

## Publications

### Journal Articles, Scientific Letters, and Book Chapters

Asbjornsen, H., V. Hernández-Santana, V., M. Liebman, J. Bayala, J. Chen, M.J. Helmers, C.K. Ong, and L.A. Schulte. *In review*. Targeting perennial vegetation in agricultural landscapes for enhancing ecosystem services. **Agriculture, Ecosystems and Environment**.

Gómez, R., M. Liebman, and G. Munkvold. *In review*. Weed seed decay in conventional and low-external-input cropping systems. **Weed Research**.

Gómez, R., M. Liebman, D.N. Sundberg, and C.A. Chase. *In review*. Comparison of crop management strategies involving crop genotype and weed management practices in conventional and low-external-input cropping systems. **Renewable Agriculture and Food Systems**.

Jarchow, M.E., I. Kubiszewski, G.L.D. Larsen, G. Zdorkowski, R. Costanza, S.R. Gailans, N. Ohde, R. Dietzel, S. Kaplan, J. Neal, M.R. Petrehn, T. Gunther, S.N. D'Adamo, N. McCann, A. Larson, P. Damery, L. Gross, M. Merriman, J. Post, M. Sheradin, and M. Liebman. *In review*. The future of agriculture and society in Iowa: four scenarios. **International Journal of Agricultural Sustainability**.

Jarchow, M.E., and M. Liebman. *In review*. Nutrient enrichment reduces complementarity and increases priority effect in mixtures of prairie plant functional groups. **Biomass and Bioenergy**.

Jarchow, M.E., and M. Liebman. *In review*. Tradeoffs in biomass and nutrient allocation in prairies and corn managed for bioenergy production. **Crop Science**.

Jarchow, M.E., M. Liebman, V. Rawat, and R.P. Anex. *In review*. Functional group and fertilization affect the composition and bioenergy yields of prairie plants. **Biomass and Bioenergy**.

Leandro, L.F., A. Robertson, D.S. Mueller, M. Liebman, and X.B. Yang. *In review*. Lessons from the 2010 outbreak of sudden death syndrome in Iowa. **Plant Disease**.

Liebman, M., M.J. Helmers, L.A. Schulte, and C.A. Chase. *In review*. Using biodiversity to link agricultural productivity with environmental quality: results from three field experiments in Iowa. **Renewable Agriculture and Food Systems**.

Loecke, T.L., C.A. Cambardella, and M. Liebman. *In review*. Synchrony of net nitrogen mineralization and maize nitrogen uptake following applications of composted and fresh swine manure in the Midwest U.S. **Nutrient Cycling in Agroecosystems**.

Jarchow, M.E., and M. Liebman. 2011. Maintaining multifunctionality as landscapes provide ecosystem services. **Frontiers in Ecology and the Environment** 9: 262–262 (doi:10.1890/11.WB.010).

Liebman, M., R.L. Graef, D. Nettleton, and C.A. Cambardella. 2011. Use of legume green manures as nitrogen sources for corn production. **Renewable Agriculture and Food Systems** doi:10.1017/S1742170511000299.

Liebman, M., M.J. Helmers, and L.A. Schulte. 2011. Integrating conservation with biofuel feedstock production. Pages 131-142 in: P. Nowak and M. Schnepf (eds.), **Managing Agricultural Landscapes for Environmental Quality II: Achieving More Effective Conservation**. Soil and Water Conservation Society, Ankeny, IA.

- 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** doi:10.1017/S1742170511000135.
- Cruse, M.J., M. Liebman, D.R. Raman, and M. Wiedenhoeft. 2010. Fossil energy use in conventional and low-external-input cropping systems. **Agronomy Journal** 102: 934-941.
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- Williams, C.L., W.W. Hargrove, M. Liebman, and D.E. James. 2008. Agro-ecoregionalization of Iowa using multivariate geographical clustering. **Agriculture, Ecosystems, and Environment** 123: 161-174.
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### **Books**

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### **Experiment Station and Extension Materials**

Jarchow, M.E. and M. Liebman. 2010. Incorporating prairies into working landscapes--establishing and managing prairies for bioenergy production, livestock grazing, carbon sequestration and enhanced environmental quality. Iowa State University Extension. Ames, IA.

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