

JAMES B. GRACE - Complete List of Publications

(last updated, May 27th, 2008)

Published Reports (126 total) – 108 Articles, Books, & Book Chapters, + 18 Reports & Book Reviews

Grace, J.B., Youngblood, A., and Scheiner, S.M. in press. Structural equation modeling and ecological experiments. Chapter 2, In: Miao, S., Carstenn, S., and Nungesser, M. (Eds.) *Real World Ecology: Large-Scale and Long-Term Case Studies and Methods*. Springer Verlag, New York. (108+18)

Youngblood, A., Grace, J.B., and McIver, J.D. accepted. Delayed conifer mortality after fuel reduction treatments: Interaction of fuels, fire intensity, and bark beetles. For a special feature section in *Ecological Applications*. (pending revisions) (107+18)

Ewing, R., Bartholomew, K., Winkelman, S., Walters, J., Chen, D., Anderson, G., Grace, J.B., McCann, B., and Goldberg, D. 2008. *Growing Cooler: The Evidence on Urban Development and Climate Change*. Urban Land Institute, Washington, DC. (106+18)

Harrison, S., Viers, J.H., Thorne, J.H. and Grace, J.B. 2008. Favorable environments and the persistence of naturally rare species. *Conservation Letters* in press (105+18)

Riginos, C. and Grace, J.B. 2008. Savanna tree density, herbivores, and the herbaceous community: bottom-up versus top-down effects. *Ecology* (in press) (104+18)

Grace, J.B. and Zouhar, K. 2008. Fire and nonnative invasive plants in the central bioregion. In: Zouhar, K., Smith, J.K., Sutherland, S., and Brooks, M.L (eds.) *Wildland Fire in Ecosystems: Fire and Nonnative Invasive Plants*, Gen. Tech. Rep. RMRS-GTR-42-volume 6. Ogden, UT: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station, in press (103+18)

Grace, J.B. 2008. Structural equation modeling for observational studies. *Journal of Wildlife Management* 72:14-22. (102+18)

Drake, J.M., Cleland, E.E., Horner-Devine, M.C., Fleishman, E., Bowles, C., Smith, M.D., Carney, K., Emery, S., Gramling, J., Vandermast, D.B., and Grace, J.B. 2008. Do non-native plant species affect the shape of productivity-diversity relationships? *American Midland Naturalist*. 159:55-66 (101+18).

Grace, J.B. and Bollen, KA. 2008. Representing general theoretical concepts in structural equation models: the role of composite variables. *Environmental and Ecological Statistics* 15:191-213. (100+18)

Siemann, E., Rogers, W.E. and Grace, J.B. 2007. Effects of nutrient loading and extreme rainfall events on coastal tallgrass prairies: invasion intensity, vegetation

- responses, and carbon and nitrogen distribution. *Global Change Biology* 13:2184-2192. (99+18)
- Nettle, D., Grace, J.B., Choisy, M., Cornell, H.V., Guegan, J.F., and Hochberg, M.E. 2007. Cultural diversity, economic development and societal instability. *PLoS ONE* 2(9): e929. doi:10.1371/journal.pone.0000929. (98+18).
- Clark, C, Cleland, E, Fargione, J.E., Gough, L., Gross, K.L., Pennings, S.C., Suding, K.N. and Grace, JB. 2007. Environmental and plant community determinants of species loss following nitrogen enrichment. *Ecology Letters*.10:596-607. (97+18)
- Owens, A, Proffitt, E, and Grace, JB. 2007. Prescribed fire and cutting as tools for managing woody plant succession in a created salt marsh. *Wetlands Ecology and Management*. 15:405-416. (96+18)
- Grace, J.B., Anderson, T.M., Smith, M., Seabloom, E., Andelman, S., Meche, G., Weiher, E., Allain, L.K., Jutila, H., Sankaran, M., Knops, J., Ritchie, M.E. and Willig, M.R. 2007. Does species diversity limit productivity in natural grassland communities. *Ecology Letters*. 10:680-689. (95+18)
- Anderson, T.M., Ritchie, M.E., Mayemba, E., Eby, S., Grace, J.B., and McNaughton, S.J. 2007. Forage nutritive quality in the Serengeti ecosystem: the roles of fire and herbivory. *American Naturalist*. 170:343-357. (94+18)
- Grace, J.B., Safford, H., and Harrison, S. 2007. Large-scale causes of variation in the serpentine vegetation of California. *Plant and Soil* 10.1007/s11104-007-9196-6. (93+18)
- Harrison, S. and Grace, JB. 2007. Biogeographic affinity contributes to our understanding of productivity-richness relationships at regional and local scales. *American Naturalist*. 170:S5-S15. (92+18)
- Laughlin, D.C., Abella, S.R., Covington, W.W., Fulé, P., and Grace, J.B. 2007. A structural equation modeling analysis of plant species richness and soil properties in a ponderosa pine forest ecosystem. *Journal of Vegetation Science* 18:231-242. (91+18)
- Larson, D.L., Grace, J.B., Rabie, P.A., and Andersen, P. 2007. Short-term disruption of a leafy spurge (*Euphorbia esula*) biocontrol program following herbicide application. *Biological Control* 40:1-8.(90+18)
- Baldwin, H.Q., Grace, J.B., Barrow, W., Rohwer, F.C. 2007. Association of overwintering grassland birds with time since burn and vegetation characteristics in coastal tallgrass prairie. *Wilson Journal of Ornithology* 119:189-197. (89+18)
- Drake, D.L., Altig, R., Grace, J.B. and Walls, S.C. 2007. Occurrence of oral defects in

- larval anurans from protected sites. *Copeia* 2007(2):449-458. (88+18)
- Grace, J.B. and Bollen, K.A. 2006. The Interface between Theory and Data in Structural Equation Models. USGS Open-File Report 2006-1363. 37 p. (87+18)
- Grace, J.B. 2006. *Structural Equation Modeling and Natural Systems*. Cambridge University Press. (87+17)
- Lichtenberg, J.S., King, S.L., Grace, J.B., and Walls, S. 2006. Habitat associations of chorusing anurans in the lower Mississippi river alluvial valley. *Wetlands* 26:736-744. (86+17)
- Laughlin, D.C. and Grace, J.B. 2006. A multivariate model of plant species richness in forested systems: old-growth montane forests with a long history of fire. *Oikos* 114:60-70. (85+17)
- Whitbeck, M. and Grace, J.B. 2006. Estimating biomass in marshes of the upper Texas coast. *Wetlands* 26:278-282. (84+17)
- Harrison, S., Grace, J.B. Davies, K.F., Safford, H.D., and Viers, J.H. 2006. Exotic invasion in a diversity hotspot: disentangling the direct and indirect relationships of exotic cover to native richness in the californian serpentine flora. *Ecology* 87:695-703. (83+17)
- Harrison, S., Safford, H.D. Grace, J.B. Viers, J.H. and Davies, K.F. 2006. Regional and local species richness in an insular environment: Serpentine plants in California. *Ecological Monographs* 76:41-56. (82+17)
- Grace, JB and Keeley, JE. 2006. A structural equation model analysis of postfire plant diversity in California shrublands. *Ecological Applications* 16:503-514. (81+17)
- Allain, L., Smith, L, Allen, C. Vidrine, M.F. and Grace, J.B. 2006. A floristic quality assessment system for the coastal prairie of Louisiana. *Proceedings of The 19th North American Prairie Conference*, pp. 1-18. (80+17)
- Grace, J.B., Allain, L.K., Baldwin, H.Q., Billock, A.G., Eddleman, W.R., Given, A.M., Jeske, C.W., and Moss, R. 2005. An Assessment of Prescribed Fire Effects at the USFWS Texas Mid-coast National Wildlife Refuge Complex. USGS Open-File Report 2005-1287. 40 p. (79+17)*
- Grace, J., Owens, A., and Allain, L., 2005, Fireloggers user's manual: U.S. Geological Survey Open-File Report 2005-1212, 24 p. (79+16)*
- Grace, J.B. and Bollen, K.A. 2005. Interpreting the results from multiple regression and structural equation models. *Bulletin of the Ecological Society of America*. 86:283-295. (79+15)

- Mancera, JE, Meche, GC, Cardona, PP, Castaneda-Moya, E, Chiasson, RL, Geddes, NA, Schile, LM, Wang, HG, Guntenspergen, GR, and Grace, JB. 2005. Fine scale variation in plant species richness in coastal marshlands. *Plant Ecology* 178:39-50. (78+15)
- Grace, J.B., Allain, L.K., Baldwin, H.Q., Billock, A.G., Eddleman, W.R., Given, A.M., Jeske, C.W., and Moss, R. 2005. An Assessment of Prescribed Fire Effects at the USFWS Texas Mid-coast National Wildlife Refuge Complex. USGS Open-File Report 2005-1287. 40 p. (79+17)*
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- Mancera, JE, Meche, GC, Cardona, PP, Castaneda-Moya, E, Chiasson, RL, Geddes, NA, Schile, LM, Wang, HG, Guntenspergen, GR, and Grace, JB. 2005. Fine scale variation in plant species richness in coastal marshlands. *Plant Ecology* 178:39-50. (78+15)
- Middleton, B. Grace, J.B. 2004. Biodiversity and ecosystem function (book review). *Restoration Ecology* 12:610-611. (77+15)*
- Brooks, M., D'Antonio, CM, Richardson, DM, Grace, JB, Keeley, JE, DiTomaso, JM, Hobbs, RJ, Pellant, M., and Pyke, D. 2004. Effects of invasive alien plants on fire regimes. *Bioscience* 54:1-12. (77+14)
- Weiher, E., Forbes, S., Schauwecker, T., and Grace, JB. 2004. Multivariate control of plant species richness in a blackland prairie. *Oikos* 106:151-157. (76+14)
- Larson, DL and Grace JB. 2004. Temporal dynamics of leafy spurge (*Euphorbia esula*) and two species of flea beetles (*Aphthona* spp.) used as biological control agents. *Biological Control* 29:207-214. (75+14)
- Grace, J.B. 2003. Examining the relationships between environmental variables and ordination axes using latent variables and structural equation modeling. In: B. Pugesek, A. Tomer, and A. von Eye (eds.) Chapter 7, *Structural Equations Modeling: Applications in Ecological and Evolutionary Biology Research*. Cambridge University Press. (74+14)
- Grace, J.B. 2003. Comparing groups using structural equations. In: B. Pugesek, A. Tomer, and A. von Eye (eds.) Chapter 11, *Structural Equations Modeling: Applications in Ecological and Evolutionary Biology Research*. Cambridge

- University Press. (73+14)
- Grace, J.B., M.F. Acevedo, J.E. Cohen, A.K. Sakai, S.A. Woodin, and B.E. Young. 2002. Review of the National Center for Ecological Analysis and Synthesis. A report prepared for the National Science Foundation. (72+14)*
- Grace, J.B. 2002. Cause and correlation in biology. *Annals of Botany* 90:777-778 (book review). (72+13)*
- Grace, J.B. 2002. The production ecology of wetlands. *Aquatic Botany* 73:89-90. book review (72+12)*
- McCune, B. and J.B. Grace. 2002. *Analysis of Ecological Communities*. MJM Press, 302 pages. (72+11)
- Jutila, H and J.B. Grace. 2002. Effects of disturbance and competitive release on germination and seedling establishment in a coastal prairie grassland. *Journal of Ecology* 90:291-302. (71+11)
- Allain, L.K. and J.B. Grace. 2001. Changes in density and height of the shrub *Baccharis halimifolia* following burning in coastal tallgrass prairie. *Proceedings of The 17th North American Prairie Conference*, Pella Iowa, pp. 66-72. (70+11)
- Grace, J.B., M.D. Smith, S.L. Grace, S.L. Collins, and T.J. Stohlgren. 2001. Interactions between fire and invasive plants in temperate grasslands of North America. Pages 40-65 in K.E.M. Galley and T.P. Wilson (eds.). *Proceedings of the Invasive Species Workshop: the Role of Fire in the Control and Spread of Invasive Species. Fire Conference 2000: The First National Congress on Fire, Ecology, Prevention and Management*. Miscellaneous Publication No. 11. Tall Timbers Research Station, Tallahassee, FL. (downloadable from http://www.nifc.gov/joint_fire_sci/invasive%20publications/invasiveproceedings.htm) (69+11)
- Grace, J.B. 2001. Difficulties with estimating and interpreting species pools and the implications for understanding patterns of diversity. *Folia Geobotanica* 36:71-83. (68+11)
- La Peyre, M.K., M.A. Reams, P.H. Templet, J.B. Grace, and I.A. Mendelssohn. 2001. An exploratory analysis: identifying determinants of nation's wetland management programs using structural equation modeling. *Environmental Management* 27:859-868. (67+11)
- Grace, J.B. 2001. The roles of community biomass and species pools in the regulation of plant diversity. *Oikos* 92:191-207. (66+11)
- Greiner La Peyre, M.K., J.B. Grace, E. Hahn, and I.A. Mendelssohn. 2001. The

- importance of competition in regulating plant species abundance along a salinity gradient. *Ecology* 82:62-69. (65+11)
- Lovich, J, F.J. Dein, J.B. Grace, S.C. Guptill, K.H. Haag, D.L. Larson, D.J. Meyer, M Reheis, and T. Stohlgren. 2001. A Strategic Science Plan for U.S. Geological Survey Research on Invasive Species. *Department of Interior Internal Report*. (64+11)*
- Grace, J.B. 2001. On the relationship between species diversity and community productivity. *Contributions to the Knowledge Network for Biocomplexity Graduate Student Research Training Seminar*, E. Sandlin (ed.), National Center for Ecological Analysis and Synthesis. (64+10)*
- Wade, D.D., B.L. Brock, P.H. Brose, J.B. Grace, G.A. Hoch, and W.A. Patterson III. 2000. Chapter 4: Fire in eastern ecosystems. In: J.K. Brown and J.K. Smith (eds.) *Wildland Fire in Ecosystems: Effects of Fire on Flora*. Gen. Tech. Rep. RMRS-GTR-42- Vol. 2., Ogden, UT: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station, pp 53-96. (64+9)
- King, S. and J.B. Grace. 2000. The effects of soil flooding on the establishment of cogongrass (*Imperata cylindrica*), a nonindigenous invader of the southeastern United States. *Wetlands* 20:300-306. (63+9)
- King, S. and J.B. Grace. 2000. The effects of gap size and disturbance type on invasion of wet pine savanna by cogongrass, *Imperata cylindrica* (Poaceae). *American Journal of Botany* 87:1279-1286. (62+9)
- Barrilleaux, T.C. and J.B. Grace. 2000. Effects of soil type and moisture regime on the growth and invasive potential of Chinese tallow tree (*Sapium sebiferum*). *American Journal of Botany* 87:1099-1106. (61+9)
- Grace, J.B., L. Allain, and C. Allen. 2000. Factors associated with plant species richness in a coastal tall-grass prairie. *Journal of Vegetation Science* 11:443-452. (60+9)
- Grace, J.B., L. Allain, and C. Allen. 2000. Vegetation associations in a rare community type of coastal tallgrass prairie. *Plant Ecology* 147:105-115. (59+9)
- Burkett, V., J. Grace, D. Larson, L. Kallemeyn, and T. Stohlgren. 2000. *Invasive Species Science Strategy for DOI Lands, Central Region*. USGS Unnumbered Report. (58+9)*
- Grace, J.B. 1999. The factors controlling species density in herbaceous plant communities: an assessment. *Perspectives in Plant Ecology, Evolution and Systematics* 2:1-28. (58+8)
- Grace, J.B. and H. Jutila. 1999. The relationship between species density and community

- biomass in grazed and ungrazed coastal meadows. *Oikos* 85:398-408. (57+8)
- Grace, J.B. and G.R. Guntenspergen. 1999. The effects of landscape position on plant species density: evidence of past environmental effects in a coastal wetland. *Ecoscience* 6:381-391. (56+8)
- Gough, L. and J.B. Grace. 1999. Predicting effects of environmental change on plant species density: experimental evaluations in a coastal wetland. *Ecology* 80:882-890. (55+8)
- Gough, L. and J.B. Grace. 1998. Effects of flooding, salinity, and herbivory on coastal plant communities, Louisiana, United States. *Oecologia* 117:527-535. (54+8)
- Ford, M.F. and J.B. Grace. 1998. Effects of herbivores on vertical soil accretion, shallow subsidence and soil elevation changes in coastal Louisiana. *Journal of Ecology* 86:974-982. (53+8)
- Pugesek, B.H. and J.B. Grace. 1998. On the utility of path modeling for ecological and evolutionary studies. *Functional Ecology* 12:853-856. (52+8)
- Grace, J.B. 1998. Can prescribed fire save the endangered coastal prairie ecosystem from Chinese tallow invasion? *Endangered Species Update* 15:70-76. [reprinted in *Wildland Weeds*, Spring 1999] (51+8)
- Grace, J.B. and R.G. Wetzel. 1998. Long-term dynamics of Typha populations. *Aquatic Botany* 61:137-146. (50+8)
- Grace, J.B. and B.H. Pugesek. 1998. On the use of path analysis and related procedures for the investigation of ecological problems. *American Naturalist* 152:151-159. (49+8)
- Newman, S., J. Schutte, J.B. Grace, K. Rutchey, T. Fontaine, M. Campbell, M. Pietrucha, and K.R. Reddy. 1998. Factors influencing cattail abundance in the northern Everglades. *Aquatic Botany* 60:265-280. (48+8)
- Ford, M.F. and J.B. Grace. 1998. The interactive effects of vertebrate herbivory and fire on a coastal marsh in Louisiana, the Pearl River. *Wetlands* 18:1-8. (47+8)
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- Gough, L. and J.B. Grace. 1997. The influence of vines on an oligohaline marsh community: results of a removal and fertilization study. *Oecologia* 112:403-411. (45+8)
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- W.H.Conner, R.H. Day, M. Ford, J. Grace, J. C. Lynch, R.A.Orson, R.W. Parkinson, D. Reed, J.M. Rybczyk, T.J. Smith III, R.P. Stumpf, and K. Williams. 1997. Forecasting the fate of coastal wetlands. *Eos* 78:257, 260-261. (44+8)
- Grace, J.B. 1997. Bioinformatics: Mathematical challenges and ecology. *Science* 275:1862-1863. (43+8)*
- Grace, J.B. and B. Pugsek.1997. A structural equation model of plant species richness and its application to a coastal wetland. *American Naturalist*. 149:436-460. (43+7)
- Taylor, K.L., J.B. Grace, and B.D. Marx. 1997. The effects of herbivory on neighbor interactions along a coastal marsh gradient. *American Journal of Botany*. 84:709-715. (42+7)
- Grace, J.B. 1997. British Plant Communities. Volume 4: Aquatic Communities, Swamps and Tall-herb Fens. *Quarterly Review of Biology* 72:345-346. (book review) (41+7)*
- Grace, J.B. 1997. Adaptation Strategies in Wetland Plants: Links between Ecology and Physiology. *Aquatic Botany* 56:285-287. (book review) (41+6)*
- Newman, S., JB Grace, and JW Koebel. 1996. Nutrient and hydroperiod effects on *Typha*, *Cladium*, and *Eleocharis*: implications for Everglades restoration. *Ecological Applications* 6:774-783. (41+5)
- Marrs, R., J.B. Grace, and L. Gough. 1996. On the relationship between plant species diversity and biomass: a comment on a paper by Gough, Grace, and Taylor. *Oikos*. 75:323-326. (40+5)
- Grace, J.B. and M.A. Ford. 1996. The potential impact of herbivores on the susceptibility of *Sagittaria lancifolia* to saltwater intrusion in coastal wetlands. *Estuaries* 19:13-20. (39+5)
- Grace, J.B. 1995. In search of the holy grail: explanations for the coexistence of plant species. *Trends in Ecology and Evolution* 10:263-264. (38+5)
- Guntenspergen, GR, DR Cahoon, JB Grace, GD Steyer, S Fournet, MA Townsend, and AL Foote. 1995. Disturbance and recovery of the Louisiana coastal marsh landscape from the impacts of Hurricane Andrew. *Journal of Coastal Research* 21:324-339. (37+5)
- Taylor, K.L. and J.B. Grace. 1995. The effects of vertebrate herbivory on plant community structure in the coastal marshes of the Pearl River, Louisiana. *Wetlands* 15:68-73. (36+5)

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- Gough, L., J.B. Grace, and K.L. Taylor. 1994. The relationship between species richness and community biomass: the importance of environmental variables. *Oikos* 70:271-279. (34+5)
- Reader, R.J., S.D. Wilson, J.W. Belcher, I. Wisheu, P.A. Keddy, D. Tilman, E.C. Morris, J.B. Grace, J.B. McGraw, H. Olf, R. Turkington, E. Klein, Y. Leung, B. Shipley, R. van Hulst, M.E. Johansson, C. Nilsson, J. Gurevitch, K. Grigulis, and B.E. Beisner. 1994. Intensity of plant competition in relation to neighbor biomass: an intercontinental study with *Poa pratensis*. *Ecology* 75:1753-1760. (33+5)
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- Grace, J.B. 1993. The effects of habitat productivity on competition intensity. *Trends in Ecology and Evolution* 8:229-230. (31+5)
- Grace, J.B., G.R. Guntenspergen, and J.R. Keough. 1993. The examination of a competition matrix for transitivity and intransitive loops. *Oikos* 68:91-98. (30+5)
- Grace, J.B. 1993. The adaptive significance of clonal reproduction in angiosperms: an aquatic perspective. *Aquatic Botany* 44:159-180. (29+5)
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- Constable, J.V.H., J.B. Grace and D.J. Longstreth. 1992. High carbon dioxide concentrations in aerenchyma of *Typha latifolia* (Typhaceae). *American Journal of Botany* 79:415-418. (27+5)
- Grace, J.B. 1992. Wetlands and Shallow Continental Water Bodies. Volume 1: Natural and Human Relationships. Patten, B.C (ed.) - book review. *Quarterly Review of Biology*, 67:383. (book review). (26+5)*
- Grace, J.B. 1991. A clarification of the debate between Grime and Tilman. *Functional Ecology* 5:503-507. (26+4)
- Grace, J.B. and D. Tilman. (eds.) 1990. *Perspectives on Plant Competition*, Academic Press, New York. (reprinted in soft cover- 1991). 484 pages. (25+4)
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- Grace, J.B. 1990. On the relationship between plant traits and competitive ability. In J.B. Grace and D. Tilman (eds) *Perspectives on Plant Competition*, Academic Press, New York. (22+4)
- Grace, J.B. and D. Tilman. 1990. Perspectives on plant competition: some introductory remarks. In J.B. Grace and D. Tilman (eds) *Perspectives on Plant Competition*, Academic Press, New York. (21+4)
- Langevin, S.A., K. Clay, and J.B. Grace. 1990. The incidence and effects of hybridization between cultivated rice and red rice (*Oryza sativa* L.). *Evolution* 44:1000-1008. (20+4)
- Carter, M.F. and J.B. Grace. 1990. The relationships between flooding tolerance, life history, and competitive ability in three species of *Polygonum*. *American Journal of Botany* 77:381-387. (19+4)
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- Grace, J.B. 1990. Competition. Keddy, P. *Aquatic Botany* 37:387-389. book rev. (18+3)*
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- Grace, J.B. 1988. The effects of nutrient additions on mixtures of *Typha latifolia* and *Typha domingensis* along a water-depth gradient. *Aquatic Botany*. 31:83-92. (16+2)
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- Grace, J.B. and J.S. Harrison. 1986. The biology of Canadian weeds. *Typha angustifolia*, *Typha latifolia*, and *Typha xglauca*. *Canadian Journal of Plant Science*. 66:361-379. (14+2)
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- Carter, M.F., F.E. Lane, and J.B. Grace. 1985. Effects of litter on aquatic macrophyte germination and growth. *Arkansas Academy of Science Proceedings*, 39:29-33. (11+2)
- Grace, J.B. 1984. Effects of tubificid worms on the germination and establishment of *Typha*. *Ecology* 65:1689-1693. (10+2)
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