



# New Mexico State University

## Department of Animal & Range Sciences

Number 229

June 29, 2006

### PUBLICATIONS

Recent publications by departmental faculty include the following:

“Differences among beef sire breeds and relationships between terrain use and performance when daughters graze foothill rangelands as cows,” H.C. VanWagoner, **D. W. Bailey**, D. D. Kress, D. C. Anderson, and K. C. Davis. *Applied Animal Behaviour Science* 97:105-121.

“Case Study: Metabolic hormone profiles and evaluation of associations of metabolic hormones with body fat and reproductive characteristics of Angus, Brangus, and Brahman heifers,” **R. Lopez**, **M. G. Thomas**, **D. M. Hallford**, D. H. Keisler, **G. A. Silver**, **B. S. Obeidat**, **M. D. Garcia**, and C. R. Krehbiel. *The Professional Animal Scientist* 22:273-282.

“The influence of melatonin on growth of *E. coli* O157:H7 in pure culture and exogenous melatonin on faecal shedding of *E. coli* O157:H7 in experimentally infected wethers,” C. L. Schultz, T. S. Edrington, T. R. Callaway, S. B. Schroeder, **D. M. Hallford**, K. J. Genovese, R. C. Anderson, and D. J. Nisbet. *Letters in Applied Microbiology* 43:105-110.

“Effects of diet for early-weaned crossbred beef steers on metabolic profiles and febrile response to an infectious bovine herpesvirus-1 challenge,” T. R. Whitney, G. C. Duff, J. K. Collins, D. W. Schafer, and **D. M. Hallford**. *Livestock Science* 101:1-9.

### WSASAS

The Western Section, American Society of Animal Science meeting was held June 21-23 in Logan, Utah. Those from NMSU attending were Mark Wise, Dennis Hallford, Tim Ross, Shanna Ivey, Sergio Soto-Navarro, Mark Petersen, Clint Löest, Clay Mathis, Reid Redden, Justin Waggoner, Sara Kuykendall, Alfonso Islas, Peggy McBee, Jillian Benavidez, Rachel Knight, Rachel Endecott, Beau Schilling, Maria Giacomini, Ashley Garrett, and Kim Richardson.

Papers/posters presented were (\*denotes presenter):

“Growing beef steers do not require supplemental dietary methionine during an endotoxin challenge,” Justin Waggoner\*, Clint Löest, Tonya Thelen, Mark Petersen, Dennis Hallford, Marta Remmenga, and Clay Mathis (graduate student paper competition)

“Effects of hCG and progesterone administered to ewes post breeding on serum concentrations of progesterone and estradiol,” Reid Redden\*, B. J. Herron, Cruz Martinez, and Tim Ross (graduate student paper competition)

“Effects of leafy spurge (*Euphorbia esula*) on ruminant gas production and in vitro digestion,” Kimberly Richardson\*, W. L. Kelly, M. S. Reil, Richard Waterman, and Shanna Lodge-Ivey (graduate student paper competition)

“An evaluation of Western Whiteface lamb loss on the range,” Reid

Redden\*, Shad Cox, Michael Rubio, and Tim Ross

“Effects of prophylactic administration of Ceftiofur crystalline free acid on health and performance of newly received beef calves,” Manny Encinias\*, Derek Walker, C. W. Murdock, Laurie Reeves, Kathryn Malcolm-Callis, and Sergio Soto-Navarro

“Metabolic hormone profiles in Rambouillet lambs during the preweaning period,” Peggy McBee\*, Rachel Knight, Jillian Benavidez, Leslie Abercrombie, and Dennis Hallford

“Assessing the nutritive value of one-seed juniper in sheep,” Maria Giacomini\*, Santiago Utsumi, Shanna Lodge-Ivey, Andrés Cibils, Sergio Soto-Navarro, Rachel Endecott, and Mark Petersen

“Diet quality impacts on ewe nutrient partitioning,” Rachel Endecott\*, Shanna Lodge-Ivey, Kim Kane, Lane Dixon, Maria Giacomini, Beau Schilling, Sergio Soto-Navarro, Clint Löest, Dean Hawkins, and Mark Petersen

“Effect of fat supplementation of steers grazing wheat pasture on forage intake and digestion characteristics,” Darick Chabot, Cody Chabot, L. K. Conway, and Sergio Soto-Navarro

“Effects of energy level on post-ruminal valine utilization by sheep,” Sara Kuykendall\*, and Clint Löest

“Influence of slice baling alfalfa hay on hay quality and digestive function of steers consuming a feedlot finishing diet,” F. Loya-Olguin\*, Manny Encinias, Derek Walker, Nathan Elam, and Sergio Soto-Navarro

“Effects of urea supplementation level on performance of Suffolk lambs consuming a high concentrate diet,” Alfonso Islas\*, L. E. Camacho, Kat Beebee, Sergio Soto-Navarro, Jillian Benavidez, Rachel Knight, Peggy McBee, F. O. Loya, Leslie Abercrombie, and Dennis Hallford

“Feedlot performance and serum metabolic hormone profiles in lambs receiving four levels of soybean meal supplementation,” Elideth Camacho, Sergio Soto-Navarro, Jillian Benavidez, Rachel Knight, Peggy McBee, F.O.Loya, Leslie Abercrombie, and Dennis Hallford

“Body condition and somatotropin influence endocrine and follicular dynamics of postpartum Brahman-influenced cows,” Rene Flores, Mike Looper, R. W. Rorie, M. A. Lamb, S. T. Reiter, Dennis Hallford, Dave Kreider, and Charles Rosenkrans, Jr.

In the Graduate Student Paper Competition, **Justin Waggoner** received **FIRST PLACE**, out of 13 papers presented in this section.

Faculty members serving on various committees for WSASAS include Tim Ross (President, 2006-2007; Chair-Awards Committee), Dennis Hallford (ASAS Board of Directors), Mark Petersen (Awards Committee), Mark Wise (Symposium Committee), Clint Löest (Advising and Coordinating Committee), Sergio Soto-Navarro (Graduate Student Paper Competition and Academic Quadrathlon); Manny Encinias (Extension Committee).

### NEUMANN COMPETITION

The annual A. L. Neumann Scientific Paper Competition for Animal



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Science Graduate Students was held on June 15 with four students participating. Serving as judges were Sergio Soto-Navarro and Rachel Endecott. First place was awarded to Justin Waggoner, Ph.D. student working with Clint Löest, for his presentation, "Growing beef steers do not require supplemental dietary methionine during an endotoxin challenge." Maria Giacomini, M. S. student with Mark Petersen finished second. Other participants included Reid Redden, M. S. student with Tim Ross, and Kimberly Richardson, M.S. student with Shanna Lodge-Ivey. Beau Schilling, a M.S. student with Dean Hawkins, also gave a presentation, "Intraluteal treatment of ovine CL with selective COX inhibitors" as a non-competition paper.

### ETC.

Santiago Utsumi, a range science Ph.D. candidate working with Andrés Cibils, attended the 14<sup>th</sup> Wildland Shrub Symposium in Cedar City, Utah on June 6-8. He presented a poster titled "One-seed juniper intake by sheep and goats supplemented with degradable or by-pass protein."

Jack Thomas has been selected as a recipient of the "Master Builder of Men Award", the highest honor bestowed upon an alumnus of FarmHouse. His wife, Cathy, will also be honored with a similar award from CERES. They will be recognized at the Conclave in Nashville on August 9-13.

Mike Galyean, animal science alumnus and former faculty member, has been selected as President-Elect of the American Society of Animal Science, while

Craig Gifford has been selected as Graduate Director of ASAS. Craig received his M.S. in animal science at NMSU in 2004 and is currently pursuing his Ph.D. at University of Idaho. He replaces Jennifer Hernandez, also an NMSU alumnus, on the Board of Directors of ASAS.

Dolly Castro, RITF secretary for the past 8.5 years, will retire after 26 years of total service to NMSU in Cooperative Extension on June 30, 2006. A reception in her honor will be held Friday, June 30 from 2:30 – 4:30 pm in the Social Living Center in Gerald Thomas Hall. Monica Hernandez will become the new RITF secretary.



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