

KENNETH W. TATE

(12-23-14)

RUSSELL L. RUSTICI ENDOWED CHAIR OF RANGELAND WATERSHED SCIENCE

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EDUCATION

- Ph.D. Water Resources, Oklahoma State University, Stillwater, Oklahoma, 1995. "A Stochastic Framework for Evaluating Forest Management Impacts on Water Quality from Watersheds in the Ouachita Mountains."
- M.S. Range Ecology and Management, Oklahoma State University, Stillwater, Oklahoma, 1991. "Effect of Defoliation Intensity on Regrowth of Tallgrass Prairie."
- B.S. Range Ecology and Management, Oklahoma State University, Stillwater, Oklahoma, 1989.
- A.S. Range Management, Northeastern Oklahoma A&M College, Miami, Oklahoma, 1987.

PROFESSIONAL EXPERIENCE

- 7-12 to present Professor and Rangeland Watershed Specialist in Cooperative Extension, Department of Plant Sciences, University of California, Davis.
- 7-09 to present Russell L. Rustici Endowed Chair of Rangeland Watershed Science, University of California, Davis.
- 1-09 to 6-14 Vice Chair for Outreach and Extension, Department of Plant Sciences, University of California, Davis.
- 09-12 to 12-12 Interim Department Chair, Department of Plant Sciences, University of California,
& 11-11 to 3-12 Davis.
- 7-05 to 7-12 Rangeland Watershed Specialist in Cooperative Extension, Department of Plant Sciences (formerly Agronomy and Range Science), University of California, Davis.
- 7-01 to 6-05 Associate Rangeland Watershed Specialist in Cooperative Extension, Department of Agronomy and Range Science, University of California, Davis.
- 4-95 to 6-01 Assistant Rangeland Watershed Specialist in Cooperative Extension, Department of Agronomy and Range Science, University of California, Davis.
- 12-91 to 12-94 USDA National Needs Fellow in Water Resources, Oklahoma State University, Forestry and Agricultural Engineering, Stillwater, Oklahoma.

CERTIFICATIONS

California Certified Rangeland Manager #79; CA Department of Forestry and Fire Protection. 1999+.
Certified Rangeland Professional #00-104; Society for Range Management. 1999+.

HONORS

- UC Cooperative Extension Outstanding Team Distinguished Service Award
Kenneth W. Tate and Edward R. Atwill. 2014. *Recognition of academic excellence, positive impact on society, teamwork, and cross-disciplinary integration.*
- Eric Bradford and Charlie Rominger Agricultural Sustainability Leadership Award. 2012.
- Western Extension Directors' Award of Excellence, UCCE Rangeland Watershed Program. 2012.
- Outstanding Achievement Award for Research. Society for Range Management. 2011.

HONORS (CONTINUED)

Outstanding Young Range Professional. Society for Range Management. 2000.
Phoenix Award. Oklahoma State University. 1994.
USDA National Needs Fellowship for Water Resources Research. 1992-94
Outstanding M.S. Candidate. Oklahoma State University, Department of Agronomy. 1991.
Phi Kappa Phi, Alpha Zeta, Gamma Sigma Delta

EDITORIAL POSITIONS

Associate Editor, *California Agriculture*, 2006-present.
Associate Editor, *Range Ecology and Management*, 2009-2011.

PEER-REVIEWED PUBLICATIONS

102. Davy, J., L.M. Roche, D. Nay, A. Robertson, and K.W. Tate. *In Press*. Plant Community Responses to Cattle Grazing in a Noxious Weed-Dominated Rangeland. *California Agriculture*.
101. Roche, L.M., J.F. Chang, J. Six, A.T. O'Geen, and K.W. Tate. *In Press*. Soil Organic Carbon Stability across a Mediterranean Oak Agroecosystem. Proceedings of the Seventh Symposium on Oak Woodlands: Managing Oak Woodlands in a Dynamic World. Visalia, CA.
100. Roche, L.M., J.D. Derner, B.B. Cutts, M.N. Lubell, and K.W. Tate. *Accepted with minor revision*. On-ranch grazing strategies: context for the rotational grazing dilemma. *Rangeland Ecology and Management*.
99. Jones, G.; P. Benchetler, K.W. Tate, E. Kolodziej. Trenbolone Acetate Metabolite Transport in Rangelands and Irrigated Pasture: Observations and Conceptual Approaches for Agro-Ecosystems *Environmental Science & Technology*. 48:12569-12576.
98. Jones, G.; P. Benchetler, K.W. Tate, E. Kolodziej. Surface and Subsurface Attenuation of Trenbolone Acetate Metabolites and Manure-Derived Constituents in Irrigation Runoff on Agro-Ecosystems. *Environmental Science: Processes & Impacts*. 16:2507-2516.
97. Freitas, M., L.M. Roche, D.W. Weixelman, and K.W. Tate. 2014. Montane Meadow Plant Community Response to Grazing. *Environmental Management*. 54:301-308.
96. Kachergis, K., J.D. Derner, B. Cutts, L.M. Roche, V. Eviner, M. Lubell, K.W. Tate. 2014. Increasing flexibility in rangeland management during drought. *Ecosphere*. 5:Art7.
95. Svejcar, T., C. Boyd, K. Davies, M. Madsen, J. Bates, R. Sheley, C. Marlow, D. Bohnert, M. Borman, R. Mata-Gonzalez, J. Buckhouse, T. Stringham, B. Perryman, S. Swanson, K. Tate, M. George, G. Ruyle, B. Roundy, C. Call, K. Jensen, K. Launchbaugh, A. Gearhart, L. Vermeire, J. Tanaka, J. Derner, G. Frasier, K. Havstad. 2014. Western Land Managers will Need all Available Tools for Adapting to Climate Change, Including Grazing: A Critique of Beschta et al. *Environmental Management*. 53:1035-1038.
94. Jones, G.; P. Benchetler, K.W. Tate, and E. Kolodziej. 2014. Mass Balance Approaches to Characterizing the Leaching Potential of Trenbolone Acetate Metabolites in Agro-Ecosystems. *Environmental Science & Technology*. 48:3715-3723.
93. Jones, B.E, M. Krupa, and K.W. Tate. 2013. Aquatic ecosystem response to timber harvesting for the purpose of restoring Aspen. *PLOS ONE*. 8(12):e84561. doi:10.1371/journal.pone.0084561
92. Lubell, M., B. Cutts, L.M. Roche, J.D. Derner, M. Hamilton, E. Kachergis, and K.W. Tate. 2013. Conservation Program Participation and Adaptive Rangeland Decision-Making. *Rangeland Ecology and Management*. 66:609-620.
91. McIlroy, S.K., A.J. Lind, B.H. Allen-Diaz, L.M. Roche, W.E. Frost, R.L. Grasso, and K.W. Tate. 2013. Determining the effects of cattle grazing treatments on Yosemite toads (*Anaxyrus [=Bufo] canorus*) in montane meadows. *PLOS ONE*. 8(11):e79263.
90. Roche, L.M., L. Kroemschroder, E. R. Atwill, R.A. Dahlgren, and K.W. Tate. 2013. Water quality conditions associated with cattle grazing and recreation on national forest lands. *PLOS ONE*. 8(6): e68127.
89. Popova, I.E., D.A. Bair, K.W. Tate, and S.J. Parikh. 2013. Sorption, Leaching, and Surface Runoff of Beef Cattle Veterinary Pharmaceuticals under Simulated Irrigated Pasture Conditions. 2013. *J. Environmental Quality*. 42:1167-1175.
88. McCullough, S.A., A. T. O'Geen, M.L. Whiting, D.A. Sarr, and K.W. Tate. 2013. Quantifying the Consequences of Conifer Succession in Aspen Stands: Decline in a Biodiversity-Supporting

- Community. Environmental Monitoring and Assessment. 184:6967–6986.
87. George, M.R., S. Larson-Praplan, M. Doran, and K.W. Tate. 2013. Grazing *Nassella*: Maintaining Purple Needlegrass in a Sea of Aggressive Annuals. Rangelands. 35:18-21.
 86. Kachergis, E., J. Derner, L.M. Roche, K.W. Tate, M. Lubell, R. Meador, and J. Magagna. 2013. Characterizing Wyoming Ranching Operations: Natural Resource Goals, Management Practices and Information Sources. Natural Resources. 4:45-54.
 85. Roche, L.M., K.J. Rice, and K.W. Tate. 2012. Oak Conservation Maintains Native Grass Stands in an Oak Woodland-Annual Grassland System. Biodiversity and Conservation. 21:2555-2568.
 84. Purdy, S.E., P.B. Moyle, and K.W. Tate. 2012. Montane Meadows in the Sierra Nevada: Comparing Terrestrial and Aquatic Assessment Methods. Environmental Monitoring and Assessment. 184:6967-6986.
 83. Roche, L.M., A.J. Latimer, D.J. Eastburn, and K.W. Tate. 2012. Cattle grazing and conservation of a meadow-dependent amphibian species in the Sierra Nevada. PLOS ONE 7(4): e35734.
 82. Roche, L.M., B. Allen-Diaz, D.J. Eastburn, and K.W. Tate. 2012. Cattle Grazing and Yosemite Toad (*Bufo canorus* Camp) Breeding Habitat in Sierra Nevada Meadows. Rangeland Ecology and Management. 65:56-65.
 81. Krupa, M., R. Spencer, K.W. Tate, J.W. Six, C. Kessel, and B. Linnquist. 2012. Controls on Dissolved Organic Carbon Composition and Export from Rice-dominated Systems. Biogeochemistry. 108:447-466
 80. Krupa, M., K.W. Tate, N. Bajwa, C. van Kessel, and B. Linnquist. 2011. Water Quality in Rice-Growing Watersheds in a Mediterranean Climate. Agriculture, Ecosystems and Environment. 144:290-301.
 79. George, M.R., R.D. Jackson, C. Boyd, and K.W. Tate. 2011. A Scientific Assessment of the Effectiveness of Riparian Management Practices. In: D.D. Briske (ed), Conservation Benefits of Rangeland Practices: Assessment, Recommendations, and Knowledge Gaps. Lawrence, KS. Allen Press.
 78. Briske, D.D., J.D. Derner, D.G. Milchunas, and K.W. Tate. 2011. An Evidence-Based Assessment of Prescribed Grazing Practices. In: D.D. Briske (ed), Conservation Benefits of Rangeland Practices: Assessment, Recommendations, and Knowledge Gaps. Lawrence, KS. Allen Press.
 77. Norton, J, L. Jungst, U. Norton, H. Olsen, K.W. Tate, and W. Horwath. 2011. Soil Carbon and Nitrogen Storage in Upper Montane Riparian Meadows. Ecosystems. 14:1217-1231.
 76. Swarowsky, A., R.A. Dahlgren, K.W. Tate, J.W. Hopmans, and A.T. O'Geen. 2011. Catchment Scale Soil Water Dynamics in a Mediterranean Oak Woodland. Vadose Zone Journal. 10:800-815.
 75. Kuhn, T.J., H.D. Safford, B.E. Jones, and K.W. Tate. 2011. Aspen (*Populus tremuloides*) stands and their contribution to plant diversity in a semiarid coniferous landscape. Plant Ecology. 212:1451-1463.
 74. Jones, B.E., D.F. Lile, and K.W. Tate. 2011. Cattle Selection for Aspen and Meadow Vegetation: Implications for Restoration. Rangeland Ecology and Management. 64:625–632.
 73. Ragosta, G., C. Evensen, E.R. Atwill, M. Walker, A. Asquith, T. Ticktin, and K.W. Tate. 2011. Risk Factors for Elevated *Enterococcus* Concentrations in a Rural Tropical Island Watershed. J. Environmental Management. 92:1910-1915.
 72. Lennox, M.S., D.J. Lewis, R.D. Jackson, J.M. Harper, S. Larson, and K.W. Tate. 2011. Development of Vegetation and Aquatic Habitat in Restored Riparian Sites of California's North Coast Rangelands. Restoration Ecology. 19:225-233.
 71. Lewis, D.J., E.R. Atwill, M.S. Lennox, M.D.G. Pereira, W.A. Miller, P.A. Conrad, and K.W. Tate. 2010. Management of Microbial Contamination in Storm Runoff from California Coastal Dairy Pastures. J. Environmental Quality. 39:1782–1789.
 70. O'Geen, A.T., R.A. Dahlgren, A. Swarowsky, K.W. Tate, D.J. Lewis, and M.J. Singer. 2010. Connecting Soil Hydrology and Stream Water Chemistry in California Oak Woodlands. California Agriculture. 64:78-84.
 69. Ragosta G., C. Evensen, E.R. Atwill, M. Walker, T. Ticktin, A. Asquith, and K.W. Tate. 2010. Causal Connections between Water Quality and Land Use in a Rural Tropical Island Watershed. Ecohealth. 7:105–113.
 68. Li, X., E.R. Atwill, L.A. Dunbar, and K.W. Tate. 2010. Effect of Daily Temperature Fluctuation during the Cool Season on the Infectivity of *Cryptosporidium parvum*. Applied and Environmental Microbiology. 76:989-993.

67. Lewis, D.J., E.R. Atwill, M.S. Lennox, M.D.G. Pereira, W.A. Miller, P.A. Conrad, and K.W. Tate. 2009. Reducing Microbial Contamination in Storm Runoff from High Use Areas on California Coastal Dairies. *Water Science and Technology*. 60: 1731-1743.
66. Jones, B.E., D.F. Lile, and K.W. Tate. 2009. Effect of Simulated Browsing on Aspen Regeneration: Implications for Restoration. *Range Ecology and Management*. 62:557–563.
65. Chow, A.T., T.L. Seong, A.O. Geen, T. Orozco, D. Beaudette, K.W. Po, P.J. Hernes, K.W. Tate, and R. Dahlgren. 2009. Litter Contributions to Dissolved Organic Matter and Disinfection Byproduct Precursors in California Oak Woodland Watersheds. *J. Environmental Quality*. 38: 2334-2343.
64. Harter, T., E.R. Atwill, L. Hou, B.M. Karle, and K.W. Tate. 2008. Developing risk models of *Cryptosporidium* transport in soils from vegetated, tilted soilbox experiments. *J Environmental Quality*. 37:245–258.
63. Miller, W.A., D.J. Lewis, M.D.G. Pereira, M. Lennox, P.A. Conrad, K.W. Tate, and E.R. Atwill. 2008. Farm Factors Associated with Reducing *Cryptosporidium* Loading in Storm Runoff from Dairies. *J. Environmental Quality*. 37:1875-1882.
62. Knox, A.K, R.A. Dahlgren, K.W. Tate, and E.R. Atwill. 2008. Efficacy of Flow-Through Wetlands to Retain Nutrient, Sediment, and Microbial Pollutants. *J. Environmental Quality*. 37:1837-1846.
61. Bartolome, J.W., R.D., A.D.K. Betts, J.M. Connor, G.A. Nader, K.W. Tate. 2007. Residual Dry Matter Effects on Production and Plant Functional Groups in California Annual Grassland. *Grass and Forage Science*. 62:445-452.
60. Miller, W.A., D.J. Lewis, M. Lennox, M.G.C. Pereira, K.W. Tate, P.A. Conrad, and E.R. Atwill. 2007. Climate and On-farm Risk Factors Associated with *Giardia duodenalis* cysts in Storm Runoff from California Coastal Dairies. *Applied and Environmental Microbiology*. 73:6972-6979.
59. Knox, A.K., K.W. Tate, R.A. Dahlgren, and E.R. Atwill. 2007. Management Reduces *E. coli* in Irrigated Pasture Runoff. *California Agriculture*. 61:159-165.
58. Kuhn, T.J., K.W. Tate, D. Cao, and M.R. George. 2007. Ecohydrologic Impacts of Juniper Expansion in the Klamath Basin, California. *California Agriculture*. 166-171.
57. Tate, K.W., D.L. Lancaster, and D.F. Lile. 2007. Assessment of Thermal Stratification within Stream Pools as a Mechanism to Provide Refugia for Native Trout in Hot, Arid Rangelands. *Environmental Monitoring and Assessment*. 124:289-300.
56. Hesson, S., D.S. Ahearn, R.A. Dahlgren, and K.W. Tate. 2006. Water Quality During Pulse Flood Flow Releases on the Mokelumne River, California. *Regulated Rivers*. 23:185-200.
55. D.J. Lewis, M.J. Singer, R.A. Dahlgren, and K.W. Tate. 2006. Nitrate and Sediment Fluxes from a California Rangeland Watershed. *J. Environmental Quality*. 35:2202-2211.
54. Tate, K.W., E.R. Atwill, J.W. Bartolome, and G.A. Nader. 2006. Significant *E. coli* Attenuation by Vegetative Buffers on Annual Grasslands. *J. Environmental Quality*. 35:795-805.
53. Thompson, L.C., L. Forero, Y. Sado, and K.W. Tate. 2006. Assessing the Distribution of Fish in Rangeland Streams in Relation to Environmental Factors: Fish Habitat Use in Cow Creek. *California Agriculture*. 60:200-206.
52. Atwill, E.R., K.W. Tate, M. Das Gracas C. Pereira, J.W. Bartolome, G.A. Nader. 2006. Efficacy of Natural Grass Buffers for Removal of *Cryptosporidium parvum* in Rangeland Runoff. *J. Food Protection*. 69:177-184.
51. Ahearn, D.S., R.W. Sheibley, R.A. Dahlgren, M. Anderson, J. Johnson, and K.W. Tate. 2005. Land Use and Land Cover Influence on Water Quality in the Last Free-Flowing River Draining the Western Sierra Nevada, California. *J. Hydrology*. 313:234-247.
50. Li, X., E. R. Atwill, L. A. Dunbar, T. Jones, J. Hook, and K.W. Tate. 2005. Seasonal Temperature Fluctuation Induces Rapid Inactivation of *Cryptosporidium parvum*. *Environmental Science and Technology*. 39:4484-4489.
49. Bedard-Haughn, A., K.W. Tate, C. van Kessel. 2005. Quantifying the Impact of Regular Cutting on Vegetative Buffer Efficacy for ¹⁵N sequestration. *J. Environmental Quality*. 34:1651-1664.
48. Jackson, R.D., B. Allen-Diaz, L.G. Oates, and K.W. Tate. 2006. Spring-Water Nitrate Increased by Grazing Removal in a Californian Oak Savanna. *Ecosystems*. 9:1-15.
47. Rickman, T.H., B.E. Jones, D.R. Cluck, D.J. Richter, and K.W. Tate. 2005. Night Roost Habitat of Radio-Tagged Northern Goshawks on Lassen National Forest, California. *J. Wildlife Management*. 69:1737-1742.

46. Tate, K.W., D.L. Lancaster, J. Morrison, and D.F. Lile. 2005. Monitoring Helps Reduce Water Quality Impacts in Flood Irrigated Pasture. *California Agriculture*. 59:168-175.
45. Jones, B.E., T.H. Rickman, A. Vasquez, Y. Sado, and K.W. Tate. 2005. Removal of Competing Conifers to Regenerate Degraded Aspen Stands in the Sierra Nevada. *Restoration Ecology*. 13:373-379.
44. Lewis, D.J., E.R. Atwill, M. S. Lennox, L. Hou, B. Karle, and K.W. Tate. 2005. Linking On-Farm Dairy Management Practices to Storm-Flow Fecal Coliform Loading for California Coastal Watersheds. *Environmental Monitoring and Assessment*. 107:407-425.
43. Carleton, C.J., R.A. Dahlgren, and K.W. Tate. 2005. A Relational Database for the Monitoring and Analysis of Watershed Hydrologic Functions: I. Database Design and Pertinent Queries. *Computers and Geosciences*. 31:393-402.
42. Carleton, C.J., R.A. Dahlgren, and K.W. Tate. 2005. A Relational Database for the Monitoring and Analysis of Watershed Hydrologic Functions: II. Data Manipulation and Retrieval Programs. *Computers and Geosciences*. 31:403-413.
41. Tate, K.W., M. Das Gracias C. Pereira, and E.R. Atwill. 2004. Efficacy of Vegetated Buffer Strips for Retaining *Cryptosporidium parvum*. *J. Environmental Quality*. 33:2243-2251.
40. Tate, K.W., D.F. Lile, D.L. Lancaster, M.L. Porath, J.A. Morrison, and Y. Sado. 2005. Graphical Analysis Facilitates Evaluation of Stream Temperature Monitoring Data. *California Agriculture*. 59:153-160.
39. Tate, K.W., D.F. Lile, D.L. Lancaster, M.L. Porath, J.A. Morrison, and Y. Sado. 2005. Statistical Analysis of Monitoring Data Aids in Prediction of Stream Temperature. *California Agriculture*. 59:161-167.
38. Gong, P., X. Miao, K.W. Tate, C. Battaglia, G.S. Biging, 2004. Water Table Level in Relation to EO-1 ALI and ETM+ Data over a Mountainous Meadow in California. *Canadian J. Remote Sensing*. 30:691-696.
37. Bedard-Haughn, A., K.W. Tate, C. van Kessel. 2004. Using ¹⁵N to Quantify Vegetative Buffer Effectiveness for Sequestering N in Runoff. *J. Environmental Quality*. 33:2252-2262.
36. Tate, K.W., D.D. Dudley, N.K. McDougald, and M.R. George. 2004. Effects of Canopy and Grazing on Soil Bulk Density on Annual Rangeland. *J. Range Management*. 57:411-417.
35. Dahlgren, R.A., K.W. Tate, and D.S. Ahearn. 2004. Watershed Scale, Water Quality Monitoring – Water Sample Collection. *In: The Handbook of Environmental Monitoring*.
34. Lennox, M., D.J. Lewis, R. Jackson, J. Harper, R. Katz, B. Allen-Diaz, K.W. Tate. 2004. Riparian Revegetation Evaluation in North Coastal California. *Proceedings of the Conference on Riparian Ecosystems and Buffers: Multi-scale Structure, Function, and Management*. American Water Resources Association. Olympic Valley, CA.
33. George, M.R., R.E. Larsen, N.K. McDougald, K.W. Tate, J.D. Gerlach, K.O. Fulgham. 2004. Cattle Grazing has Varying Impacts on Stream-Channel Erosion in Oak Woodlands. *California Agriculture*. 58:138-143.
32. Allen-Diaz, B., R.D. Jackson, J.W. Bartolome, K.W. Tate, and L.G. Oates. 2004. Long-Term Grazing Study in Spring-Fed Wetlands Reveals Management Tradeoffs. *California Agriculture*. 58:144-148.
31. Li, Xunde, K.W. Tate, L.A. Dunbar, B. Huang, and E.R. Atwill. 2003. Efficiency for Recovering *Encephalitozoon intestinalis* Spores from Waters by Centrifugation and Immunofluorescence Microscopy. *J. Eukaryotic Microbiology*. 50:579:580.
30. Tate, K.W., E.R. Atwill, N.K. McDougald, M.R. George. 2003. Spatial and Temporal Patterns of Cattle Feces Deposition on Rangeland. *J. Range Management*. 56:432-438.
29. Atwill, E.R., B. Hoar, M. das G.C. Pereira, K.W. Tate, F. Rulofson, and G. Nader. 2003. Improved Quantitative Estimates of Low Environmental Loading and Sporadic Periparturient Shedding of *Cryptosporidium parvum* in Adult Beef Cattle. *Applied and Environmental Microbiology*. 68:4604-4610.
28. Dahlgren, R.A., W. Horwath, K.W. Tate, T.J. Camping. 2003. Blue Oak Enhance Soil Quality on California Rangeland. *California Agriculture*. 57:42-47.
27. Lile, D.F., K.W. Tate, D.L. Lancaster, and B.M. Karle. 2003. Stubble Height Standards for Sierra Nevada Meadows can be Difficult to Meet. *California Agriculture*. 57:60-64.
26. Ward, T.A., K.W. Tate, E.R. Atwill, D.F. Lile, D.L. Lancaster, N.K. McDougald, S. Barry, R.S. Ingram, H.A. George, W.J. Jensen, W.E. Frost, R. Phillips, G.G. Markegard, S. Larson. 2002. A

- Comparison of Three Visual Assessments for Riparian and Stream Health. *J. Soil and Water Conservation*. 58:83-88.
25. Atwill, E.R., L. Hou, B.M. Karle, T. Harter, K.W. Tate, R.A. Dahlgren. 2002. Transport of *Cryptosporidium parvum* Oocysts through Vegetated Buffer Strips and Estimated Filtration Efficiency. *Applied and Environmental Microbiology*. 68:5517-5527.
 24. George, M.R., R.E. Larsen, N.K. McDougald, K.W. Tate, J.D. Gerlach, Jr., and K.O. Fulgham. 2002. Influence of Grazing on Channel Morphology of Intermittent Streams. *J. Range Management*. 55:551-557.
 23. George, M.R. N.K. McDougald, K.W. Tate, and R.E. Larsen. 2002. Sediment Dynamics and Sources in a Grazed Hardwood Rangeland Watershed. Proceedings of the 5th Symposium on Oak Woodlands: Oaks in California's Changing Landscape. San Diego, CA. October 22-25.
 22. Dahlgren, R.A., K.W. Tate, D.J. Lewis, E.R. Atwill, J.M. Harper, B.H. Allen-Diaz. 2001. Watershed Research Examines Rangeland Management Effects on Water Quality. *California Agriculture*. 55:64-71.
 21. Lewis, D.J. K.W. Tate, J.M. Harper, J. Price. 2001. Survey Identifies Sediment Sources in North Coast Rangelands. *California Agriculture*. 55(4):32-38.
 20. Tate, K.W., G.A. Nader, D.J. Lewis, E.R. Atwill, and J.M. Connor. 2001. Evaluation of Buffers to Improve the Quality of Runoff from Irrigated Pastures. *J. Soil and Water Conservation*. 55:473-478.
 19. Atwill, E.R., S. Maldonado Camargo, R. Phillips, L. Herrera Alonso, K.W. Tate, W.A. Jensen, J. Bennet, S. Little, and T.P. Salmon. 2001. Quantitative Shedding of Two Genotypes of *Cryptosporidium parvum* in California Ground Squirrels. *Applied and Environmental Microbiology*. 67:2840-2843.
 18. Lewis, D.J., L.K. Vance, K.W. Tate, C. Battaglia, and J.M. Harper. 2001. Stream Temperature on the Garcia River: The Relationships of Air Temperature, Canopy, and Geographic Position to Stream Thermodynamics. Proceedings of the Riparian Habitat and Floodplain Conference. Sacramento, CA March 12-14, 2001.
 17. Ward, T.A., K.W. Tate, and E.R. Atwill. 2001. A Cross-sectional Survey of California's Grazed Rangeland Riparian Areas. Proceedings of the Riparian Habitat and Floodplain Conference. Sacramento, CA March 12-14, 2001.
 16. Lewis, D.J., K.W. Tate, R.A. Dahlgren, and J. Newell. 2001. Turbidity and Total Suspended Solid Concentration Dynamics in Streamflow from California Oak Woodland Watersheds. Proceedings of the 5th Symposium on Oak Woodlands: Oaks in California's Changing Landscape. San Diego, CA. October 22-25.
 15. Lewis, D.J., M.J. Singer, R.A. Dahlgren, and K.W. Tate. 2000. Hydrology in a California Oak Woodland Watershed: a 17-Year Study. *J. Hydrology*. 230:106-117.
 14. Drake, D.J., K.W. Tate, and H. Carlson. 2000. Historical Analysis of Scott River Fall Flows; Implications for Fisheries and Agriculture. *California Agriculture*. 54:46-49.
 13. Tate, K.W., E.R. Atwill, N.K. McDougald, M.R. George, and D. Witt. 2000. A Comparative Method for Estimating Cattle Fecal Deposition on Rangeland Watersheds. *J. Range Management*. 53:506-510.
 12. Tate, K.W., E.R. Atwill, M.R. George, N.K. McDougald, and R.E. Larsen. 2000. *Cryptosporidium parvum* Transport from Cattle Fecal Deposits on California Rangeland Watersheds. *J. Range Management*. 53:295-299.
 11. Lewis, D.J., M.J. Singer, and K.W. Tate. 2000. Applicability of SCS Curve Number Method for a California Oak Woodland Watershed. *J. Soil and Water Conservation*. 55:226-230.
 10. Tate, K.W., R.A. Dahlgren, M.J. Singer, B. Allen-Diaz, and E.R. Atwill. 1999. On California Rangeland Watersheds: Timing, Frequency of Sampling Affect Accuracy of Water Quality Monitoring. *California Agriculture*. 53:44-48.
 9. Tate, K.W. 1999. Links to Water Resources. pp. 10-31 *In*: B. Allen-Diaz (ed), *Sierra Nevada Ecosystems in the Presence of Livestock*. A Report to United States Forest Service, Pacific Southwest Station.
 8. Barry, S.J., E.R. Atwill, K.W. Tate, T.S. Koopmann, J. Cullor, T. Huff. 1998. Developing and Implementing a HACCP-Based Program to Control *Cryptosporidium* and Other Waterborne Pathogens in Alameda Creek Watershed: A Case Study. Proceedings of American Water Works Association. Dallas, TX.

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6. Gillen, R.L., F.T. McCollum III, K.W. Tate, and M.E. Hodges. 1998. Tallgrass Prairie Response to Grazing System and Stocking Rate. *J. Range Management*. 51:139-146.
5. Cassels, D.M., R.L. Gillen, F.T. McCollum, K.W. Tate, and M.E. Hodges. 1995. Effects of Grazing Management on Standing Crop Dynamics in Tallgrass Prairie. *J. Range Management*. 48:81-84.
4. Derner, J.D., R.L. Gillen, F.T. McCollum, and K.W. Tate. 1994. Little Bluestem Tiller Defoliation Patterns Under Continuous and Rotational Grazing. *J. Range Management*. 47:220-225.
3. Tate, K.W., R.L. Gillen, R.L. Mitchell, and R. Stevens. 1994. Effect of Defoliation Intensity on Regrowth of Tallgrass Prairie. *J. Range Management*. 47:38-42.
2. Gillen, R.L. and K.W. Tate. 1993. An Evaluation of the Constituent Differential Method for Determining Live and Dead Herbage Fractions. *J. Range Management*. 46:142-146.
1. Gillen, R.L., F.T. McCollum, M.E. Hodges, J.E. Brummer, and K.W. Tate. 1991. Plant Community Responses to Short Duration Grazing in Tallgrass Prairie. *J. Range Management*. 44:124-128.

ACTIVE RESEARCH AND EXTENSION EDUCATION GRANTS

Tate, K.W., L.M. Roche, A.T. O'Geen, L. Huntsinger, R. Standiford. 2014-2017. Managing California Rangelands for Multiple Ecosystem Services: Understanding Tradeoffs among Production and Conservation-Based Goals. UC ANR Competitive Grants Program. \$248,977.

Tate, K.W., L.M. Roche. 2012-2015. Rangeland long-term condition and trend monitoring program. USDA Forest Service. \$300,000.

Atwill, E.R., and K.W. Tate 2012-2015. Bacteria Source Tracking, Grazing Management Practice Implementation, and Assessment for Watersheds in the Lahontan Region. \$470,000. In partnership with Sierra Business Council, total grant amount \$1,000,000. CA State Water Resources Control Board.

SELECT COMPLETED RESEARCH AND EXTENSION EDUCATION GRANTS

Tate, K.W., and L.M. Roche. 2012-2014. Prescribed Grazing to Enhance Ranch Profit and Rangeland Ecosystem Services. UC Davis Rustici Rangeland and Cattle Research and Extension Endowment. \$100,000.

Tate, K.W., and E.R. Atwill. 2010-2014. Livestock Management and Waterborne Microbial Pollutants on US Forest Service Grazing Allotments. USDA Forest Service. \$530,000.

Tate, K.W., and L.M. Roche, J.D. Derner, M.N. Lubell, V. Eviner, A.T. O'Geen, and M.R. George. 2010-2013. Prescribed Grazing to Sustain Livestock Production, Soil Quality, and Diversity in Rangeland Ecosystems. USDA Western Sustainable Agriculture Research and Education Program. \$197,000.

Tate, K.W., L.M. Roche, V. Eviner, A.T. O'Geen, J. Derner, M.N. Lubell, and M.R. George. 2009-2013. Prescribed Grazing to Restore Rangeland Soil Quality, Plant Diversity, Water Quality, and Agricultural Productivity. USDA Rangeland Research Program. \$483,000.

Tate, K.W., E. Kolodziej, A.L. Craigmill, A.T. O'Geen, E.R. Atwill. 2009-2014. Transport and Mitigation of Beef Cattle Veterinary Pharmaceuticals and Hormones in Surface and Sub-Surface Transport from Grazed Watersheds. USDA-AFRI Water and Watersheds Program. \$398,000.

Allen-Diaz, B., A. Lind, and K.W. Tate. 2005-2011. Determining the Effects of Livestock Grazing on Yosemite Toads (*Bufo canorus*) and their Habitat: an Adaptive Management Study. USDA Forest Service. \$500,000.

Tate, K.W., E.R. Atwill, C. van Kessel, J. Six, R.A. Dahlgren. 2004-2010. Implementation of Vegetative Buffer, Irrigation, and Grazing Best Management Practices to Reduce Pathogens, Organic Carbon, and Colloids in Runoff from Rangelands and Irrigated Pastures. CALFED Proposition 50 Drinking Water Quality Program. \$886,133.

George, H.A., K.W. Tate, M.J. Singer, and D.F. Lile. 2005-2010. Upper Feather River Watershed Irrigation Discharge Management Program. CA State Water Resources Control Board, Irrigated Lands Program. \$512,000.

Atwill, E.R., K.W. Tate, and M. Yates. 2006-2009. Efficacy of Grassland Buffers for Reducing *Salmonella*, *Cryptosporidium parvum*, and rotavirus in Rangeland Runoff. USDA CSREES. \$398,716.

Dahlgren, R.A., K.W. Tate, E.R. Atwill, B. Allen-Diaz, and M.J. Singer. 2001-2004. Range Management Effects on Water Quality in Oak Woodlands. USDA-CERES. \$570,000.

- George, M.R. and K.W. Tate. 2001-2004. Rangeland Water Quality Management; Planning, Implementation, and Effectiveness. CA State Water Resources Control Board. \$241,000.
- Tate, K.W., L.K. Vance, Z. Wan, P. Gong, G. Biging, and R. Gildersleeve. 1999-2003. Using Remote Sensing to Evaluate the Impacts of Flood Irrigation of Meadows in the East Walker River Basin of California. NASA NRA-98-OES-09. \$543,490.

PROFESSIONAL CONFERENCE ABSTRACTS

95. Roche, L.M., M.N. Lubell, J.D. Derner, L. Huntsinger, B.C. Cutts, R.B. Standiford, A.T. O'Geen, and K.W. Tate. 2014. Sustaining working rangelands: social, economic, and ecological insights from rancher Decision-making and drought adaptation. 99th Ecological Society of America Annual Meeting. Sacramento, CA: 10-15 Aug 2014.
94. Roche, L.M., M.N. Lubell, J.D. Derner, L. Huntsinger, B.C. Cutts, R.B. Standiford, A.T. O'Geen, and K.W. Tate. 2014. Sustaining working rangelands: insights from rancher decision-making surveys and interviews. 9th Biennial Conference of the Association of Natural Resource Extension Professionals. Sacramento, CA: 18-22 May 2014.
93. Eastburn, D.J., L.M. Roche, A.T. O'Geen, and K.W. Tate. 2014. Multiple Ecosystem Service Outcomes across a Gradient of Oak Woodland Management. 7th Oak Symposium, University of California. Visalia, CA 3-6 Nov 2014.
92. Roche, L.M., J. Derner, M. Lubell., L. Jasny, and K.W. Tate. 2013. Adaptive Management for Diverse Stakeholder Goals: A Participatory Grazing Management Experiment. 66th Annual Meeting of the Society for Range Management. Oklahoma City, OK.
91. Tate, K.W., L.M. Roche, and M.R. George. 2013. Ecological Value of Managing Livestock Grazing Distribution. 66th Annual Meeting of the Society for Range Management. Oklahoma City, OK.
90. Roche, L.M., A.T. O'Geen, V.T. Eviner, J.D. Derner, K.W. Tate. 2012. Rangeland Management for Multiple Outcomes: Explicitly Integrating Ecosystem Services into Management Models. 65th Annual Meeting of the Society for Range Management. Spokane, WA.
89. Eastburn, D. J., L.M. Roche, K.W. Tate. 2012. Herbaceous Plant Diversity and Productivity Relationships across Multiple States of an Oak Woodland-Annual Grassland System. 65th Annual Meeting of the Society for Range Management. Spokane, WA.
- Jones, B.E., D.F. Lile, K.W. Tate. 2012. Cattle Selection for Aspen and Meadow Forage: Implications for Restoration. 65th Annual Meeting of the Society for Range Management. Spokane, WA.
88. Robertson, A.V., L.M. Roche, J. Davy, D. Nay, K.W. Tate. 2012. Plant Community Response to Rotational Grazing in a Noxious Weed Dominated System 65th Annual Meeting of the Society for Range Management. Spokane, WA.
87. Roche, L.M., A.T. O'Geen, V.T. Eviner, J.D. Derner, K.W. Tate. 2011. Ecosystem Service-Based State and Transition Models to Guide Rangeland Management. 96th Ecological Society of America Annual Meeting. Austin, TX.
86. Tate, K.W., L.M. Roche, T. Becchetti, D. Lile, D. Lewis, A.T. O'Geen, R.A. Dahlgren, M.R. George, and E.R. Atwill. 2011. Healthy Rangeland Watersheds and Productive Livestock Enterprises: Why Not? 64th Annual Meeting of the Society for Range Management. Billings, MT.
85. Roche, L.M., A.M. Latimer, D.J. Eastburn, and K.W. Tate. 2011. Cattle Grazing and Sensitive Wildlife Species Conservation in Sierra Nevada Mountain Meadows. 64th Annual Meeting of the Society for Range Management. Billings, MT.
84. Roche, L.M., K.W. Tate, V.T. Eviner, A.T. O'Geen, M.N. Lubell, J.D. Derner, M.R. George, and B. Cutts. 2010. Integrating Dynamic Soil and Vegetation Properties into Ecosystem Service-Based State and Transition Models to Guide Rangeland Management. ASA, CSA, SSSA International Meeting. Long Beach, CA.
83. Chang, J.F., L.M. Roche, J.W. Six, A.T. O'Geen, and K.W. Tate. 2010. Stability of Soil Organic Carbon Pools Across a Rangeland Agricultural Management Gradient. ASA, CSA, SSSA International Meeting. Poster presentation. Long Beach, CA.
82. McCullough, S.A., D.A. Sarr, A.T. O'Geen, M.L. Whiting, and K.W. Tate. 2010. Changes in community condition associated with conifer encroachment in northern Californian aspen stands. San Diego Zoo's Institute for Conservation Research Lecture Series. Escondido, CA

81. Eastburn, D.J., L.M. Roche, and K.W. Tate. 2010. Investigation of relationships between livestock utilization and Yosemite toad (*Bufo canorus*) occupancy in montane meadows of the Sierra Nevada. Society for Range Management, 63rd Annual Meeting. Denver, CO.
80. Roche, L.M., A. Lind, D.J. Eastburn, R. Grasso, and K.W. Tate. 2010. Effects of cattle grazing, water quality attributes and hydrologic conditions on occupancy of Yosemite toad (*Bufo canorus*) breeding habitat in Sierra Nevada mountain meadows. Society for Range Management, 63rd Annual Meeting. Denver, CO.
79. S.A. McCullough, K.W. Tate, D.A. Sarr, A.T. O'Geen, and M.L. Whiting. 2009. Aspen forest dynamics associated with conifer encroachment at Lassen Volcanic National Park, California. Presentation: North American Forest Ecology Workshop, Logan, UT.
78. S.A. McCullough, K.W. Tate, D.A. Sarr, A.T. O'Geen, and M.L. Whiting. 2009. Recent trends and current conditions within aspen stands of Lassen Volcanic National Park, California. Poster: George Wright Society, Portland, OR.
77. Roche, L.M., K.W. Tate, A.T. O'Geen, and D.J. Eastburn. 2009. Identifying Relationships between Livestock Grazing, Plant Community Characteristics, and Soil Attributes in Central Sierra Nevada Meadows. Society for Range Management, 62nd Annual Meeting. Albuquerque, NM.
76. George, H., K.W. Tate, D.F. Lile, B.R. Hoar, E.R. Atwill. Indicator Bacteria: Sentinels of Safe Water, Or Maybe Not? Society for Range Management, 62nd Annual Meeting. Albuquerque, NM.
75. McCullough, S., K.W. Tate, M. Whiting, A.T. O'Geen. 2009. Plant and Soil Transitions due to Conifer Encroachment in Aspen Stands of Lassen Volcanic National Park, California. Society for Range Management, 62nd Annual Meeting. Albuquerque, NM.
74. Roche, L.M., K.W. Tate, A.T. O'Geen, and D.J. Eastburn. 2009. Denitrification as a Function of Moisture Gradients and Annual Livestock Utilization in Upper Montane Meadows of the Central Sierra Nevada. Society for Range Management, 62nd Annual Meeting. Albuquerque, NM.
73. Briske, D.D., J.D. Derner, D.G. Milchunas, and K.W. Tate. 2009. Assessment of Prescribed Grazing as a Conservation Practice. Society for Range Management, 62nd Annual Meeting. Albuquerque, NM.
72. George, M.R., C. Boyd, R. Jackson, and K.W. Tate. 2009. Evaluating the Influence of Riparian Management Practices on Ecosystem Services. Society for Range Management, 62nd Annual Meeting. Albuquerque, NM.
71. George, H., K.W. Tate, and K. Schmidt. 2009. Drivers of Dissolved Oxygen in Rangeland Streams within the Upper Feather River Watershed. Society for Range Management, 62nd Annual Meeting. Albuquerque, NM.
70. Lile, D.F., K.W. Tate, and D.L. Lancaster. 2009. Twenty Years of Cross-Section Monitoring on Cedar Creek: Implications for Restoration and Monitoring. Society for Range Management, 62nd Annual Meeting. Albuquerque, NM.
69. Jones, B.E., K.W. Tate, and D.F. Lile. 2009. Seasonal Forage Production, Quality, and Livestock Utilization Dynamics in Meadows and Adjacent Aspen Stands. Society for Range Management, 62nd Annual Meeting. Albuquerque, NM.
68. Derner, J.D., D.D. Briske, D.G. Milchunas, and K.W. Tate. 2009. Experimental Evidence for Grazing System Research: What Does it Tell Us? Society for Range Management, 62nd Annual Meeting. Albuquerque, NM.
67. O'Geen, A.T., L.M. Roche, and K.W. Tate. 2008. Relevant Spatial Scales for a National Inventory of Soil Change. Joint Annual Meeting Geological Society of America (GSA), Soil Science Society of America (SSSA), American Society of Agronomy (ASA), Crop Science Society of America (CSSA), and the Gulf Coast Association of Geological Societies. Houston, TX.
66. Kuhn, T.J., K.W. Tate, M.R. George, and D. Cao. 2007. Ecohydrology of Western Juniper and Feasibility for Water Yield Augmentation in the Klamath River Basin, California. Society for Range Management, 60th Annual Meeting. Reno, NV.
65. Kuhn, T.J., K.W. Tate, M.G. Barbour, H. Safford, B.E. Jones. 2007. The Importance of Aspen Communities to Local and Landscape Diversity in the Sierra Nevada. Society for Range Management, 60th Annual Meeting. Reno, NV.
64. Tate, K.W., B.E. Jones. 2007. Water Resources Impacts Due to Conifer Removal to Restore Aspen Stands. Society for Range Management, 60th Annual Meeting. Reno, NV.

63. Jones, B.E., K.W. Tate, D.F. Lile, S.R. Cler. 2007. Browse Effects and the Influence of Forage Availability and Quality on Livestock Forage Selection in Aspen Communities. Society for Range Management, 60th Annual Meeting. Reno, NV.
62. Tate, K.W., T.A. Becchetii, C. Battaglia, N.K. McDougald, D.F. Lile, H.A. George, D.L. Lancaster. 2007. Macroinvertebrate Analysis Indicates Significant Improvement of Stream Health Due to Livestock Distribution Efforts. Society for Range Management, 60th Annual Meeting. Reno, NV.
61. Roche, L.M., K.W. Tate, A. Lind, B.H. Allen-Diaz, R. Grasso, and S.K. McIlroy. 2007. Livestock Utilization and Acute Impacts of Cattle Grazing in Meadows Providing Yosemite Toad Breeding Habitat in the southern Sierra Nevada. Society for Range Management, 60th Annual Meeting. Reno, NV.
60. Jones, B.E., K.W. Tate, F. Hall, and R.L. Callas. 2007. A 50-Year Trend Analysis of Sage Grouse (*Centrocercus urophasianus*) Numbers on Mating Leks in Northeastern California. Society for Range Management, 60th Annual Meeting. Reno, NV.
59. McIlroy, S., B. Allen-Diaz, W. Frost, N. McDougald, L. Roche, K.W. Tate. 2006. Identifying ecosystem impacts of different grazing regimes in the Sierra Nevada. Society for Range Management, 59th Annual Meeting. Vancouver, B.C.
58. Allen-Diaz, B., A. Huber, and K.W. Tate. 2006. Grazing and prescribed fire effects on plant communities in a California oak woodland rangeland. Society for Range Management, 59th Annual Meeting. Vancouver, B.C.
57. Knox, K., R.A. K.W. Tate, Dahlgren. 2006. Efficacy of wetlands to enhance water quality of tailwaters from irrigated pastures. Society for Range Management, 59th Annual Meeting. Vancouver, B.C.
56. Kuhn, T.J., K.W. Tate, M. Barbour, H. Safford. 2006. Restoration of aspen stands to enhance plant diversity in the Sierra Nevada. Society for Range Management, 59th Annual Meeting. Vancouver, B.C.
55. Jones, B.E., K.W. Tate, D.F. Lile, S.R. Cler. 2006. Consequences of grazing for aspen recruitment and stand sustainability in the Sierra Nevada. Society for Range Management, 59th Annual Meeting. Vancouver, B.C.
54. L.M. Roche, K.W. Tate, and K.J. Rice. 2006. Effect of oak canopy and cattle grazing on *Nassella pulchra* in Sierra Nevada foothill annual grasslands. Society for Range Management, 59th Annual Meeting. Vancouver, B.C.
53. Tate, K.W. 2006. Quantitative riparian monitoring: monitoring water quality. Society for Range Management, 59th Annual Meeting. Vancouver, B.C.
52. Tate, K.W., D.J. Lewis, J.M. Harper, D.F. Lile, D.L. Lancaster. 2006. Vegetation canopy, streamflow, and air temperature are important and interacting factors determining water temperature in inland and coastal rangeland streams. Society for Range Management, 59th Annual Meeting. Vancouver, B.C.
51. Tate, K.W., E.R. Atwill, J.W. Bartolome, and G. Nader. 2006. Grasslands filter a significant amount of the *Escherichia coli* transported from cattle fecal deposits during natural rainfall-runoff events. Society for Range Management, 59th Annual Meeting. Vancouver, B.C.
50. Tate, K.W., and E.R. Atwill. 2005. Integrating water quality protection from *Cryptosporidium parvum* into grazing management plans. Society for Range Management, 58th Annual Meeting. Ft. Worth, TX.
49. Bedard-Haughn, A., K.W. Tate, and C. van Kessel. 2004. Increasing the demand: The impact of regular cutting on vegetative buffer ¹⁵N uptake. Soil Science Society of America and Canadian Society of Soil Science Joint Annual Meeting, Seattle, WA.
48. Tate, K.W., A. Bedard-Haughn, and C. van Kessel. 2004. Sink or source? Managing vegetative buffers to minimize N in runoff. Soil Science Society of America and Canadian Society of Soil Science Joint Annual Meeting, Seattle, WA.
47. Bedard-Haughn, A., K.W. Tate, and C. van Kessel. 2004. Using ¹⁵N to quantify vegetative buffer efficiency for sequestering N in runoff. Ecological Society of America Annual Meeting, Portland, OR.
46. Bedard-Haughn, A., K.W. Tate, and C. van Kessel. 2004. Using ¹⁵N to quantify vegetative buffer efficiency in an irrigated pasture system. Riparian Ecosystems and Buffers: Multi-scale Structure, Function, and Management. American Water Resource Association, Summer Specialty Conference, Olympic Valley, CA.
45. Tate, K.W., R.A. Dahlgren, D.J. Lewis, D. Ahern, M.J. Singer, and E.R. Atwill. 2004. Water Quality Dynamics in Coastal and West-Slope Sierra Nevada Streams. Salmon Restoration Federation. Davis, CA.

44. Tate, K.W., B.E. Jones. 2004. Riparian and Water Resources Impacts of Conifer Removal to Restore Aspen Communities in the Northern Sierra Nevada. Western Section of the Wildlife Society. Ronhert Park, CA.
43. Lenox, M.S., D. Lewis, R. Katz, R. Jackson, J. Harper, B. Allen-Diaz, K.W. Tate. 2004. Riparian Revegetation Evaluation in North Coastal California. Western Section of the Wildlife Society. Ronhert Park, CA.
42. Rickman, T.H., B.E. Jones, N. Nordensten, J. Arnold, K.W. Tate. 2004. Lake Characteristics Associated with Bufflehead (*Bucephala albeola*) Brood Occurrence in Northeastern California. Western Section of the Wildlife Society. Ronhert Park, CA.
41. Jones, B.E., T.H. Rickman, and K.W. Tate. 2004. Monitoring Effectiveness of Conifer Removal to Restore Aspen Stands on the Eagle Lake Ranger District, Lassen National Forest. Western Section of the Wildlife Society. Ronhert Park, CA.
40. Lile, D.F., D.L. Lancaster, R.G. Wilson, J. Morrison, K.W. Tate. 2004. Juniper Control Strategies in Northeastern California. Society for Range Management, 57th Annual Meeting. Salt Lake City, UT.
39. Bedard-Haughn, A., K.W. Tate, and C. van Kessel. 2003. Attenuation of nitrate-¹⁵N by vegetated buffers in an irrigated pasture system. American Geophysical Union Fall Meeting, San Francisco, CA.
38. Bedard-Haughn, A., K.W. Tate, and C. van Kessel. 2003. Vegetative buffer efficiency in an irrigated pasture system. Canadian Society of Soil Science Annual Meeting, Montréal, QC.
Awarded: C.F. Bentley Student Presentation Award for Excellence in Oral Presentations (1st place)
37. Henson, S.S., D.S. Ahern, R.A. Dahlgren, K.W. Tate, and E. Van Nieuwenhuysse. 2003. Effects of a Controlled Water Release on Water Quality in the Mokelumne River, California. American Geophysical Union Fall Meeting. San Francisco, CA.
36. Lewis, D.J., K.W. Tate, C. Battaglia, L.K. Vance, J.M. Harper. 2002. Stream Temperature in the Garcia River: the Relationships of Air Temperature, Canopy, and Geographic Position to Stream Thermodynamics. American Institute of Hydrology Conference. Portland, OR.
35. Ward, T.A., K.W. Tate, and E.R. Atwill. A Cross-Sectional Survey of California's Rangeland Riparian Areas. Society for Range Management, 55th Annual Meeting, Kansas City, MO.
34. Dudley, D.M. Dudley, D.M., K.W. Tate, M.R. George, and N.K. McDougald. 2002. Factors Influencing Bulk Density on Savanna Rangeland in the Southern Sierra Nevada Foothills. Society for Range Management, 55th Annual Meeting, Kansas City, MO.
33. Battaglia, C.F., L.K. Vance, K.W. Tate, T.A. Ward, and D.J. Lewis. 2002. Correlating Habitat Features, Macroinvertebrate Communities, and Stream Assessment Procedures in Grazed Rangeland Streams. Society for Range Management, 55th Annual Meeting, Kansas City, MO.
32. Atwill, E.R., L. Hou, B.M. Karle, T. Harter, K.W. Tate, and R.A. Dahlgren. 2001. Engineering Vegetative Buffer Strips for the Removal of Amphixenotic *Cryptosporidium parvum* from Runoff of Dairies and Grazed Agricultural Land. International Life Sciences Institute and International Association for Food Protection Symposium on Food Microbiology. Minneapolis, MN.
31. Tate, K.W., T.A. Ward, and E.R. Atwill. 2001. Invited Presentation: A Case for Researchers and Managers Working Together to Identify Riparian Friendly Grazing Management. American Fisheries Society, 138th Summer Meeting, Phoenix, AZ.
30. Ward, T.A., K.W. Tate, and E.R. Atwill. 2001. A Comparison of Three Riparian Resource Assessments. Society for Range Management, 54th Annual Meeting, Kona, HI.
29. Lewis, D.J., K.W. Tate, J.M. Harper, and G.M. Markegard. 2001. Sediment Delivery Inventory and Monitoring: A Method for Water Quality Management in Rangeland Watersheds. Society for Range Management, 54th Annual Meeting, Kona, HI.
28. Carleton, C.J., R.A. Dahlgren, and K.W. Tate. 2001. Practical Implementation of Watershed Calibration for the Paired Watershed Study Design. Society for Range Management, 54th Annual Meeting, Kona, HI.
27. Tate, K.W., R.A. Dahlgren, M.J. Singer, B. Allen-Diaz, E.R. Atwill. 2000. Temporal Variability on California Rangeland Watersheds: Implications for Monitoring. Society for Range Management, 53rd Annual Meeting, Boise, ID.
26. Vance, L.K., K.W. Tate, and J.M. Harper. 1999. Evaluating Canopy Impacts on Water Temperatures in Coastal Streams: the Importance of the Air-Water Temperature Relationship. 7th National Nonpoint Source Monitoring Workshop. Morro Bay, CA. USEPA, Morro Bay National Estuary Program, Central Coast WQCB, and Cal Poly San Luis Obispo.

25. Tate, K.W., G.A. Nader, D.J. Lewis, J.M. Connor, and E.R. Atwill. 1999. Evaluation of Buffer Zones to Attenuate Suspended Sediment, NO₃-N, and Total P in Runoff from Grazed Hillslope Pastures. 7th National Nonpoint Source Monitoring Workshop. Morro Bay, CA. USEPA, Morro Bay National Estuary Program, Central Coast WQCB, and Cal Poly San Luis Obispo.
24. Tate, K.W., R.A. Dahlgren, M.J. Singer, B. Allen-Diaz, E.R. Atwill. 1999. Temporal Variability on California Rangeland Watersheds: Implications for BMP Effectiveness Monitoring and TMDL Development. 7th National Nonpoint Source Monitoring Workshop. Morro Bay, CA. USEPA, Morro Bay National Estuary Program, Central Coast WQCB, and Cal Poly San Luis Obispo.
23. Lewis, D.J., K.W. Tate, and J.M. Harper. 1999. Sediment Delivery Inventory and Monitoring. 7th National Nonpoint Source Monitoring Workshop. Morro Bay, CA. USEPA, Morro Bay National Estuary Program, Central Coast WQCB, and Cal Poly San Luis Obispo.
22. Larsen, R.E., M.R. George, N.K. McDougald, K.W. Tate, and K.O. Fulgham. 1999. Evaluation After Four Years of Different Seasons and Intensities of Grazing on Erosion Along Intermittent Stream Channels at the San Joaquin Experimental Range. 7th National Nonpoint Source Monitoring Workshop. Morro Bay, CA. USEPA, Morro Bay National Estuary Program, Central Coast WQCB, and Cal Poly San Luis Obispo.
21. Atwill, E.R., K.W. Tate, M. das Gracias, C. Pereira, S.C. Maldonado, and N.K. McDougald. 1999. Statistical Methods for Estimating Loading Rates at the Watershed Scale for Microbial Pathogens (*C. parvum*) from Animal Agricultural Sources. 7th National Nonpoint Source Monitoring Workshop. Morro Bay, CA. USEPA, Morro Bay National Estuary Program, Central Coast WQCB, and Cal Poly San Luis Obispo.
20. Vance, L.K., K.W. Tate, and R.R. Gildersleeve. 1999. Evaluating the Effects of Shade on Stream Temperatures in the Eastern Sierra. Annual Conference of the California-Nevada Section of the American Fisheries Society.
19. Vance, L.K., and K.W. Tate. 1998 Assessment of the Air-Water Temperature Relationship under Differing Conditions in Several Northern California Streams. Specialty Conference on Rangeland Management and Water Resources. American Water Resources Association.
18. Tate, K.W., N.K. McDougald, E.R. Atwill, M.R. George and D. Witt. 1998. A Rapid Method for Estimating Livestock Manure Deposition on Rangeland Watersheds. Specialty Conference on Rangeland Management and Water Resources. American Water Resources Association.
17. Tate, K.W., E.R. Atwill, M.R. George and N.K. McDougald. 1998. *Cryptosporidium parvum* Mobilization From Fecal Pats Under Natural Rainfall on California Annual Rangeland. Specialty Conference on Rangeland Management and Water Resources. American Water Resources Association.
16. Tate, K.W., N.K. McDougald, E.R. Atwill, M.R. George and D. Witt. 1998. A Comparative Yield Methodology for Estimating Livestock Manure Deposition on Rangeland Watersheds. Society for Range Management, 51st Annual Meeting, Guadalajara, MX.
15. Tate, K.W., E.R. Atwill, M.R. George and N.K. McDougald. 1998. *Cryptosporidium parvum* Mobilization From Fecal Pats Under Natural Rainfall on California Annual Rangeland. Society for Range Management, 51st Annual Meeting, Guadalajara, MX.
14. Tate, K.W., M.R. George, E.R. Atwill, and S.J. Barry. 1998. California Rangelands: Balancing Livestock Production and Water Quality. Proceedings California Plant and Soil Conference: Agricultural Challenges in an Urbanizing State.
13. Nader, G.A., K.W. Tate, M.J. Connor, B. Allen-Diaz and E.R. Atwill. 1998. Evaluation of Buffer Zones to Attenuate Nutrient and Sediment Transport from Hillslope Pastures. Specialty Conference on Rangeland Management and Water Resources. American Water Resources Association.
12. Nader, G., K.W. Tate, E.R. Atwill and D.J. Drake. 1998. Water Quality Impacts of Rangeland Beef Cattle Excrement. Specialty Conference on Rangeland Management and Water Resources. American Water Resources Association.
11. Lancaster, D.L., L. Vance, K.W. Tate and D. Lile. 1998. The Cedar Creek Restoration Project and the Limits of Cross-Section Monitoring as an Indication of Change. Specialty Conference on Rangeland Management and Water Resources. American Water Resources Association.
10. Connor, J.M, K.W. Tate, and J. Lee. 1998. Physical Factors Affecting Annual Range Productivity. Society for Range Management, 51st Annual Meeting, Guadalajara, MX.

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