

Citations from work performed on Santa Rita Experimental Range.

1978

Morton, H.L., Smith, E.L., Oliveira, M., Hull, H.M. 1978. Soil applied herbicides for brush control in Southwestern United States and Northeast Brazil. Proceedings of the First International Rangeland Congress, pp. 647-650.

1983

Cox, J.R., Schreiber, H.A., Morton, H.L. 1983. The initial growth of two range grasses on nonfertilized and fertilized soils collected from creosotebush communities in the Southwestern United States. Journal of Range Management 36: 726-729.

1984

Cox, J.R., Morton, H.L., Johnsen, T.N., Jr., Jordan, G.L., Martin, S.C., Fierro, L.C. 1984.

Vegetation restoration in the Chihuahuan deserts of North America. Rangelands 6: 112-115.

Cox, J.R., Parker, J.M., Stroehlein, J.L. 1984. Soil properties in creosotebush communities and their relative effects on the growth of seeded ranges. Soil Science Society of America Journal 6:112-115.

Ibarra, F.A., Morton, H.L. 1984. Tebuthiuron residues in chihuahuan and Sonoran Desert Soils. Proceedings Western Society of Weed Science 37: 113-127.

Ibarra, F.A., Morton, H.L. 1984. Chemical and mechanical control of woody plants in the creosote type of the Chihuahuan and Sonoran Deserts. Proceedings Western Society of Weed Science 37: 139-151

Melgoza, A., Morton, H.L., Melgoza, G. 1984. Botanical changes associated with applications of Tebuthiuron in creosotebush (*Larrea tridentata*) communities. Proceedings Western Society of Weed Science 37: 113-127.

Morton, H.L. 1984. Influence of Tebuthiuron formulation on control of woody plants and forage production. Proceedings Western Weed Control Conference 37: 129-138.

1986

Cox, J.R., Madrigal, R., D., Frasier, G.W. 1986. Survival of perennial grass transplants in the Sonoran Desert of the Southwestern USA. Arid Soil Research and Rehabilitation 1: 77-87

Oba, P.G. 1986. Effects of prescribed burning on the nutritive quality of Lehmann lovegrass (*Eragrostis lehmanniana* NEES). MS Thesis. School of Renewable Natural Resources, University of Arizona, Tucson.

1987

Cox, J.R., Johnsen, T.N., Jr., Morton, H.L. 1987. George Elmo Glendening -- an "unknown star" in Southwestern Range Research. Rangelands 9: 158-160.

Emmerich, W.E., Frasier, G.W., Fink, D. H. 1987. Relation between soil properties and effectiveness of low cost water-harvesting treatments. Soil Science Society of America Journal 51:213-219.

Ruyle, G.B., Hasson, O., Rice, R.W. 1987. The influence of residual stems on the biting rates of cattle grazing *Eragrostis lehmanniana* Nees. Applied Animal Behavior Science 19: 11-17.

1988

- Martin S.C., Severson K.E. 1988. Vegetation response to the Santa Rita grazing system. *Journal of Range Management* 41:291-295.
- Ruyle, G.B., Ogden, P.R., Rice, R.W. 1988. Cattle grazing patterns and response on Lehmann lovegrass (*Eragrostis lehmanniana* Nees) rangelands. *Applied Agricultural Research* 4: 177-181.
- Ruyle, G.B., Roundy, B.A., Cox, J.R. 1988. Effects of burning on germinability and emergence of Lehmann lovegrass. *Journal of Range Management* 41:404-406.

1989

- Abu-Zanat, M.M.W. 1989. Ingestive behavior of cattle grazing in lightly and heavily grazed patches of Lehmann lovegrass (*Eragrostis lehmanniana* Nees). PhD Dissertation, School of Renewable Natural Resources, University of Arizona, Tucson.
- Anable, M.E. 1989. Alien plant invasion in relation to site characteristics and disturbance: *Eragrostis lehmanniana* on the Santa Rita Experimental Range, Arizona 1937-1989. MS Thesis. School of Renewable Natural Resources, University of Arizona, Tucson.
- Cox, J.R., Stroehlein, J.L., Fourie, J.H.. 1989. Climatic and edaphic conditions at *Eragrostis Lehmanniana* Nees sites in Arizona, USA and the Cape Province, RSA and potential seeding sites in southern Africa. *Journal of Grassland Society of South Africa* 6: 139-145.

1990

- Cox, J.R., Ruyle, G.B., Roundy, B.A., Cox, J.R. 1990. Lehmann lovegrass in southeastern Arizona: biomass production and disappearance. *Journal of Range Management* 43:367-372.
- Lumbuenamo, S.D. 1990. Assessment of Biomass Dynamics of a Semi-desert Grassland by Remote Sensing Techniques. PhD Dissertation, Department of Soil, Water and Environmental Science, University of Arizona, Tucson.
- Morton, H.L. 1990. Creosotebush control and forage production in the Chihuahuan and Sonoran deserts. *Journal of Range Management* 43: 43-48
- Morton, H.L., Melgoza, A. 1990. Vegetation changes following brush control in creosotebush communities. *Journal of Range Management* 44:133-139
- Rice, R.W., Ruyle, G.B., Ramoeketsi, K.S. 1990. The selection ability of cattle grazing bunchgrass. *Proceedings of the Western Section, American Society for Animal Science* 41:293-294.

1991

1992

- Anable, M.E., McClaran, M.P. and Ruyle, G.B. 1992. Spread of introduced Lehmann lovegrass in southern Arizona, USA. *Biological Conservation* 61:181-188.
- Emmerich, W.E., Cox, J.R. 1992. Hydrologic characteristics immediately after seasonal burning of introduced and native grasslands. *Journal of Range Management* 45:476-479.
- Livingston, M. 1992. Factors influencing germination and establishment of Arizona cottontop, bush muhly, and plains lovegrass. PhD Dissertation, School of Natural Resource, University of Arizona, Tucson.

McClaran, M.P. and M.E. Anable. 1992. Spread of introduced Lehmann lovegrass along a grazing intensity gradient. *Journal of Applied Ecology* 29:92-98.

1993

Keys, Roy Nelson. 1993. Mating systems and pollination biology of velvet mesquite (*Prosopis velutina* Wooten). PhD Dissertation. School of Renewable Natural Resources, University of Arizona, Tucson.

Martin, S.C., Morton, H.L. 1993. Mesquite control increases grass density and reduces soil loss in Southern Arizona. *Journal of Range Management* 46: 170-175.

Munda, Bruce David. 1993. Germination characteristics of two yellow bluestems, *Bothriochloa ischaemum* (L.) Kang. MS Thesis. Department of Plant Sciences, University of Arizona, Tucson.

Van Duren, K.J. 1993. The influence of Lehmann lovegrass on two native grasses in the Semi-desert grassland. MS Thesis. School of Renewable Natural Resources, University of Arizona, Tucson.

1994

Douds, G.A. 1994. Recovery rate of Lehmann lovegrass (*Eragrostis lehmanniana* Nees) in a simulated short duration grazing system. MS Thesis. School of Renewable Natural Resources, University of Arizona, Tucson.

Emmerich, W.E., Cox, J.R. 1994. Changes in surface runoff and sediment production after repeated fall and spring rangeland burns. *Soil Science Society of America Journal* 58:199-203.

Gomes, H.S., Smith, E.L., Ruyle, G.B. 1994. Habitos de pastejo de vacas Hereford (*Bos taurus*) e Barzona (*Bos indicus*) em pastagen nativa no deserto do Arizona. In, Rodrigues, F.M., Dias Filho, F.A., Paiva, J.A. (Eds.). Fifth Simposio Nordestino de Alimentacao de Ruminantes. Salvador, Bahia, Brasil. pp. 175-176.

Keys, R.N., Smith, S.E.. 1994. Mating system parameters and population genetic structure in pioneer populations of *Prosopis velutina* (Leguminosae). *American Journal of Botany* 81:1013-1020.

1995

Gatica, R.A. 1995. Caryopsis and spikelet characteristics related to germination behavior in *Digitaria californica*. MS Thesis. School of Renewable Natural Resources, University of Arizona, Tucson.

Keys, R. N., Buchmann, S.L., Smith, S.E. 1995. Pollination effectiveness and pollination efficiency of insects foraging on *Prosopis velutina* in southeastern Arizona. *Journal of Applied Ecology* 32:519-527.

McClaran, M.P. 1995. Desert grasslands and grasses. In, McClaran, M.P., Van Devender, T.R. (Eds.). *The Desert Grassland*. University of Arizona Press, Tucson. pp.1-30.

Renken, W.J. 1995. In-vitro dry matter digestibility of Lehmann lovegrass (*Eragrostis lehmanniana* Nees) within grazed patch and lightly grazed areas. MS Thesis, University of Arizona, Tucson.

1996

- Biedenbender, S.H., Roundy, B.A. 1996. Establishment of native semidesert grasses into existing stands of *Eragrostis lehmanniana* in southeastern Arizona. *Restoration Ecology* 4:155-162.
- Medina, A.L. 1996. The Santa Rita Experimental Range: history and annotated bibliography (1903-1988). General Technical Report RM-GTR-276. USDA Forest Service, Rocky Mountain Forest and Range Experiment Station.
- Roundy, B.A., Biedenbender, S.H. 1996. Germination of warm-season grasses under constant and dynamic temperatures. *Journal of Range Management* 49:425-431.
- Ruyle, G.B., Rice, R.W. 1996. Aspects of forage availability and short-term intake influencing range livestock production. Proceedings, Grazing Livestock Nutrition Conference. V 0147, Suppl. 1, Proceedings Western Section American Society of Animal Science pp 40-50.

1997

- Livingston M., Roundy B.A., Smith S.E. 1997. Association of overstory plant canopies and native grasses in southern Arizona. *Journal of Arid Environments* 35: 441-449.
- Roundy, B.A., Abbott, L.B., Livingston, M. 1997. Surface soil water loss after summer rainfall in a semidesert grassland. *Arid Soil and Rehabilitation* 11:49-62.
- Swann, D E., Kuenzi, A.J., DeStefano, S., Morrison, M.L. 1997. The effects of blood sampling on survival of small mammals: a field study. *Journal of Mammalogy* 78:908-913.

1998

- Rogstad, K.A. 1998. Emergence and cool-season growth of Lehmann lovegrass and Arizona cottontop on different soils. MS Thesis. School of Renewable Natural Resources, University of Arizona, Tucson.

1999

- Abbott, L.A. 1999. Effects of planting date and species choice on the fate of planted warm-season perennial grass seeds: implications for revegetation. PhD Dissertation. School of Natural Resources, University of Arizona, Tucson.
- Angell, D.L. 1999. Twenty-five years of perennial grass dynamics in relation to grazing intensity and nonnative Lehmann lovegrass in a desert grassland range in southern Arizona. MS Thesis, School of Natural Resources, University of Arizona, Tucson.
- Emmerich, W.E. 1999. Nutrient dynamics of rangeland burns in southeastern Arizona. *Journal of Range Management* 52:606-614.
- Kuenzi, A.J., Morrison, M.L., Swann, D.E., Hardy, P.C., Downard, G.T. 1999. A longitudinal study of Sin Nombre virus prevalence in rodents, Southeastern Arizona. *Emerging Infectious Diseases* 5: 113-117.
- Whitford, W.G., Van Zee, J., Nash, M.S., Smith, W.E., Herrick, J.E. 1999. Ants as indicators of exposure to environmental stressors in North American desert grasslands. *Environmental Monitoring and Assessment* 54:143-171.

2000

- Riddle, B.R., Hafner, D.J., and Alexander, L.F. 2000. Phylogeography and systematics of the *Peromyscus eremicus* species group and the historical biogeography of North American warm regional deserts. *Molecular Phylogenetics and Evolution* 17:145-160.

- Smith, S.E., Riley, E., Tiss, J.L., Fendenheim, D.M. 2000. Geographical variation in predictive seedling emergence in a perennial desert grass. *Journal of Ecology* 88:139-149.
- Williams, D.G., Baruch, Z. 2000. African grass invasion in the Americas: ecosystem consequences and the role of ecophysiology. *Biological Invasions* 2:123-140.
- Womack, J.D. 2000. Mortality and sprouting vigor of burned and cut velvet mesquite (*Prosopis velutina* Wooten): The role of basal diameter and number of stem. MS Thesis, School of Natural Resources, University of Arizona, Tucson.

2001

- Angell, D.L., McClaran, M.P. 2001. Long-term influences of livestock management and a non-native grass dynamics in the Desert Grassland. *Journal of Arid Environments* 49:507-520.
- Aukema, J. E. 2001. Dispersal and spatial distribution of the desert mistletoe, *Phoradendron californicum*, at multiple scales: patterns, processes and mechanisms. PhD Dissertation. Department of Ecology and Evolutionary Biology, University of Arizona, Tucson.

2002

- Aukema, J.E. and Martínez del Rio, C. 2002. Where does a fruit eating bird deposit mistletoe seeds? Seed deposition patterns and an experiment. *Ecology* 83:3489-3496.
- Aukema, J. E. and C. Martinez del Rio. 2002. Mistletoes as parasites and seed-dispersing birds as disease vectors: current understanding, challenges, and opportunities. Pages 99-110/ in/ D. J. Levey, W. R. Silva, and M. Galetti, editors. /Seed Dispersal and Frugivory: Ecology, Evolution and Conservation. /CAB International Press. Oxfordshire, UK.
- Fravolini, A., Williams, D.G., Thompson, T.L. 2002. Carbon isotope discrimination and bundle sheath leakiness in three C₄ subtypes grown under variable nitrogen, water and atmospheric CO₂ supply. *Journal of Experimental Botany* 53:2261-2269.
- Gottesman, A.B. 2002. Movements and habitat use of the brush mouse. MS Thesis, School of Renewable Natural Resources, University of Arizona, Tucson.
- McClaran, M.P., Angell, D. L., Wissler, C. 2002. Santa Rita Experimental Range Digital Database User's Guide. USDA Forest Service, Rocky Mountain Research Station RMRS-GTR-100. 13 p.
- McIntosh, M.E. 2002. Flowering phenology and reproductive output in two sister species of *Ferocactus* (Cactaceae). *Plant Ecology* 159:1-13.
- McIntosh, M.E. 2002. Plant size, breeding system, and limits to reproductive success in two sister species of *Ferocactus* (Cactaceae). *Plant Ecology* 162:273-288.
- Morrison, M.L., Kuenzi, A.J., Brown, C.F., Swann, D.E.. 2002. Habitat trends and abundance of rodents in southeastern Arizona. *The Southwestern Naturalist* 47: 519-526.
- Schussman, H.R. 2002. Genetic variation in the introduced apomictic grass, *Eragrostis lehmanniana* Nees on the Santa Rita Experimental Range in southeastern Arizona, USA. MS Thesis. School of Natural Resources, University of Arizona, Tucson.
- Widmer, K.A. 2002. The relationship between *Agave palmeri* flower stalk herbivory and livestock management. MS Thesis. School of Natural Resources, University of Arizona, Tucson.
- Yates, T.L., Mills, J.N., Parmenter, C.A., Ksiazek, T.G., Parmenter, R.R., Vande Castle, J.R., Calisher, C.H., Nichol, S.T., Abbott, K.D., Young, J.C., Morrison, M.L., Beaty, Barry, J., Dunnum, J.L., Baker, R.J., Salazar-Bravo, J., Peters, C.J. 2002. The ecology and evolutionary history of an emergent disease: hantavirus pulmonary syndrome. *Bioscience* 52: 989-998.

2003

- Abbott LB, Roundy BA. 2003. Available water influences field germination and recruitment of seeded grasses. *Journal of Range Management* 56: 56-64.
- Aukema, J. E. 2003. Vectors, viscin, and Viscaceae: mistletoes as parasites, mutualists, and resources. *Frontiers in Ecology and the Environment* 1: 212-219.
- Batchily, A.K., Post, D.F., Bryant, R.B., Breckenfeld, D.J. 2003. Spectral reflectance and soil morphology characteristics of Santa Rita Experimental Range soils. In, McClaran, M.P., Ffolliott, P.F., Edminster, C.B. (tech. coords.). *Santa Rita Experimental Range: 100 years (1903 to 2003) of accomplishments and contributions; conference proceedings; 2003 October 30-November 1; Tucson, AZ. Proceedings RMRS-P-30. USDA Forest Service, Rocky Mountain Research Station. Pages 175-182.*
- Breckenfeld, D.J., Robinett, D. 2003. Soil and ecological sites on the Santa Rita Experimental Range. In, McClaran, M.P., Ffolliott, P.F., Edminster, C.B. (tech. coords.). *Santa Rita Experimental Range: 100 years (1903 to 2003) of accomplishments and contributions; conference proceedings; 2003 October 30-November 1; Tucson, AZ. Proceedings RMRS-P-30. USDA Forest Service, Rocky Mountain Research Station. Pages 157-165.*
- Crimmins, M., Mau-Crimmins, T. 2003. Climate Variability and the spread of non-native plant species at the Santa Rita Experimental Range, Arizona. In, McClaran, M.P., Ffolliott, P.F., Edminster, C.B. (tech. coords.). *Santa Rita Experimental Range: 100 years (1903 to 2003) of accomplishments and contributions; conference proceedings; 2003 October 30-November 1; Tucson, AZ. Proceedings RMRS-P-30. USDA Forest Service, Rocky Mountain Research Station. Pages 111-115.*
- English, N.B., Williams, D.G., Weltzin, J.F. 2003. Soil temperature and moisture dynamics after experimental irrigation on two contrasting soils on the Santa Rita Experimental Range: implications for mesquite establishment. In, McClaran, M.P., Ffolliott, P.F., Edminster, C.B. (tech. coords.). *Santa Rita Experimental Range: 100 years (1903 to 2003) of accomplishments and contributions; conference proceedings; 2003 October 30-November 1; Tucson, AZ. Proceedings RMRS-P-30. USDA Forest Service, Rocky Mountain Research Station. Pages 188-192.*
- Ffolliott, P.F., Gottfried, G.J., Kruse, W.H. 2003. Vegetation management practices: past and present. In, McClaran, M.P., Ffolliott, P.F., Edminster, C.B. (tech. coords.). *Santa Rita Experimental Range: 100 years (1903 to 2003) of accomplishments and contributions; conference proceedings; 2003 October 30-November 1; Tucson, AZ. Proceedings RMRS-P-30. USDA Forest Service, Rocky Mountain Research Station. Pages 48-58.*
- Fravolini A., Hultine K.R., Koepke, D.F., Williams, D.G. 2003. The role of soil texture on mesquite water relations and response to summer precipitation. In, McClaran, M.P., Ffolliott, P.F., Edminster, C.B. (tech. coords.). *Santa Rita Experimental Range: 100 years (1903 to 2003) of accomplishments and contributions; conference proceedings; 2003 October 30-November 1; Tucson, AZ. Proceedings RMRS-P-30. USDA Forest Service, Rocky Mountain Research Station. Pages 125-129.*
- Geiger, E., Mau-Crimmins, T., Schussman, H.. 2003. Predicting Lehmann lovegrass spread in Southeastern Arizona, USA. In, McClaran, M.P., Ffolliott, P.F., Edminster, C.B. (tech. coords.). *Santa Rita Experimental Range: 100 years (1903 to 2003) of accomplishments and contributions; conference proceedings; 2003 October 30-November 1; Tucson, AZ. Proceedings RMRS-P-30. USDA Forest Service, Rocky Mountain Research Station. Pages 116-120.*

- Gottfried, G.F., Ffolliott, P.F., Garcia, P., Valdez-Zamudio, D, Al-Khour, A. 2003. Assessment of fire-damaged mesquite trees 8 years following an illegal burn. In, McClaran, M.P., Ffolliott, P.F., Edminster, C.B. (tech. coords.). Santa Rita Experimental Range: 100 years (1903 to 2003) of accomplishments and contributions; conference proceedings; 2003 October 30-November 1; Tucson, AZ. Proceedings RMRS-P-30. USDA Forest Service, Rocky Mountain Research Station. Pages 166-168.
- Howery, L.D., Munda, B.D., Robinett, D.G., Buck, H.H. 2003. Sweet resin bush on the Santa Rita Experimental Range. In, McClaran, M.P., Ffolliott, P.F., Edminster, C.B. (tech. coords.). Santa Rita Experimental Range: 100 years (1903 to 2003) of accomplishments and contributions; conference proceedings; 2003 October 30-November 1; Tucson, AZ. Proceedings RMRS-P-30. USDA Forest Service, Rocky Mountain Research Station. Pages 169-174.
- Kaurivi, J.K.U., Huete, A.R., Didan, K. 2003. Multitemporal MODIS-EVI relationships with precipitation and temperature at the Santa Rita Experimental Range. In, McClaran, M.P., Ffolliott, P.F., Edminster, C.B. (tech. coords.). Santa Rita Experimental Range: 100 years (1903 to 2003) of accomplishments and contributions; conference proceedings; 2003 October 30-November 1; Tucson, AZ. Proceedings RMRS-P-30. USDA Forest Service, Rocky Mountain Research Station. Pages 121-124.
- Krausman, P.R., Morrison, M.L. 2003. Wildlife ecology and management, Santa Rita Experimental Range (1903-2002). In, McClaran, M.P., Ffolliott, P.F., Edminster, C.B. (tech. coords.). Santa Rita Experimental Range: 100 years (1903 to 2003) of accomplishments and contributions; conference proceedings; 2003 October 30-November 1; Tucson, AZ. Proceedings RMRS-P-30. USDA Forest Service, Rocky Mountain Research Station. Pages 59-67.
- Lane, L.J., Kidwell, M.R. 2003. Hydrology and soil erosion. In, McClaran, M.P., Ffolliott, P.F., Edminster, C.B. (tech. coords.). Santa Rita Experimental Range: 100 years (1903 to 2003) of accomplishments and contributions; conference proceedings; 2003 October 30-November 1; Tucson, AZ. Proceedings RMRS-P-30. USDA Forest Service, Rocky Mountain Research Station. Pages 92-100.
- Madsen, J.H. 2003. Cultural resources of the Santa Rita Experimental Range. In, McClaran, M.P., Ffolliott, P.F., Edminster, C.B. (tech. coords.). Santa Rita Experimental Range: 100 years (1903 to 2003) of accomplishments and contributions; conference proceedings; 2003 October 30-November 1; Tucson, AZ. Proceedings RMRS-P-30. USDA Forest Service, Rocky Mountain Research Station. Pages 68-79.
- McClaran, M.P. 2003. A century of vegetation change on the Santa Rita Experimental Range. In, McClaran, M.P., Ffolliott, P.F., Edminster, C.B. (tech. coords.). Santa Rita Experimental Range: 100 years (1903 to 2003) of accomplishments and contributions; conference proceedings; 2003 October 30-November 1; Tucson, AZ. Proceedings RMRS-P-30. USDA Forest Service, Rocky Mountain Research Station. Pages 16-33.
- McClaran, M.P., Ffolliott, P.F., Edminster, C.B. (tech. coords.). 2003. Santa Rita Experimental Range: 100 years (1903 to 2003) of accomplishments and contributions; conference proceedings; 2003 October 30-November 1; Tucson, AZ. Proceedings RMRS-P-30. USDA Forest Service, Rocky Mountain Research Station.

- Medina, A.L. 2003. Gambel and scaled quail diets on the Santa Rita Experimental Range. In, McClaran, M.P., Ffolliott, P.F., Edminster, C.B. (tech. coords.). Santa Rita Experimental Range: 100 years (1903 to 2003) of accomplishments and contributions; conference proceedings; 2003 October 30-November 1; Tucson, AZ. Proceedings RMRS-P-30. USDA Forest Service, Rocky Mountain Research Station. Pages 133-140.
- Medina, A.L. 2003. Historical and recent flora of the Santa Rita Experimental Range. In, McClaran, M.P., Ffolliott, P.F., Edminster, C.B. (tech. coords.). Santa Rita Experimental Range: 100 years (1903 to 2003) of accomplishments and contributions; conference proceedings; 2003 October 30-November 1; Tucson, AZ. Proceedings RMRS-P-30. USDA Forest Service, Rocky Mountain Research Station. Pages.141- 148.
- Mgxashe, N.P. 2003. Evaluating visual obstruction and dry-weight rank methods for estimating total biomass and species composition in the Desert Grassland. MS Thesis. School of Renewable Natural Resources, University of Arizona, Tucson.
- Munda, B.D., Pater, M.J. 2003. Revegetation practices on the Santa Rita Experimental Range. In, McClaran, M.P., Ffolliott, P.F., Edminster, C.B. (tech. coords.). Santa Rita Experimental Range: 100 years (1903 to 2003) of accomplishments and contributions; conference proceedings; 2003 October 30-November 1; Tucson, AZ. Proceedings RMRS-P-30. USDA Forest Service, Rocky Mountain Research Station. Pages 80-91.
- Pease, S., Ffolliott, P.F., DeBano, L.F., Gottfried, G.J. 2003. Mesquite removal and mulching treatment impacts on herbage production and selected soil chemical properties. In, McClaran, M.P., Ffolliott, P.F., Edminster, C.B. (tech. coords.). Santa Rita Experimental Range: 100 years (1903 to 2003) of accomplishments and contributions; conference proceedings; 2003 October 30-November 1; Tucson, AZ. Proceedings RMRS-P-30. USDA Forest Service, Rocky Mountain Research Station. Pages 130-132.
- Ogden, P.R., Smith, E.L.. 2003. Cow weights and calf productions for pasture 12C Lehmann lovegrass grazing trials, 1982-1993. In, McClaran, M.P., Ffolliott, P.F., Edminster, C.B. (tech. coords.). Santa Rita Experimental Range: 100 years (1903 to 2003) of accomplishments and contributions; conference proceedings; 2003 October 30-November 1; Tucson, AZ. Proceedings RMRS-P-30. USDA Forest Service, Rocky Mountain Research Station. Pages 183-187.
- Ruyle, G.B. 2003. Rangeland livestock production: developing the concept of sustainability on Santa Rita Experimental Range. In, McClaran, M.P., Ffolliott, P.F., Edminster, C.B. (tech. coords.). Santa Rita Experimental Range: 100 years (1903 to 2003) of accomplishments and contributions; conference proceedings; 2003 October 30-November 1; Tucson, AZ. Proceedings RMRS-P-30. USDA Forest Service, Rocky Mountain Research Station. Pages. 34-47.
- Sayre, N.F. 2003. Recognizing history in range ecology: 100 years of science and management on the Santa Rita Experimental Range. In, McClaran, M.P., Ffolliott, P.F., Edminster, C.B. (tech. coords.). Santa Rita Experimental Range: 100 years (1903 to 2003) of accomplishments and contributions; conference proceedings; 2003 October 30-November 1; Tucson, AZ. Proceedings RMRS-P-30. USDA Forest Service, Rocky Mountain Research Station. Pages 1-15.

- Sheridan, T.E. 2003. Archive and laboratory embedded in the landscape: future of the Santa Rita Experimental Range. In, McClaran, M.P., Ffolliott, P.F., Edminster, C.B. (tech. coords.). Santa Rita Experimental Range: 100 years (1903 to 2003) of accomplishments and contributions; conference proceedings; 2003 October 30-November 1; Tucson, AZ. Proceedings RMRS-P-30. USDA Forest Service, Rocky Mountain Research Station. Pages 101-110.
- Weiss, M.R., Papaj, D.R. 2003. Butterfly color learning in two different behavioral contexts: How much can a butterfly keep in mind? *Animal Behaviour* 65: 425-434.
- Weltzin, J.F., Loik, M.E., Schwinning, S., Williams, D.G., Fay, P., Haddad, B., Harte, J., Huxman, T.E., Knapp, A.K., Lin, G., Pockman, W.T., Shaw, M.R., Small, E., Smith, M.D., Smith, S.D., Tissue, D.T., Zak, J.C. 2003. Assessing the response of terrestrial ecosystems to potential changes in precipitation. *BioScience* 53:941-952.
- Weltzin, J.F., Tissue, D.T. 2003. Resource pulses in arid environments - patterns of rain, patterns of life. *New Phytologist* 157:171-173.
- Wissler, C., Angell, D. 2003. New data sources and derived products for the SRER digital spatial database. In, McClaran, M.P., Ffolliott, P.F., Edminster, C.B. (tech. coords.). Santa Rita Experimental Range: 100 years (1903 to 2003) of accomplishments and contributions; conference proceedings; 2003 October 30-November 1; Tucson, AZ. Proceedings RMRS-P-30. USDA Forest Service, Rocky Mountain Research Station. Pages 193-197.

2004

- Aukema, J. E. 2004. Distribution and dispersal of desert mistletoe is scale-dependent, hierarchically nested. *Ecography* 27: 137-144.
- Burt, E. H., Jr. and J. M. Ichida. 2004. Gloger's rule, feather-degrading bacteria, and color variation among Song Sparrows. *Condor* 106:681-686.
- Chesson, P., Gebauer, R.L.E., Schwinning, S., Huntly, N., Wiegand, K., Ernest, M.S.K., Sher, A., Novoplansky, A., Weltzin, J.F. 2004. Resource pulses, species interactions, and diversity maintenance in arid and semi arid environments. *Oecologia* 141:236-253.
- Fernandez-Gimenez, M.E. and Smith, S.E. 2004. Nitrogen effects on Arizona cottontop and Lehmann lovegrass seedlings. *Journal of Range Management* 57: 76-81.
- Goldstein, G., K. R. Flory, B. A. Browne, S. Majid, J. M. Ichida, and E. H. Burt, Jr. 2004. Bacterial degradation of black and white feathers. *Auk* 121:656-659.
- Gottesman, A.B., Krausman, P.R., Morrison, M.L., Petryszyn, Y. 2004. Movements and home range of brush mice. *Southwestern Naturalist* 49: 289-294.
- Gottesman, A.B., Morrison, M.L., Krausman, P.R. 2004. Habitat use by brush mice (*Peromyscus boylii*) in southeastern Arizona. *Western North American Naturalist* 64: 259-264.
- Hultine, K. 2004. Water uptake by *Prosopis velutina*: the role of soil hydraulic limits and root function. PhD Dissertation, School of Natural Resources, University of Arizona.
- Hupy, C.M. Whitford, W.G., Jackson, E.C. 2004. The effect of dominance by an alien grass species, Lehmann lovegrass, *Eragrostis lehmanniana*, on faunalpedoturbation patterns in North American Desert grasslands. *Journal of Arid Environments* 58:321-334.
- Huxman T.E., Cable, J.M., Ignace, D.D., Eilts, A.J., English, N., Weltzin, J.F., Williams, D.G. 2004. Response of net ecosystem gas exchange to a simulated precipitation pulse in a semiarid grassland: the role of native versus non-native grasses and soil texture. *Oecologia* 141:295-305.

- Huxman, T.E., Smith, M.D., Fay, P.A., Knapp, A.K., Shaw, M.R., Loik, M.E., Smith, S.D., Tissue, D.T., Zak, J.C., Weltzin, J.F., Pockman, W.T., Sala, O.E., Haddad, B., Harte, J., Koch, G.W., Schwinning, S., Small, E.E., Williams, D.G. 2004. Convergence across biomes to a common rain-use efficiency. *Nature* 429:651-654.
- Huxman TE, Snyder KA, Tissue D, Leffler AJ, Pockman W, Ogle K, Sandquist D, Potts DL, Schwinning S. 2004. Precipitation pulses and carbon balance in semi-arid and arid ecosystems. *Oecologia* 141:254-268.
- Kaurivi, J. 2004. Mapping the Spatial and Temporal Dynamics of the Velvet Mesquite with MODIS and AVIRIS: A Case Study at the Santa Rita Experimental Range, PhD Dissertation, Department of Soil, Water and Environmental Science, University of Arizona, Tucson.
- Kerley, G.I.H., Whitford, W.G., Kay, F.R. 2004. Effects of pocket gophers on desert soils and vegetation. *Journal of Arid Environments* 58:153-166
- Rudgers, J. A. 2004. Enemies of herbivores can shape plant traits: selection in a facultative ant-plant mutualism. *Ecology* 85:192-205.
- Rudgers, J.A. and Gardener, M.C. 2004. Extrafloral nectar as a resource mediating multi-species interactions in communities. *Ecology* 85:1495-1502.
- Tiedemann A.R. and Klemmedson J.O. 2004. Responses of desert grassland vegetation to mesquite removal and regrowth. *Journal of Range Management* 57: 455-465.

2005

- Deviche, P., McGraw, K., Greiner, E.C. 2005. Interspecific differences in hematozoan infection in Sonoran Desert *Aimophila* sparrows. *Journal of Wildlife Diseases* 41:532-541.
- Deviche, P., Small, T. 2005. Environmental control of reproduction in the Sonoran Desert *Aimophila* sparrows. In: Dawson, A., Sharp, P.J. (eds.). *Functional Avian Endocrinology*. Narosa Publishing House, New Delhi, India. Pp. 153-166.
- English, N.B., Weltzin, J.F., Fravolini, A., Thomas, L.M., Williams, D.G. 2005. The influence of soil texture and vegetation on soil moisture under rainout shelters in a semi-desert grassland. *Journal of Arid Environments* 63:324-343.
- Fang, H., Liang, S., McClaran, M.P., van Leeuwen, W.J.D., Drake, S., Marsh, S., Thomson, A., Izaurrealde, R.C., Rosenberg, N. 2005. Biophysical characterization and management effects on semiarid rangeland observed from Landsat ETM+ data. *Institute of Electrical & Electronics Engineers (IEEE) Transactions in Geosciences and Remote Sensing* 43:125-134.
- Fravolini, A., K. Hultine, K., Brugnoli, E., Gazal, R., English, N., Williams, D.G. 2005. Precipitation pulse use by an invasive woody legume: the role of soil texture and pulse size. *Oecologia* 144:618-627.
- Mau-Crimmins, T. 2005. The Prospects for Spread and Impacts of Removal of *Eragrostis lehmanniana* Nees. PhD Dissertation. School of Natural Resources, University of Arizona, Tucson.
- McIntosh, M.E. 2005. Pollination of two species of *Ferocactus*: interactions between cactus-specialist bees and their host plants. *Functional Ecology* 19:727-734.
- Papaj, D.R. Newsom, G.M. 2005. A within-species warning function for an aposematic signal. *Proceedings of the Royal Society of London, Series B* 272:2519-2523.
- Potts, D.L. 2005. Rainfall variability and carbon cycling in semi-arid ecosystems. PhD Dissertation. University of Arizona, Tucson.
- Yepez, E.A., Huxman, T.E., Ignace, D.D., English, N.B., Weltzin, J.F., Castellanos, A.E., Williams, D.G. 2005. Dynamics of transpiration and evaporation following a moisture pulse

in semiarid grassland: a chamber based isotope method for partitioning evapotranspiration. *Agricultural and Forest Meteorology* 132:359-376.

2006

- Bronstein, J.L., Huxman, T.E., Davidowitz, G. 2006. Plant-mediated effects linking herbivory and pollination. In: Ohgushi, T., Craig, T.G., Price, P.W. (Eds.). *Ecological Communities: Plant Mediation in Indirect Interaction Webs*. Cambridge University Press. Pages 79-103.
- Cable, J.M. 2006. Precipitation effects on soil carbon cycling in the Sonoran Desert. PhD Dissertation. University of Arizona, Tucson.
- Deviche, P., Small, T., Sharp, P., Tsutsui, K. 2006. Control of luteinizing hormone and testosterone secretion in a flexibly breeding male passerine, the Rufous-winged Sparrow, *Aimophila carapalis*. *General and Comparative Endocrinology* 149: 226-235.
- Fravolini, A. 2006. Response of mesquite (*Prosopis velutina* Woot.) carbon-water relations to variations in soil texture and precipitation. PhD Dissertation. School of Natural Resources, University of Arizona, Tucson.
- Heisler, J.L., Weltzin, J.F. 2006. Variability matters: towards a perspective on the influence of precipitation on terrestrial ecosystems. *New Phytologist* 172:189-192.
- Huang, C. 2006. Understanding the ecological complexity of semi-arid savannas using remote sensing. PhD Dissertation. School of Natural Resources, University of Arizona, Tucson, AZ.
- Hultine, K.R., Koepke, D.F., Pockman, W.T., Fravolini, A., Sperry, J.S., Williams, D.G. 2006. Influence of soil texture on hydraulic properties and water relations of a dominant warm-desert phreatophyte. *Tree Physiology* 26: 313-324.
- Ignace, D.D. 2006. Functional responses of Sonoran Desert plant species to precipitation. PhD Dissertation. University of Arizona, Tucson.
- McClaran, M.P., Angell, D.L. 2006. Long-term vegetation response to mesquite removal in Desert Grassland. *Journal of Arid Environments* 66:686-697.
- Mau-Crimmins, T., Schussman, H.R., Geiger, E.L. 2006. Can the invaded range of a species be predicted sufficiently using only native-range data?: Lehmann lovegrass (*Eragrostis lehmanniana*) in the southwestern United States. *Ecological Modelling* 193:736-746.
- Pease, S., Ffolliott, P.F., Gottfried, G.J., DeBano, L.F. 2006. Mesquite removal and mulching impacts on herbage production on a semidesert grass-shrub rangeland. USDA Forest Service, Rocky Mountain Research Station RMRS-RP-59. 5 p.
- Potts, D.L., Huxman, T.E., Cable, J.M., English, N.B., Ignace, D.D., Eilts, J.A., Mason, M.J., Weltzin, J.F., Williams, D.G. 2006. Antecedent moisture and seasonal precipitation influence response of canopy scale carbon and water exchange to rainfall pulses in semi arid grassland. *New Phytologist* 170:849-860.
- Potts, D.L., Huxman, T.E., Enquist, B.J., Weltzin, J.F., Williams, D.G. 2006. Resilience of ecosystem functional response to a precipitation pulse in a semi-arid grassland. *Journal of Ecology* 94:23-30.
- Riddle, B.R., Hafner, D.J. 2006. A step-wise approach to integrating phylogeographic and phylogenetic biogeographic perspectives on the history of a core North American warm deserts biota. *Journal of Arid Environments* 66:435-461.
- Schussman, H.R., Geiger, E.L., Mau-Crimmins, T.M., Ward, J. 2006. Spread and current potential distribution of an alien grass, *Eragrostis lehmanniana* Nees, in the southwestern USA: comparing historical data and ecological niche models. *Diversity and Distributions* 12:582-592.

- Small, T.W. 2006. Environmental and endocrine control of reproduction in rufous-winged sparrows, *Aimophila carpalis*. PhD Dissertation, Arizona State University.
- Smith, S.E., Fendenheim, D., Halbrook, K. 2006. Epidermal conductance as a component of dehydration avoidance in *Digitaria californica* and *Eragrostis lehmanniana*, two perennial desert grasses. *Journal of Arid Environments*. 64:238-250.
- Yepez, E. 2006. Sources and dynamics of carbon dioxide exchange and evapotranspiration in semiarid environments. PhD Dissertation, School of Natural Resources, University of Arizona.

2007

- Carlo, T.A., Aukema, J.E., Morales, J.M. 2007. Plant-frugivore interactions as spatially explicit networks: integrating frugivore foraging with fruiting plant spatial patterns. In Dennis, A., Schupp, E.W., Green, R.J. and Wescott, D.A. (Eds.). *Seed Dispersal: Theory and its Application in a Changing World*. CAB International Press. Oxfordshire, UK. Pages 369-390.
- Huang, C., Marsh, S.E., McClaran, M.P., Archer, S.R. 2007. Post-fire stand structure in a semi-arid savanna: cross-scale challenges estimating biomass. *Ecological Applications* 17:1899-1910.
- McClaran, M.P., Angell, D.L. 2007. Mesquite and grass relationships at two spatial scales. *Plant Ecology* 191:119-126.
- McClaran, M.P. and Nafus, A.M. 2007. Noteworthy collections: *Enneapogon cenchroides* (Licht.) C.E. Hubb. (POACEAE), Arizona. *Madrono* 54:203.
- Ignace, D.D. 2006. Functional responses of Sonoran Desert plant species to precipitation. PhD Dissertation. University of Arizona, Tucson.
- Ignace, D.D., Huxman, T.E., Weltzin, J.F., Williams, D.G. 2007. Leaf gas exchange and water status responses of a native and non-native grass to precipitation across contrasting soil surfaces in the Sonoran Desert. *Oecologia* 152:401-413.
- Nafus, A.M. 2007. Using allometry to predict biomass for eight semi-desert grass species. M.S. Thesis. University of Arizona, Tucson.
- Papaj, D.R., Mallory, H.S., Heinz, C.A. 2007. Extreme weather change and the dynamics of oviposition behavior in the pipevine swallowtail, *Battus philenor*. *Behavioral Ecology* 152:365-375.
- Small, T.W., Sharp, P.J., Deviche, P. 2007. Environmental regulation of the reproductive system in a flexibly breeding Sonoran Desert bird, the Rufous-winged Sparrow, *Aimophila carpalis*. *Hormones and Behavior* 51: 483-495.
- Strand C.R., Small T.W., Deviche, P. 2007. Plasticity of the Rufous-winged Sparrow, *Aimophila carpalis*, song control regions during the monsoon-associated summer breeding period. *Hormones and Behavior* 52: 401-408.
- Throop, H. L. and S. R. Archer. 2007. Interrelationships among shrub encroachment, land management and leaf litter decomposition in a semi-desert grassland. *Ecological Applications* 17:1809-1823.
- Wheeler, C.W., Archer, S.R., Asner, G.P., McMurtry, C.R. 2007. Climate and edaphic controls on soil carbon-nitrogen response to woody plant encroachment in desert grassland. *Ecological Applications* 17:1911-1928.

2008

- Renken, W.J., Howery, L.D., Ruyle, G.B., Enns, R.M. 2008. Cattle generalize visual cues from the pen to the field to select initial feeding patches. *Applied Animal Behavior Science* 109:128-140.
- Small T.W., Sharp P.J., Bentley G.E., Deviche, P. 2008. Relative photorefractoriness, prolactin, and reproductive regression in a flexibly breeding Sonoran Desert passerine, the Rufous-winged Sparrow, *Aimophila carpalis*. *Journal of Biological Rhythms* 23:69-80.
- Small T.W., Sharp P.J., Bentley G.E., Millar R.P., Tsutsui K., Mura E., Deviche, P. 2008. Photoperiod-independent hypothalamic regulation of luteinizing hormone secretion in a free-living Sonoran Desert bird, the Rufous-winged Sparrow (*Aimophila carpalis*). *Brain, Behavior and Evolution*. 71:127-142.
- Small, T.W., Sharp, P.J., Bentley, G. E., Millar, R. P., Tsutsui, K., Strand, C., Deviche, P. 2008. Auditory stimulation of reproductive function in male Rufous-winged Sparrows, *Aimophila carpalis*. *Hormones and Behavior* 53:28-39.
- van der Leeuw, E. 2008. Assessing the growth of residential development and its impact on the Santa Rita Experimental Range. MS Thesis, Department of Geography, University of Arizona, Tucson.

In press, 2008

- Breshears, D.D., Whicker, J.J, Zou, C.B., Field, J.P., Allen, C.D. *In press*. A conceptual framework for dryland aeolian sediment transport along the grassland-forest continuum: Effects of woody plant canopy cover and disturbance. *Geomorphology*.
- Browning, D.M., S.R. Archer, G.P. Asner, M.P. McClaran, and C.A. Wessman. *In press*. Woody plants in grasslands: post-encroachment stand dynamics. *Ecological Applications*.
- Mashiri, F.E., M.P. McClaran, J.S. Fehmi. *In press*. Long-term vegetation change related to grazing systems, precipitation and mesquite cover. *Rangeland Ecology and Management*.
- McClaran, M.P., Moore-Kucera, J., Martens, D.A., van Haren, J., Marsh, S.E. *In press*. Soil carbon and nitrogen in relation to shrub size and death in a semi-arid grassland. *Geoderma*.
- McLain, J.E., D.A. Martens, and M.P. McClaran. *In press*. Soil cycling of trace gases in response to mesquite management in a semiarid grassland. *Journal of Arid Environments*.
- Scott, R.L., Cable, W.L., Hultine, K.R. *In press*. The ecohydrologic significance of hydraulic redistribution in a semiarid savanna. *Water Resources Research*.
- Throop H.L, Archer S.R. *In Press*. Shrub (*Prosopis velutina*) encroachment in a semi-desert grassland: spatial-temporal changes in soil organic carbon and nitrogen pools *Global Change Biology*.
- Throop H.L, Archer S.R. *In Press*. Resolving the dryland decomposition conundrum: some new perspectives on potential drivers. *Progress in Botany*.