

Publication List as of July 1, 2011

Peer Reviewed Publications (Not including book chapters)

60. Wilsey, B.J., P.P. Daneshgar, and H.W. Polley. Biodiversity, phenology and temporal niche differences between native- and novel exotic-dominated grasslands. *Perspectives in Plant Ecology, Evolution and Systematics* in press
59. Isbell, F.I. and B.J. Wilsey. Rapid biodiversity declines in both ungrazed and intensely grazed exotic grasslands. *Plant Ecology* in press
58. Yurkonis, K.A., Wilsey, B.J. and K.A. Moloney. Initial plant arrangement affects invasion resistance in experimental grassland plots. *Journal of Vegetation Science* in press
57. Picasso, V.D., E.C. Brummer, M. Liebman, P.M. Dixon, and B.J. Wilsey. 2011. Diverse perennial crop mixtures sustain higher productivity over time based on ecological complementarity. *Renewable Agriculture and Food Systems* in press
56. Isbell, F.I. and B.J. Wilsey. 2011. Increasing native, but not exotic, biodiversity enhances ecosystem functioning in ungrazed and intensely grazed grasslands. *Oecologia* 165:771-781
55. Yurkonis, K. A., B. J. Wilsey, K. A. Moloney, P. Drobney, and D. L. Larsen. 2010. Seeding method influences warm-season grass abundance and distribution but not local diversity in grassland restoration. *Restoration Ecology* 18S2:344-353
54. Wilsey, B.J. 2010. Comparing beta diversity indices in establishing prairies. *Ecology* 91:1984-1988
53. Yurkonis, K.A., B.J. Wilsey, K.E. Moloney, and A. van der Valk. 2010. The impact of seeding method on diversity and plant distribution in two restored grasslands. *Restoration Ecology* 18:311-321
52. Dornbush, M.E. and B.J. Wilsey. 2010. Experimental manipulation of soil depth alters species richness and co-occurrence in restored tallgrass prairie. *Journal of Ecology* 98:117-125
51. Dickson, T.L., Wilsey, B.J., Busby, R.R. and D.L. Gebhart. 2010. A non-native legume causes large community and ecosystem changes in both the presence and absence of a cover crop. *Biological Invasions* 12:65-76
50. Wilsey, B.J. 2010. Productivity and subordinate species response to dominant grass species and seed source during restoration. *Restoration Ecology* 18:628-637
49. Isbell, F.I., Polley, H.W. and B.J. Wilsey. 2009. Biodiversity, productivity, and the temporal stability of productivity: patterns and processes. *Ecology Letters* 12:443-451

48. Wilsey, B.J., Teaschner, T.B., Daneshgar, P.P., Isbell, F.I. and H.W. Polley. 2009. Biodiversity maintenance mechanisms differ between native and novel exotic-dominated communities. *Ecology Letters* 12:432-442
47. Dickson, T.L. and B.J. Wilsey. 2009. Biodiversity and tallgrass prairie decomposition: the relative importance of species identity, evenness, richness and microtopography. *Plant Ecology* 201:639-649
46. Isbell, F.I., Polley, H.W. and B.J. Wilsey. 2009. Species interaction mechanisms maintain grassland plant species diversity. *Ecology* 90:1821-1830
45. Losure, D.A., Moloney, K.A. and B.J. Wilsey. 2009. Modes of invasion and persistence of an exotic, clonal legume species. *American Midland Naturalist* 161:232-242
42. Chalcraft, D.R., Wilsey, B.J. Bowles, C. and M.R. Willig. 2009. The relationship between productivity and multiple aspects of biodiversity in six grassland communities. *Biodiversity and Conservation* 18:91-104.
41. Isbell, F.I., Losure, D.A., Yurkonis, K.A., and B.J. Wilsey. 2008. Diversity–productivity relationships in two ecologically realistic rarity–extinction scenarios. *Oikos* 117:996-1005.
40. Dickson, T.L., Wilsey, B.J., B.R. Busby, and D.L. Gebhart. 2008. Plant composition alters vehicle disturbance effects in a Kansas, U.S.A. prairie. *Environmental Management* 41:676-684.
39. Picasso, V.D., E.C. Brummer, M. Liebman, P.M. Dixon, and B.J. Wilsey. 2008. Crop species diversity affects productivity and weed suppression in perennial polycultures under two management strategies. *Crop Science* 48:331-342
38. Polley, H.W., Wilsey, B.J. and J.D. Derner. 2007. Species composition and diversity as regulators of temporal variability in biomass production of tallgrass prairie. *Oikos* 116:2044-2052
37. Wilsey, B. and G. Stirling. 2007. Species richness and evenness respond in a different manner to propagule density in developing prairie microcosm communities. *Plant Ecology* 190:259-273
36. Polley, H.W., Wilsey, B.J. and C. Tischler. 2007. Species abundances influence the net biodiversity effect in mixtures of two plant species. *Basic and Applied Ecology* 8:209-218
35. Losure, D.A., Wilsey, B.J. and K.A. Moloney. 2007. Evenness-invasibility relationships differ between two extinction scenarios in tallgrass prairie. *Oikos* 116:87-98
34. Martin, L.M. and B.J. Wilsey. 2006. Assessing grassland restoration success: relative roles of seed additions and native ungulate activities. *Journal of Applied Ecology* 43:1098-1110

33. Wilsey, B.J. and H.W. Polley. 2006. Aboveground productivity and root-shoot allocation differ between native and introduced grass species. *Oecologia* 150:300-309
32. Polley, H.W., Wilsey, B.J., Derner, J.D., Johnson, H.B. and J. Sanabria. 2006. Early-successional plants regulate grassland productivity and species composition: a removal experiment. *Oikos* 113:287-295.
31. Wilsey, B.J., Martin, L.M. and H.W. Polley. 2005. Predicting plant extinction based on species-area curves in prairie fragments with high beta richness. *Conservation Biology* 19:1835-1841.
30. Martin, L.M., Moloney, K.A. and B.J. Wilsey. 2005. An assessment of grassland restoration success using species diversity components. *Journal of Applied Ecology* 42:327-336.
29. Wilsey, B.J., Chalcraft, D.R., Bowles, C.M. and M.R. Willig. 2005. Relationships among indices suggests that species richness is an incomplete indicator of grassland biodiversity. *Ecology* 86:1178-1184.
28. Polley, H.W., Wilsey, B.J. and J.D. Derner. 2005. Patterns of plant species diversity in remnant and restored tallgrass prairies. *Restoration Ecology* 13:480-487
27. Wilsey, B.J. and H.W. Polley. 2004. Realistically low species evenness does not alter grassland species richness-productivity relationships. *Ecology* 85:2693-2701
26. Wilsey, B.J. and H.W. Polley. 2003. Effects of seed additions and grazing history on diversity and aboveground productivity of sub-humid grasslands. *Ecology* 84:920-931
25. Polley, H.W., B.J. Wilsey, and J.D. Derner. 2003. Do species evenness and plant density influence the magnitude of selection and complementary effects in annual plant mixtures? *Ecology Letters* 6:248-257
24. Wilsey, B.J. and H.W. Polley. 2002. Reductions in grassland species evenness increase dicot seedling invasion and spittle bug infestation. *Ecology Letters* 5:676-684
23. Wilsey, B.J. 2002. Clonal plants in a spatially heterogeneous environment: effect of integration on Serengeti grassland response to defoliation and urine-hits from grazing mammals. *Plant Ecology* 159:15-22
22. Wilsey, B.J., G. Parent, N.T. Roulet, T.R. Moore, and C. Potvin. 2002. Tropical pasture carbon cycling: relationships between C source/sink strength, aboveground biomass, and grazing *Ecology Letters* 5:367-376
21. Wilsey, B.J. 2001. Effects of elevated CO₂ on the response of *Phleum pratense* and *Poa pratensis* to simulated aboveground grazing and root-feeding nematodes. *International Journal of Plant Sciences* 162:1275-1282

20. Stirling, G. and B. Wilsey. 2001. Empirical relationships between species richness, evenness, and proportional diversity. *American Naturalist* 158:286-300
19. Wilsey, B.J. and C. Potvin. 2000. Biodiversity and ecosystem functioning: the importance of species evenness in an old field. *Ecology* 81:887-893
18. Alonso, C., T. Vuorisalo, B. Wilsey, and T. Honkanen. 2000. *Yponomeuta evonymellus* moth outbreaks in southern Finland: spatial synchrony but different local magnitudes. *Annals Zoologica Fennici* 37:179-188
17. Lappalainen, J.H., Martel, J., Lempa, K., Wilsey, B. and V. Ossipov. 2000. Effects of resource availability on carbon metabolism and developmental instability in cloned birch seedlings. *International Journal of Plant Sciences* 161:119-125
16. Wilsey, B.J. and I. Saloniemi. 1999. Leaf fluctuating asymmetry in tree-line birches (*Betula pubescens* ssp. *tortuosa*): genetic or environmentally influenced? *Oikos* 87:341-346.
15. Flynn, K.M., I.A. Mendelsohn, and B.J. Wilsey. 1999. The effect of water level management in two Louisiana marshes: Soil and plant responses. *Wetlands Ecology and Management* 7:193-218
14. Wilsey, B.J., Haukioja, E., Koricheva J, and M. Sulkinoja. 1998. Fluctuating asymmetry in hybridizing and stressed tree-line birch trees. *Ecology* 79:2092-2100.
13. Williams, K.J., Wilsey, B.J., McNaughton, S.J., and F. Banyikwa. 1998. Temporal variation in rainfall does not decrease the yield of Serengeti grasses. *Oikos* 81:463-473.
12. Wilsey, B.J., Coleman, J.S., and S.J. McNaughton. 1997. Effects of defoliation and elevated CO₂ on grasses: a comparative ecosystem approach. *Ecological Applications* 7:844-854.
11. Kozlov, M.V., Wilsey, B.J., Koricheva, J., and E. Haukioja. 1996. Fluctuating asymmetry of birch leaves increases under pollution impact. *Journal of Applied Ecology*, 33:1489-1495.
10. Wilsey, B.J. 1996. Urea and defoliation affect plant responses to elevated CO₂ in a C₃ grass from Yellowstone National Park. *Oecologia* 108:321-328.
9. Wilsey, B.J. 1996. Plant response to elevated atmospheric CO₂ among terrestrial biomes. *Oikos* 76:201-209.
8. Wilsey, B.J. 1996. Variation in use of green flushes following burns among African ungulate species: the importance of body size. *African Journal of Ecology* 34:32-38
7. Webb, E.J., I.A. Mendelsohn, and B.J. Wilsey. 1995. Causes for vegetation dieback in a Louisiana salt marsh: A bioassay approach. *Aquatic Botany* 51:281-289.

6. Wilsey, B.J., S.J. McNaughton, and J.S. Coleman. 1994. Will increases in atmospheric CO₂ affect regrowth following grazing in grasses from tropical grasslands? A test with *Sporobolus kentrophyllus*. *Oecologia* 99:141-144.
5. Hester, M.H., B.J. Wilsey, and I.A. Mendelssohn. 1994. Grazing of *Panicum amarum* in a Louisiana barrier island dune community: management implications for dune restoration projects. *Ocean and Coastal Management* 23:213-224.
4. Wilsey, B.J., I.A. Mendelssohn, and K.L. McKee. 1992. Effects of elevation, macro- and micronutrients on *Spartina alterniflora* transplant success in salt marsh dieback in Louisiana. *Environmental Management* 16:505-511.
3. Wilsey, B.J., R.H. Chabreck, and R.G. Linscombe. 1991. Spatial and seasonal variation in nutria (*Myocastor coypus*) diets in forested wetlands of Louisiana. *Wetlands* 11:263-278.
2. Wilsey, B.J. and R.H. Chabreck. 1991. Nutritional quality of nutria diets in three Louisiana wetland habitats. *Northeast Gulf Science* 12:67-72.
1. Mendelssohn, I.A., K.M. Flynn, and B.J. Wilsey. 1990. The relationship between produced water discharges and plant biomass and species composition in three Louisiana marshes. *Oil and Chemical Pollution* 7:317-335.