

## References for Fall 2002 FIFRA Update

### Literature Review: Corn Herbicide Loading Studies

- Battaglin, W.A., and D.A. Goolsby. 1996. Using GIS and Regression to Estimate Annual Herbicide Concentrations in Outflow from Reservoirs in the Midwestern USA, 1992-93. In: Proceedings of AWRA Symposium on GIS and Water Resources, Sept. 22-26, 1996, Ft. Lauderdale, FL.
- Battaglin, W.A., and L.E. Hay. 1996. Effects of Sampling Strategies on Estimates of Annual Mean Herbicide Concentrations in Midwestern Rivers. *Environmental Science and Technology*, 30 (3): 889-896.
- Cessna, A.J., J.A. Elliott, L. Tollefson, and W. Nicolaichuk. 2001. Herbicide and Nutrient Transport from an Irrigation District into the South Saskatchewan River. *Journal of Environmental Quality*, 30 (5): 1796-1807.
- Crawford, C.G. 2001. Factors Affecting Pesticide Occurrence and Transport in a Large Midwestern River Basin. *Journal of the American Water Resources Association*, 37 (1): 1-15.
- Fenelon, J.M. 1998. Water Quality in the White River Basin, Indiana, 1992-96. US Geological Survey Circular 1150. US Geological Survey, Denver, CO.
- Fenelon, J.M., and R.C. Moore. 1998. Transport of Agrichemicals to Ground and Surface Water in a Small Central Indiana Watershed. *Journal of Environmental Quality*, 27: 884-894.
- Goolsby, D.A., W.A. Battaglin, and E.M. Thurman. 1993. Occurrence and Transport of Agricultural Chemicals in the Mississippi River, July through August 1993. US Geological Survey Circular 1120-C.
- Goolsby, D.A., and W.A. Battaglin. 1995. Occurrence and Distribution of Pesticides in Rivers of the Midwestern United States. In: *Agrochemical Environmental Fate*, M.L. Leng, E.M. Leovey, and P.L. Zubkoff (editors). CRC Press, Boca Raton, FL. Pages 159-173.
- Hainly, R.A., and J.M. Kahn. 1996. Factors Affecting Herbicide Yields in the Chesapeake Bay Watershed, June 1994. *Water Resources Bulletin*, 23 (5): 965-984.
- Homes, M.J., J.R. Frankenberger, and B.A. Engel. 2001. Susceptibility of Indiana Watersheds to Herbicide Contamination. *Journal of the American Water Resources Association*, 37 (4): 987-1000.
- Larson, S.J., and R.J. Gilliom. 2001. Regression Models for Estimating Herbicide Concentrations in U.S. Streams from Watershed Characteristics. *Journal of the American Water Resources Association*, 37 (5): 1349-1367.
- Leonard, R.A., G.W. Langdale, and W.G. Fleming. 1979. Herbicide Runoff from Upland Piedmont Watersheds—Data and Implications for Modeling Transport. *Journal of Environmental Quality*, 8 (2): 223-229.
- Louchart, X., M. Voltz, P. Andrieux, and R. Moussa. 2001. Herbicide Transport to Surface Waters at Field and Watershed Scale in a Mediterranean Vineyard Area. *Journal of Environmental Quality*, 30 (3): 982-991.
- Paterson, K.G., and J.L. Schnoor. 1992. Fate of Alachlor and Atrazine in a Riparian Zone Field Site. *Water Environment Research*, 64 (3): 274-283.
- Pope, L.M. 1995. Atrazine in Surface Water and Relation to Hydrologic Conditions within the Delaware River Basin Pesticide Management Area, Northeast Kansas, July 1992 through December 1994. US Geological Survey Fact Sheet 196-95.
- Richards, R.P., D.B. Baker, J.W. Kramer, and D.E. Ewing. 1996. Annual Loads of Herbicides in Lake Erie Tributaries of Michigan and Ohio. *Journal of Great Lakes Research*, 22 (2): 414-428.
- Richards, R.P., D.B. Baker, J.W. Kramer, D.E. Ewing, B.J. Merryfield, and N.L. Miller. 2001. Storm Discharge, Loads, and Average Concentrations in Northwest Ohio River, 1975-1995. *Journal of the American Water Resources Association*, 37 (2): 423-438.
- Richards, R.P. 1998. Testimony Presented Before the House Committee on Agriculture, Subcommittee on Department Operations, Nutrition, and Foreign Agriculture, Thursday, June 25, 1998, 9:30 a.m. Water Quality Laboratory, Heidelberg College, Tiffin, OH. <http://www.house.gov/agriculture/105/h80624w1.htm>. Accessed 10/2/2001.
- Richards, R.P. 2001. Estimates of Pollutant Loads in Rivers and Streams: A Guidance Document of NPS Programs. Water Quality Laboratory, Heidelberg College, Tiffin, OH. <http://www.bae.ncsu.edu/programs/extension/wqg/issues/loadestimation.pdf>. Accessed 10/2/2001.
- Thurman, E.M., D.A. Goolsby, M.T. Meyer, and D.W. Kolpin. 1991. Herbicides in Surface Waters of the Midwestern United States: The Effect of Spring Flush. *Environmental Science and Technology*, 25 (10): 1794-1796.
- Thurman, E.M., D.A. Goolsby, D.S. Aga, M.L. Pomes, and M.T. Meyer. 1996. Occurrence of Alachlor and Its Sulfonated Metabolite in Rivers and Reservoirs of the Midwestern United States: The Importance of Sulfonation in the Transport of Chloroacetanilide Herbicides. *Environmental Science and Technology*, 30 (2): 569-574.
- Wauchope, R.D. 1978. The Pesticide Content of Surface Water Draining from Agricultural Fields—A Review. *Journal of Environmental Quality*, 7 (4): 459-472.

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