

CODY B. SCOTT, Ph.D.

Professor

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Career Objective

The development and implementation of education and research programs on improving use of the environment by ruminants.

Education

Utah State University, Logan, Utah.

Doctor of Philosophy in Rangeland Resources (1995)

Angelo State University, San Angelo, Texas.

Master of Science in Animal Science (1992)

Bachelor of Science in Animal Science/Range Option (1990)

Current Research Projects

- Experiences early in life to increase juniper consumption by goats
- Supplementation strategies to increase juniper consumption by goats
- Comparison of juniper intake by different breeds of sheep
- Supplementation strategies to reduce bitterweed toxicity
- Preference and nutritional quality of onions as a supplemental feed
- Will bitterweed ingestion affect reproductive performance of sheep?
- Using goats to reduce the number of mesquite seedlings
- Using fire to reduce mesquite seed viability and seedling success
- Comparison of Tordon 22K, Surmount, and Vista for control of cacti
- Spray formulations for mesquite control

Publications

- Scott, C.B., W.H. Schacht, and C.S. McCown. 1993. Response of herbaceous vegetation to short duration grazing in central west Texas. *Texas J. Agric. Nat. Resour.* 6:1-9.
- Scott, C.B., F.D. Provenza, and R.E. Banner. 1995. Dietary habits and social interactions affect choice of feeding location by sheep. *Appl. Anim. Behav.*, 45: 225-237.
- Scott, C.B., W.H. Schacht, C.S. McCown, and S. Hartmann. 1995. Observations of grass community dynamics in short duration grazing systems, West Texas. *Texas J. Agric. Nat. Resour.* 8: 1-12.
- Scott, C.B., R.E. Banner, and F.D. Provenza. 1996. Observations of sheep foraging in familiar and unfamiliar environments: familiarity with the environment influences diet selection. *Appl. Anim. Behav. Sci.* 49:165-171.
- Armke, F.W. and C.B. Scott. 1999. Using Cattle to disperse seeds for winter forage plants. *Tex. J. Agric. Nat. Resour.* 12:28-38.
- Bisson, M.G., C.B. Scott, C.A. Taylor, Jr., and R.A. Moen. 2001. Activated charcoal and experience affect intake of juniper by goats. *J. Range Manage.* 54:274-278.
- Branham, L.A., M.A. Carr, C.B. Scott, and T.R. Callaway. 2005. *E. coli* O157:H7 and *Salmonella spp.* in white-tailed deer and livestock. *Current Issues in Gastrointestinal Microbiology.* 6:25-29.
- Campbell, E.S., B.S. Engdahl, C.J. Lupton, C.B. Scott, C.A. Taylor, Jr., D.F. Waldron, J.W. Walker, and W.R. Whitworth. 2007. Chapter 65: The use of fecal NIRS to identify levels of consumption of the toxic shrub juniper in a selective breeding program with goats. *In: Panter, K.E., T.L. Wierenga, and J.A. Pfister. Poisonous Plants: Global Research and Solutions.* CABI Publishing, Wallingford, Oxon, UK.
- Coburn, C.A., B.J. May, D.R. Shelby, C.B. Scott, G.R. Engdahl. 1997. Effects of penned vs. pasture feeding techniques on cortisol levels in weaned Angus bulls *Tex. J. Agri. Nat. Resour.* 10:93-100.
- Cook, R.W., C.B. Scott, and F.S. Hartmann. 2008. Short-term mesquite pod consumption by goats does not induce toxicity. *Range. Ecol. Manage.* 61:566-570.
- Deeds, B.E. II, C.B. Scott, and R. Brantley. 2009. Feeding shinoak to meat goats

- improves four-wing saltbush and total intake. *Tex. J. Agri. Natur. Res.* (in press).
- Dietz, T.H., C.B. Scott, C.A. Taylor, Jr., C.J. Owens and E.S. Campbell. 2009. Feeding Redberry Juniper (*Juniperus pinchottii*) at Weaning Increases Juniper Consumption on Pasture. *Rangeland Ecology and Management* (accepted).
- Dunson, W.T, C.B. Scott, E.S. Campbell, C.A. Taylor, Jr., M.A. Carr, and T.R. Callaway. 2007. Chapter 64: Rumen function and the ability of goats to consume redberry juniper (*Juniperus pinchottii*). *In: Panter, K.E., T.L. Wierenga, and J.A. Pfister. Poisonous Plants: Global Research and Solutions.* CABI Publishing, Wallingford, Oxon, UK.
- Ellis, C.R., R.E. Jones, C.B. Scott, C.A. Taylor, Jr., J.W. Walker, and D.F. Waldron. 2005. Sire influence on juniper consumption by goats. *Rangeland Ecology and Management* 58:324-328
- Frost, R.A., C.B. Scott, J.W. Walker, and F.S. Hartmann. 2003. Effects of origin, genetics, and experiences early in life on bitterweed consumption by sheep. *Appl. Anim. Behav. Sci.* 84:251-264.
- George, C.H., C.B. Scott, T.R. Whitney, C.J. Owens, B.J. May, and R. Brantely. 2009. Supplements containing escape protein improve redberry juniper consumption by goats. *Rangeland Ecology and Management.* (submitted).
- Howery, L.D., F.D. Provenza, R.E. Banner, and C.B. Scott. 1998. Social and environmental factors influence cattle distribution on rangelands. *Appl. Anim. Behav. Sci.* 55:231-244.
- Howery, L.D., F.D. Provenza, R.E. Banner, and C.B. Scott. 1997. Differences in home range and habitat use among individuals in a cattle herd. *Appl. Anim. Behav. Sci.* 49:305-320.
- Kneuper, C.L., C.B. Scott, and W.E. Pinchak. 2003. Consumption and dispersion of mesquite seeds by ruminants. *J. Range Manage.* 56:255-259.
- Knutson, H.J., M.A. Carr, L.A. Branham, C.B. Scott, and T.R. Callaway. 2006. Effects of activated charcoal on binding *E. coli* O157:H7 and *Salmonella typhimurium* in sheep. *Small Rumin. Res.* 65:101-105.
- McMillan, Z., C.B. Scott, C.A. Taylor, Jr., and J.E. Huston. 2002. Nutritional quality and intake of prickly pear by goats. *J. Range Manage.* 55:139-143.
- Owens, C.J., C.B. Scott, C.A. Taylor, Jr., E.S. Campbell, and R. Brantley. 2009. Redberry juniper consumption does not adversely affect meat goat reproduction. *Tex J. Agri. Natur. Res.*(submitted).

- Poage, G.W. III, C.B. Scott, M.G. Bisson, F.S. Hartmann. 2000. Activated charcoal reduces bitterweed (*Hymenoxys odorata*) toxicosis in sheep. *J. Range Manage.* 53:73-78.
- Provenza, F.D., C.B. Scott, T.S. Phy and J.J. Lynch. 1995. Preference of sheep for foods varying in flavors and nutrients. *J. Anim. Sci.* 74:2355-2361.
- Provenza, F.D., J.J. Lynch, E.A. Burritt, and C.B. Scott. 1994. How goats learn to distinguish between novel foods that differ in postingestive consequences. *J. Chem. Ecol.* 20:609-624.
- Provenza, F.D., L. Ortega-Reyes, C.B. Scott, J.J. Lynch, and E.A. Burritt. 1994. Antiemetic drugs attenuate food aversions in sheep. *J. Anim. Sci.* 72:1989-1994.
- Salisbury, M.W., D.F. Waldron, G.R. Engdahl, C.J. Lupton, and C.B. Scott. 1999. Central test performance of Rambouillet rams as a predictor for growth and wool traits in feedlot and range environments. *Sheep & Goat Res. J.* 15:80-86.
- Salisbury, M.W., G.R. Engdahl, B.J. May, C.J. Lupton, and C.B. Scott. 1997. Effects of protein source on performance of Rambouillet rams. *Sheep & Goat Res. J.* 13:78-81.
- Slater, S.C., D. Rollins, R.C. Dowler, and C.B. Scott. 2001. *Opuntia*: a “prickly paradigm” for quail management in west-central Texas. *Wild Soc. Bull.* 29:713-719.
- Sluiter, R.S., B.J. May, M.W. Salisbury, C.B. Scott, and G.R. Engdahl, and B.F. Craddock. 2007. Feedlot performance and carcass traits of Texas Rambouillet feeder lambs implanted with growth implants. *Tex. J. Agri. Natur. Res.* 20:22-27.
- Straka, E., C.B. Scott, C.A. Taylor, Jr., E. M. Bailey. 2004. Biological control of the toxic shrub juniper. pp. 436-442. *In: Acamovic, T., C.S. Stewart, and T.W. Pennycott (eds.) Poisonous Plants and Related Toxins.* CABI Publishing, London.
- Walker, J.W., E.R. Kott, E.S. Campbell, S. Landau, C.J. Lupton, C.B. Scott, L. Surber, C.A. Taylor, Jr., and W.R. Whitworth. 2009. Fecal NIRS for predicting botanical composition of herbivore diets. *Rangeland Ecology and Management* (submitted).

Presentations at Scientific Meetings

- Scott, C.B., W.H. Schacht, C.S. McCown, and S. Hartmann. 1991. Vegetation response to short duration grazing in a semidesert region. *Abstr. Tex. Sec. Soc. for Range Manage. Annual Meeting.*

- Scott, C.B., W.H. Schacht, C.S. McCown, and S. Hartmann. 1992. Vegetation response to short duration grazing in a semidesert region. *Abstr. Soc. for Range Manage.* 45:15.
- Scott, C.B., F.D. Provenza, and R.E. Banner. 1994. Sheep with different dietary habits forage in separate locations. *Abstr. Soc. for Range Manage.* 47:44-45.
- Scott, C.B., F.D. Provenza, and R.E. Banner. 1995. Does familiarity with the environment influence choice of foraging locations by sheep? *Abstr. Soc. for Range Manage.* 48:56-57.
- Scott, C.B., R.E. Banner, and F.D. Provenza. 1996. Observations of cattle grazing behavior in the Sawtooth National Forest: Implications for management. *Abstr. Soc. for Range Manage.* 49:68-69.
- Scott, C.B., T.H. Dietz, and C. Taylor. 2006. Increasing consumption of juniper by goats through exposure at weaning. Invited Presentation, Western Extension, Research, and Academic Coordinating Committee 039, San Angelo, Texas.
- Armke, F.W. and C.B. Scott 1997. Using cattle as dispersal agents of seeds for winter forage plants. *Abstr. Tex. Sec. Soc. Range Manage. Annual Meeting.*
- Armke, F.W. and C.B. Scott 1998. Using cattle as dispersal agents of seeds for winter forage plants. *Abstr. Soc. for Range Manage.* 51:63.
- Bawcom, D.W., B.J. May, D.R. Shelby, G.R. Engdahl and C.B. Scott. 1996. Effect of time of supplemental feeding on condition score and body weight of Angus and Beefmaster cows. *J. Anim. Sci.* 74:243 (Suppl 1).
- Bisson, M.G., G.W. Poage III, C.B. Scott, and S. Hartmann. 1997. Activated charcoal reduces bitterweed (*Hymenoxys odorata*) toxicosis in sheep. *Abstr. Tex. Sec. Soc. for Range Manage. Annual Meeting.*
- Bisson, M.G., G.W. Poage III, and C.B. Scott 1998. Activated charcoal reduces bitterweed (*Hymenoxys odorata*) toxicosis in sheep. *Abstr. Soc. for Range Manage.* 51:22.
- Bisson, M.G. C.B. Scott, C.A. Taylor, Jr., and R.A. Moen. 1998. Can activated charcoal increase intake of redberry and ashe juniper? *Abstr. Tex. Sec. Soc. Range Manage.*
- Bisson, M.G. C.B. Scott, C.A. Taylor, Jr., and R.A. Moen. 1999. Can activated charcoal increase intake of redberry and ashe juniper? *Abstr. Soc. Range Manage* 52:5.

- Campbell, E., B. Taylor, C. Lupton, D. Waldron, J. Walker, C. Scott, and T. Dietz. 2005. Environment: maximizing your genetics. Sheep and Goat Field Day, San Angelo, Texas.
- Carter, P.S., D. Rollins, and C.B. Scott. 2002 Initial effects of prescribed burning on survival and nesting success of northern bobwhites in west-central Texas. Proceedings of the National Quail Symposium 5:129-134.
- Coburn, C.A., B.J. May, D.R. Shelby, G.R. Engdahl and C.B. Scott. 1996. The effects of penned versus pasture feeding on cortisol levels in weaned Angus bulls. J. Anim. Sci. 74:127 (Suppl 1).
- Cook, R.W. and C.B. Scott. 2004. Will consumption of mesquite pods induce toxiciosis in Goats? Tex. Sec. Soc. Range Manage. Annual Meeting, Kerrville.
- Cook, R.W. and C.B. Scott. 2005. Will consumption of mesquite pods induce toxiciosis in goats? Society Range Management, Fort Worth, Texas. 58:64.
- Deeds, B.E. and C.B. Scott. 2005. Interaction of tannins and saponins in the ruminant diet. Society Range Management, Fort Worth, Texas. 58:77.
- Dietz, T.H., C.B. Scott, C.A. Taylor, Jr., and E.J. Campbell. 2006. Feeding redberry juniper (*Juniperus pinchottii*) at weaning increases juniper consumption on pasture. Abstr. Soc. Range Manage.
- Dunbar, N.A., B.J. May, M.W. Salisbury, C.B. Scott and M.T. Schafer. 2007. Effect of copper supplementation on artificial insemination conception rate of Angus cows and feedlot performance of Angus bulls. J. Anim. Sci. 85:173, Supplement 2.
- Dunson, W.T., C.B. Scott, E.J. Campbell, C.A. Taylor, Jr., M.A. Carr, and T.R. Calloway. 2004. Is rumen function responsible for detoxifying terpenoids in redberry juniper? Tex. Sec. Soc. Range Manage. Annual Meeting, Kerrville.
- Dunson, W.T., C.B. Scott, E.J. Campbell, C.A. Taylor, Jr., M.A. Carr, and T.R. Calloway. 2005. Is rumen function responsible for detoxifying terpenoids in redberry juniper?. Society Range Management, Fort Worth, Texas 58:97.
- Ellis, C.R., and C.B. Scott. 2001. Sustainable juniper control by goats in west central Texas. Abstr. Tex. Sec. Soc. for Range Manage. Annual Meeting.
- Ellis, C.R. and C. Scott. 2003. Hand-spray formulations for controlling mesquite. GLCI meeting, Nashville.
- Ellis, C.R., C.B. Scott, C.A. Taylor, Jr., and D.F. Waldron. 2003. Sustainable juniper control by goats in west central Texas. Abstr. Soc. Range Manage. Abstr. Soc. for Range Manage. #70.

- Frost, J.B., C.B. Scott, D. Rollins, and K.A. Cearley. 1998. Does strategic trapping improve nesting success of bobwhite quail? Abstr. Tex. Sec. Soc. for Range Manage.
- Frost, J.B., C.B. Scott, D. Rollins, and K.A. Cearley. 1999. Strategic mesomammal population control to increase bobwhite nesting success. Abstr. Tex. Sec. Soc. for Range Manage.
- Frost, J.B., C.B. Scott, D. Rollins, and K.A. Cearley. 2000. Strategic mesomammal population control to increase bobwhite nesting success. Abstr. Soc. for Range Manage. 53:1.
- Frost, R.A., and C.B. Scott. 1999. The effect of genetic characteristics and experiences early in life on bitterweed consumption by sheep. Abstr. Tex. Sec. Soc. for Range Manage.
- Frost, R.A., and C.B. Scott. 2000. The effect of genetic characteristics and experiences early in life on bitterweed consumption by sheep. Abstr. Soc. for Range Manage. 53:49.
- George, C., C.B. Scott, C.A. Taylor, Jr., C.J. Owens, M.W. Salisbury, and B.J. May. 2008. Effects of protein supplementation on juniper consumption by goats. Abstr. Soc. for Range Manage. 61:1898.
- George, C., C.B. Scott, C.A. Taylor, Jr., C.J. Owens, M.W. Salisbury, and B.J. May. 2007. Effects of protein supplementation on juniper consumption by goats. Abstr. Tex. Sec. Soc. for Range Manage.
- Howery, L.D., F.D. Provenza, R.E. Banner, and C.B. Scott. 1995. The influence of mothers and peers in determining the location and habitat use patterns of individuals in a cattle herd. Abstr. Soc. for Range Manage. 48:28.
- Kneuper, C.L. and C.B. Scott. 1998. Cattle consumption of mesquite (*Prosopis glandulosa*) fruit affects germination of mesquite seedlings. Abstr. Tex. Sec. Soc. for Range Manage.
- Kneuper, C.L., C. B. Scott, and W.E. Pinchak. 1999. Intake and survival rates of mesquite (*Prosopis glandulosa*) seeds by three species of livestock. Abstr. Tex. Sec. Soc. for Range Manage.
- Kneuper, C.L., C. B. Scott, and W.E. Pinchak. 2000. Intake and survival rates of mesquite (*Prosopis glandulosa*) seeds by three species of livestock. Abstr. Soc. for Range Manage. 53:51.

- Kuhlmann, K.K., D.R. Shelby, C.B. Scott, B.J. May, and G.R. Engdahl. 1998. The use of an electronic estrous detection system to monitor estrous behavior in Angus females of various ages. *J. Anim. Sci. (Suppl 1)* 76:271.
- Laxson, J.D., W.H. Schacht, C.B. Scott, and B. Herrington. 1992. Control of honey mesquite with low-volume basal applications of triclopyr at four rates and three seasons. *Abstr. Tex. Sec. Soc. for Range Manage. Annual Meeting*.
- Lewis, S.J., B.J. May, G.R. Engdahl, D.F. Waldron, C.B. Scott and D.R. Shelby. 1997. Feedlot performance and carcass traits of Boer goat crosses and Spanish male kids. *J. Anim. Sci. (Suppl 1)* 75:275.
- Lyons, E.K., J. Frost, D. Rollins, B. Taylor, C. Scott. 2006. An evaluation of short-term mesocarnivore control for increasing hatch rate in northern bobwhites (*Colinus virginianus*). *Gamebird Proceedings*.
- May, B.J., M.T. Schafer, D.R. Shelby, G.R. Engdahl, and C.B. Scott. 1998. Effect of poultry by-product meal on performance of weaned Angus bulls. *J. Anim. Sci. (Suppl 1)* 76:253.
- McMillan, Z., C.A. Taylor, Jr., and C.B. Scott. 1999. Using goats as a biological control of prickly pear. *Abstr. Tex. Sec. Soc. Range Manage.*
- McMillan, Z., C.A. Taylor, Jr., and C.B. Scott. 2000. Using goats as a biological control of prickly pear. *Abstr. Soc. for Range Manage.* 53:52.
- Owens, C.J., C.B. Scott, M.W. Salisbury, and C.A. Taylor, Jr. 2007. Does juniper consumption by pregnant goats cause reproductive failure and/or reduction in neonatal viability. WERA 039. Corvallis, Oregon.
- Owens, C.J., C.B. Scott, M.W. Salisbury, and C.A. Taylor, Jr. 2008. Juniper consumption does not cause abortions or reduce neonatal viability in Boer-cross goats. *Abstr. Soc. Range Manage.* 61:1273.
- Owens, C.J., C.B. Scott, M.W. Salisbury, and C.A. Taylor, Jr. 2007. Juniper consumption does not cause abortions or reduce neonatal viability in Boer-cross goats. *Tex. Sec. Soc. Range Manage.*
- Pentecost, R.A. and C.B. Scott. 1998. Effects of dosing with different types of activated charcoal on prevention of bitterweed toxicosis and consumption of two nontoxic foods. *Abstr. Tex. Sec. Soc. Range Manage.*
- Pentecost, R.A., C.B. Scott, C.L. Kneuper, and J.B. Frost. 1999. Effects of dosing with different types of activated charcoal on prevention of bitterweed toxicosis and consumption of two nontoxic foods. *Abstr. Soc. Range Manage* 52:62.

- Pinchak, W.E., S.E. Showers, R.J. Ansley, M.K. Owens, J.E. Slosser, C.B. Scott, and W.R. Teague. 2002. Mesquite seed excretion patterns by cattle under rotational and continuous grazing and fire. Abstr. Soc. Range Manage.
- Poage, G.W. and C.B. Scott. 1996. Can activated charcoal bind the toxins in bitterweed? Abstr. Tex. Sec. Soc. for Range Manage. Annual Meeting.
- Rea, R.E., B.J. May, G.R. Engdahl, D.R. Shelby, and C.B. Scott. 1998. Effect of varying protein sources on performance of weaned bulls. J. Anim. Sci. (Suppl 1) 76:253.
- Reyna, F., C.B. Scott, and F.S. Hartmann. 2001. Physiological mechanisms to avoid bitterweed toxicity by sheep. Abstr. Tex. Sec. Soc. for Range Manage. Annual Meeting.
- Reyna, F. C. Scott, and C. Ellis. 2003. Efficacy and cost of the stem and leaf spray techniques on the Angelo State University Ranch. GLCI meeting, Nashville.
- Rollins, D., B.D. Taylor, T.D. Sparkes, R.J. Buntyn, S.E. Lerich, L.A. Harveson, C.B. Scott, and T.E. Waddell. 2008. Survival of scaled quail during the breeding season at 3 sites in the Chihuahuan desert. Proceedings of the National Quail Symposium 6.
- Salisbury, M.W., G.R. Engdahl, B.J. May, C.L. Lupton, C.B. Scott and D.R. Shelby. 1996. Effects of protein source on performance of Rambouillet rams. J. Anim. Sci. 74:253 (Suppl. 1).
- Salisbury, M. W., G. R. Engdahl, C. J. Lupton, D. R. Waldron, C. B. Scott, and B. J. May. 1997. Central test performance of Rambouillet rams as a predictor of progeny performance for growth and wool traits in feedlot and range environments. J. Anim. Sci. 75:283 (Suppl. 1).
- Sato, N.E.A., M.W. Salisbury, C.B. Scott, and G.R. Engdahl. 2006. Effect of *Solanum dimidiatum* on embryonic loss and neonatal lamb survival in Rambouillet sheep. Western Extension, Research, and Academic Coordinating Committee 039, San Angelo, Texas.
- Sato, N.E.A., M.W. Salisbury, C.B. Scott, C.J. Owens, and G.R. Engdahl. 2007. Potato weed (*Solanum dimidiatum*) ingestion does not cause embryonic loss or affect neonatal lamb survival. Abstr. Soc. Range Manage, #381, Reno, NV.
- Self, J.M., M.W. Salisbury, B.J. May, G.R. Engdahl, C.B. Scott, R. Horst. 2005. Vitamin D supplementation in fall born Rambouillet lambs raised on small grain pastures. Proc. West. Sect ASAS.

Stultz, J.R., B.J. May, G.R. Engdahl, M.A. Carr, C.B. Scott, R.L. Reed. 2001. Feedlot performance and carcass characteristics of Texas Rambouillet feeder lambs implanted with Zeranol implants. Proc. West. Sect. Amer. Soc. Anim. Sci. 52:223-227.

Taylor, B.D., J.E. Huston, D. Rollins, C.A. Taylor, Jr., and C.B. Scott. 2001. Easi-flow cottonseed intake by deer and non-target species in west Texas. Abstr. Tex. Sec. Soc. for Range Manage. Annual Meeting.

Whitworth, W.R.; C.B. Scott, J.W. Walker, C.A. Taylor, Jr., B.S. Engdahl, C.J. Lupton. 2003. Sources of variation for fecal nirs equations for predicting percent juniper in goat diets. Abstr. Soc. Range Manage. Abstr. Soc. for Range Manage. #317.

Achievement Awards

- Future Farmers of America Degree of American Farmer. 1998.
- Teaching Assistant of the Year. 1995. Utah State University College of Natural Resources.
- Outstanding Leadership in the field of Agricultural Education. 2007. Tom Green Soil & Water Conservation Service.
- Friend of Conservation. 2007 Region II Soil and Water Conservation Service.
- Outstanding Young Range Professional. 2007. Texas Section of Society for Range Management.
- Outstanding Young Range Professional. 2008. Society for Range Management.
- Professor of the Year, College of Sciences, 2009 Rammy Award.

Current Graduate Students

- Jess Anderson
- Kellen Cave
- Derrick Fuchs
- Dustin Klein
- Jaron Nevins
- Landon Pyle
- Kendall Tidwell

Teaching Duties, Angelo State University

Courses Taught During Fall Semesters

- ASCI 4345 Animal Behavior and Welfare
- RWM 3331 Principles of Range Management
- RWM 4333 Range Wildlife Management
- RWM 4391 Undergraduate Research
- RWM 6391 Graduate Research

Courses Taught During Spring Semesters

- RWM 2321 Forage Crop Production and Utilization
 - RWM 3335 Range Plants
 - RWM 6338 Range Animal Nutrition (Every-other spring)
 - RWM 6339 Grazing Management (Every-other spring)
 - RWM 4391 Undergraduate Research
 - RWM 6391 Graduate Research
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