

LIST OF PUBLICATIONS

Category 1: Refereed and non-refereed journal articles; books and monograph chapters; proceedings chapters (only if refereed)

REFEREED JOURNALS & PROCEEDINGS

1. 1992 **Atwill, E.R.**, H.O. Mohammed, E.J. Dubovi, and J.W. Lopez. Retrospective evaluation of factors associated with the risk of seropositivity to *Ehrlichia risticii* in horses in New York state. *American Journal of Veterinary Research* 53(10):1931-1934.
2. 1993 **Atwill, E.R.**, L.L. Rodriguez, D.W. Hird, and O. Rojas. Environmental and host factors associated with seropositivity to New Jersey and Indiana vesicular stomatitis viruses in Costa Rican cattle. *Preventive Veterinary Medicine* 15:303-314.
3. 1994 **Atwill, E.R.**, H.O. Mohammed and R. de la Rua-Domenech. Geographical variation of seropositivity to *Ehrlichia risticii* (equine monocytic ehrlichiosis) of horses in New York state. *Equine Veterinary Journal* 26(2):143-147.
4. 1994 **Atwill, E.R.** and H.O. Mohammed. Epidemiologic studies on equine monocytic ehrlichiosis in New York state. *Proceedings of the 39th Annual Convention of the American Association of Equine Practitioners*. San Antonio, Texas. pp. 269-270 (peer reviewed)
5. 1995 **Atwill, E.R.** and H.O. Mohammed. Estimates of the annual incidence density and financial losses of equine monocytic ehrlichiosis in New York state. *Preventive Veterinary Medicine* 23 (1-2):41-52.
6. 1995 **Atwill, E.R.**, H.O. Mohammed, J. Scarlett, C.E. McCulloch. Extending the interpretation and utility of mixed effects logistic regression models. *Preventive Veterinary Medicine* 24 (3):187-201.
7. 1995 de la Rúa-Domènech, R., H.O. Mohammed, **E.R. Atwill**, J.F. Cummings, T.J. Divers, and A. de Lahunta. Epidemiologic evidence for clustering of equine motor neuron disease in the US. *American Journal of Veterinary Research* 56 (11): 1433-1439.
8. 1995 Crouse, S.J., **E.R. Atwill**, M. Lagana, and K.A. Houpt. Soft surfaces: a factor in feline psychological well-being. *Contemporary Topics in Laboratory Animal Science* 34(6): 94-97.
9. 1996 **Atwill, E.R.** Assessing the link between rangeland cattle and waterborne *Cryptosporidium parvum* infection in humans. *Rangelands* 18(2): 48-51.
10. 1996 **Atwill, E.R.**, H.O. Mohammed, and J.W. Lopez. An evaluation of travel and use as a risk factor for seropositivity to *Ehrlichia risticii* in horses of New York state. *American Journal of Veterinary Research* 57(3): 273-277.
11. 1996 **Atwill, E.R.**, H.O. Mohammed, J.W. Lopez, C.E. McCulloch, and E.J. Dubovi. Cross-sectional evaluation of environmental, host, and management factors associated with risk of seropositivity to *Ehrlichia risticii* in horses of New York state. *American Journal of Veterinary Research* 57(3): 278-285.
12. 1996 **Atwill, E.R.** and H.O. Mohammed. Evaluation of vaccination of horses as a strategy to control equine monocytic ehrlichiosis. *Journal of American Veterinary Medical Association* 208(8): 1290-1294.
13. 1996 **Atwill, E.R.** and H.O. Mohammed. Benefit-cost analysis of vaccination of horses as a strategy to control equine monocytic ehrlichiosis. *Journal of American Veterinary Medical Association* 208(8): 1295-1299.
14. 1996 Harp, J.A., P. Jardon, **E.R. Atwill**, M. Zylstra, S. Checal, J.P. Goff, C.D. Simone. Field testing of prophylactic measures against *Cryptosporidium parvum* infection in calves in a California dairy herd. *American Journal of Veterinary Research* 57(11): 1586-1588.

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15. 1997 Johnson, E., **E.R. Atwill**, M.E. Filkins, and J. Kalush. The prevalence of shedding of *Cryptosporidium* and *Giardia* sp. based on a single fecal sample collection from each of 91 horses used for backcountry recreation. *Journal of Veterinary Diagnostic Investigation* 9: 56-60.
16. 1997 **Atwill, E.R.**, R.A. Sweitzer, M. Das Graças C. Pereira, I.A. Gardner, D. Van Vuren, W.M. Boyce. Prevalence of and associated risk factors for shedding *Cryptosporidium parvum* and *Giardia* within feral pig populations in California. *Applied and Environmental Microbiology* 63(10): 3946-3949.
17. 1997 Cliver, D.O. and **E.R. Atwill**. Research and reason can minimize foodborne and waterborne illness. *California Agriculture* 51(2): 8-14.
18. 1997 **Atwill, E.R.** Pathogens excreted by livestock and transmitted to humans through water. University of California Agricultural Issues Center and Animal Agricultural Research Center, UC Davis. pp 1-18.
19. 1998 Bray, R.E., S.J. Wickler, E.A. Cogger, **E.R. Atwill**, C. London, J.L. Callino, T.P. Anderson. Endoparasite infection and *Cryptosporidium/Giardia* in feral horses on public lands. *Journal of Equine Veterinary Science* 18(1): 41-43.
20. 1998 Jeffrey, J.S., J.H. Kirk, **E.R. Atwill**, J.S. Cullor. Prevalence of selected microbial pathogens in processed poultry waste used as dairy feed. *Poultry Science Journal* 77: 808-811.
21. 1998 Das Graças C. Pereira, M., **E.R. Atwill**, M.R. Crawford, R.B. Lefebvre. DNA sequence similarity between California isolates of *Cryptosporidium parvum*. *Applied and Environmental Microbiology* 64(4): 1584-1586.
22. 1998 Higginbotham, G., J. Robinson, **E.R. Atwill**, M.G.C. Pereira. Effect of direct-fed microbial product on calf performance and health. *Professional Animal Scientist* 14(2):108-113.
23. 1998 **Atwill, E.R.**, J.A. Harp, T. Jones, P.W. Jardon, S. Checal, M. Zylstra. Evaluation of periparturient dairy cows and contact surfaces as a reservoir of *Cryptosporidium parvum* for calfhoo infection. *American Journal of Veterinary Research* 59(9):1116-1121.
24. 1998 Maldonado-Camargo, S., **E.R. Atwill**, J.A. Saltijeral-Oaxaca, L.C. Herrera-Alonso. Prevalence of and risk factors for shedding of *Cryptosporidium parvum* in Holstein Freisian dairy calves in central México. *Preventive Veterinary Medicine* 36(2):95-107.
25. 1998 Kirk, J.H., **E.R. Atwill**, D. Festa, C. Adams. Effect of a commercial non-specific immunomodulating biologic on newborn calf health. *Journal of the American Veterinary Medical Association* 213(9):1308-1311.
26. 1998 Nader, G., K.W. Tate, **E.R. Atwill**, J. Bushnell. Water quality effects of rangeland beef cattle excrement. *Rangelands* 20(5):19-25.
28. 1998 Kirk, J.H., P. Susitaival, D. Wilson, **E.R. Atwill**, S. McCurdy, M. Schenker. Survey of occupational hazards in California veterinarians. *California Veterinarian* 52(6):12-13.
29. 1999 **Atwill, E.R.**, E. Johnson, D.J. Klingborg, G.M. Vesperat, G. Markegard, W.A. Jensen, D.W. Pratt, R.E. Delmas, H.A. George, L.C. Forero, R.L. Phillips, S.J. Barry, N.K. McDougald, R.R. Gildersleeve, W.E. Frost. Age, geographic, and temporal distribution of fecal shedding of *Cryptosporidium parvum* oocysts in cow-calf herds. *American Journal of Veterinary Research* 60(4):420-425.
30. 1999 Pereira, M. das Graças C., **E.R. Atwill**, T. Jones. Comparison of sensitivity of immunofluorescent microscopy to that of a combination of immunomagnetic separation and immunofluorescent microscopy for detection of *Cryptosporidium parvum* oocysts in adult bovine feces. *Applied and Environmental Microbiology* 65(7):3236-3239.
31. 1999 Barwick, R.S., H.O. Mohammed, **E.R. Atwill**, P.L. McDonough, M.E. White. The prevalence of equine leptospirosis in New York State. *Journal of Equine Science* 9(4):119-124.

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32. 1999 Hoar, B.R., **E.R. Atwill**, C. Elmi, W.W. Utterbach, A. Edmondson. Comparison of fecal samples collected per rectum and off the ground for estimation of environmental contamination attributable to beef cattle. *American Journal of Veterinary Research* 60(11): 1352-1356.
33. 1999 Rochelle, P.A., E.M. Jutras, **E.R. Atwill**, R. DeLeon, M.H. Stewart. Polymorphisms in the β -tubulin gene of *Cryptosporidium parvum* differentiate between isolates based on animal host but not geographic origin. *Journal of Parasitology* 85(5):986-989.
34. 1999 **Atwill, E.R.**, E. Johnson, M. Das Graças C. Pereira. Association of herd composition, stocking rate, and calving duration with fecal shedding of *Cryptosporidium parvum* oocysts in beef herds. *Journal of the American Veterinary Medical Association* 215(12): 1833-1838.
35. 1999 Tate, K.W. R.A. Dahlgren, M.J. Singer, B. Allen-Diaz, **E.R. Atwill**. Monitoring water quality on California rangeland watersheds; timing is everything. *California Agriculture* 53(6):44-48.
36. 1999 Singer, R.S., J.S. Jeffrey, T.E. Carpenter, C.L. Cooke, R.P. Chin, **E.R. Atwill**, D.C. Hirsh. Spatial heterogeneity of *Escherichia coli* DNA fingerprints isolated from cellulitis lesions in chickens. *Avian Diseases* 43(4):756-762.
37. 2000 Harter, T., S. Wagner, **E.R. Atwill**. Colloid transport and filtration of *Cryptosporidium parvum* in sandy soils and aquifer sediments. *Environmental Science and Technology* 34(1):62-70.
38. 2000 Tate, K.W. **E.R. Atwill**, M.R. George, N.K. McDougald, and R.E. Larsen. *Cryptosporidium parvum* mobilization and transport from livestock fecal deposits on California rangeland watersheds. *Journal of Range Management* 53:295-299.
39. 2000 **Atwill, E.R.**, N.K. McDougald, and L. Perea. Cross-sectional study of fecal shedding of *Giardia* sp. and *Cryptosporidium parvum* among packstock in the Sierra Nevada Range, California, U.S.A. *Equine Veterinary Journal* 32(3):247-252.
40. 2000 Singer, R.S., W.O. Johnson, J.S. Jeffrey, R.P. Chin, T.E. Carpenter, **E.R. Atwill**, D.C. Hirsh. A statistical model for assessing bacterial colony selection strategies: a case study of *Escherichia coli* and avian cellulitis. *Journal of Veterinary Diagnostic Investigations* 12(2):118-25.
41. 2000 Sischo, W.M. **E.R. Atwill**, J. George, L.E. Lanyon. Cryptosporidia on dairy farms and the role these farms may have in contaminating surface water supplies in the northeastern United States. *Preventive Veterinary Medicine* 43:253-267.
42. 2000 Jeffrey, J.S., A. Hunter, **E.R. Atwill**. A field-suitable, semisolid, aerobic enrichment medium for isolation of *Campylobacter jejuni* in small numbers. *Journal of Clinical Microbiology* 38(4):1668-1669.
43. 2000 Tate, K.W., **E.R. Atwill**, N.K. McDougald, M.R. George, and D. Witt. A method for estimating cattle fecal loading on rangeland watersheds. *Journal of Range Management* 53(5):506-510.
44. 2000 Singer, R.S., J.S. Jeffrey, T.E. Carpenter, C.L. Cooke, **E.R. Atwill**, D.C. Hirsh. Persistence of cellulitis-associated *E. coli* DNA fingerprints in successive broiler chicken flocks. *Veterinary Microbiology* 75(1):59-71.
45. 2000 Tate, K.W., G.A. Nader, D.J. Lewis, **E.R. Atwill**, and J.M. Connor. Evaluation of buffers to improve the quality of runoff from irrigated pastures. *Journal of Soil and Water Conservation* 55(4):473-478.
46. 2000 Kinde, H. and **E.R. Atwill**. Salmonella in sewage effluent raises ecological and food-safety concerns. *California Agriculture* 54(5):62-68.

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47. 2000 Hoar, B., **E.R. Atwill**, T.B. Farver. Estimating maximum possible environmental loading amounts of *Cryptosporidium parvum* attributable to adult beef cattle. *Quantitative Microbiology* 2(1):21-36.
48. 2000 Rochelle, P.A., R. De Leon, **E.R. Atwill**. Intra-isolate heterogeneity and reproducibility of PCR-based genotyping of *Cryptosporidium parvum* using the β -tubulin gene. *Quantitative Microbiology* 2(2):87-101.
49. 2001 Jeffrey, J.S., **E.R. Atwill**, A. Hunter. Farm and management variables linked to fecal shedding of *Campylobacter* and *Salmonella* in commercial squab production. *Poultry Science Journal* 80:66-70.
50. 2001 Jeffrey, J.S., **E.R. Atwill**, A. Hunter. Prevalence of *Campylobacter* and *Salmonella* at a squab (young pigeon) processing plant. *Poultry Science Journal* 80: 151-155.
51. 2001 Drake, D.J., **E.R. Atwill**, R. Phillips, E. Johnson. Prevalence of internal parasites in California's beef cattle. *California Agriculture* 55(2):28-32.
52. 2001 Singer, R.S., **E.R. Atwill**, T.E. Carpenter, J.S. Jeffrey, W.O. Johnson, D.C. Hirsh. Selection bias in epidemiological studies of infectious disease using *Escherichia coli* and avian cellulitis as an example. *Epidemiology and Infection* 126(1):139-45.
53. 2001 Rulofson, F., **E.R. Atwill**, C.A. Holmberg. Cross-sectional study of fecal shedding of *Giardia duodenalis*, *Cryptosporidium parvum*, *Salmonella*, and *Escherichia coli* O157:H7 in California llamas. *American Journal of Veterinary Research* 62(4):637-642.
54. 2001 Hoar, B., **E.R. Atwill**, C. Elmi, T.B. Farver. An examination of risk factors associated with beef cattle shedding pathogens of potential zoonotic concern. *Epidemiology and Infection* 127(1):147-155.
55. 2001 **Atwill, E.R.**, S. Maldonado Camargo, R. Phillips, L. Herrera Alonso, K.W. Tate., W.A. Jensen, J. Bennet, S. Little, T.R. Salmon. Quantitative shedding of two genotypes of *Cryptosporidium parvum* in California ground squirrels (*Spermophilus beecheyi*). *Applied and Environmental Microbiology* 67(6):2840-2843.
56. 2001 Rochelle, P.A., R. DeLeon, **E.R. Atwill**. Evaluation of genotyping techniques for *Cryptosporidium parvum*. American Water Works Association Research Foundation. pp 1-119.
57. 2001 Dahlgren, R.A., K.W. Tate, D.J. Lewis, **E.R. Atwill**, J.M. Harper, B.H. Allen-Diaz. Watershed research examines rangeland management effects on water quality. *California Agriculture* 55(6):64-71.
58. 2002 Moore, D.A., W.M. Sischo, D.M. Festa, J.P. Reynolds, **E.R. Atwill**, C.A. Holmberg. Influences of arrival weight, season and calf supplier on survival in Holstein beef calves on a calf ranch in California, USA. *Preventive Veterinary Medicine* 53:103-115.
59. 2002 Pereira, M. das Graças C., **E.R. Atwill**, A.P. Barbosa, S.A.E. Silva, M.T.A. García-Zapata. Intra- and extra-familial risk factors associated with *Cryptosporidium parvum* infection among children hospitalized for diarrhea in Goiânia, State of Goiás, Brasil. *American Journal of Tropical Medicine and Hygiene* 66(6):787-793.
60. 2002 Kirk, J., **E.R. Atwill**, C. Holmberg, M. Arana, C. Collar, D. Ghirardelli, J. Higginbotham, G. Markagard, D. Mullinax, A. Wubishet. Prevalence of and risk factors for *Salmonella* in water offered to weaned dairy calves in California, USA. *Preventive Veterinary Medicine* 54:169-178.
61. 2002 **Atwill, E.R.** L. Hou, B.M. Karle, T. Harter, K.W. Tate, R.A. Dahlgren. Transport of *Cryptosporidium parvum* through vegetated buffer strips and estimated filtration efficiency. *Applied and Environmental Microbiology* 68(11):5517-5527.
62. 2002 Xiao, L., I.M. Sulaiman, U.M. Morgan, L. Zhou, **E.R. Atwill**, M.L. Tischler, X. Zhang, R. Fayer, and A.A. Lal. Host adaptation and host-parasite co-evolution in *Cryptosporidium*. *International Journal for Parasitology* 32:1773-1785.

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63. 2003 Ward, T.A., K.W. Tate, **E.R. Atwill**, D.F. Lile, D.L. Lancaster, N. McDougald, S. Barry, R.S. Ingram, H.A. George, W.J. Jensen, W.E. Frost, R. Phillips, G.C. Markegard S. Larson. A comparison of three visual assessments for riparian and stream health. *Journal of Soil and Water Conservation* 58(2):83-88.
64. 2003 **Atwill, E.R.**, B. Hoar, M. das Gracas Cabral Pereira, K.W. Tate, F. Rulofson, G. Nader. Improved quantitative estimates of low environmental loading and sporadic periparturient shedding of *Cryptosporidium parvum* in adult beef cattle. *Applied and Environmental Microbiology* 69(8):4604-4610.
65. 2003 Moore, D.A., **E.R. Atwill**, J. Kirk, D. Brahmhatt, L.A. Herrera, L. Hou, E. Ward, T. Miller, M.D. Singer. Clinical signs and oocyst shedding of *Cryptosporidium parvum* in experimentally-challenged neonatal calves fed decoquinate. *Journal of the American Veterinary Medical Association* 223(6):839-845.
66. 2003 Berge, A.C.B., **E.R. Atwill**, W.M. Sischo. Assessing antibiotic resistance in fecal *Escherichia coli* in young calves using cluster analysis techniques. *Preventive Veterinary Medicine* 61:91-102.
67. 2003 Tate, K.W., **E.R. Atwill**, N.K. McDougald, and M.R. George. Spatial and temporal patterns of cattle feces deposition on annual rangeland watersheds. *Journal of Range Management* 56:432-438.
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70. 2003 Ward, T.A., K.W. Tate, **E.R. Atwill**. Visual assessment of riparian health. Rangeland Monitoring Series 8089, Division of Agriculture and Natural Resources, University of California. pp 1-23.
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72. 2004 Hou, L., X. Li, L. Dunbar, R. Moeller, B. Palermo, **E. R. Atwill**. Neonatal mice infectivity of intact *Cryptosporidium parvum* oocysts isolated after optimized in vitro excystation. *Applied and Environmental Microbiology* 70(1):642-646.
73. 2004 Jeffrey, J.S., R.S. Singer, R. O'Connor, **E. R. Atwill**. Prevalence of pathogenic *Escherichia coli* in the broiler house environment. *Avian Diseases* 48:189-195.
74. 2004 Tate, K.W., M. Das Gracas C. Pereira, **E.R. Atwill**. Efficacy of vegetated buffer strips for retaining *Cryptosporidium parvum*. *Journal of Environmental Quality* 33(6):2243-2251.
75. 2004 Vargas, J., J. Reynolds, **E. R. Atwill**. Effect of an injectable trace mineral supplement on conception rate of lactating dairy cows. *Journal of Dairy Science* 87:3665-3671.
76. 2004 Jeffrey, J.J., R.S. Singer, **E. R. Atwill**. A prospective study of management and litter variables associated with cellulitis in California broiler flocks. *Avian Diseases* 48(3):522-530.
77. 2004 **Atwill, E.R.**, R. Phillips, M. Das Graças C. Pereira, X. Li, B. McCowan. Seasonal shedding of multiple *Cryptosporidium* genotypes in California ground squirrels (*Spermophilus beecheyi*). *Applied and Environmental Microbiology* 70(11):6748-6752.
78. 2005 Searcy, KE., A.I. Packman, **E.R. Atwill**, T. Harter. The association of *Cryptosporidium parvum* with suspended sediments and impact on oocyst deposition. *Applied and Environmental Microbiology* 71(2):1072-1078.

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80. 2005 Miller, W.A., **E.R. Atwill**, I.A. Gardner, M.A. Miller, H.M. Fritz, R. Hedrick, A.C. Melli, N.M. Barnes, P.A. Conrad. Clams (*Corbicula fluminea*) as bioindicators of fecal contamination with *Cryptosporidium* and *Giardia* spp. in freshwater ecosystems in California. *International Journal of Parasitology* 35(6):673-684.
81. 2005 Berge, A.C.B., **E.R. Atwill**, W.M. Sischo. Animal and farm influences on the dynamics of antibiotic resistance in faecal *Escherichia coli* in young dairy calves. *Preventive Veterinary Medicine* 69(2):25-38.
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85. 2005 Stoddard, R.A., F. M.D. Gulland, **E.R. Atwill**, J. Lawrence, S. Jang, P.A. Conrad. Isolation of *Salmonella* and *Campylobacter* spp. from feces of northern elephant seals (*Mirounga angustirostris*) in California. *Emerging Infectious Diseases* 11(12):1-7
<http://www.cdc.gov/ncidod/EID/vol11no12/05-0752.htm>
86. 2006 **Atwill, E.R.**, M. Das Gracas C. Pereira, L. Herrera Alonso, C. Elmi, W.B. Epperson, R. Smith, W. Riggs, L.V. Carpenter, D.A. Dargatz, B. Hoar. Environmental load of *Cryptosporidium parvum* oocysts from cattle manure in feedlots from the mid and western United States. *Journal of Environmental Quality* 35(1):200-206.
87. 2006 **Atwill, E.R.**, K.W. Tate, Maria das Gracas Cabral Pereira, J. Bartolome, G. Nader. Efficacy of natural grassland buffers for removal of *Cryptosporidium parvum* in rangeland runoff. *Journal of Food Protection* 69(1):177-184.
88. 2006 Miller, W.A., I.A. Gardner, **E.R. Atwill**, C.M. Leutenegger, M.A. Miller, R. Hedrick, A.C. Melli, N.M. Barnes, and P.A. Conrad. Evaluation of methods for improved detection of *Cryptosporidium* spp. in mussels (*Mytilus californianus*). *Journal of Microbiological Methods* 65(3):367-379.
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90. 2006 McCrea, B., K. Tonooka, C. VanWorth, **E.R. Atwill**, J. Schrader. Colonizing capability of *Campylobacter jejuni* genotypes from low prevalence avian species in broiler chickens. *Journal of Food Protection* 69(2):417-420.
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93. 2006 Miller, W.A., M.A. Miller, I.A. Gardner, **E.R. Atwill**, B.A. Byrne, S. Jang, M. Harris, J. Ames, D. Jessup, D. Paradies, K. Worcester, A. Melli, and P.A. Conrad. *Salmonella* spp., *Vibrio* spp., *Clostridium perfringens*, and *Plesiomonas shigelloides* in freshwater and marine invertebrates from coastal California ecosystems. *Microbial Ecology* 52:198-206.
94. 2006 Dabritz, H., **E.R. Atwill**, I.A. Gardner, M.A. Miller, P.A. Conrad. Outdoor fecal deposition by free-roaming cats and attitudes of cat owners and nonowners towards stray pets, wildlife, and water pollution. *Journal of the American Veterinary Medical Association* 229(1):74-81.
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97. 2007 Phillips, R., N.K. McDougald, **E.R. Atwill**, D. McCreary. Exclosure size affects young blue oak (*Quercus douglasii*) seedling growth. *California Agriculture* 61(1):16-19.
98. 2007 Phillips, R., N.K. McDougald, D. McCreary, **E.R. Atwill**. Blue oak (*Quercus douglasii*) seedling age influences growth and mortality. *California Agriculture* 61(1):11-15.
99. 2007 Lennox, M.S., D. Lewis, J. Gustafson, K.W. Tate, **E.R. Atwill**. Water quality treatment for feeding and exercise areas on California coastal dairy farms and ranches. UC Division of Agriculture and Natural Resources Publication 8210. pp 1-9.
100. 2007 Pereira, M.G.C., **E.R. Atwill**, A.P. Barbosa. Prevalence and associated risk factors for *Giardia lamblia* infection among children hospitalized for diarrhea in Goiânia, Goiás State, Brazil. *Revista do Instituto de Medicina Tropical de São Paulo (Journal of the São Paulo Institute of Tropical Medicine)* 49(3):139-145.
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Category III: Published abstracts; book reviews and editorials.

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2. 1997 **Atwill, E.R.** Medical ecology of *Cryptosporidium parvum* in beef cattle and its ramifications for source water quality. International Symposium on Waterborne *Cryptosporidium*. Newport Beach, California.
3. 1997 **Atwill, E.R.**, J.A. Harp, T. Jones, P.W. Jardon, S. Checal, M. Zylstra. Evaluation of periparturient dairy cows and contact surfaces as a reservoir of *Cryptosporidium parvum* for calfhoo infection. 92nd Annual Meeting of the American Dairy Science Association. University of Guelph, Canada. Journal of Dairy Science 80(Suppl. 1): 469.
4. 1997 Maldonado Camargo, S., F.R. Gay Jiménez, **E.R. Atwill**, J.A. Saltijeral Oaxaca, L.C. Herrera Alonso. Prevalencia de *Cryptosporidium parvum* en becerras lactantes en el altiplano. 28th Congreso Nacional de Microbiología. Culiacán, México. pp. 87.
5. 1997 Saltijeral Oaxaca, J.A. and **E.R. Atwill**. Frequency of *Cryptosporidium parvum* in calves in Mexico. 9th International Congress in Animal Hygiene. Helsinki, Finland.
6. 1997 Rulofson, F.C. and **E.R. Atwill**. Prevalence of shedding of *Cryptosporidium parvum* and *Giardia* sp. in llamas used for backcountry recreation. 82nd Annual Meeting of the National Association of County Agricultural Agents. Burlington, Vermont. pp. 15.
7. 1997 **Atwill, E.R.** Livestock production, waterborne zoonotic disease, and the search for the smoking gun. Riparian and Watershed Management in the Interior Northwest: an Interdisciplinary Perspective. Society for Range Management, the Wildlife Society, American Fisheries Society, Society of American Foresters, and the Blue Mountains Natural Resources Institute. La Grande, Oregon, pp 49.
8. 1997 Drake, D.J., **E.R. Atwill**, J.M. Connor, D. Jones. Prevalence of *Cryptosporidium parvum*, *Giardia duodenalis*, and *Campylobacter jejuni* in beef calves and impacts on pre-weaning gain and weaning weight. Journal of Animal Science 75(Suppl. 1):107.
9. 1997 Harter, T., S. Wagner, **E.R. Atwill**. Transport of *Cryptosporidium parvum* through saturated sand columns. Fall Meeting, American Geophysical Union. San Francisco, California.
10. 1998 Rulofson, R.C. and **E.R. Atwill**. Assessing the risk of surface water contamination of *Giardia* sp. and *Cryptosporidium parvum* from recreational use of llamas. Rangelands of the Americas: sharing resources, sharing responsibility. 51st Annual Meeting of the Society for Range Management. Guadalajara, Mexico, pp. 51-52.
11. 1998 **Atwill, E.R.**, K.W. Tate, M.R. George, and N.K. McDougald. Transport of *Cryptosporidium parvum* oocysts out of fecal patties as a function of slope during simulated rainfall. Rangelands of the Americas: sharing resources, sharing responsibility. 51st Annual Meeting of the Society for Range Management. Guadalajara, Mexico, pp. 51.
12. 1998 Tate, K.W., **E.R. Atwill**, M.R. George, and N.K. McDougald. Pathogen mobilization from fecal pats during natural rainfall on California annual rangeland. Rangelands of the Americas: sharing resources, sharing responsibility. 51st Annual Meeting of the Society for Range Management. Guadalajara, Mexico, pp. 54-55.
13. 1998 Tate, K.W., N.K. McDougald, **E.R. Atwill**, M.R. George, D. Witt. A comparative yield method to estimate livestock manure deposition on California rangeland watersheds. Rangelands of the Americas: sharing resources, sharing responsibility. 51st Annual Meeting of the Society for Range Management. Guadalajara, Mexico, pp 54.

Category III (continued)

14. 1998 Tate, K.W., M.R. George, **E.R. Atwill**, and S. Barry. California rangelands: balancing livestock production and water quality. Proceedings of the California Plant and Soil Conference: Agricultural Challenges in an Urbanizing State. Sacramento, California.
15. 1998 Barry, S., K. Tate, **E.R. Atwill**, J. Cullor, T. Koopman, T. Huff. Development and use of a HACCP (Hazard analysis and critical control points) program to protect water quality in a rangeland watershed. *J. Soil and Water Conservation* 53(2):173.
16. 1998 **Atwill, E.R.**, K.W. Tate, M.R. George, and N.K. McDougald. Transport of *Cryptosporidium parvum* oocysts out of fecal patties during simulated rainfall. Symposium on Rangeland Management and Water Resources, American Water Resources Association. Reno, Nevada, pp. 446.
17. 1998 Tate, K.W., **E.R. Atwill**, M.R. George, and N.K. McDougald. *Cryptosporidium parvum* mobilization from fecal pats during natural rainfall on California annual rangeland. Symposium on Rangeland Management and Water Resources, American Water Resources Association. Reno, Nevada, pp. 445.
18. 1998 Witt, D., K.W. Tate, **E.R. Atwill**, N.K. McDougald, M.R. George. A rapid method for estimating livestock manure deposition on rangeland watersheds. Symposium on Rangeland Management and Water Resources, American Water Resources Association. Reno, Nevada, pp. 135.
19. 1998 Nader, G.A., K.W. Tate, M.J. Connor, B. Allen-Diaz, **E.R. Atwill**. Evaluation of buffer zones to attenuate nutrient and sediment transport from hill-slope pastures. Symposium on Rangeland Management and Water Resources, American Water Resources Association. Reno, Nevada, pp. 133.
20. 1998 Barry, S., K. Tate, **E.R. Atwill**, J. Cullor, T. Koopman, T. Huff. Development and use of a HACCP (Hazard analysis and critical control points) program to protect water quality in a rangeland watershed. Symposium on Rangeland Management and Water Resources, American Water Resources Association. Reno, Nevada, pp. 443.
21. 1998 Nader, G.A., K.W. Tate, **E.R. Atwill**, D. J. Drake. Water quality impacts of rangeland beef cattle excrement. Symposium on Rangeland Management and Water Resources, American Water Resources Association. Reno, Nevada, pp. 444.
22. 1998 Rulofson, F.C. and **E.R. Atwill**. Assessing the risk of using treated wastewater for irrigation as a source of *Cryptosporidium parvum* and *Giardia* sp. for beef calves. 83rd Annual Meeting of the National Association of County Agricultural Agents. San Antonio, Texas, pp 13.
23. 1998 Kirk, J., J. Jeffrey, C. Holmberg, **E.R. Atwill**. Prevalence of *Salmonella* isolated from wild birds on two California dairies. *Salmonella* Committee, United States Animal Health Association. Minneapolis, Minnesota.
24. 1998 George, J., W.M. Sischo, **E.R. Atwill**, L. Lanyon The epidemiology of Cryptosporidia on dairy farms and in streams. Conference of Research Workers in Animal Diseases. Chicago, Illinois.
25. 1999 Singer, R.S., J.S. Jeffrey, **E. R. Atwill**, C.L. Cooke, T.E. Carpenter, D.C. Hirsh. Assessing sampling bias in molecular epidemiological studies using isolates of *Escherichia coli* from avian cellulitis lesions as an example. Western Poultry Disease Conference. Vancouver, British Columbia, Canada.
26. 1999 Phillips, R.L. and **E. R. Atwill**. *Cryptosporidium* and *Giardia* in livestock and some species of wildlife. San Joaquin Valley Natural Communities Conference. Bakersfield, California.
27. 1999 Jeffrey, J.S., **E.R. Atwill**, A. Hunter. Cross-sectional study of food safety pathogens in commercial squab production. 136th American Veterinary Medical Association Annual Convention. New Orleans, Louisiana. *Journal of the American Veterinary Medical Association* 215(11): 1680.

Category III (continued)

28. 1999 **Atwill, E.R.**, K.W. Tate, M. Das Graças C. Pereira, S. Camargo Maldonado, N. McDougald Statistical methods for estimating loading rates at the watershed scale for microbial pathogens (*Cryptosporidium parvum*) from animal agricultural sources. 7th Annual Non-point Source Monitoring Workshop, Non-Point Source Pollution Control Program, U.S. Environmental Protection Agency, Morro Bay, California.
29. 1999 Tate, K.W., R. Dahlgren, M.J. Singer, B. Allen-Diaz, **E.R. Atwill**. Temporal variability in water quality on California rangeland watersheds: implications for BMP effectiveness monitoring and TMDL development. 7th Annual Non-Point Source Monitoring Workshop, Nonpoint Source Pollution Control Program, U.S. Environmental Protection Agency, Morro Bay, California.
30. 1999 Tate, K.W. G. Nader, D.J. Lewis, M. Connor, **E.R. Atwill**. Evaluation of buffer zones to attenuate suspended sediment, NO₃-N, and total phosphorus in runoff from grazed hillslope pastures. 7th Annual Non-point Source Monitoring Workshop, Non-Point Source Pollution Control Program, U.S. Environmental Protection Agency, Morro Bay, California.
31. 1999 Harter, T., S. Wagner, **E.R. Atwill**. Colloid transport properties of *Cryptosporidium parvum* in sandy porous media. International Symposium on Subsurface Microbiology. Vail, Colorado.
32. 1999 **E.R. Atwill**. Understanding the context of waterborne microbial risks attributable to livestock waste. National Land Grant Initiative on Animal Waste Initiative: Promoting Environmental Stewardship. Kansas City, Missouri.
33. 1999 Pereira, M. Das Graças C. and **E.R. Atwill**. Evaluation of periparturient cows as a reservoir of *Cryptosporidium parvum* for calfhoo infection. 80th Annual Meeting of the Conference of Research Workers in Animal Diseases. Chicago, Illinois.
34. 1999 Hoar, B. and **E.R. Atwill**. Environmental loading of *Cryptosporidium parvum* by adult beef cattle. 80th Annual Meeting of the Conference of Research Workers in Animal Diseases. Chicago, Illinois.
35. 1999 Singer, R., **E.R. Atwill**, T.E. Carpenter, C.L. Cooke, L.M. Hansen, W.O. Johnson, J.S. Jeffrey, D.W. Hirsh. Extending the interpretation of pulsed-field electrophoresis through a simulation model. Conference of Research Workers in Animal Diseases. 80th Annual Meeting of the Chicago, Illinois.
36. 2000 Tate K.W., R. Dahlgren, M.J. Singer, B. Allen-Diaz, **E.R. Atwill**. Temporal water quality variability on California rangeland watersheds: implications for monitoring. 53rd Annual Meeting of the Society for Range Management. Boise, Idaho.
37. 2000 Ward, T.A., K.W. Tate, **E.R. Atwill**. Riparian Grazing Project. 53rd Annual Meeting of the Society for Range Management. Boise, Idaho.
38. 2000 Jeffrey, J.S., K.H. Tonooka, A. Hunter, **E.R. Atwill**, and M.G. Pereira. Antibiotic sensitivity of Campylobacter isolates from the central valley of California. 49th Western Poultry Disease Conference. Sacramento, California. March 5-7.
39. 2000 Berge, A.C.B., **E.R. Atwill**, W.M. Sisco. Assessing dynamics of antibiotic resistance in fecal *Escherichia coli* and *Salmonella* in young calves using cluster analysis techniques. 81st Conference of Research Workers in Animal Diseases. Chicago, Illinois. November 12-14.
40. 2000 Moore, D.A., W.M. Sisco, J. Reynolds, C. Holmberg, **E.R. Atwill**, D. Festa. Risk factors for survival at a large dairy beef ranch in California. 81st Conference of Research Workers in Animal Diseases. Chicago, Illinois. November 12-14.
41. 2001 Ward, T.A., K.W. Tate, **E.R. Atwill**. A cross-sectional survey of California's grazed rangeland riparian areas. 54th Annual Meeting of the Society for Range Management. Kona, Hawaii. February 17-23.

Category III (continued)

42. 2001 **Atwill, E.R.**, M. Das Graças Cabral Pereira, L. Herra-Alonso, C. Elmi, W.P. Epperson, D.M. Grotelueschen, B. Smith, B. Hoar, W.M. Sischo. Prevalence and distribution of genotypes of *Cryptosporidium parvum* in feedlot cattle in the Western and Central United States. U.S. Environmental Protection Agency STAR Grants Water Progress Review Meeting, Silver Spring, Maryland. February 22-23.
43. 2001 Jeffrey, J.S., J.C. Lazano, **E.R. Atwill**, and E.H. Walton. Thermal events and physical characteristics of simply stacked poultry: Implications for microbial safety. 50th Western Poultry Disease Conference. Sacramento, California. March 24-26.
44. 2001 Barnett, S.C., W.M. Sischo, A.C.B. Berge, D.A. Moore, **E.R. Atwill**. *Salmonella* and *E. coli* isolated from waterways in a dairy-intense region. 82nd Conference of Research Workers in Animal Diseases. St. Louis, Missouri. November 10-13.
45. 2001 Lewis, D.J., M. Lennox, K.W. Tate, **E. R. Atwill**, E. Rilla, S. Larson. Systems approach for management of fecal coliform loading in a coastal watershed. Proceedings for American Water Resources Association Annual Water Resources Conference. Albuquerque, New Mexico.
46. 2001 Truscott, M.L., D.A. Moore, W.M. Sischo, S.C. Barnett, **E.R. Atwill**, J. Adaska. Dairy density as a risk factor for Salmonella shedding in dairy herds evaluated using a geographic information systems (GIS). 82nd Conference of Research Workers in Animal Diseases. St. Louis, Missouri. November 10-13.
47. 2002 Smith, W.A., M.A. Miller, I.A. Gardner, C.M. Leutenegger, S. Jang, **E.R. Atwill**, P.A. Conrad. Evidence of pathogen pollution: shellfish as bioindicators of fecalborne pathogenic protozoa and bacteria in the California nearshore marine ecosystem. 51st Annual Meeting of the Wildlife Disease Association. Humboldt State University, Humboldt, California. July 28-August 1.
48. 2002 Conrad, P.A., M.A. Miller, A. Kjemtrup, I.A. Gardner, C. Krueder, W.A. Smith, **E.R. Atwill**. Protozoal problems emerging at the human-wildlife-domestic animal interface. 51st Annual Meeting of the Wildlife Disease Association. Humboldt State University, Humboldt, California. July 28-August 1.
49. 2002 McCrea, B.A., **E.R. Atwill**, J.S. Jeffrey. Prevalence of Campylobacter and Salmonella spp. in California asian live fowl and free-range flocks. 91st Annual Meeting of the Poultry Science Association, Newark, Delaware. August 8-11.
50. 2002 Harter, T., **E.R. Atwill**, L. Hou, B.M. Palermo. Remobilization of *Cryptosporidium parvum* in porous media. 5th International Symposium on Subsurface Microbiology. Copenhagen, Denmark. September 8-13.
51. 2002 Conrad, P.A., I.A. Gardner, W.A. Smith, A. Melli, C.M. Leutenegger, S. Jang, **E.R. Atwill**, M.A. Miller, D.A. Jessup, K. Arkush. Evaluation of benthic bivalves and bioindicators of pathogen pollution in the marine ecosystem. California and the World Ocean Conference 2002. Santa Barbara, California. October 27-30.
52. 2002 Moore, D.A., **E.R. Atwill**, J. Kirk, D. Brahmabatt, L.A. Herrera, L. Hou, E. Ward, T. Miller, M.D. Singer. Efficacy of decoquinate fed in milk replacer to experimentally-challenged calves 2 to 28 days of age on clinical symptoms and oocyst shedding of *Cryptosporidium parvum*. 83rd Conference of Research Workers in Animal Diseases. St. Louis, Missouri. November 10-12.
53. 2002 Barnett, S.B., W.M. Sischo, D.A. Moore, M. Truscott, J. Kirk, J. Adaska, **E.R. Atwill**. Temporal pattern of Salmonella incidence on dairy farms. 83rd Conference of Research Workers in Animal Diseases. St. Louis, Missouri. November 10-12.

Category III (continued)

54. 2002 Kirk, J., J.S. Cullor, **E.R. Atwill**, L. Ruiz, K. Glenn. Bacterial isolates within the environmental Strep group repeatedly isolated from California dairy bulk tank milk. Conference of Research Workers in Animal Diseases. St. Louis, Missouri. November 10-12.
55. 2003 Ward, T.A., K.W. Tate, **E.R. Atwill**, D.F. Lile, D.L. Lancaster, N. McDougald, S. Barry, R. S. Ingram, H.A. George, W. Jensen, W.E. Frost, R. Larsen, J.M. Harper, M.R. Horney, G.G. Markegard, S. Larson, R. Phillips, R. Delmas, J. Farley , L.C. Forero. Results of a cross-sectional survey: grazing management effects on riparian habitat. 56th Annual Meeting of the Society for Range Management. Casper, Wyoming. February 1-7.
56. 2003 Harter, T., **E.R. Atwill**, L. Hou. Removal of *Cryptosporidium parvum* in bank filtration systems. European Geophysical Society-American Geophysical Union-European Union of Geosciences Joint Assembly. Nice, France. April 6-11.
57. 2003 Smith, W.A., H.M. Fritz, **E.R. Atwill**, I.A. Gardner, R.P. Hedrick, K.D. Arkush, A.C. Melli, P.A. Conrad. Detecting environmental levels of *Cryptosporidium* parasites in clams (*Corbicula fluminea*). International Association for Aquatic Animal Medicine. Hawaii. May 10-14.
58. 2003 Vanegas, J.A. J. Reynolds, and **E.R. Atwill**. Effects of an injectable trace mineral supplement on conception rate of lactating dairy cows. Annual meeting of the American Dairy Science Association & American Animal Science Association. Phoenix, Arizona. June 22-26.
59. 2003 Li, X., **E.R. Atwill**, L. Dunbar, K.W. Tate, B. Huang. Efficiency for recovering *Encephalitozoon intestinalis* spores from waters by concentration microscopy. Proceedings of the VIII International Workshop on Opportunistic Protists & International Conference on Anaerobic Protists. Hilo, Hawaii. July 25-29.
60. 2003 Li, X., **E.R. Atwill**, L. Dunbar, J. Hook. Comparison of nucleic acid stain (SYTO-59) to neonatal mouse model for evaluation of *Cryptosporidium parvum* oocyst viability. Proceedings of the 78th Annual Meeting of the American Society of Parasitologists. Halifax, Nova Scotia, Canada. August 1-5.
61. 2003 **Atwill, E.R.**, M. Das Graças Cabral Pereira, L. Herra-Alonso, C. Elmi, W.P. Epperson, D.M. Grotelueschen, B. Smith, B. Hoar. Prevalence and distribution of genotypes of *Cryptosporidium parvum* in United States feedlot cattle. Microorganisms in Drinking Water Workshop, National Center for Environmental Research, United States Environmental Protection Agency. Cincinnati, Ohio. August 5-7
62. 2003 Smith, W.A., **E.R. Atwill**, K. Tate, D.J. Lewis, M. Lennox, M. Pereira and P.A. Conrad. *Cryptosporidium* and *Giardia*: Epidemiology and control on California farms. 19th International Conference, World Association for the Advancement of Veterinary Parasitology. New Orleans, Louisiana. August 10-14.
63. 2003 Summers, J.A., **E.R. Atwill**, J.H. Kirk, W.M. Sischo. Salmonella serotypes observed in central California dairy cattle production systems. The Conference of Research Workers in Animal Diseases. Chicago, Illinois. November 9-11.
64. 2003 Kirk, J.H., **E.R. Atwill**, J.S. Cullor, K. Glenn. Antibiotic resistance and factors associated with isolation of bacteria in the environmental Streptococci group from California bulk tank milk. The Conference of Research Workers in Animal Diseases. Chicago, Illinois. November 9-11.
65. 2003 Searcy, K.E., A.I. Packman, **E.R. Atwill**. The association *Cryptosporidium parvum* with suspended sediments: implications for transport in surface waters. Annual Fall Meeting of the American Geophysical Union. 84(46), Abstract H51C. San Francisco, California. December 8-12.

Category III (continued)

66. 2003 Stoddard, R.A., F.M.D. Gulland, S.S. Jang, J. Lawrence, **E.R. Atwill**, and P.A. Conrad. Prevalence and antibiotic sensitivity of *Campylobacter* and *Salmonella* spp. from the gastrointestinal tract of northern elephant seals (*Mirounga angustirostris*). 15th Biennial Conference on the Biology of Marine Mammals. Society of Marine Mammology. Greensboro, North Carolina. December 14-19.
67. 2004 Tate, K.W. R.A. Dahlgren, D.J. Lewis, D. Ahern, M.J. Singer, **E.R. Atwill**. Water Quality Dynamics in Coastal and West-Slope Sierra Nevada Streams. Salmon Restoration Federation Conference. Davis, California. March 19.
68. 2004 Searcy, K.E., A.I. Packman, **E.R. Atwill**, T. Harter. Impact of oocysts-sediment associations on the transport of *Cryptosporidium parvum* in surface waters. 1st General Assembly of the European Geosciences Union. Nice, France. April 25-30.
69. 2004 Moore, D., **E.R. Atwill**, J Kirk, D. Brahmhatt, L. Hou, M. Singer. Clinical signs and oocyst shedding patterns of *Cryptosporidium parvum* in experimentally-challenged neonatal calves fed decoquinate. 23rd World Buiatric Congress, Quebec City, Canada. July 11-16.
70. 2004 Stoddard, R.A., F.M.D. Gulland, **E.R. Atwill**, S.S. Jang, J. Lawrence, and P.A. Conrad. Prevalence and antibiotic sensitivity of *Campylobacter* and *Salmonella* spp. from the gastrointestinal tract of northern elephant seals (*Mirounga angustirostris*). 53rd Annual Meeting of the Wildlife Disease Association. San Diego, California. August 28-September 3.
71. 2004 Smith, W.A., M.A. Miller, I.A. Gardner, **E.R. Atwill**, M. Harris, J. Ames, K. Worcester, D. Paradies, D.A. Jessup, A.C. Melli, N.M. Barnes, and P.A. Conrad. *Cryptosporidium* epidemiology in fecal impacted coastal California ecosystems, using mussels (*Mytilus* spp.) as bioindicators. International *Giardia* and *Cryptosporidium* Congress. Amsterdam, Holland. September 20-24.
72. 2004 **Atwill, E.R.** Livestock production and the risk of waterborne zoonoses. Living with Livestock: Environment and Change. Winnipeg, Manitoba, Canada. October 5-7.
73. 2004 Smith, W.A., M.A. Miller, I.A. Gardner, **E.R. Atwill**, M. Harris, J. Ames, D.A. Jessup, K. Worcester, D. Paradies, P. Olin, A.C. Melli, N.M. Barnes, and P.A. Conrad. Mussels (*Mytilus* spp.) as bioindicators of fecal pollution with *Cryptosporidium* spp. in coastal California ecosystems. Western Naturalists Society. Rohernt Park, California. November 12.
74. 2005 **Atwill, E.R.** Introduction to waterborne pathogens from livestock and wildlife on California rangeland. 58th Annual Meeting for the Society for Range Management. Fort Worth, Texas. February 5-11.
75. 2005 **Atwill, E.R.**, K.W. Tate, T. Harter. Matching vegetated buffer widths to environmental loading rates of *Cryptosporidium parvum* from livestock. 58th Annual Meeting for the Society for Range Management. Fort Worth, Texas. February 5-11.
76. 2005 Tate, K.W. and **E.R. Atwill**. Integrating water quality protection from *Cryptosporidium parvum* into grazing management plans. 58th Annual Meeting for the Society for Range Management. Fort Worth, Texas. February 5-11.
77. 2005 Phillips, R.E., **E.R. Atwill**, L. Dunbar, D.T. Drake, W.A. Jensen, D.L. Lancaster, R.E. Larson, D. Lile, G. Markegard, X. Li, B. McCowan, T. Ward. Environmental loading rates of waterborne pathogenic protozoa *Cryptosporidium parvum* in certain domestic and wildlife species in California. 58th Annual Meeting for the Society for Range Management. Fort Worth, Texas. February 5-11.

Category III (continued)

78. 2005 Johnson, A., **E.R. Atwill**, M. Louchaichi, K. Tonooka, M. Borman. Preliminary investigation of the prevalence of three pathogens in feces of Canada geese (*Branta canadensis*). 58th Annual Meeting for the Society for Range Management. Fort Worth, Texas. February 5-11.
79. 2005 Searcy, K.E., A.I. Packman, **E.R. Atwill**, T. Harter. Transport of *Cryptosporidium parvum* in surface water: interplay of hydrodynamic processes, sediments, and biofilms. American Geophysical Union and North American Benthological Society. *Eos Trans. AGU*, 86(18), Jt. Assem. Suppl., Abstract B23A-02. May 22-27.
80. 2005 Miller, W., **E.R. Atwill**, I. Gardner, M. Miller, M. Harris, J. Ames, D. Jessup, S. Jang, B. Byrne, A. Melli, D. Paradies, K. Worcester, P. Olin, P. Conrad. Habitat quality in California: detecting fecal pathogens in coastal ecosystems. 36th Annual Conference and Workshop of the International Association of Aquatic Animal Medicine. Seward, Alaska. May 14-19.
81. 2005 Stoddard, R.A., **E.R. Atwill**, S.S. Jang, P.A. Conrad, F.M.D. Gulland, and J. Lawrence. The effect of rehabilitation of northern elephant seals (*Mirounga angustirostris*) on antimicrobial resistance of fecal bacteria. 36th Annual Conference and Workshop of the International Association of Aquatic Animal Medicine. Seward, Alaska. May 14-19.
82. 2005 Stoddard, R.A., F.M.D. Gulland, **E.R. Atwill**, S.S. Jang, J. Lawrence, and P.A. Conrad. Risk factors associated with infection with pathogenic and antimicrobial resistant gastrointestinal bacteria in northern elephant seals (*Mirounga angustirostris*). Wildlife Disease Association. Cairns, Queensland, Australia. June 26 - July 1.
83. 2005 Miller, W., P. Conrad, I. Gardner, **E.R. Atwill**, A. Melli, N. Barnes, P. Olin, K. Worcester, D. Paradies, D. Jessup, M. Harris, J. Ames, M. Miller. Detection of pathogenic protozoa in marine ecosystems using mussels (*Mytilus* spp.) as bioindicators. International Wildlife Disease Association. Cairns, Queensland, Australia. June 26 - July 1.
84. 2005 Bollinger, L.M., H.S. Hussein, T. Sakuma, M.R. Hall, **E.R. Atwill**. Isolation and characterization of Shiga toxin-producing *Escherichia coli* from beef cattle. 105th General Meeting of the American Society for Microbiology. Atlanta, GA. June 6-8.
85. 2005 Hussein, H.S., T. Sakuma, L.M. Bollinger, M.R. Hall, **E.R. Atwill**. Isolation and characterization of Shiga toxin-producing *Escherichia coli* from dairy cattle. 105th General Meeting of the American Society for Microbiology. Atlanta, GA. June 6-8.
86. 2005 Hussein, H.S., T. Sakuma, L.M. Bollinger, M.R. Hall, **E.R. Atwill**. Prevalence of Shiga toxin-producing *Escherichia coli* in dairy cattle. 92nd Annual Meeting of the International Association for Food Protection. Baltimore, MD. August 14-17.
87. 2005 Cortis, A., T. Harter, L. Hou, A. Packman, **E.R. Atwill**. Long-term transport of *Cryptosporidium parvum*. Annual Fall Meeting of the American Geophysical Union. *Eos Trans. AGU*, 86(52) Abstract H41H-02. San Francisco, California. December 13-17.
88. 2005 Harter T., **E.R. Atwill**, L. Hou, B.M. Carle. Infiltration and transport of bromide and *Cryptosporidium parvum* in vegetated, tilted soil box experiments. Annual Fall Meeting of the American Geophysical Union. *Eos Trans. AGU*, 86(52) Abstract H13I-1421. San Francisco, California. December 13-17.
89. 2006 **Atwill, E.R.**, K.W. Tate, T. Harter, M.C.G. Pereira, L. Hou, N.K. McDougald. Efficacy of vegetated buffers for reducing waterborne pathogens. National Water Conference, CSREES-USDA. San Antonio, Texas. February 5-9.
90. 2006 Harter, T., K.E. Searcy, A. Cortis, L. Hou, A.I. Packman, and **E.R. Atwill**. *Cryptosporidium parvum* in small watersheds: transport in streams and streambed sediments. National Water Conference, CSREES-USDA. San Antonio, Texas. February 5-9.

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91. 2006 Lewis, D., **E.R. Atwill**, M. Lennox, M.C.G. Pereira, W.A. Miller, P.A. Conrad, K.W. Tate. Reducing microbial contamination in runoff from concentration areas on California coastal dairies. National Water Conference, CSREES-USDA. San Antonio, Texas. February 5-9.
92. 2006 Tate, K.W., **E.R. Atwill**, J. Bartolome, G. Nader. Grasslands filter a significant amount of *E. coli* transported from cattle fecal deposits during natural rainfall-runoff events. Society for Range Management. British Columbia, Canada. February 12-17.
93. 2006 Dabritz, H., **E.R. Atwill**, I.A. Gardner, M.A. Miller, P.A. Conrad. Outdoor faecal deposition by cats and *Toxoplasma gondii* serologica and faecal prevalence in owned and feral cats from Morro Bay, California. International Congress of Parasitology. Glasgow, Scotland. August 6-11.
94. 2006 Bollinger, L.M., H.S. Hussein, M.R. Hall, **E.R. Atwill**. Isolation, characterization, and potential pathogenicity of Shiga toxin-producing *Escherichia coli* from beef cattle in California during winter and spring. 106th General Meeting of the American Society for Microbiology. Orlando, Florida. May 21-25.
95. 2006 Bollinger, L.M., H.S. Hussein, M.R. Hall, **E.R. Atwill**. Isolation, characterization, and potential pathogenicity of Shiga toxin-producing *Escherichia coli* from dairy cattle in California during winter and spring. 106th General Meeting of the American Society for Microbiology. Orlando, Florida. May 21-25.
96. 2006 Stoddard, R.A., **E.R. Atwill**, F.M.D. Gulland, M.A. Miller, D.M. Paradies, K.R. Worcester, S. Jang, J. Lawrence, P.A. Conrad. Antimicrobial resistant *Escherichia coli* in northern elephant seals (*Mirounga angustirostris*) in California. 46th Interscience Conference on Antimicrobial Agents and Chemotherapy, American Society for Microbiology. San Francisco, CA. September 27-30.
97. 2006 Bollinger, L.M., H.S. Hussein, M.R. Hall, **E.R. Atwill**. Prevalence of shiga toxin-producing *Escherichia coli* in beef cattle grazing irrigated pastures or rangeland forages during winter and spring. J. Anim. Sci. 84 (Suppl. 1):189.
98. 2006 Bollinger, L.M., H.S. Hussein, M.R. Hall, **E.R. Atwill**. Prevalence of shiga toxin-producing *Escherichia coli* in dairy cattle during winter and spring. J. Anim. Sci. 84 (Suppl. 1):189-190.
99. 2006 Bollinger, L.M., H.S. Hussein, M.R. Hall, **E.R. Atwill**. Prevalence of shiga toxin-producing *Escherichia coli* in feedlot steers during winter and spring. Proceedings, Western Section, American Society of Animal Science. Logan, UT. June 21-23.
100. 2006 Dabritz, H.A., M.A. Miller, **E.R. Atwill**, I.A. Gardner, and P.A. Conrad. *Toxoplasma gondii* seroprevalence in rodents and cats from central California, and sensitivity of oocyst detection in cat feces. Ecosystem Health Conference. October 2006.
101. 2006 Harter, T., K.E. Searcy, A. Cortis, A.I. Packman, **E.R. Atwill**, L. Hou. *Cryptosporidium parvum* in small watersheds: transport in streams and streambed sediments. CALFED Science Conference. Sacramento, CA. October 23-25.
102. 2006 Dabritz, H.A., **E.R. Atwill**, I.A. Gardner, M.A. Miller, M.R. Lappin, A.E. Packman, A.C. Melli, P.A. Conrad. Cats and their feces: a problem for public health and wildlife. American Society for Tropical Medicine and Hygiene. Atlanta, GA. November 12-16.
103. 2006 Siembieda, J.L., B.R. Hoar, **E.R. Atwill**. Analysis of risk factors for *Giardia* sp. in feedlot cattle in the central and western United States. Conference of Research Workers in Animal Diseases. Chicago, IL. December 3-5.
104. 2007 Harter, T., A. Cortis, L. Hou, **E.R. Atwill**, K.E. Searcy, A.I. Packman. Fate and transport of *Cryptosporidium parvum* in soils, streambeds, and aquifer sediments. USDA-CSREES National Water Conference: Research, Extension and Education for Water Quality and Quantity. Savannah, GA. January 28-February 1.

Category III (continued)

105. 2007 Packman, A.I., B. Lau, T. Harter, **E.R. Atwill**. Processes influencing pathogen transmission in groundwaters and surface waters. Coordinated Management of Water Quality Protection and Food Safety Initiatives in California Vegetable Production Conference. San Luis Obispo, California. April 23-25.
106. 2007 Hussein, H.S., L.M. Bollinger, M.R. Hall, S.F. Khaiboullina, **E.R. Atwill**. Characterization and potential human health risks of Shiga toxin-producing *Escherichia coli* isolated from feedlot cattle. Joint Annual Meeting, American Dairy Science Association and American Society of Animal Science. San Antonio, TX. July 8-12. *J. Anim. Sci.* 85 (Suppl. 1):34.
107. 2007 Bollinger, L.M., H.S. Hussein, M.R. Hall, **E.R. Atwill**. Characterization and potential human health risks of Shiga toxin-producing *Escherichia coli* isolated from California dairy cattle over one year. Joint Annual Meeting, American Dairy Science Association and American Society of Animal Science. San Antonio, TX. July 8-12. *J. Anim. Sci.* 85 (Suppl. 1):34.
108. 2007 Bollinger, L.M., H.S. Hussein, **E.R. Atwill**. Prevalence and pre-harvest control factors affecting Shiga toxin-producing *Escherichia coli* in cattle grazing rangeland forages. Joint Annual Meeting, American Dairy Science Association and American Society of Animal Science. San Antonio, TX. July 8-12. *J. Anim. Sci.* 85 (Suppl. 1):34-35.
109. 2007 **Atwill, E.R.**, N. Watanabe, X. Li, T. Harter, B. Bergamaschi. Pathogens in dairy farming: source characterization and groundwater impacts. Annual Fall Meeting of the American Geophysical Union. Abstract H33F-1702. San Francisco, CA. December 10-14.
110. 2008 Lewis, D.J., **E.R. Atwill**, M.D.G. Pereira, R.F. Bond, M. Huerta. Estuary sediment and suspended solids bacteria: implications for microbial pollution sources and monitoring. USDA-CSREES National Water Conference. Sparks, NV. February 3-7.
111. 2008 **Atwill, E.R.**, K.W. Tate, M.V. Yates. Efficacy of grassland buffers for reducing *Salmonella*, *Cryptosporidium parvum*, and rotavirus in rangeland runoff. USDA-CSREES National Water Conference. Sparks, NV. February 3-7.
112. 2008 Li, X., N. Watanabe, **E.R. Atwill**, B. Bergamaschi, T. Harter. Pathogen source characterization and groundwater occurrence in CAFOs. Joint Meeting of The Geological Society of America, Soil Science Society of America, American Society of Agronomy, Crop Science Society of America, Gulf Coast Association of Geological Societies. Houston, TX. October 5-9.
113. 2008 Harter, T., C. Lawrence, **E.R. Atwill**, C. Kendall. Groundwater monitoring of agricultural contaminants for regulatory compliance. Joint Meeting of The Geological Society of America, Soil Science Society of America, American Society of Agronomy, Crop Science Society of America, Gulf Coast Association of Geological Societies. Houston, TX. October 5-9.
114. 2009 Packman, A.I., T. Harter, **E.R. Atwill**, X. Li, B.L.T. Lau. Interactions of *Cryptosporidium parvum* oocysts with sediments and biofilms: implications for waterborne disease transmission in agricultural watersheds. 2009 USDA-CSREES National Water Conference. St. Louis, Missouri. February 8-12.
115. 2009 Li, X., N. Watanabe, **E.R. Atwill**, T. Harter. Detection and occurrence of *Enterococcus* in dairy ground water. 7th American Society for Microbiology Biodefense and Emerging Disease Research Meeting. Baltimore, Maryland. February 22-25.
116. 2009 Xunde L., N. Watanabe, **E.R. Atwill**, C. Xiao, T. Harter. Detection and occurrence of *Salmonella* in dairy ground waters. "Hands On" Workshop on Theory and Practice of Point of Care Tests from Development through Manufacturing. San Francisco, California. November 9-11.

Category III (continued)

117. 2010 Harter, T., Y. Park, **E.R. Atwill**, L. Hou, A.I. Packman. Subsurface fate and transport modeling of *Cryptosporidium parvum*. Symposium on Ground Water-borne Infectious Disease Epidemiology, Etiologic Agents and Indicators, United States EPA. Washington, DC. January 26-27.
118. 2010 Harter, T., N. Watanabe, **E.R. Atwill**, X. Li, B. Bergamaschi. Confined animal feeding operations (CAFOs) as a source of ground water pathogens and indicator organisms. Symposium on Ground Water-borne Infectious Disease Epidemiology, Etiologic Agents and Indicators, United States EPA. Washington, DC. January 26-27.
119. 2010 Jay, M. T., **E.R. Atwill**, M. Cooley, D. Carychao, E. Vivas, S. Chandler, D. Orthmeyer, X. Li, R.E. Mandrell. Occurrence of *Escherichia coli* O157:H7 in wildlife populations in a major produce production region in California. 110th General Meeting of the American Society for Microbiology. San Diego, California. May 23-27.
120. 2010 Gorski, L., A.S. Liang, M. Jay-Russell, **E.R. Atwill**, S. Chandler, D. Orthmeyer, R.E. Mandrell. A survey for the prevalence of *Salmonella* in the California agricultural and wildlife environments. 110th General Meeting of the American Society for Microbiology. San Diego, California. May 23-27.
121. 2010 Mandrell, R.E., M.H. Chapman, M. Jay-Russell, **E.R. Atwill**, E. Yee, A.H. Bates, S.C. Chandler, D.L. Orthmeyer, A. Gordus, W.G. Miller. Incidence of *Campylobacter* species in livestock, wildlife and watersheds in a major produce production region of California. 110th General Meeting of the American Society for Microbiology. San Diego, California. May 23-27.
122. 2010 Cooley, M.B., D. Carychao, R. Patel, S. Chandler, D. Orthmeyer, M.T. Jay, **E.R. Atwill**, R.E. Mandrell. Characterization of shiga toxin-producing *Escherichia coli* isolated from ranches and farms in the Salinas region of California. 110th General Meeting of the American Society for Microbiology. San Diego, California. May 23-27.
123. 2010 Vivas, E., **E.R. Atwill**, M. Jay-Russell, X. Li, T. Vodovoz, L. Benjamin, M. Partyka, R. Mandrell, M. Cooley. Sampling of wild rodents for foodborne pathogens along produce fields on the California central coast. 59th Annual James H. Steele Conference on Diseases in Nature Transmissible to Man. Forth Worth, Texas. June 2-5.
124. 2010 Vivas, E., **E.R. Atwill**, M. Jay-Russell, X. Li, T. Vodovoz, L. Benjamin, M. Partyka, R. Mandrell, M. Cooley. Sampling of wild rodents for foodborne pathogens along produce fields on the California central coast. Council of State and Territorial Epidemiologists Annual Conference. Portland, Oregon. June 6-10.
125. 2010 Xunde, L., T.H. Nguyen, **E.R. Atwill**, B.R. Hoar, M. Jay-Russell, J.A. Carabez, K. Fernandez, E.J. Vivas, N. Martinez, B. McNabb. Infectious dose in neonatal Jersey calves of an *E. coli* O157:H7 strain from the 2006 spinach outbreak. Annual Meeting of the International Association for Food Protection. Anaheim, California. August 1-4.
126. 2010 **Atwill, E.R.** B. McCowan, X. Li, M. Periera. Environmental loading of *Cryptosporidium* spp. from Belding's ground squirrels and packstock in Yosemite National Park. International Conference on Diseases of Nature Communicable to Man. Fairbanks, Alaska. August 8-10.
127. 2011 Tate, K., E.P. Kolodziej, **E.R. Atwill**, A. Craigmill, T. O'Geen, D. Holstege, S.J. Parikh, G.D. Jones. Transport and mitigation of beef cattle veterinary pharmaceuticals and hormones. 2011 Land Grant and Sea Grant National Water Conference. Washington, D.C. January 31- February 1.

Category IV (continued)

128. 2011 Li, X. **E.R. Atwill**, E. Vivas, T. Vodovoz, C. Xiao, C. Kilonzo, M.T. Jay-Russell, S. Huang. Occurrence of *Giardia intestinalis* in wild rodent populations in a major produce production region in California. 111th General Meeting of American Society for Microbiology. New Orleans, Louisiana, May 21-24.
129. 2011 **Atwill, E.R.** M. Partyka, E. Lambertini, R. Bond, M. Jay-Russell. Epidemiologic analysis and risk management practices for reducing *E. coli* in irrigation source water supplies and distribution systems. Center for Produce Safety Research Symposium, Orlando, Florida. June 28.
130. 2011 Gordus, A., R. Mandrell, **E.R. Atwill**. Wildlife survey for *E. coli* O157:H7 and *Salmonella* in the central coastal counties of California. Center for Produce Safety Research Symposium, Orlando, Florida. June 28.
131. 2011 Li, X. **E.R. Atwill**, T. Vodovoz, E. Vivas, C. Xiao, C. Kilonzo, M.T. Jay-Russell, T. Nguyen. *Cryptosporidium* spp. in wild rodent population adjacent to produce production fields. International Association for Food Protection Annual Meeting. Milwaukee, Wisconsin. July 31-August 3.
132. 2011 Mandrell, R.E., M.H. Chapman, M. Jay-Russell, **E.R. Atwill**, E. Yee, A.H. Bates, L.A. Harden, J. Yambao, A. Gordus, W.G. Miller. Incidence of eight *Campylobacter* species in livestock, wildlife and watersheds in a major produce production region of California and isolation of two new species, *C. molothri* sp. nov. and *C. californiensis* sp. nov. 16th International Workshop on *Campylobacter*, *Helicobacter*, and Related Organisms. Vancouver, Canada. August 28-September 1.
133. 2011 McCowan, B., B.A. Beisner, J.P. Capitano, M.E. Jackson, A.N. Cameron, S. Seil, **E.R. Atwill**, H. Fushing. Network stability is a balancing act of personality, power, and conflict dynamics in rhesus macaque societies (*Macaca mulatta*). 534rd Meeting of the American Society of Primatologists. Austin, Texas. September 16-19.