

PEER-REVIEWED PUBLICATIONS

- Utsumi, S.A., A.F. Cibils, R.E. Estell, T.T. Baker, and J.H. Walker. One-seed juniper sapling use by goats in relation to stocking density and mixed grazing with sheep. *Rangeland Ecology and Management* In Press.
- Cram, D.S., T.T. Baker, and C.B. Edminster. Treated vs. untreated Southwest forest response following wildland fire. *Forest Ecology and Management* In Press.
- Mason, G.J., T.T. Baker, D.S. Cram, J.C. Boren, A.G. Fernald, and D.M. VanLeeuwen. 2009. Mechanical fuel treatment effects on vegetation in a New Mexico dry mixed conifer forest. *Forest Ecology and Management* 257(3):868-875.
- Helmus, A.M., A.G. Fernald, D.M. VanLeeuwen, L.B. Abbott, A.L. Ulery, and T.T. Baker. 2009. Surface water seepage effects on shallow ground-water quality along the Rio Grande in northern New Mexico. *Journal of American Water Resources Association* 45(2):407-418.
- Cabrera, V.E., L.J. Stavast, T.T. Baker, M.K. Wood, D.S. Cram, R.P. Flynn, and A.L. Ulery. 2009. Soil and runoff response to dairy manure application on New Mexico rangeland. *Agriculture, Ecosystems, Environment* 131(3-4) pp 255-262.
- Lucas, R.W., T.T. Baker, M. K. Wood, C.D. Allison, and D.M. VanLeeuwen. 2009. Response of streambanks to different intensities and seasons of cattle grazing in two montane riparian areas in western New Mexico. *NM Water Resources Research Institute* Miscellaneous Report No. M29.
- Wampler, C.R., J.K. Frey, D.M. VanLeeuwen, J.C. Boren, and T.T. Baker. Mammals in mechanically thinned and non-thinned mixed-coniferous forest in the Sacramento Mountains, New Mexico. *The Southwestern Naturalist*. 53(4):431-443.
- Cabrera, V.E., C.P. Mathis, R.E. Kirksey, and T.T. Baker. 2008. Case Study: Development of New Mexico Dairy Manure, a Seasonal Prediction Model for Manure Excretion by Dairy Cattle. *Professional Animal Scientist* 24:175-183.
- Mason, G.J., T.T. Baker, D.S. Cram, J.C. Boren, A.G. Fernald, and D.M. VanLeeuwen. 2007. Mechanical fuel treatment effects on fuel loads and indices of crown fire potential in a south central New Mexico dry mixed conifer forest. *Forest Ecology and Management* 251(3):195-204.
- Ortiz, M., C. Brown, S. Fernald, T.T. Baker, B. Creel, and S. Guldan. 2007. Land Use Change Impacts on *Acequia* Water Resources in Northern New Mexico. [*Journal of Contemporary Water Research and Education* \(137\):47-54.](#)
- Fernald, A.G., T.T. Baker, and S. Guldan. Hydrologic, Riparian, and Agroecosystem Functions of Traditional *Acequia* Irrigation Systems. 2007. *Journal of Sustainable Agriculture* 30(2):147-171.
- Allison, C.D., J.L. Holechek, T.T. Baker, J.C. Boren, N.K. Ashcroft, and J.M. Fowler. 2007. Rapid assessment methodology for proactive rangeland management. *Rangelands* 29(2):45-50.

- Cram, D.S., T.T. Baker, A.G. Fernald, C.D. Allison, A. Madrid, and R. Rummer. 2007. Mechanical thinning impacts on runoff, infiltration, and sediment yield following fuel reduction treatments in a southwestern dry mixed-conifer forest. *Journal of Soil and Water Conservation* 62(5):359-366.
- Cram, D.S., T.T. Baker, A.G. Fernald, C.D. Allison, A. Madrid, and R. Rummer. 2007. Reducing the impacts of mechanical thinning in a southwestern forest. Technical Transfer Briefing, *Journal of Soil and Water Conservation* 62(5):121A.
- Madrid, A., A.G. Fernald, T.T. Baker, and D.M. VanLeuweeen. 2006. Evaluation of silvicultural treatment effects on infiltration, runoff, sediment yield, and soil moisture in a mixed conifer New Mexico forest. *Journal of Soil and Water Conservation* 61(3):159-168.
- Cram, D.S., T.T. Baker, and J.C. Boren. 2006. Wildland Fire Effects in Silviculturally Treated vs. Untreated Forest Stands of New Mexico and Arizona. *USDA Forest Service Rocky Mountain Research Station Research Paper RMRS-RP-55*.
- Holechek, J.L., T.T. Baker, J.C. Boren, and D. Galt. 2006. Grazing impacts on rangeland vegetation: What we have learned. *Rangelands* 28(1):7-13.
- Stavast, L.J., T.T. Baker, A.L. Ulery, R.P. Flynn, M.K. Wood, and D.S. Cram. 2005. New Mexico blue grama rangeland response to dairy manure application. *Rangeland Ecology and Management* 58:423-429.
- Lucas, R.W., T.T. Baker, M.K. Wood, C.D. Allison, and D.M. VanLeeuwen. 2004. Riparian vegetation response to different intensities and seasons of cattle grazing in western New Mexico. *Journal of Range Management* 57:466-474.
- Boren, J.C., T.T. Baker, D. Cowley, B.J. Hurd, S. Eaton, and G.J. Mason. 2004. Terrestrial vegetation inventory of water delivery systems between San Acacia Diversion and the Bosque del Apache National Wildlife Refuge. *New Mexico Water Resources Research Institute Technical Completion Report* 333.
- Baker, T.T., B.G. Lockaby, W.H. Conner, C.E. Meier, J.A. Stanturf, and M.K. Burke. 2001. Leaf litter decomposition and nutrient dynamics in four southern forested floodplain communities. *Soil Science Society of America Journal* 65(4):1334-1347.
- Baker, T.T., W.H. Conner, B.G. Lockaby, J.A. Stanturf, and M.K. Burke. 2001. Fine root productivity and dynamics on a forested floodplain in South Carolina. *Soil Science Society of America Journal* 65(2): 545-556.
- Baker, T.T. and D.H. Van Lear. 1998. Relations between density of Rhododendron thickets and diversity of riparian forests. *Forest Ecology and Management* 109: 21-32.
- Lockaby, B.G., R.G. Clawson, and T.T. Baker. 1997. Response of three hardwood species to irrigation and fertilization on an upland site. *Southern Journal of Applied Forestry* 21(3): 123-129.

RANGE IMPROVEMENT TASK FORCE REPORTS & AGRICULTURAL EXPERIMENT STATION REPORTS (peer-reviewed)

- Gomez, J., S.T. Smallidge, N. Ashcroft, and T.T. Baker. 2008. Data entry, organization, and analysis for Rapid Assessment Methodology. New Mexico State University *Range Improvement Task Force Report 76*.
- Cabrera, V.E., C.P. Mathis, R.E. Kirksey, and T.T. Baker. 2007. NM-Manure, a Seasonal Prediction Model for Manure Excretion by Dairy Cattle. New Mexico State University *Agricultural Experiment Station Research Bulletin 797*.
- Boren, J.C. and T.T. Baker. 2007. Challenges and opportunities for developing prescribed grazing guidelines to enhance habitat for endangered species in the Southwest. Pages 47-59 *In Proceedings of the Symposium presented at the 59th Annual Society for Range Management Meeting, Vancouver, BC. Montana State University Press.*
- Baker, T.T. and J.C. Boren. 2007. Livestock grazing prescriptions to enhance riparian wildlife habitat? Pages 30-46 *In Proceedings of the Symposium presented at the 59th Annual Society for Range Management Meeting, Vancouver, BC. Montana State University Press.*
- Allison, C.D., J. Holechek, J.C. Boren, T.T. Baker, J.M. Fowler, and N. Ashcroft. 2004. RAM: Rapid Assessment Methodology for Assessing Range Condition. New Mexico State University Cooperative Extension Service *Range Improvement Task Force Report 58*.
- Holechek, J., T.T. Baker, and J.C. Boren. 2004. Controlled Grazing Versus Grazing Exclusion Impacts on Rangeland Ecosystems: What We Have Learned. New Mexico State University *Range Improvement Task Force Report 57*.
- Allison, C.A., T.T. Baker, J.C. Boren, B.D. Wright, and A.G. Fernald. 2001. Range, riparian, water quality, and wildlife monitoring for New Mexico ranchers. New Mexico State University Cooperative Extension Service *Range Improvement Task Force Report 53*.
- Baker, T.T. and J.C. Boren. 2000. Livestock management in southwestern riparian areas dominated by woody vegetation: A summary and extrapolation of the literature. New Mexico State University Cooperative Extension Service *Range Improvement Task Force Report 50*.
- Allison, C.A., J.C. Boren, and T.T. Baker. 2000. Herbaceous utilization by elk in selected mountain meadows in the Gila National Forest. New Mexico State University Cooperative Extension Service, *Range Improvement Task Force Report 49*.

COOPERATIVE EXTENSION SERVICE & OUTREACH PUBLICATIONS

- Baker, T.T., C.P. Mathis, S.T. Smallidge, J.C. Boren, and N. Ashcroft. NM Ranching. 2008. New Mexico State University Cooperative Extension Service, Range Improvement Task Force, and Agricultural Experiment Station Brochure.

- Mason, G.J., T.T. Baker, J. Boren, D.M. VanLeeuwen, S. Fernald, D.S. Cram, and B.J. Hurd. 2006. Fuel loading and vegetative response of mixed conifer stands to different types and frequencies of silvicultural treatment. Livestock Research Briefs and Cattle Growers Short Course, Clovis, NM. March 23–24, 2006.
- Baker, T.T. and D.S. Cram. 2005. Frequently asked questions: Riparian and Forest Management. E-Extension Website.
- Boren, J.C., S. Eaton, T.T. Baker, and B. Starnes. 2004. Financial incentives for New Mexico's private landowners to manage wildlife. New Mexico State University Cooperative Extension Service Brochure.
- Fernald, A.G., S. Guldan, T.T. Baker, and J.P. King. 2003. Irrigation Ditch Seepage Effects on Surface Water/Groundwater Interaction along the Rio Grande Corridor. *In: Efficient Irrigation for Water Conservation. New Mexico State University Water Task Force Report #1.*
- Boren, J.C., T.T. Baker, and D.E. Cowley, B.J. Hurd. 2003. Growing trout in New Mexico ponds. New Mexico State University *Cooperative Extension Service Guide L-108.*
- Boren, J.C., B.D. Wright, and T.T. Baker. 2003. Tanning deer hides and small fur skins. New Mexico State University *Cooperative Extension Service Guide L-103.*
- Baker, T.T., J.C. Boren, and C.D. Allison. 2001. Riparian management strategies for New Mexico landowners. New Mexico *Cooperative Extension Service Guide B-119.*
- Baker, T.T., J.C. Boren, D.S. Cram, and S.T. Smallidge. 2003. Floodplain development in a highly disturbed intermittent canyon bottom under different seasons of grazing. *In: Livestock Research Briefs and Cattle growers' Shortcourse. March 27-28, 2003.*
- Baker, T.T., L. Stavast, K. Allred, and B. Allred. 2002. New Mexico riparian plants database. On-line publication of New Mexico State University Cooperative Extension Service website.
- Baker, T.T. 2002. What is a riparian area? On-line publication of New Mexico State University Cooperative Extension Service website.
- Baker, T.T. 2002. Riparian areas in New Mexico. On-line publication of New Mexico State University Cooperative Extension Service website.
- Lucas, R.W., T.T. Baker, M.K. Wood, D.M. VanLeeuwen, and C.D. Allison. 2002. Effects of cattle grazing on montane riparian areas in central New Mexico. Livestock Research Briefs and Cattle Grower's Short Course. New Mexico State University, Las Cruces, New Mexico. March 21-22, 2002.
- Stavast, L.J., T.T. Baker, M.K. Wood, A.L. Ulery, and R.P. Flynn. 2002. Effects of dairy manure disposal on blue grama rangelands: Results on vegetation, soils, and runoff water quality. Livestock Research Briefs and Cattle Growers Short Course. Las Cruces, NM. pp. 78. March 21-22, 2002.

- Lucas, R.W., T.T. Baker, and M.K. Wood. 2001. Riparian area response to altering season of use and intensity of cattle grazing in the Gila National Forest, New Mexico. *In: Livestock Research Briefs and Cattle Growers Short Course*. Clayton, New Mexico. March 28-29, 2001.
- Stavast, L., T.T. Baker, and M.K. Wood. 2001. Application of dairy wastes to blue grama rangelands: Preliminary results of the effects on vegetation, soils, and runoff water quality. *In: Livestock Research Briefs and Cattle Growers Short Course*. Clayton, New Mexico. March 28-29, 2001.
- Wood, M.K. and T.T. Baker. 2000. Plant residue and watershed protection. *In: Livestock Research Briefs and Cattle Growers Short Course*. Las Cruces, New Mexico. March 30-31, 2000.
- Lucas, R. W., T.T. Baker, and M. K. Wood. 2000. The effects of different livestock grazing intensities and seasons of use on riparian vegetation and soil erosion in the Black Range, Gila National Forest. *In: Livestock Research Briefs and Cattle Growers Short Course*. Las Cruces, New Mexico. March 30-31, 2000.
- Baker, T.T., J.T. Harrington, and M.K. Wood. 2000. The effects of simulated livestock grazing on coyote willow (*Salix exigua* Nutt.) growth and regeneration. *In: Livestock Research Briefs and Cattle Growers Short Course*. Las Cruces, New Mexico. March 30-31, 2000.
- Baker, T.T. 1999. Biological Evaluation: Turkey Run Allotment riparian area grazing intensity research project. Biological Evaluation submitted to and approved by United States Fish and Wildlife Service permitting research in Mexican spotted owl habitat.

**PROFESSIONAL ORGANIZATION CONFERENCE PRESENTATIONS, ABSTRACTS,
AND PROCEEDINGS**

❖ 70 total