Summary of Scheduled Events

**Tuesday, June 19, 2007**
4:00 pm - 7:00 pm  Registration  
University of Idaho, Student Commons  
(outside Whitewater Room)

4:30 pm - 6:00 pm  WSASAS Executive Committee Meeting  
Idaho Commons, Panorama Room

**Wednesday, June 20, 2007**
7:00 am - 5:00 pm  Registration  
University of Idaho, Student Commons  
(outside Whitewater Room)

8:00 am - 4:30 pm  Beef Symposium  
“The Repercussions of Lifetime Nutrition Programs”  
Idaho Commons, Whitewater Room

6:30 pm - 9:00 pm  Welcome Reception  
Idaho Commons, Green Room

**Thursday, June 21, 2007**
7:00 am – 12:30 pm  Registration  
University of Idaho, Student Commons  
(outside Whitewater Room)

8:00 am - 10:00 am  Graduate Student Competition  
University Administration Building, Auditorium

10:00 am - 10:15 am  BREAK  
Administration Building, Auditorium Foyer

10:15 am - Noon  Graduate Student Competition  
(continued)

1:30 pm - 3:15 pm  Breeding & Genetics  
Idaho Commons, Crest Room
1:30 pm - 4:00 pm  Extension Symposium
Idaho Commons, Aurora Room

1:30 pm - 4:15 pm  Ruminant Nutrition
Idaho Commons, Panorama Room

2:00 pm - 4:00 pm  Poster Session I
Idaho Commons, Whitewater Room
(Behavior, Breeding & Genetics,
Extension, Nonruminant Nutrition,
Ruminant Nutrition)

3:00 pm -3:15 pm  BREAK
University of Idaho, Student Commons

3:30 pm  ARPAS exams
Idaho Commons, Crest Room
(also available on an appointment basis)

6:30 pm  Awards Program/Banquet
Student Union Building, Ballroom

Friday, June 22, 2007

7:15 am  ARPAS exams
Idaho Commons, Horizon Room
(also available on an appointment basis)

8:00 am - 9:00 am  WSASAS Business Meeting
University Administration Building, Auditorium

9:15 am -11:15 am  Poster Session II
Idaho Commons, Whitewater Room
(Environment and Livestock Management, Food Safety,
Growth & Development, Pastures & Forages, Physiology)

9:15 am -10:45 am  Environment & Livestock Management,
Pastures & Forages, Growth & Development
Idaho Commons, Aurora Room

9:15 am -Noon  Physiology
Idaho Commons, Crest Room

10:15 am - 10:30 am  BREAK
University of Idaho, Student Commons

11:30 am - 12:30 pm  WSASAS Executive Committee Meeting
Idaho Commons, Panorama Room
2007 ASAS Western Section Meeting

Wednesday, June 20 — Friday, June 22, 2007

SYMPOSIA AND ORAL SESSIONS

Beef Symposium

The Repercussions of Lifetime Nutrition Programs

Chair: Chad Mueller, Oregon State University Idaho Commons, Whitewater Room

7:00 AM  Registration.

8:00 AM  Welcome & Introductions. Dr. Tim Ross, New Mexico State University, WSASAS President, Dr. Carl Hunt, University of Idaho, Dr. Chad Mueller, Oregon State University.

8:15 AM  Impact of Lifetime Nutrition on Beef Female Development and Reproductive Efficiency. Dr. Ron Lemenager, Purdue University.

9:00 AM  Impact of Cow Nutrition on Subsequent Calf Development. Dr. Bret Hess, University of Wyoming.

9:45 AM  Break.

10:15 AM  Impact of Pre-Weaning Nutrition Programs on Calf Growth and Development. Dr. Glenn Duff, University of Arizona.

11:00 AM  How Does Genetic Selection Impact Production and Growth Efficiency? Dr. A. Hayden Brown, Jr., University of Arkansas.

11:45 AM  Recognition of Symposium Sponsors.

12:00 PM  Lunch.

1:30 PM  Producer Perspective: How Do Nutrition Programs Influence Bull Selection Decisions? Larry Lorenzen, Lorenzen Ranches, Pendleton, OR.

2:15 PM  Break.
Influence of Commodity Prices on Long-Term Nutritional Decisions. Dr. Dillon Feuz, Utah State University.

Panel of Speakers - Q & A.

Opening Reception
Wednesday 6:30 - 9:00 PM
Chair: Richard Battaglia
Commons Green

Thursday, June 21

Graduate Student Paper Competition
Chair: Dr. Charles Gaskins,
Washington State University
Administration Auditorium

8:00 AM Introductions.

8:00 AM 1 A Meta-analysis Evaluation of Feeding MGA® to Feedlot Heifers Implanted with TBA. J Wagner and N Davis*, Colorado State University, Fort Collins CO USA.

8:15 AM 2 Reproductive performance in early postpartum Rambouillet ewes and prepubertal ewe lambs treated with intravaginal progesterone. J. M. Benavidez*, M. J. Hendricks, R. L. Knight, L. D. Abercrombie, and D. M. Hallford, New Mexico State University, Las Cruces, New Mexico, USA.

8:30 AM 3 Heterogeneous variance of docility scores in Limousin cattle. D. W. Beckman* and D. J. Garrick, Colorado State University, Fort Collins, CO, US.

8:45 AM 4 Effects of MGA and PG600 on Fertility in Rambouillet Ewes Outside the Normal Breeding Season. E.J. Windorski*1, C. Schauer2, D. Pearson2, A. Wurst3, E.K. Inskeep3, and J.S. Luther1,2, 1Department of Animal & Range Sciences, North Dakota State University, Fargo, ND, United States, 2Hettinger Research Extension Center, North Dakota State University, Hettinger, ND, United States, 3Davis Col-
9:00 AM 5 Effects of bunk scoring on feedlot steer intake. J Schutz*, J Wagner, and T Engle, Colorado State University, Fort Collins, CO, USA.

9:15 AM 6 RECEPTOR TRANSPORTING PROTEIN-4 (RTP4) EXPRESSION AND LOCALIZATION IN THE OVARY AND ENDOMETRIUM OF CYCLIC AND EARLY PREGNANT EWES. C.A. Gifford**, A.A. Assiri§, M.C. Satterfield¶, T.E. Spencer∥, and T.L. Ott¶, ¹University of Idaho, Moscow, ID, USA, ²Washington State University, Pullman, WA, USA, ³Texas A&M University, College Station, TX, USA, ⁴Pennsylvania State University, University Park, PA, USA.

9:30 AM 7 Stayability to alternate ages. B.W. Brigham*, S.E. Speidel, R.M. Enns, and D.J. Garrick, Colorado State University, Fort Collins, CO, USA.

9:45 AM 8 Duodenal flow and intestinal disappearance of fatty acids in lambs fed safflower fatty acids in the form of whole seeds, cracked seeds, or oil extracted from seeds. P.L. Price*, V. Nayigihugu, C.M. Murrieta, D.C. Rule, and B.W. Hess, University of Wyoming, Laramie, Wyoming, U.S.A.

10:00 AM Break.

10:15 AM 9 Significant Association of Corticotropin-releasing Hormone Gene with Marbling and Subcutaneous Fat Depth in Wagyu x Limousin Crosses. T Wibowo*, J. J Michal, and Z Jiang, Washington State University, Pullman, WA, USA.

10:30 AM 10 GENETIC PARAMETER ESTIMATES FOR ULTRASOUND INDICATORS OF CARCASS PERFORMANCE IN RED ANGUS CATTLE. S. E. Speidel**¹, R. M. Enns§, B. W. Brigham¹, and L. D. Keenan², ¹Colorado State University, Fort Collins, CO, USA, ²Red Angus Association of America, Denton, TX, USA.
10:45 AM  11 Nitric oxide and polyamine response to prostaglandin F$_{2\alpha}$ in the early and mid-stage ovine corpus luteum. B.R. Schilling*, K.K. Kane, L.M. Dixon, R.D. Speckmann, and D.E. Hawkins, New Mexico State University, Las Cruces, NM, USA.

11:00 AM  12 Expression and distribution of urea transporter-B in lambs fed increasing dietary protein. R. M. Stohrer*, K. J. Austin, R. L. Atkinson, E. L. Belden, and P. A. Ludden, University of Wyoming, Laramie, WY.


11:30 AM  14 SELECTION INTENSITIES, GENERATION INTERVALS AND POPULATION STRUCTURE OF RED ANGUS CATTLE. G.C. Márquez* and D.J. Garrick, Colorado State University, Fort Collins, CO, USA.

11:45 AM  15 The ability of a yeast-derived cell wall preparation to minimize toxic effects of high-alkaloid tall fescue straw in beef cattle. M. L. Merrill*, D. W. Bohnert, D. L. Harmon, A. M. Craig, and F. N. Schrick, 1Eastern Oregon Agricultural Research Center, Oregon State University, Burns, OR, USA, 2Department of Animal Sciences, University of Kentucky, Lexington, KY, USA, 3College of Veterinary Medicine, Oregon State University, Corvallis, OR, USA, 4Animal Science Department, University of Tennessee, Knoxville, TN, USA.
Breeding and Genetics
Chair: Dr. Janet Rumph, Montana State University
Idaho Commons, Crest Room

1:30 PM 16 Estimation of heterotic effects on heifer pregnancy in crossbred beef cattle. C. M. McAllister*, D. D. Kress1, K. C. Davis1, D. C. Anderson1,2, R. M. Enns3, D. L. Boss2, and J. M. Rumph1, 1Montana State University, Bozeman, 2Montana State University, Havre, 3Colorado State University, Fort Collins.

1:45 PM 17 Genetic analysis of rebreeding to produce a calf at three years of age in the Montana Line 4 Hereford herd. J. M. Rumph*, D. D. Kress1, K. C. Davis1, D. C. Anderson1,2, and D. L. Boss2, 1Montana State University, Bozeman, 2Montana State University, Havre.

2:00 PM 18 Retrospective analysis of selection applied to a ratio. M. D. MacNeil*, USDA Agricultural Research Service, Miles City, MT.

2:15 PM 19 Iterative solution of linear equations from national beef cattle evaluation. D. J. Garrick*, B. W. Brigham, and S. E. Speidel, Colorado State University, Fort Collins.

2:30 PM 20 Urotensin 2 and its receptor as potential candidate genes for beef marbling score and subcutaneous fat depth. D. J. Tobey, T. F. Daniels, J. J. Michal, and Z. Jiang*, Washington State University, Pullman.

2:45 PM 21 Ultrasound estimates of loin muscle measures and backfat thickness augment live animal prediction of weights of subprimal cuts in sheep. T. D. Leeds*, M. R. Mousel1, D. R. Notter2, and G. S. Lewis1, 1USDA-ARS, U. S. Sheep Experiment Station, Dubois, ID, 2Virginia Polytechnic Institute and State University, Blacksburg.
3:00 PM 22 Identification of factors affecting Angus bull sale prices. K. L. Shirley* and D.J. Garrick, Colorado State University, Fort Collins.

Extension Symposium
Chair: Dr. Manny Encinias, New Mexico State University
Idaho Commons, Aurora Room

1:30 PM 23 The extension service and the beef industry: Yesterday vs. today. J. A. Paterson*, Montana State University, Bozeman.


3:00 PM Break.


Ruminant Nutrition
Chair: Dr. Alex Hristov & Dr. Jason Ahola, University of Idaho
Idaho Commons, Panorama Room


1:45 PM 27 Influence of slice baling alfalfa hay on digestive function of steers consuming a feedlot finishing diet. F. Loya-Olguín1, A. M. Encinias1, D. A. Walker1, N. A. Elam1, L. Avendaño-Reyes2, and S. A. Soto-Navarro*3, 1New Mexico State University, Clayton, 2Instituto de Ciencia Agrícolas, Universidad Autónoma de Baja California, Mexicali,
2:00 PM  28  Long-chain fatty acid flow to the duodenum of cattle fed limited amounts of forage plus supplementary ruminally undegradable protein containing fishmeal. B. W. Hess*, E. J. Scholljegerdes², C. M. Murrieta¹, and D. C. Rule¹, ¹University of Wyoming, Laramie, ²USDA-ARS, Mandan, ND.

2:15 PM  29  In vitro ruminal protein degradability of barley varieties. A. N. Hristov*, G. A. Broderick², C. W. Hunt¹, T. Fife¹, and W. J. Price¹, ¹University of Idaho, Moscow, ²U.S. Dairy Forage Research Center, Madison, WI.


2:45 PM  31  Characterization of forage trace mineral concentration by season in diets of beef cows grazing native range in eastern Colorado. J. K. Ahola*¹, J. C. Whitittier², W. S. Mackay², P. A. G. A. Sampaio², and T. E. Engle², ¹University of Idaho, Caldwell, ²Colorado State University, Fort Collins.

3:00 PM  Break.

3:15 PM  32  Influence of supplemental whole flaxseed level on forage intake and site and extent of digestion in beef heifers consuming native grass hay. E. Scholljegerdes* and S. Kronberg, Northern Great Plains Research Laboratory, USDA-ARS, Mandan, ND.

3:30 PM  33  Backgrounding calves with annual forage crops. A. L. Todd*, L. M. M Surber¹, S. D. Cash¹, M. M. Stamm², C. S. Schauer², M. M. Thompson¹, and A. Hafla¹, ¹Montana State University, Bozeman, ²North Dakota State University, Hettinger.

3:45 PM  34  Effects of bacterial endotoxin and dietary protein on serum hormones

4:00 PM 35 Impacts of supplemental glucogenic precursors and cow age on post-partum range cow performance. R. L. Endecott*, S. H. Cox¹, and M. K. Petersen², ¹Montana State University, Bozeman, ²New Mexico State University, Las Cruces.

ARPAS Exams
Thursday 3:30 - 5:30 PM
Chair: Richard Frahm
Idaho Commons, Crest Room

POSTER PRESENTATIONS

Behavior
Idaho Commons, Whitewater Room


Breeding and Genetics
Idaho Commons, Whitewater Room

38 Characterization of Brahman, Brangus, Charolais, Gelbvieh and Simmental for growth traits in Baja California, Mexico. A. P. Marquez*, J. S. Saucedo¹, M. Montaño¹, V. Armendariz¹, and J. N. Guerrero², ¹Universidad Autonoma de Baja California, Mexicali, Baja California, Mexico, ²University of California, Agricultural and Natural Resources, Holtville, CA.


Estimates of genetic parameters for weight in the progeny of Nubian, French Alpine, Saanen, Toggenburgh, and Spanish goats mated to Boer sires. A. P. Marquez*, J. S. Saucedo¹, M. Montaño¹, and J. N. Guerrero², ¹Universidad Autonoma de Baja California, Mexicali, Baja California, Mexico, ²University of California, Agricultural and Research Center, Holtville, CA.

Extension

Idaho Commons, Whitewater Room


Nonruminant Nutrition

Idaho Commons, Whitewater Room


Commercial phytases of Aspergillus niger in broilers’ diets. S. Godoy¹, C. F. Chicco¹, G. Hernández¹, and P. Pizzani², ¹Instituto Nacional de Investigaciones Agrícolas (INIA), Maracay, Aragua, Venezuela, ²Universidad Rómulo Gallegos, San Juan de los Morros, Guárico, Venezuela.

Ruminant Nutrition

Idaho Commons, Whitewater Room

Investigation of the bioavailability of manganese from organic vs. inorganic supplements. J. Hall¹, H. Winger¹, P. Hole*, and R. Samford², ¹Utah State University, Logan, ²Albion Advanced Nutrition, Hico, TX.


49 WITHDRAWN.


51 In situ rates of insoluble macromineral release from alfalfa and tropical grasses and relationships with dry matter disappearance. K Buck*1, J. R. Carpenter1, M. S. Thorne1, and B. W. Mathews2, ¹CTAHR, University of Hawaii at Manoa, Honolulu, ²CAFNRM, University of Hawaii, Hilo.


54 Effect of water quality on Holstein calf performance. D. Domínguez*1, J. Ventura1, G. Villalobos1, J. Jaimes2, J. A. Ortega1, and L. Carlos1, ¹Universidad Autónoma de Chihuahua, Chihuahua, Chihuahua, México, ²Universidad Autónoma de Chapingo, Bermejillo, Durango, México.

WSASAS Awards Banquet
Thursday 6:30 - 9:00 PM
Chair: Ken Olson, South Dakota State University
Student Union Ballroom

Friday, June 22
SYMPOSIA AND ORAL SESSIONS

ARPAS Exams
Friday 7:15 - 9:15 AM
Chair: Richard Frahm
Idaho Commons, Horizon Room

WSASAS Business Meeting
Friday 8:00 – 9:00 am
Chair: Dr. Tim Ross, WSASAS President
University Administration Building, Auditorium

Environment & Livestock Management
Chair: Dr. Benton Glaze, University of Idaho
Idaho Commons, Aurora Room

9:15 AM  56 Prevalence of *Salmonella* and *E. coli* 0157:H7 large herd dairies in southwestern United States and northern Mexico. C. H. Martinez¹, T. S. Edrington², J. D. Thomas¹, T. T. Ross*¹, S. Soto-Navarro¹, R. R. Redden³, B. J. Herron¹, and D. T. Yates¹, ¹New Mexico State University, Las Cruces, ²USDA-ARS, College Station, TX, ³Montana State University, Bozeman.

9:30 AM  57 Low-input pasture backgrounding system is more profitable through harvest than high-input drylot system. C. P. Mathis*¹, S. H. Cox¹, M. K. Petersen¹, C. L. Löest¹, R. L. Endecott², and M. Encinias¹, ¹New Mexico State University, Las Cruces, ²Montana State University, Bozeman.
Reproductive performance of heifers offered ad libitum or restricted access to feed for a 140-d period after weaning. A. J. Roberts*, E. E. Grings, M.D. MacNeil, R. C. Waterman, L. J. Alexander, and T. W. Geary, USDA-ARS, Fort Keogh LARRL, Miles City, MT.

Growth and attainment of puberty in heifers from cows supplemented with linseed meal during early lactation. B. R. Isle*, J. D. Kirsch†, S. Paasch¹, K. G. Odde¹, R. N. Funston², G. P. Lardy¹, and K. A. Vonnahme¹. ¹North Dakota State University, Fargo, ²University of Nebraska West Central Research & Extension Center, North Platte.

Concentrations of glucose, NEFA, thyroxine, and triiodothyronine in primiparous, anestrous, suckled beef cows exposed to bulls. J. R. C. Wilkinson*, S. A. Tauck, J. R. Olsen, and J. G. Berardinelli, Montana State University, Bozeman.

Cortisol concentration patterns during acclimatization to facilities and protocols necessary for intensive blood sampling in primiparous, postpartum, suckled beef cows. J. R. Olsen*, S. A. Tauck, J. R. C. Wilkinson, and J. G. Berardinelli, Montana State University, Bozeman.

Comparison of using 7- or 14-d CIDR treatments in an estrous synchronization protocol that included PGF₂α, timed AI and GnRH in primiparous, suckled beef cows. S. A. Tauck*, J. R. C. Wilkinson, J. R. Olsen, and J. G. Berardinelli, Montana State University, Bozeman.


Study of the PortaSCC® milk test to estimate somatic cell count (SCC) and detect subclinical mastitis in sheep. E. Kretschmer*, D. Holcombe, E. Huether, D. Redelman, and G. Fernandez, University of Nevada, Reno, Sierra Cytometry/ UNR Cytometry Center, Reno, NV.

Effects of supplementation of tasco-ex on infertility in young male goats experiencing heat stress. D. T. Yates*, M. W. Salisbury, and H. Anderson, New Mexico State University, Las Cruces, Angelo State University, San Angelo, TX., Anderson Consulting, Garden City, KS.

Protein supplementation of ruminants consuming low-quality cool- or warm-season forage: Differences in intake and digestibility. D. W. Bohnert*1, T. DelCurto2, A. A. Clark2, M. L. Merrill1, S. J. Falck3, and D. L. Harmon4, 1Eastern Oregon Agricultural Research Center, Oregon State University, Burns, 2Eastern Oregon Agricultural Research Center, Oregon State University, Union., 3Eastern Oregon Agricultural Research Center, ARS-USDA, Burns, OR, 4University of Kentucky, Lexington.

Sheep grazing wheat summer fallow and the impact on soil nitrogen, moisture, and crop yield. E. E. Snyder*1, H. B. Goosey1, P.G. Hatfield1, and A. W. Lenssen2, 1Montana State University, Bozeman, 2USDA, ARS, Sidney, MT.

Relationship between residual feed intake and meat quality in steer progeny of divergent intramuscular fat EPD angus bulls. J. K. Ahola*3, L. T. Campbell1, J. I. Szasz1, T. A. Skow1, C. W. Hunt1, J. B. Glaze, Jr.2, and R. A. Hill1, 1University of Idaho, Moscow, 2University of Idaho, Twin Falls, 3University of Idaho, Caldwell.
POSTER PRESENTATIONS

Environment & Livestock Management

Idaho Commons, Whitewater Room

71 Relationship of dam’s body weight, milk components, and milk energy density to reindeer calf growth rate. M. P. Shipka\*1,3, J. E. Rowell1, and A. J. Young2, 1University of Alaska, Fairbanks, 2Utah State University, Logan, 3Washington State University, Pullman.

72 Impact of equine anthelmintics on dung beetle reproduction. T. Black1, E. Lewis\*1, B. Clymer2, and J. L. Beckett1, 1California Polytechnic State University, San Luis Obispo, 2Fort Dodge Animal Health, Amarillo, TX.


74 Effect of copper supplementation on artificial insemination conception rate of Angus cows and feedlot performance of Angus bulls. N. A. Dunbar, B. J. May, M. W. Salisbury\*1, C. B. Scott, and M. T. Schafer, Angelo State University, San Angelo, TX.

75 The effect of protein level on feedlot performance and carcass characteristics of Texas Rambouillet ewes. N. Mendoza1, B. J. May\*1, M. W. Salisbury1, G. R. Engdahl1, and G. G. Hilton2, 1Angelo State University, San Angelo, TX, 2Oklahoma State University, Stillwater.

76 Use of N-alkanes to estimate seasonal intake, digestibility, and diet composition of small ruminants grazing in California chaparral. N. Narvaez\* and W. Pittroff, University of California, Davis.

77 Effect of cobalt supplementation and estrous synchronization on body weight gain and conception rates in yearling ewes and peripubertal ewe lambs. G. E. Moss\*1, K. M. Cammack1, B. A. Larson1, B. M. Alexander1, R. H. Stobart1, W. J. Hill2, and B. W. Hess1, 1Department of Animal Science, Laramie, WY, 2Ralco Nutrition, Marshall, MN.
Effect of field pea and flaxseed inclusion in receiving calf diets and carryover effect on finishing performance, immune response, carcass quality, and economics. D. G. Landblom*1 and C. J. Wachenheim2, 1North Dakota State University, Dickinson, 2North Dakota State University, Fargo.

Readability of thirteen different RFID ear tags by three different multi-panel reader systems for use in beef cattle. L. Wallace*, J. Paterson, A. Ankney, R. Clark, A. Kellom, M. Harbac, and M. Miller, Montana State University, Bozeman.

Food Safety
Idaho Commons, Whitewater Room

Effects of season, management, and diet on prevalence of Shiga toxin-producing Escherichia coli in dairy cattle. L. M. Bollinger*, H. S. Hussein1, and E. R. Atwill2, 1University of Nevada, Reno, 2University of California, Davis.

Growth & Development
Idaho Commons, Whitewater Room

Serum thyroxine, triiodothyronine and IGF–1 correlate with posweaning growth and carcass traits in lambs. C. A. Ayala1, J. C. Estrada1, G. A. Lara1, F. A. Rodriíguez–Almeida1, J. A. Ramirez–Godínez1, D. M. Hallford2, and G. N. Aguilar1, 1Universidad Autónoma de Chihuahua, Mexico, 2New Mexico State University, Las Cruces.

Pastures and Forages
Idaho Commons, Whitewater Room

Visual obstruction: Weight technique for estimating production on northwestern bunchgrass prairie rangelands. D. Damiran*1, T. DelCurto1, E. Darambazar1, A. A. Clark1, P. L. Kennedy1, and R. V. Taylor2, 1Oregon State University, Union, 2The Nature Conservancy, Enterprise, OR.
Respiratory elimination of selenium in sheep given the accumulator plant *Symphyotrichum spathulatum* (western mountain aster). A. Wilhelm*1, B. L. Stegelmeier2, K. E. Panter2, and J. O. Hall1, 1Utah State University, Logan, 2USDA/ARS Poisonous Plant Research Laboratory, Logan, UT.

Species composition and diversity on northwestern bunchgrass prairie rangelands. E. Darambazar*1, T. DelCurto1, D. Damiran1, A. A. Clark1, and R.V. Taylor2, 1Oregon State University, Union, 2The Nature Conservancy, Enterprise, OR.

Utilization of corn gluten meal by heifers as a self-fed supplement. J. T. Mulliniks*1, S. H. Cox1, J. E. Sawyer2, R. Worley3, and M. K. Petersen1, 1New Mexico State University, Las Cruces, 2Texas A&M University, College Station, 3Alderman-Cave Feeds, Roswell, NM.

Effects of tallow supplementation to steers grazing wheat pastures on grazing and feedlot finishing performance. A. Islas*, T. Edwards, and S. A. Soto-Navarro, New Mexico State University, Las Cruces.


Effects of supplemental ground flaxseed on the growth performance of steers grazing summer native pasture in the northern Great Plains. E. Scholljegerdes* and S. Kronberg, *Northern Great Plains Research Laboratory, USDA-ARS, Mandan, ND.

**Physiology**

Idaho Commons, Whitewater Room

BioPRYN, A blood-based pregnancy test for managing breeding and pregnancy in cattle. J. Howard*1, C. Passavant1, D. Pals1,3, T. Gray2, N. Sasser1, G. Gabor1, A. Ahmadzadeh3, and G. Sasser1,3, 1BioTracking LLC, Moscow, Idaho, 2Holgate Land and Cattle, Plaines, TX, 3University of Idaho, Moscow, 4Research Institute for Animal Breeding, Herceghalom, Hungary.

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Western Section

American Society of Animal Science

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2000-01 N.E. Cockett, Utah State University
1999-00 J.A. Paterson, Montana State University
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1996-97 G.H. Coulter, Agriculture Canada, Lethbridge
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1993-94  K.G. Odde, Colorado State University
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1992-92  D.L. Garner, University of Reno-Nevada
1990-91  R.A. Bellows, USDA, Miles City
1989-90  M. Vavra, Oregon State University
1988-89  A.C. Linton, Montana State University
1987-88  D.M. Halford, New Mexico State University
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1985-86  D.E. Ray, University of Arizona
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1981-82  R.W. Stanley, University of Hawaii
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1979-80  M.H. Kennington, California State Poly Univ.
1978-79  R.W. Gardner, Brigham Young University
1977-78  R.L. Preston, Washington State University
1976-77  T.R. Greathouse, Colorado State University
1975-76  D.C. England, Oregon State University
1974-75  R.L. Blackwell, Montana State University
1973-74  D.M. Bowden, Agriculture Canada Research
1972-73  W.N. Garrett, University of California
1971-72  J.E. Butcher, Utah State University
1970-71  C.J. Kercher, University of Wyoming
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1967-68  A.L. Newmann, New Mexico State University
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1965-66  O.O. Thomas, Montana State University
1964-65  R. Bogart, Oregon State University
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1954    H. Heitman, Jr., University of California
1953    J. L. VanHorn, Montana State University
1952    L.E. Harris, Utah State University
1951    C.E. Terrill, USDA, Idaho
1950    A.W. Oliver, Oregon State University
1949    R.F. Miller, University of California
1948    E.B. Stanley, University of Arizona
1947    F.S. Hultz, University of Wyoming
1943-46  J.H. Knox, New Mexico State University
1942    R.T. Clark, Montana State University
1941    H.R. Guilbert, University of California
1940    J. Sotola, Washington State University
1938-39  J.E. Norby, University of Idaho
1937    E.H. Hughes, University of California
1935-36  C.W. Hickman, University of Idaho
1934    F.S. Hultz, University of Wyoming
1932-33  J.F. Wilson, University of California
1930-31  J.A. Hill, University of Wyoming
1929    E.L. Potter, Oregon State University
AWARDS
Western Section
American Society of Animal Science

Distinguished Service Awards

2006   Not Given
2005   M. K. Petersen, New Mexico State University
2004   M. Vavra, Oregon State University
2003   T. Grandin, Colorado State University
2002   D.M. Hallford, New Mexico State University
2001   P.R. Cheeke, Oregon State University
2000   G.E. Bradford, University of California
1999   R.E. Short, USDA, Montana
1998   D.E. Johnson, Colorado State University
1997   M.W. McCollough, Moorman’s High Plains SMA.
1996   R.A. Field, University of Wyoming
1995   C.F. Nockles, Colorado State University
1994   K. Koong, Oregon State University
1993   J.S. Brinks, Colorado State University
1992   J.D. Wallace, New Mexico State University
1991   C.B. Theurer, University of Arizona
1990   M.H. Kennington, California State Poly Univ.
1989   C.W. Newman, Montana State University
1988   C.J. Kercher, University of Wyoming
1987   D.C. England, Oregon State University
1986   W.N. Garrett, University of California-Davis
1985   R.L. Blackwell, Montana State University
1984   V.R. Bohman, University of Nevada-Reno
1983   R.A. Belloys, USDA, Montana
1982   D.C. Church, Oregon State University
1981   W.H. Hale, University of Arizona
1980   R.J. Raleigh, Oregon State University
1979   J.K. Matsushima, Colorado State University
1978   P.T. Cupps, University of California-Davis
1977   J.P. Bowland, University of Alberta
1976   G.P. Lofgreen, University of California-Davis
1975   I.A. Dyer, Washington State University
1974   J.E. Oldfield, Oregon State University
1973   H.H. Stonaker, Colorado State University
1972   L.E. Harris, Utah State University
1971   R. Bogart, Oregon State University

Young Scientists

2006   T. E. Engle, Colorado State University
2005   D. W. Bohnert, Oregon State University
2004   D. H. Crews, Jr., Agriculture Canada
2003   B.W. Hess, University of Wyoming
2002   T.W. Geary, USDA-ARS, Miles City, MT
2001   D.E. Hawkins, New Mexico State University
2000   T.J. DelCurto, Oregon State University
1999   K.E. Belk, Colorado State University
1998   N.E. Cockett, Utah State University
1997   J.G.P. Bowman, Montana State University
1996   M.E. Miranda, Washington State University
1995   M.B. Judkins, University of Nevada-Reno
1994   M.E. Wise, University of Arizona
1993                J.D. Tatum, Colorado State University  
1992                M.K. Petersen, New Mexico State University  
1991                W.J. Murdock, University of Wyoming  
1990                D.C. Adams, USDA, Miles City  
1989                A.R. Menino, Oregon State University  
1988                M.L. Galyean, New Mexico State University  
1987                R. Allen, University of Arizona  
1986                J.R. Males, Washington State University  
1985                G.B. Anderson, University of California-Davis  
1984                E.L. Squires, Colorado State University  
1983                G.E. Seidel, Colorado State University  
1982                P.J. Burfening, Montana State University  
1981                R.W. Wright, Jr., Washington State University  
1980                T.M. Nett, Colorado State University  
1979                P.R. Cheeke, Oregon State University  
1978                S.L. Davis, University of Idaho  
1977                J.J. Reeves, Washington State University  
1976                C.C. Kaltenbach, University of Wyoming  
1975                G.D. Niswender, Colorado State University

Extension Award

2006                J. E. Sprinkle, University of Arizona  
2005                C. Mathis, New Mexico State University  
2004                W. F. Gipp, Montana State University  
2003                J. A. Paterson, Montana State University  
2002                S. B. LeValley, Colorado State University  
2001                D.R. Zobell, Utah State University  
2000                R.L. Hathaway, Oregon State University  
1999                A.M. Swinker, Colorado State University  
1998                J.C. Whittier, Colorado State University  
1997                J.W. Oltjen, University of California-Davis  
1996                R.W. Kott, Montana State University  
1995                N.J. Stenquist, University of Utah  
1994                R.C. Torrell, University of Nevada-Reno  
1993                J.E. Nel, University of Wyoming  
1992                D.L. Hixon, University of Wyoming  
1991                L.J. Krysl, University of Nevada-Reno  
1990                T.L. Stanton, Colorado State University  
1989                C.G. Gibson, University of Idaho  
1988                R.M. Brownson, Montana State University  
1987                J.M. Sachse, New Mexico State University

Teaching Award

2006                A. M. Oberbauer, University of California, Davis  
2005                C. C. Calvert, University of California, Davis  
2004                J. Bowman, Montana State University  
2003                T. T. Ross, New Mexico State University  
2002                R. P. Ansotegui, Montana State University  
2001                B.F. Sowell, Montana State University  
2000                T.R. Famula, University of California  
1999                D.W. Holcombe, University of Nevada, Reno  
1998                J.D. Tatum, Colorado State University  
1997                J.J. Reeves, Washington State University  
1996                R.D. Green, Colorado State University  
1995                T.G. Field, Colorado State University  
1994                D.W. Weber, Oregon State University  
1993                W.A. Schurg, University of Arizona  
1992                M.L. Riley, University of Wyoming  
1991                D.M. Hallford, New Mexico State University
First Place Recipients of the Competition Paper Award

2006    J. W. Waggoner, New Mexico State University
2005    T. M. Thelen, New Mexico State University
2004    S. L. Lake, University of Wyoming
2003    E. J. Scholljegerdes, University of Wyoming
2002    J. A. Morrison, Oregon State University
2001    O. J. Dennison, New Mexico State University
2000    M. Bertolini, University of California
1999    L. Brokaw, University of Wyoming
1998    L. R. McMahon, University of Saskatchewan
1997    T. M. M. Bernardini, Montana State University
1996    L. M. M. Surber, Montana State University
1995    S. I. Paisley, University of Wyoming
1994    K. A. Naivar, University of Wyoming
1993    M. J. Guthrie, New Mexico State University
1992    T. W. Geary, Washington State University
1991    M. A. Guthrie, Montana State University
1990    D. L. Rankins, New Mexico State University
1989    D. M. Grier, Washington State University
1988    M. Flood, Washington State University
1987    J. M. Miner, Montana State University
1986    J. S. Caton, New Mexico State University
1985    M. J. Garber, Washington State University
1984    J. Brown, Washington State University
1983    D. Honeyfield, Washington State University
1982    M. U. Marciano, Washington State University
1981    J. C. Throckmorton, Oregon State University
1980    C. L. Griggin, New Mexico State University
1979    M. K. Petersen, University of Idaho
1978    C. A. Hildebrand, University of Idaho
1977    S. R. Becker, Washington State University
1976    C. C. Calvert, Montana State University
1975    T. M. Bray, Washington State University
1974    C. Shreffler, Oregon State University
1973    P. V. Rattray, University of California
1972    A. Booren, University of Wyoming
1971    R. L. Quaas, Colorado State University
1970    D. Wideman, Colorado State University
1968    A. A. Howells, Washington State University

First Place Recipients of the Applied Animal Science Awards

2006    J. J. Martin, University of Nebraska
2005    R. R. Salverson, South Dakota State University
2004    E. H. Ward, South Dakota State University
2003    H. H. Patterson, South Dakota State University
2002    H. H. Patterson, South Dakota State University
2001    D. D. Kress, Montana State University
2000    R. L. Hathaway, Oregon State University
Institutional Graduate Student Paper Competition

2006       University of Wyoming
2005       University of Wyoming
2004       New Mexico State University
2003       University of Wyoming