vs. Futures Hedging: Basis Risk Implications
- Summary of Manure Amounts, Characteristics, and Nitrogen Mass Balance for Open Feedlot Pens in Summer Compared to Winter
- Nitrogen Mass Balance and Cattle Performance of Steers Fed Clinoptilolite Zeolite Clay
- Factors Affecting Nitrogen Losses as Measured Using Forced-air Wind Tunnels and Nitrogen Mass Balance
- Managing Phosphorus in Beef Feedlot Operations
- Economics of Manure Phosphorus Distribution from Beef Feeding Operations
- Valuing Feedyard Management Education, Experience, and Expertise

Beef Products
- Alternative Enhancement Strategies for Beef Muscles
- Flavor Relationships among Muscles of the Beef Chuck and Round
- The Influence of Cooking Rate and Holding Time on Beef Flavor
- Wet Distillers Grains plus Solubles Do Not Increase Liver-like Off-flavors in Cooked Beef

Statistics Used in the Nebraska Beef Report and Their Purpose


Cow/Calf
- Comparison of Two Development Systems for March-born Replacement Beef Heifers
- Effects of Supplemental Protein During Gestation and Grazing Sub-irrigated Meadow During the Postpartum Interval on Pregnancy Rates of Spring Calving Cows and Calf Growth
- The Effects of Temperature and Temperature-Humidity Index on Pregnancy Rate in Beef Cows
- Effects of Dried Distillers Grains Supplementation Frequency on Heifer Growth
- Reproductive Response in Heifers Fed Soybeans During Post Weaning Development

Grazing
- The Effects of Dried Distillers Grains on Heifers Consuming Low or High Quality Forage
- Tree Growth and Cattle Weight Gain in a Ponderosa Pine System
- Determination of Undegradable Intake Protein Digestibility in Forages

Finishing
- Effects of Corn Moisture and Degradable Intake Protein Concentration on Finishing Cattle Performance
Effects of Corn Moisture and Length of Ensiling on Dry Matter Digestibility and Rumen Degradable Protein
Influence of Corn Kernel Traits on Digestibility and Ruminal Fermentation
Effect of Different Corn Processing Methods and Roughage Levels in Feedlot Diets Containing Wet Corn Gluten Feed
Effect of Corn Bran and Corn Steep Inclusion in Finishing Diets on Diet Digestibility and Fiber Disappearance
Degradable Intake Protein in Finishing Diets Containing Dried Distillers Grains
Effect of Feeding a By-product Combination Consisting of Wet Distillers Grains and Wet Corn Gluten Feed to Feedlot Cattle
Ethanol Distiller By-product Phosphorus Concentration as Influenced by Corn Hybrid
Effects of Field Peas in Beef Finishing Diets
Effects of Dietary Phosphorus Level in Beef Finishing Diets on Phosphorus Excretion Characteristics
Effects of Corn Bran and Corn Steep Inclusion in Finishing Diets on Cattle Performance and Nitrogen Mass Balance
Composting of Feedlot Manure: Compost Characteristics, Crop Yields and Application Rates
Vaccination for \textit{Escherichia coli} O157:H7 in Market Ready Feedlot Cattle
Direct-fed Microbial Products for \textit{Escherichia coli} O157:H7 in Market Ready Feedlot Cattle
Performance and Economics of Yearlings Developed with Intensive Winter Management, and Partial Season Grazing
Effect of High Roughage and High Energy Diets on Body Temperature
Effect of Clinoptilolite Zeolite on Cattle Performance and Nitrogen Volatilization Loss
Evaluation of Initial Implants for Finishing Steers

**Beef Products**

Effect of Injecting Modified Connective Tissue Solutions on Quality of Beef Roasts
Packaging Effects on Shelf-Life and Sensory Traits of Enhanced Beef
Benchmarking the Differences Between Cow and Beef Muscles
Pre-rigor Water Injection and Post-rigor Sodium Citrate Treatment on Beef Tenderness
Evaluation and Composition of Beef Semitendinosus Utilizing a Novel Cooking System
The Effects of Phosphate Type and Potassium Lactate Level on Quality Characteristics of Enhanced Beef Steaks


**Cow-Calf**

An Evaluation of Economic Efficiencies of Two Beef Systems from Calving to Harvest
A System for Wintering Spring-calving Bred Heifers Without Feeding Hay
Effect of Gestation and Supplementation on Intake of Low-quality Forage

**Grazing**

A Review of Corn Stalk Grazing on Animal Performance and Crop Yield
Feed Values for Annual Forages in Western Nebraska
Urea Inclusion in Forage Based Diets Containing Dried Distillers Grains
Effect of Distillers Grains or Corn Supplementation Frequency on Forage Intake and Digestibility
Dried Distillers Grains as a Grazed Forage Supplement

**Finishing**

Effects of Corn Bran and Degradable Protein Source on Microbial Protein Estimated from Spot Urine Samples in Heifers
Effects of Corn Bran and Degradable Protein Source on Finishing Heifer Performance and Estimates of Microbial Protein Supply in High Moisture Corn Finishing Diets
Influence of Implant Regimen on Performance and Carcass Characteristics in Feedlot Steers
Delayed Implanting Improves Quality Grade in Steer Calves
Basis Variability on the Feeder Cattle Contract Versus the Failed Stocker Contract
Effect of Wet and Dry Distillers Grains Plus Solubes and Supplemental Fat Level on Performance of Yearling Finishing Cattle
Phosphorus Requirement for Finishing Heifers
Sodium Chloride Levels for Finishing Feedlot Heifers
The Influence of Corn Kernel Traits on Feedlot Cattle Performance
Evaluation of Initial Implants for Finishing Heifers
Wet Corn Gluten Feed and Alfalfa Hay Levels in Dry-rolled Corn Finishing Diets
Prediction of Net Energy Adjuster for Feedlot Cattle When Using the 1996 Beef Cattle NRC Model
Vaccination and Direct Fed Microbials as Intervention Strategies for Reduction of \textit{E. coli} O157:H7 in Feedlot Steers
Reducing Diet Digestibility and Increasing Pen Cleaning Frequency: Effects on Nitrogen Losses and Compost Nitrogen Recovery
Impact of Cleaning Frequency on Nitrogen Balance in Open Feedlot Pens
Hydrogen Sulfide Concentration in Vicinity of Beef Cattle Feedlots
Crop Performance and Soil Properties of Sites Previously Used for Production of Beef Cattle Manure Compost

**Beef Products**
Consumer Preference and Value of Beef with Country-Of-Origin Labeling
Consumer Acceptance and Value of Beef From Various Countries of Origin
Consumer Acceptance and Value of Wet Aged and Dry Aged Beef Steaks
Cow Muscle Profiling: A Comparison of Chemical and Physical Properties of 21 Muscles from Beef and Dairy Cow Carcasses
Carcass Traits and Palatability Attributes of Herdmates Finished as Calves or Yearling Steers

**New Technology**
Effect of Conjugated Linoleic Acid on Cell Death in Adipose Tissue
Conjugated Linoleic Acid Metabolism and Body Fat Loss in Mice
Effect of Age, Pregnancy, and Diet on Urinary Creatinine Excretion in Heifers and Cows


**Cow/Calf**
Evaluation of Cow and Calf Performance and Profit Potential in Beef Systems
Comparison of Two Heifer Development Systems on a Commercial Nebraska Ranch
Value of Dry Distillers Grains in High-Forage Diets and Effect of Supplementation Frequency
Microbial Protein Production in Gestating Cows Supplemented with Different Sources of Rumen Degradable Protein Grazing Dormant Range
Microbial Protein Synthesis and Efficiency in Nursing Calves
Growing Amino Acid Supplementation to Growing Heifers Fed Soypass®
Utilization of Genetically Enhanced Corn Residue on Grazing Steer Performance
Effects of Grazing Corn Stalks in the Spring on Subsequent Crop Yields

**Finishing**
Intervention Strategies for Reduction of *E. coli* O157:H7 in Feedlot Steers
Wet Corn Gluten Feed Levels for Steam-flaked Corn Based Finishing Diets
Effects of Corn Processing Method and Crude Protein Level with the Inclusion of Wet Corn Gluten Feed on Finishing Steer Performance
Corn Steep and Bran:Germ Meal Ratio in Steam-flaked Corn Based Finishing Diets
Feeding Transgenic (Bt Corn Rootworm Protected and Roundup-Ready®) Corn to Feedlot Cattle
Effects of Starch Endosperm Type and Corn Processing Method on Feedlot Performance, Nutrient Digestibility and Ruminal Fermentation of High-Grain Diets
Evaluation of Buffering Agents in Feedlot Diets for Cattle
Feeding Kelp Meal in Feedlot Diets
Summer vs. Winter Growth Promotant Strategies for Intact Yearling Heifers
Body Temperature Changes Associated with Moving Feedlot Cattle
Adjustments for Wind Speed and Solar Radiation to the Temperature-Humidity Index
Impact of Manure Application on Phosphorus in Surface Runoff and Soil Erosion
Effect of Organic Matter Addition to the Pen Surface on Feedlot Nitrogen Balance
Carbon Sequestration Following Beef Cattle Feedlot Manure, Compost, and Fertilizer Applications
Relationships of Chute-Side Measurements to Carcass Measurements
Sorting Strategies for Yearlings

**Beef Products**
Carcass and Palatability Characteristics of Calf-fed and Yearling Finished Steers
Cow Muscle Profiling: Processing Traits of 21 Muscles from Beef and Dairy Cow Carcasses
Quality Traits of Grain- and Grass-Fed Beef: A Review
The Effects of Tumbler Volume on Roasted Beef Quality
Ingredient Opportunities for Case-Ready Beef

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Estimation of Rumen Undegradable Protein in Forages by Using Neutral Detergent Insoluble Nitrogen at a Single In Situ Incubation Time Point
Estimating Rumen Undegradable Protein in Smooth Bromegrass and Legumes
Influence of Ringing Technique and Sample Size on In situ Protein Degradation

Cow/Calf
Weaning Date for Spring Calving Cows Grazing Sandhills Range
Replacement Heifer Development for Spring and Summer Calving Herds
Urinary Allantoin as an Estimate of Microbial Protein Synthesis
Metabolizable Protein Requirements of Lactating Two-Year-Old Cows
Use of Sexed (Female) Sperm is Successful in Yearling Heifers
Estrous Synchronization Programs for Lactating Cows

Growing
Windrow Grazing and Baled-Hay Feeding Strategies for Wintering Calves
Forage Quality and Animal Performance of Steers Grazing Smooth Bromegrass/Legume Pastures
Supplementing Yearling Summer-Grazing Cattle with Fat and Protein and Subsequent Feedlot Performance
Subsequent Summer Forage Intake Following Winter Gain Restriction

Finishing
Longitudinal Patterns of Fecal Shedding of Escherichia coli O157:H7 by Feedlot Cattle
Implant Programs for Feedlot Heifers Using Synovex® Plus™, Revalor®-H, or Finaplix®-H with MGA
Summary of Implant Programs for Feedlot Heifers Using Synovex® Plus™ or Finaplix®-H with MGA
Sorting Strategies in an Extensive Forage Utilization Beef Production System
Simulated Economic Analysis of Altering Days on Feed and Marketing Cattle on Specific Value-Based Pricing Grids
Economic Analysis of Calf Versus Yearling Finishing
Phosphorus Requirement of Finishing Feedlot Calves
Liming Effects of Beef Cattle Feedlot Manure and Composted Manure
Effect of Sawdust or Acid Application to Pen Surfaces on Nitrogen Losses from Open-Dirt Feedlots
Corn Bran Level in Finishing Diets and N Losses from Open-Dirt Pens
Effect of Sprinkling on Heat Stressed Heifers
Effect of Altered Feeding and Sprinkling on Performance and Body Temperature of Steers Finished in the Summer
Effect of Fiber Level in Finishing Diets on Diet Digestibility and Corn Silage Impact on Bacterial Crude Protein Production
Crude Protein and Wet Corn Gluten Feed Levels for Steam Flaked Corn Finishing Diets
Type of Corn Bran and Corn Processing Method in Beef Finishing Diets
Effects of Rumensin Level During an Acidosis Challenge

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The Effects of Marination and Cook Cycles on High and Low pH Beef Muscles
Factors Influencing Color Development in Beef
Using Lean Color and Marbling Score to Sort Beef Carcasses into Tenderness Groups
Use of Sodium Citrate to Enhance Tenderness and Palatability of Pre-rigor Beef Muscles
Oral Dosage from NutroCAL™ (Calcium Propionate) to Enhance Beef Tenderness
Effect of Conjugated Linoleic Acid on Insulin Sensitivity
Influence on Body Fat of Linoleic Acid Isomers
Evaluation of Calcium Propionate as a Nutrient to Prevent Dark Cutting Beef


Cow/Calf
A Comparison of Beef Cattle Crossbreeding Systems Assuming Value-Based Marketing
June Versus March Calving for the Nebraska Sandhills: Production Traits
June versus March Calving for the Nebraska Sandhills: Economic Comparisons
June Versus March Calving for the Nebraska Sandhills: Economic Risk Analysis
Protein Supplements and Performance of Cows and Calves in June-Calving Production Systems
Performance and Economics of Winter Supplementing Pregnant Heifers Based on the Metabolizable Protein System
Forage Intake and Nutrient Balance of Heifers Grazing Sandhills Winter Range
Summer Grazing and Fall Grazing Pressure Effects on Protein Content and Digestibility of Fall Range Diets
Annual Forage Production and Quality Trials

Growing
Compensatory Growth and Slaughter Breakevens of Yearling Cattle
Undegradable Intake Protein Supplementation of Compensating, Grazing Steers

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Undegradable Intake Protein Content of Corn Steep Compared to Soybean Meal
Utilization of Bt Corn Hybrids in Growing Beef Steers
Wet Corn Gluten Feed Supplementation of Calves Grazing Corn Residue
Impact of Grazing Corn Stalks in the Spring on Crop Yields

Finishing
Economic Returns of Wet Byproducts as Cattle Feed
Urinary Allantoin Excretion of Finishing Steers: Effects of Grain Adaptation and Wet Milling Byproduct Feeding
Programmed Gain Finishing Systems In Yearling Steers Fed Dry-rolled Corn Or Wet Corn Gluten Feed Finishing Diets
Economic Evaluation of Corn Processing for Finishing Cattle
Effect of Corn Processing on Degradable Intake Protein Requirement of Finishing Cattle
High Moisture and Dry-Rolled High-Oil Corn for Finishing Feedlot Steers
Corn Processing Method in Finishing Diets Containing Wet Corn Gluten Feed
Implant Programs for Feedlot Heifers Using Synovex® Plus™
The Effect of Feeding Pressed Sugar Beet Pulp in Beef Cattle Feedlot Finishing Diets
Effects of Feeding Regimen on Performance, Behavior and Body Temperature of Feedlot Steers
Restricted Feeding Strategies for Reducing Heat Load of Yearling Steers
Managing Heat Stress in Feedlot Cattle Using Sprinklers
The Relationship of the Characteristics of Feedlot Pens to the Percentage of Cattle Shedding Escherichia coli O157:H7 Within the Pen
A Diagnostic Strategy to Classify Pens of Feedlot Cattle by the Prevalence of Escherichia coli O157:H7 Fecal Shedding
Influence of Restricted Intake and Reduced Dietary Starch on Colon pH and E. coli Prevalence
Phosphorus and Nitrogen-Based Beef Cattle Manure or Compost Application to Corn
Composting of Feedlot and Dairy Manure: Compost Characteristics and Impact on Crop Yields

Beef Products
Consumer Acceptance and Value of Strip Steaks Differing in Marbling and Country-of-Origin
Physical and Chemical Properties of 39 Muscles from the Beef Chuck and Round
Fiber Type Composition of the Beef Chuck and Round
The Effects of Post-Harvest Time and Temperature on Glycolytic Potential of Beef Muscle
The Role of Muscle Glycogen in Dark Cutting Beef

New Technology
Dietary Conjugated Linoleic Acids (CLA) and Body Fat Changes
Changes to the Purine Assay Improve Purine Recovery and Assay Precision
Urinary Allantoin Excretion as a Marker of Microbial Crude Protein Supply for Cattle
Evaluation of 1996 Beef Cattle NRC Model and Development of Net Energy Modifiers


Acknowledgments
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Age of Calf at Weaning of Spring-Calving Beef Cows and the Effect on Production Economics
Supplementing Metabolizable Protein to Yearling Heifers Grazing Winter Range
Refinement of the MGA/PGF Synchronization Program for Heifers Using a 19-Day PGF Injection
Replacement Heifer Development Programs
Copper Levels and Sources in Pre- and Post-calving Diets of First-Calf Cows

Growing
Effects of Length of Grain Feeding and Backgrounding Programs on Beef Carcass Characteristics
Compensatory Growth Response and Breakeven Economics of Yearling Steers on Grass
Evaluation of the 1996 Beef Cattle NRC Model Predictions of Intake and Gain for Calves Fed Low or Medium Energy Density Diets
Escape Protein Supplementation of Yearling Steers and Summer Born Calves on Native Sandhills Range
Metabolizable Protein Estimates of Treated Soybean Meal Products
Protein Evaluation of Porcine Meat and Bone Meal Products
Sugar Beet Pulp and Corn Silage for Growing Yearling Steers
Whole or Cracked Corn in Growing Rations or Steer Calves
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- Influence of Diet on Total and Acid Resistant E. coli and Colonic pH
- Effects of Programmed Gain Feeding Strategies on Performance and Carcass Characteristics of Yearling Steers
- Sorting or Topping-off Pens of Feedlot Cattle
- Growth Implants for Heifers
- Delayed Implant Strategies Using Synovex® Plus™ on Performance and Carcass Characteristics in Finishing Yearling Steers
- Effect of DiaFil (Diatomaceous Earth) Fed With or Without Rumensin® and Tylan®, on Performance, Internal Parasite and Coccidiosis Control in Finishing Cattle
- The Effect of V-Max® on Performance and Carcass Characteristics of Finishing Cattle Fed Corn and Corn By-product Finishing Diets
- Effects of Increasing Rumensin Level During a Potential Acidosis Challenge
- Solvent-extracted Germ Meal as a Component of Wet Corn Gluten Feed: Effect on Ruminal Acidosis
- Effect of Dry, Wet, or Rehydrated Corn Bran on Performance of Finishing Yearling Steers
- Phase-feeding Metabolizable Protein for Finishing Steers
- Dietary Phosphorus Effects on Waste Management and Nutrient Balance in the Feedlot
- Effect of Increasing Dietary Corn Silage on Performance, Digestibility and Nitrogen Mass Balance in the Feedlot
- Feed Program Impact on Land Requirements for Managing Manure Nutrients from a Feedlot
- Exporting Feedlot Manure to Off-farm Users
- Cleaning Coliform Bacteria from Feedlot Water Tanks

Beef Products
- Adding Value to Low-quality Beef Muscles Through Glycolytic Inhibition in Pre-rigor Muscle
- The Effects of Induced Stress and Supplemental Chromium on Meat Quality of Finishing Heifers


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- Effects of Time of Weaning on Cow and Calf Performance
- Summer Grazing Date and Fall Grazing Intensity Effects on Protein Content and Digestibility of Fall Diets in the Nebraska Sandhills
- Climate Affects Calf Birth Weights and Calving Difficulty
- Trace Mineral Supplementation and Ovarian and Luteal Function in Pubertal Heifers
- Progesterone Metabolism by the Liver and Brain During the Estrous Cycle of Heifers

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- Cysteine from Feather Meal and Sulfur Amino Acid Requirements for Growing Steers
- Hog Hair Meal as a Protein Source for Ruminants
- Pork Meat and Bone Meal Value Relative to Soybean Meal for Growing Calves
- Steer Performance within Summer Grazing Systems
- Calf Performance Grazing Crop Residues in Combination with Rye in Fall and Winter

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- Predicting Amount of Compensatory Gain
- Corn Bran, Solvent-Extracted Germ Meal, and Steep Liquor Blends for Finishing Yearlings
- Corn and Sorghum Distiller Grains for Finishing Cattle
- Fat Addition and Restricted Feeding of Corn Gluten Feed Diets for Cattle Exposed to Environmental Stress
- Performance of Yearling Steers Fed Beet Pulp or Chicory Pulp Rations
- Crude Protein and Energy Combinations for Finishing Yearling Steers
- Effects of Rumensin Level and Bunk Management Strategy on Finishing Steers
- Dietary Management for Starting Finishing Yearling Steers on Feed
- Effects of Programmed Gain on Performance and Carcass Characteristics in Calves
- Evaluation of Revalor®-G as an Initial Implant for Yearling Steers
- Evaluation of Growth Promoting Systems for Heifer Calves Finished in the Feedlot
- Implant Strategies on Performance and Carcass Characteristics of Finishing Steers
- Feedlot Marketing/Sorting Systems to Reduce Carcass Discounts
- Effects of Matching Protein to Requirements on Performance and Waste Management in the Feedlot
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   N-alkane as an Internal Marker for Predicting Digestibility of Forages
   Protein Evaluation of Treated Soybean Meal Products
   Use of Neutral Detergent Insoluble Protein in Omasal Samples to Estimate Escape Protein

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   Hormonal Influence on Fat Synthesis in Cattle
   Glycolytic Inhibition in Pre-rigor Muscle: An Alternative Method to Improve Beef Tenderness
   The Relationship of Beef Primal Cut Composition to Overall Carcass Composition
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   Spring versus Summer Calving for the Nebraska Sandhills: Production Characteristics
   Performance of Summer- and Spring-Born Calves Finished as Calves or Yearlings
   Use of the NRC Model for Evaluating Nutrient Balances of Grazing Beef Cattle
   Dried Poultry Waste as a Protein Supplement for Cows Grazing Winter Forages
   Escape Protein Supplementation and Weaning Effects on Calves Grazing Meadow Regrowth
   Calving Difficulty and Calf Response to Stress
   Effect of Summer Grazing on Crude Protein and Digestibility of Winter Diets of Cattle in the Nebraska Sandhills
   Ruminal Degradation of Rubisco by Beef Cattle Grazing Switchgrass and Big Bluestem
   Evaluating Stress in Calves Weaned at Three Different Ages
   Induction of Estrus in Anestrous Sucked Beef Cows
   A Novel Estrous Synchronization Program for Beef Cattle Using Melengestrol Acetate
   Effects of Luteinizing Hormone Releasing Hormone Antagonist On The Bovine Corpus Luteum
   Regulation of LH Secretion by Progesterone in Heifers
   Prolonged Elevated Concentrations of Estradiol Do Not Affect Conception Rates in Beef Cattle

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   Evaluation of Feather Meal for Calves Grazing Cornstalks
   Feather Meal as a Source of Sulfur Amino Acids for Growing Steers
   Cull Dry Edible Beans in Growing Calf Rations
   Comparative Calf Grazing of Corn and Soybean Residues

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   Solvent-Extracted Germ Meal for Receiving Calves
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   Lipid Sources in Finishing Diets for Yearling Steers
   An Enzyme-Microbial Feed Product for Finishing Steers
   Lime Filtrate as a Calcium Source for Finishing Cattle
   Extended Grazing and Byproduct Diets in Beef Growing Finishing Systems
   Effect of Winter Gain on Summer Rate of Gain and Finishing Performance of Yearling Steers
   Summer and Fall Forage Grazing Combinations: Five-Year Summary
   Metabolism and Digestibility of Corn Bran and Corn Steep Liquor/Distillers Solubles
   Effects of Feed Intake Variation on Acidosis and Performance of Finishing Steers
   Observations on Acidosis Through Continual Feed Intake and Ruminal pH Monitoring
   Phosphorus Requirement of Finishing Yearlings
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   Evaluation of 1996 NRC for Protein and Phosphorus Requirements of Finishing Cattle
   Nutrient Balance of Nitrogen, Organic Matter, Phosphorus and Sulfur in the Feedlot
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   In Situ Method for Estimating Forage Protein Degradability

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   Tenderness and Retail Stability of Hydrodyne-Treated Beef
   Dietary Calcium and Phosphorous: Relationship to Beef Tenderness and Carcass Maturity
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Rumen Degradable Protein Requirement of Gestating Summer Calving Beef Cows Grazing Dormant Native Sandhills Range
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A Low Roughage Diet Alternative for Finishing Cattle
Time of Feeding Influence on Cattle Exposed to Heat
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Composting of Feedlot Waste-Update of Research Activities