

**ILLINOIS RIVER BASIN RESTORATION
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WITH INTEGRATED ENVIRONMENTAL ASSESSMENT**

REFERENCES

REFERENCES

- Abert, C.C. (1996) Shaded Relief Map of Illinois: Illinois Map 6. Illinois State Geological Survey. Champaign, IL.
- Adamus, P. R. 1996. *Bioindicators for Assessing Ecological Integrity of Prairie Wetlands*. U.S. Environmental Protection Agency, Environmental Research Laboratory, EPA/600/R-96/082. Corvallis, OR.
- Angermeier, P. L. and J. R. Karr. 1994. *Biological Integrity versus Biological Diversity as Policy Directives, Protecting Biotic Resources*. *BioScience* 44(10): 690-967.
- Atwood, E., D. Busse, K. L. Dalrymple and C. N. Strauser. 1996. Environmental Pool Management: A Status Report. Prepared for UMRCC Meeting March 5-7, 1996, Cape Girardeau, MO.
- Bayley, P. B. 1991. *The Flood Pulse Advantage and the Restoration of River-floodplain Systems*. *Regulated Rivers: Research and Management*, 6:75-86.
- Beardsley, John, Long Duong, Jon Rodsater and Thomas Hill. 2002. Evaluation of Sediment Delivery to Lake Pittsfield After Best Management Practice Implementation National Watershed Monitoring Project. Annual Report. Prepared for Illinois Environmental Protection Agency by Illinois State Water Survey Watershed Science Section, Peoria, IL. September 1, 2002.
- Bellrose, F. C. 1954. *The Value of Waterfowl Refuges in Illinois*. *Journal of Wildlife Management*, 18:160-169.
- Bellrose, F. C., Havera, S. P., Pavaglio, Jr., F. L. and Steffeck, D. W. 1983. *The Fate of Lakes in the Illinois River Valley*. Illinois Natural History Survey Biological Notes 119. Illinois Natural History Survey, Champaign, IL. 27pp.
- Bellrose, F. C., F.L. Pavaglio, Jr., and D.W. Steffeck. 1979. *Waterfowl Populations and the Changing Environment of the Illinois River Valley*. Illinois Natural History Survey Bulletin 32(1): 1-54.
- Bertrand, W. A., R. L. Hite, and D. Day. 1996. Biological Stream Characterization (BSC): Biological Assessment of Illinois Stream Quality through 1993. Illinois Environmental Protection Agency, Springfield, Illinois. Contract Report IEPA/BOW/96-058, 44pp.
- Bhowmik, Nani G., M. Demissie, and C. Guo. 1982. *Waves Generated by River Traffic and Wind on the Illinois and Mississippi Rivers*. UILU-WRC-82-0167 WRC Research Report 167. University of Illinois at Urbana-Champaign Water Resources Center, Urbana, Illinois. March 1982.
- Bhowmik, Nani G. and M. Demissie. 1989. *Sedimentation in the Illinois River Valley and Backwater Lakes*. *Journal of Hydrology* 105: 187-195.
- Bhowmik, N. G., E. Bauer, W. C. Bogner and M. Demissie. 2001. Historical Sedimentation at the Mouths of Five Deltas on Peoria Lake. Contract Report 2001-08. Prepared for the Illinois Department of Natural Resources by the Illinois State Water Survey, Watershed Science Section, Champaign, IL. June 2001.

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Final

- Biedenharn, D. S., C. M. Elliott, and C. C. Watson. 1997. *The WES Stream Investigation and Streambank Stabilization Handbook*. U.S. Army Engineer Waterways Experiment Station (WES), Vicksburg, MS.
- Bier, J.A. (1980) Landforms of Illinois. Illinois State Geological Survey. Champaign, IL.
- Blackberry Creek Watershed Alternative Futures Analysis. 2003. Prepared by Conservation Design Forum for the Illinois Department of Natural Resources and Kane County Department of Natural Resources with funding for the U.S. Environmental Protection Agency. September 2003.
- Campbell, K. L., S. Kumar, and H. P. Johnson. 1972. *Stream Straightening Effects on Flood-Runoff Characteristics*. Transactions of the ASAE 15: 94-98.
- Changnon, S. A., Jr., D. Winstanley, and K. E. Kunkel. 1997. *An Investigation of Historical Temperature and Precipitation Data at Climate Benchmark Stations in Illinois*. ISWS C-184. Illinois State Water Survey, Champaign, IL.
- Chick, J. 2001. Illinois Natural History Survey, Brighton, IL, personal communication.
- Chick, J. H. and M. A. Pegg. 2001. *Invasive Carp in the Mississippi River Basin*. Science 292:2250-2251.
- Cochran, M. 2001. Illinois Department of Natural Resources, Havana, IL, personal communication.
- Critical Trends Assessment Program (CTAP). 1994. *The Changing Illinois Environment: Critical Trend, Volume 2: Water Resources*. Illinois Department of Natural Resources, Springfield, IL.
- Cummings, K. S. and R. V. Anderson. 2003. *Freshwater Mussels: Aquatic Canaries in the Coal Mine*. Wetland Matters 8(2): 1-7.
- Custer, J. E. and S. M. Custer. 1997. *An Investigation of Submerged Historic Properties in the Upper Mississippi River and Illinois Waterway*. Prepared by Steamboat Masters & Associates, Louisville, KY, as a Cultural Resources Subcontractor to American Resources Group, Ltd., Carbondale, IL (Cultural Resources Management Report No. 306, October), under Contract No. DACW25-93-D-0012, Delivery Order No. 0037, for the U.S. Army Corps of Engineers, Rock Island, IL.
- Dalrymple, K. 2000. Missouri Department of Conservation. Electronic mail communication with M. Schwar, USACE-MVR, December 14, 2000.
- Darmody, R. G. and J. C. Marlin. 2002. *Sediments and Sediment-Derived Soils in Illinois: Pedological and Agronomic Assessment*. Environmental Monitoring and Assessment, 77(2), 209-227.
- David, M.B. and L.E. Gentry. 2000. *Anthropogenic Inputs of Nitrogen and Phosphorus and Riverine Export for Illinois, USA*. Journal of Environmental Quality 29: 494-508.

*Illinois River Basin Restoration
Comprehensive Plan
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Final

- Demissie, M. and N. G. Bhowmik. 1986. *Peoria Lake Sediment Investigation*. State Water Survey Division, Surface Water Section and the University of Illinois, Champaign, IL, January, 1986.
- Demissie, M., L. Keefer and R. Xia. 1992 *Erosion and Sedimentation in the Illinois River Basin*. Illinois State Water Survey, Office of Sediment and Wetland Studies, Champaign, IL. June 1992.
- Demissie, Misganaw, Jaswinder Singh, H. Vernon Knapp, Patricia Saco and Yanqing Lian. 2003. *Hydrologic Model Development for the Illinois River Basin Using BASINS 3.0*. Prepared for the U.S. Army Corps of Engineers Rock Island District by the Illinois State Water Survey, Watershed Science Section. Illinois State Water Survey, Champaign, IL. June 2003.
- Demissie, M., R. Xia, L. Keefer, and N. Bhowmik. 2004. *Sediment Budget of the Illinois River*. Contract Report 2004-13 prepared for the U.S. Army Corps of Engineers Rock Island District by the Illinois State Water Survey, Champaign, IL. March 2004. 51 pp.
- Duan, Jennifer G. 2003. *Investigation of Flow Hydraulics and Sediment Transport Processes at the Confluence of the Kankakee and Iroquois Rivers with the EnSed2D Model*. Prepared for the U.S. Army Corps of Engineers Rock Island District by the Division of Hydrologic Sciences, Desert Research Institute, Las Vegas NV. January 16, 2003.
- Duke, M. L., J. Fowler, M. L. Schmidt, and A. C. Askew. 2000. *Dredging and Dewatering of Hazardous Impoundment Sediment Using the Dry Dredge™ and Geotubes*.
<http://geotecassociates.com/publications/WEDA00%20Ashland.pdf>
- Edwards, T. 1988. *A Seed of Hope Springs from Drought*. Peoria Journal Star, Peoria, IL. July 29, 1988.
- Erhlich, P. R. 1988. *The Loss of Diversity, Causes and Consequences*. Pages 19-27 in E.O. Wilson, editor. Biodiversity. National Academy Press, Washington, D.C. 521 pp.
- Fenneman, N.M. (1928) *Physiographic Boundaries Within the United States*. Annals of the Association of American Geographers 18(4): 261-353.
- Fischer, Wayne. 2005. Illinois PFW Coordinator, personal communication.
- Fitzgerald, J. A., J. R. Herkert, and J. D. Brawn. 2000. *Partners in Flight Bird Conservation Plan for the Prairie Peninsula*. American Bird Conservancy. www.PartnersInFlight.org
- Fox, J. L., P. L. Brezonik and M. A. Keirn. 1977. *Lake Drawdown as a Method of Improving Water Quality*. EPA-600/3-77-005. U.S. Environmental Protection Agency, Corvallis, OR. January 1977.
- Frazier, B. E., T. J. Naimo, and M. B. Sandheinrich. 1996. *Temporal and Vertical Distribution of Total Ammonia Nitrogen and Un-Ionized Ammonia Nitrogen in Sediment Pore Water From the Upper Mississippi River*. Environ. Toxicol. Chem.15:92-99.

*Illinois River Basin Restoration
Comprehensive Plan
With Integrated Environmental Assessment*

Final

- Fremling, C. R. and T. O. Claflin. 1984. *Ecological History of the Upper Mississippi River*. Pages 5–24 in Wiener, J. G., R. V. Anderson, and D. R. McConville, eds. *Contaminants in the Upper Mississippi River*. Proceedings of the 15th Annual Meeting of the Mississippi River Research Consortium. Butterworth Publishers, Boston, Massachusetts. 368 pp.
- Fremling, C. R., J. L. Rasmussen, R. E. Sparks, S. P. Cobb, C. F. Bryan, and T.O. Clafin. 1989. *Mississippi River Fisheries: A Case History*. Pages 309-351 in S.M. Adams, editor. Proceedings of the International Large River Symposium. Canadian Special Publication of Fisheries and Aquatic Sciences 105, Canadian Department of Fisheries and Oceans, Ottawa.
- Hajic, Edwin R. 2000 *Landform Sediment Assemblage (LSA) Units in the Illinois River Valley and the Lower Des Plaines River Valley, Vols. 1 and 2*. USACE, Rock Island District, Contract DACW25-93-D-0014, W.O. 0025, Illinois State Museum Society.
- Havera, S. P. 1993. *A Historical Perspective on Wetlands and Waterfowl Populations and Their Importance in the Illinois Valley*. Pages 101-111 in Abstract and Speaker Information: 1993 Governor's Conference on the Management of the Illinois River System. Fourth Biennial Conference, Peoria, IL.
- Havera, S. P. 1999. *Waterfowl of Illinois, Status and Management*. Illinois Natural History Survey Special Publication 21.
- Havera, S. P. and F. C. Bellrose. 1985. *The Illinois River: A Lesson To Be Learned*. Wetlands 4: 29-41.
- Havera, S. P., L. B. Suloway, and J. E. Hofmann. 1997. *Wetlands in the Midwest With Special Reference to Illinois*. Pages 88-104 in M.W. Schwartz, ed. *Conservation of Highly Fragmented Landscapes*. Chapman and Hall, New York.
- Heglund, P., J. Fischer, R. Gaugush, B. Ickes, B. Johnson, L. Robinson, J. Rogala, J. Saurer, and Y. Yin. 2004. *Summary of Monitoring Findings for Fiscal Year 2002, Long Term Resource Monitoring Program of the Upper Mississippi River System*. U.S. Geological Survey, Upper Midwest Environmental Sciences Center, La Crosse, WI.
- Heinz Center. 2002. *Dam Removal: Science and Decision Making*. The H. John Heinz III Center for Science, Economics and the Environment. Washington, DC.
- Herkert, J. 2003. *Mackinaw River Paired Watershed Study – Progress Report*. The Nature Conservancy, Peoria, IL. 4pp.
- Hilsenhoff, W. L. 1988. *Rapid Field Assessment of Organic Pollution with a Family Level Biotic Index*. Journal of the North American Benthological Society. 7:65-68.
- Horwitz, Richard J. 1978. *Temporal Variability Patterns and the Distributional Pattern of Stream Fishes*. Ecological Monographs 48: 307-321.
- Illinois Department of Agriculture (IDA). 2000. *2000 Illinois Soil Conservation Transect Survey Summary*. Bureau of Land and Water Resources, IDA, Springfield IL. September 2000.

*Illinois River Basin Restoration
Comprehensive Plan
With Integrated Environmental Assessment*

Final

- Ikenson, B. 2003. *The War Against Invasive Species*. Land and Water: 47: 32-35.
- Illinois Department of Energy and Natural Resources (IDENR). 1994. *The Changing Illinois Environment: Critical Trends*. Technical Report Volume 3: Ecological Resources. Illinois Department of Energy and Natural Resources, Springfield, IL, ILENR/RE-EA-94/05. 242 pp.
- Illinois Department of Natural Resources. 1999. *Illinois Streams Information System (ISIS)*. Illinois Department of Natural Resources, Springfield, IL.
- Illinois Department of Natural Resources. 2001. *Critical Trends in Illinois Ecosystems*. Critical Trends Assessment Program (CTAP). Illinois Department of Natural Resources, Springfield, IL. 112 pp.
- Iowa DNR. 2000. *An Evaluation of Winter Habitats Used By Bluegill, Black Crappie and White Crappie in Pool 13 of the Upper Mississippi River*. Study 7021 in Federal Aid to Fish Restoration Annual Performance Report - Mississippi River Investigations (1999-2000), Project No. F-160-R.
- Iowa DNR. 2003. *An Evaluation of Winter Habitats Used By Bluegill, Black Crappie and White Crappie in Pool 13 of the Upper Mississippi River*. Study 7021 in Federal Aid to Fish Restoration Annual Performance Report - Mississippi River Investigations (2001-2002), Project No. F-160-R.
- Jordan, W. R. III. 1988. *Ecological Restoration: Reflections On a Half-Century of Experience at the University of Wisconsin-Madison Arboretum*. Pages 311-316 in E.O. Wilson, editor. Biodiversity. National Academy Press, Washington, D.C. 521 pp.
- Karr, J.R., and D.R. Dudley. 1981. *Ecological Perspective On Water Quality Goals*. Environmental Management 5: 55-68.
- Karr, J. R., K. D. Fausch, P. L. Angermeier, P. R. Yant, and I. J. Schlosser. 1986. *Assessing Biological Integrity in Running Waters: A Methods and Its Rationale*. Illinois Natural History Survey Special Publication 5. Illinois Natural History Survey, Champaign, IL.
- Katopodis, C. 1992. *Introduction to Fishway Design*. Freshwater Institute Central and Arctic Region Department of Fisheries and Oceans. Winnipeg, Manitoba.
- Knox, J. C. 1977. *Human Impacts On Wisconsin Stream Channels*. Annals of the Association of American Geographers. 67(3) 323-342.
- Knox, J. C. 2001. *Agricultural Influence On Landscape Sensitivity in the Upper Mississippi River Valley*. Catena 42: 193-224.
- Knox, J. C. 2002. *Agriculture, Erosion and Sediment Yields*. In "The Physical Geography of North America." Edited by Anthony R. Orme. Oxford University Press, New York NY. pp. 482-500.
- Koel, T. M. and R. E. Sparks. 2002. *Historical Patterns of River Stage and Fish Communities As Criteria for Operations of Dams On the Illinois River*. River Research and Applications 18: 3-19.

*Illinois River Basin Restoration
Comprehensive Plan
With Integrated Environmental Assessment*

Final

- Kustra, B. 1997. Integrated Management Plan for the Illinois River Watershed Technical Report. Illinois River Strategy Team, Springfield IL. January 1997.
- Lane, J. J. and K. C. Jensen. 1999. Moist-Soil Impoundments for Wetland Wildlife. Technical Report EL-99-11, U.S. Army Engineer Research and Development Center, Vicksburg, MS.
- Larimore, R. W. and P. W. Smith. 1963. *The Fishes of Champaign County, Illinois, As Affected By 60 Years of Stream Changes*. Illinois Natural History Survey Bulletin 28(2): 299-382.
- Leighton, M. M., G. E. Ekblaw, and L. Horberg. 1948. Physiographic Divisions of Illinois. Illinois State Geological Survey, Report of Investigation 129, Urbana, IL.
- Lee, M. T. and J. B. Stall. *Sediment Conditions in Backwater Lakes Along the Illinois River*. Illinois State Water Survey, Urbana, IL. August 1976.
- Lerczac, T. V., R. E. Sparks, and K. D. Blodgett. 1994. The Long Term Illinois River Fish Population Monitoring Program. Illinois Natural History Survey, Center for Aquatic Ecology, Champaign, IL. Aquatic Ecology Technical Report 94/5. 105 pp.
- Leslie, M, G. K. Meffe, J. L. Hardesty, and D. L. Adams. 1996. *Conserving Biodiversity on Military Lands: A Handbook for Natural Resource Managers*. The Nature Conservancy, Arlington, VA.
- Likens, G.E. 1992. The ecosystem approach: its use and abuse. Ecology Institute, Oldendorf/Luhe, Germany.
- Lopinot, A.C. 1972. Channelized Streams and Ditches of Illinois. IDOC Division of Fisheries. Special Fisheries Report #35.
- Lubinski, K. 1999. *Floodplain River Ecology and the Concept of River Ecological Health*. Pages 2-1 to 2-12 in U.S. Geological Survey (USGS). 1999. Ecological Status and Trends of the Upper Mississippi River System 1998: A Report of the Long Term Resource Monitoring Program. U.S. Geological Survey, Upper Midwest Environmental Sciences Center, La Crosse, WI. LTRMP 99-T001. 236 pp.
- Luman, D., Smith, L., and Goldsmith, C. (2002) Surface Topography of Illinois, Illinois Map 11. Illinois State Geological Survey. Champaign, IL.
- Maher, R. 2001. Illinois Department of Natural Resources, Godfrey, IL, personal communication.
- Marlin, J. 1999. *Potential Use of Innovative Dredge Technology and Beneficial Use of Sediment for River Restoration*. In "Proceedings of the Seventh Governor's Conference on the Management of the Illinois River System. Special Report No. 25." Illinois Water Resources Center, University of Illinois at Urbana-Champaign. pp. 137-147.
- Marlin, J. 2001. *Backwater Restoration Opportunities: Illinois River*. In "Proceedings of the Eighth Governor's Conference on the Management of the Illinois River System." Special Report No. 27, Illinois Water Resources Center, University of Illinois at Urbana-Champaign. pp. 224--232.

*Illinois River Basin Restoration
Comprehensive Plan
With Integrated Environmental Assessment*

Final

- Marlin, J. C. 2002. *Evaluation of Sediment Removal Options and Beneficial Use of Dredged Material for Illinois River Restoration: Preliminary Report*. In "Proceedings of the Western Dredging Association Twenty-Second Technical Conference and Thirty-Fourth Texas A&M Dredging Seminar", June 12-15 2002.
- Marlin, J. C. 2003a. *Sediment Handling Demonstration at Lacon, Illinois, Using Concrete Pump and Conveyor Trucks*. Illinois Waste Management and Research Center, TR - 36. Champaign, IL.
- Marlin, J. C. 2003b. *Barge Transport of Illinois River Sediment from Peoria to Chicago*. Illinois Waste Management and Research Center, TR - 37. Champaign, IL.
- Meek, S. E. 1892. *A Report Upon the Fishes of Iowa, Based Upon Observations and Collections Made During 1889, 1890 and 1891*. Bulletin of the United States Fish Commission 10: 217-248.
- Meffe, G. K. and C. R. Carroll. 1994. *Principles of Conservation Biology*. Sinauer Associates, Inc., Sunderland, MA.
- Menzel, B. W., J. B. Barnum, and L. M. Antosch. 1984. *Ecological Alterations of Iowa Prairie-Agricultural Streams*. Iowa State Journal of Research 59(1): 5-30.
- Mills, H. B., W. C. Starrett, and F. C. Bellrose. 1966. *Man's Effect on the Fish and Wildlife of the Illinois River*. Illinois Natural History Survey Biological Notes 57. Urbana, IL.
- Miller, S., J. Higgins, and J. Perot. 1998. *The Classification of Aquatic Communities in the Illinois River Watershed and Their Use in Conservation Planning*. The Nature Conservancy of Illinois.
- Miller, S., K. Poiani, and M. Merrill. 1998. *Threats to the Illinois River Ecosystem*. The Nature Conservancy of Illinois.
- Miller, T. 2001. U.S. Army Corps of Engineers, St. Louis District. St. Louis, MO, personal communication.
- Mulvihill, W. F., and L. D. Cornish. 1929. *Flood Control Report: An Engineering Study of the Flood Situation in the State of Illinois*. Illinois Division of Waterways, Springfield, IL.
- Natural Resources Conservation Service (NRCS). 1997. *National Resources Inventory*. U.S. Department of Agriculture, Madison WI. Revised December 2000.
- Nelson, J. C., A. Redmond, and R. E. Sparks. 1994. *Impacts of Settlement On Floodplain Vegetation at the Confluence of the Illinois and Mississippi Rivers*. Transactions of the Illinois State Academy of Science 87(3&4):117-133.
- Nelson, J. C., L. Arndt, J. Rusher, and L. Robinson. 1996. *Presettlement and Contemporary Vegetation Patterns Along Upper Mississippi River Reaches 25 and 26*. U.S. Biological Resources Division, Land Use History of North America. Web Page <http://biology.usgs.gov/luhna/emtc/index.html>

*Illinois River Basin Restoration
Comprehensive Plan
With Integrated Environmental Assessment*

Final

- Nelson, J. C. and R. E. Sparks. 1998. *Forest Compositional Change at the Confluence of the Illinois and Mississippi Rivers*. Transactions of the Illinois State Academy of Science 91:33-46.
- Neves, R. J. 1993. *A State-of-the-Union Address*. Pages 1-10 in K.S. Cummings, A.C. Buchanan, and L.M. Koch, editors. Conservation and Management of Freshwater Mussels. Illinois Natural History Survey, Champaign, IL.
- Odgaard, A. Jacob. 1984. Bank Erosion Contribution to Stream Sediment Load. Report No. 280. Iowa Institute of Hydraulic Research, The University of Iowa, Iowa City, IA. August 1984.
- O'Hara, M. 2001. Illinois Natural History Survey, Havana, Illinois, personal communication.
- Olin, T. J., J. C. Fischenich, M. R. Palermo, and D. F. Hayes. 2000. *Wetlands Engineering Handbook*. ERDC/EL TR-WRP-RE-21.
- Pegg, M. 2001. Illinois Natural History Survey, Havana, Illinois, personal communication.
- Peterson, G. D., G. S. Cumming, S. R. Carpenter. 2003. *Scenario Planning: A Tool for Conservation in An Uncertain World*. Conservation Biology 17(2), 358-366.
- Phillips, A.C. and Schilts, W.W. (2001) *Geological History of the Illinois River Watershed*. In "Proceedings, 2001 Governor's Conference on the Management of the Illinois River System", Peoria, IL pp. 25-34. Champaign, IL.
- Pimentel, D., L. Lach, R. Zuniga, and D. Morrison. 2000. *Environmental and Economic Costs Associated With Non-Indigenous Species in the United States*. BioScience 50(1): 53-65.
- Poff, N. L. 1992. *Why Disturbances Can Be Predictable: A Perspective On the Definition of Disturbance in Streams*. Journal of the North American Benthological Society 11: 86-92.
- Poff, N. L. and J. V. Ward. 1989. *Implications of Streamflow Variability and Predictability for Lotic Community Structure: A Regional Analysis of Streamflow Patterns*. Canadian Journal of Fisheries and Aquatic Sciences 46: 1805-1818.
- Poff, N. L. and J. D. Allan. 1995. *Functional Organization of Stream Fish Assemblages in Relation to Hydrologic Variability*. Ecology 76: 606-627.
- Poff, N. L., J. D. Allan, M. B. Bain, J. R. Karr, K. L. Prestegard, B. D. Richter, R. E. Sparks, and J. C. Stromberg. 1997. *The Natural Flow Regime, A Paradigm for River Conservation and Restoration*. BioScience 47: 769-784.
- Post, S.L. and M.D. Wiant. 2004. *Illinois River Ecosystem Restoration Feasibility Study, Restoration Needs Assessment, Native Ecotype and Historic Change Assessment*. Illinois State Museum Society, Landscape History Program, Springfield, IL. Contract Report 2004-1543-12. 100 pp.
- Potter, K. W. 1991. *Hydrological Impacts of Changing Land Management Practices in a Moderate-Sized Agricultural Catchment*. Water Resources Research 27(5) 845-855.

*Illinois River Basin Restoration
Comprehensive Plan
With Integrated Environmental Assessment*

Final

- Raibley, P. T., K. S. Irons, T. M. O'Hara, K. D. Blodgett and R. E. Sparks. 1997. *Winter Habitats Used By Largemouth Bass in the Illinois River, a Large River-Floodplain Ecosystem*. North American Journal of Fisheries Management 17: 401-412.
- Ramamurthy, G. S., K. P. Singh, and M. L. Terstriep. 1989. Increased Durations of High Flows Along the Illinois and Mississippi Rivers: Trends and Agricultural Impacts (Final Report). Illinois State Water Survey, Champaign, IL. December 1989.
- Resh, V. H., A. V. Brown, A. P. Covich, M. E. Gurtz, H. W. Li, G. W. Minshall, S. R. Reice, A. L. Sheldon, J. B. Wallace and R. C. Wissmar. 1988. *The Role of Disturbance in Stream Ecology*. Journal of North American Benthological Society 7: 433-455.
- Rhoads, B. L. and E. E. Herricks. 1996. *Naturalization of Headwater Streams in Illinois: Challenges and Possibilities*. In "River Channel Restoration: Guiding Principles for Sustainable Projects." Edited by A. Brooks and F.D. Shields Jr. John Wile & Sons Ltd., New York. pp. 331-367.
- Richardson, R. E. 1921. *The Small Bottom and Shore Fauna of the Middle and Lower Illinois River and Its Connecting Lakes, Chillicothe to Grafton: Its Valuation; Its Sources of Food Supply; and Its Relation to the Fishery*. Illinois State Natural History Survey, Champaign, IL. Bulletin 13(15): 363-522.
- Richter, B. D., J. V. Baumgartner, J. Powell, and D. P. Braun. 1996. *A Method for Assessing Hydrologic Alteration Within Ecosystems*. Conservation Biology 10: 1163-1174.
- Rogers, S. and C. Theiling. 1999. *Submersed Aquatic Vegetation*. Pages 8-1 to 8-12 in U.S. Geological Survey (USGS). 1999. Ecological Status and Trends of the Upper Mississippi River System 1998: A Report of the Long Term Resource Monitoring Program. U.S. Geological Survey, Upper Midwest Environmental Sciences Center, La Crosse, WI. LTRMP 99-T001. 236 pp.
- Sallee, Dan. 2004. Illinois DNR, personal communication.
- Santucci, V. J. and S. R. Gephard. 2003. *Fox River Fish Passage Feasibility Study*. Max McGraw Wildlife Foundation. 352 pp.
- Sartz, R. S. 1970. *Effect of Land Use On the Hydrology of Small Watersheds in Southwestern Wisconsin*. International Association of Scientific Hydrology 96: 286-295.
- Shen, H. W. and P. Julien. 1993. *Erosion and Sediment Transport. Chapter 12*. In "Handbook of Hydrology." Edited by David R. Maidment. McGraw-Hill, Inc., New York. pp. 12.1-12.61.
- Shields, F. D., Jr., S. S. Knight, and C. M. Cooper. 1997. *Rehabilitation of Warmwater Stream Ecosystems Following Channel Incision*. Ecological Engineering 8: 93-116.
- Shields, F. D., Jr., R. R. Copeland, P. C. Klingeman, M. W. Doyle and A. Simon. 2003. *Design for Stream Restoration*. Journal of Hydraulic Engineering ASCE 129: 575-584.

*Illinois River Basin Restoration
Comprehensive Plan
With Integrated Environmental Assessment*

Final

- Shriner, F. A. and E. B. Copeland. 1904. *Deforestation and Creek Flow About Monroe, Wisconsin*. Botanical Gazette 37: 139-143.
- Smith, P. W. 1971. Illinois Streams: A Classification Based on Their Fishes and an Analysis of Factors Responsible for Disappearance of Native Species. Biological Notes No. 76. Illinois Natural History Survey, Urbana IL. November 1971.
- Soar, P. J. and C. R. Thorne. 2001. *Channel Restoration Design for Meandering Rivers*. ERDC/CHL CR-01-1. U.S. Army Corps of Engineers, Washington, DC.
- Sparks, R. E. 1984. *The Role of Contaminants in the Decline of the Illinois River: Implications for the Mississippi*. Pages 25 - 66 in J.G. Wiener, R.V. Anderson, and D.R. McConville eds. Contaminants in the Upper Mississippi River. Butterworth Publishers, Boston, MA.
- Sparks, R. E. 1992. *Risks of Altering the Hydrologic Regime of Large Rivers*. In "Predicting Ecosystem Risk.." Edited by John Cairns, Jr., B.R. Niederlehner and David R. Orvos. Princeton Scientific Publishing Co., Inc., Princeton, NJ. pp. 119-152.
- Sparks, R. E. 1995. *Need for Ecosystem Management of Large Rivers and Their Floodplains*. Bioscience 45:168-182.
- Sparks, R. E., P. B. Bayley, S. L. Kohler, and L. L. Osborne. 1990. *Disturbance and Recovery of Large Floodplain Rivers*. Environmental Management 14(5):699-709.
- Sparks, R. E. and P. E. Ross. 1992. Identification of toxic substances in the Upper Illinois River. Illinois Department of Energy and Natural Resources, Springfield, IL. Contract Report ILENR/RE-WR-92/07. 59 pp.
- Sparks, R. E., J. C. Nelson, and Y. Yin. 1998. *Naturalization of the Flood Regime in Regulated Rivers: The Case of the Upper Mississippi River*. Bioscience 48:706-720.
- Sparks, R. E., J. B. Braden, M. Demissie, P. Mitra, D. W. Schneider, D. C. White and R. Xia. 2000. *Technical Support of Public Decisions To Restore Floodplain Ecosystems: A Status Report On the Illinois River Project, USA*. In "New Approaches to River Management." Edited by A.J.M. Smits, P. H. Nienhuis and R.S.E.W. Leuven. Backhuys Publishers, Leiden, The Netherlands. pp. 225-247.
- Starrett, W. C. 1972. *Man and the Illinois River*. Pages 131-167 in R. T. Oglesby, C. A. Carlson, and J. A. McCann, eds. River Ecology and Man. Academic Press, New York. 465pp.
- Stiff, B.J. (2000) Surficial Deposits of Illinois. Open file Series 2000-7. Illinois State Geological Survey. Champaign, IL.
- Szafoni, D. 2001. Illinois Natural History Survey, Champaign, IL.
- Talkington, L. M. 1991. The Illinois River: Working for Our State. Illinois State Water Survey.

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Final

- Theiling, C. H. 1995. *Habitat Rehabilitation On the Upper Mississippi River*. Regulated Rivers: Research and Management 11:227–238.
- Theiling, C. H. 1996. *An Ecological Overview of the Upper Mississippi River System: Implications for Postflood Recovery and Ecosystem Management*. Pages 3–28 in D. L. Galat, and A. G. Frazier, eds. Overview of River-Floodplain Ecology in the Upper Mississippi River Basin, Volume 3 of J. A. Kelmelis, ed. Science for Floodplain Management Into the 21st Century. U.S. Government Printing Office, Washington, D.C.
- Theiling, C. 1999. *River Geomorphology and Floodplain Features*. Pages 4-1 to 4-21 in U.S. Geological Survey (USGS). 1999. Ecological Status and Trends of the Upper Mississippi River System 1998: A Report of the Long Term Resource Monitoring Program. U.S. Geological Survey, Upper Midwest Environmental Sciences Center, La Crosse, WI. LTRMP 99-T001. 236 pp.
- Theiling, C., C. Korschgen, H. De Haan, T. Fox, J. Rohweder, and L. Robinson. 2000. Habitat Needs Assessment for the Upper Mississippi River System: Technical Report. Contract Report prepared for U.S. Army Corps of Engineers, St. Louis District, St. Louis, MO. 248 pp.
- The Nature Conservancy of Illinois. 1998. Illinois River Site Conservation Plan.
- Thomas, L. 1999. Monitoring long-term population change: why are there so many analysis methods? Ecology 77: 49-58.
- Todd, C. R. and M. A. Burgman. 1998. *Assessment of Threat and Conservation Priorities Under Realistic Levels of Uncertainty and Reliability*. Conservation Biology 12(5), 966-974.
- Upper Mississippi River and Illinois Waterway Cumulative Effects Study, WEST Consultants, Inc., Bellevue, WA. June 2000.
- U.S. Army Corps of Engineers (USACE). 1981. The Streambank Erosion Control Evaluation and Demonstration Act of 1974. Final Report to Congress.
- USACE. 1983. EM 1110-2-5025 - Dredging and Dredged Material Disposal. US Army Corps of Engineers, Washington, DC.
- USACE. 1987a. EM 1110-2-5026 - Dredging and Dredged Material Disposal. US Army Corps of Engineers, Washington, DC.
- USACE. 1987b. EM 1110-2-5027 - Dredging and Dredged Material Disposal. US Army Corps of Engineers, Washington, DC.
- USACE. 1996. *Upper Mississippi River Basin Illinois Waterway Nine-Foot Channel Master Water Control Manual*. U.S. Army Corps of Engineers Rock Island District, Rock Island IL. October 1987, Revised August 1996.

*Illinois River Basin Restoration
Comprehensive Plan
With Integrated Environmental Assessment*

Final

- USACE. 2003a. *An Evaluation of Sedimentation Rates Between 1903 and 2001 for 4 Backwater Lakes on the Illinois River* (Meadow Lake, Wightman Lake, Babbs Slough, and Sawyer Slough). Rock Island District, Rock Island, IL. December 2003.
- USACE. 2003b. Peoria Riverfront Development, Illinois (Ecosystem Restoration). Feasibility Study with Integrated Environmental Assessment. Rock Island District, Rock Island, IL. March 2003.
- USACE Planning Associates Class of 2003. 2003. Monitoring and Adaptive Management.
- USACE. 2004a. Illinois River Ecosystem Restoration Study Water Level Management Analysis. Rock Island District, Rock Island, IL. January 21, 2004.
- USACE. 2004b. UMR-IWW System Navigation Feasibility Study, Feasibility Report. Rock Island District, St. Paul District, and St. Louis District.
- USACE. 2004. Report to Congress. Upper Mississippi River System Environmental Management Program. Rock Island District, Rock Island, IL. September 2004.
- USACE. 2005. ENV Report 53. *Water Level Management Opportunities for Ecosystem Restoration on the Upper Mississippi River and the Illinois Waterway. Interim Report for the Upper Mississippi River-Illinois Waterway System Navigation Study*. U.S. Army Corps of Engineers Rock Island, St. Louis, and St. Paul Districts, Rock Island, IL, St. Louis, MO, and St. Paul, MN. April, 2005.
- U.S. Environmental Protection Agency. 1999. Consideration of Cumulative Impacts in EPA Review of NEPA Documents. EPA 315-R-99-002, May 1999.
- U.S. Geological Survey (USGS). 1989. Aerial Photo Interpretation.
- USGS. 1999. *Ecological Status and Trends of the Upper Mississippi River System 1998: A Report of the Long Term Resource Monitoring Program*. U.S. Geological Survey, Upper Midwest Environmental Sciences Center, La Crosse, WI. LTRMP 99-T001. 236 pp.
- Ward, J. V. 1999. *Biodiversity of Floodplain River Ecosystems: Ecotones and Connectivity*. Regulated Rivers: Research and Management 15: 125-139.
- Watson, C. C. and D. S. Biedenharn. 1999. *Design and Effectiveness of Grade Control Structures in Incised River Channels of North Mississippi, USA*. In "Incised River Channels: Processes, Forms, Engineering and Management." Edited by Stephen E. Darby and Andrew Simon. John Wiley & Sons, New York. pp. 395-422.
- Weiner, J. G. 1997. Sediment-Related Investigations at the Upper Mississippi Science Center. Proceedings of the U.S. Geological Survey Sediment Workshop, February 4-7, 1997.
- West Consultants, Inc. Upper Mississippi River and Illinois Waterway Cumulative Effects Study. Volume 1: Geomorphic Assessment. June 2000.

*Illinois River Basin Restoration
Comprehensive Plan
With Integrated Environmental Assessment*

Final

- Weitzell, R.E., M.L. Khoury, P. Gagnon, B. Schreurs, D. Grossman, and J. Higgins. 2003. *Conservation Priorities for Freshwater Biodiversity in the Upper Mississippi River Basin*. Nature Serve and The Nature Conservancy.
- Whitney, S. 2001. Illinois Natural History Survey, Long Term Resource Monitoring Program, La Grange Field Station, Havana, Illinois, personal communication.
- Wilcox, D. B. and E. L. Stefanik, D. E. Kelner, M. A. Cornish, D. J. Johnson, I. J. Hodgins, S. J. Zigler, B. L. Johnson. 2004. *Improving Fish Passage Through Navigation Dams On the Upper Mississippi River System*. Interim Report for the Upper Mississippi River - Illinois Waterway Navigation Study. 96pp.
- Wilhere, G. F. 2002. *Adaptive Management in Habitat Conservation Plans*. Conservation Biology 16(1), 20-29.
- Wilson, D. M., T. J. Naimo, J. G. Wiener, R. V. Anderson, M. B. Sandheinrich, and R. E. Sparks. 1995. *Declining Populations of the Fingernail Clam Musculium transversum in the Upper Mississippi River*. Hydrobiologica 304:209-220.
- Wilson, E.O. 1988. Biodiversity. Harvard University, Editor; National Academy of Sciences/Smithsonian Institution. 538 pages
- Wilson, E. O. 1992. *The Diversity of Life*. The Belknap Press of Harvard University Press, Cambridge, MA. 424 pages.
- Woermann, J. W. 1902-1904. Map of the Secondary Triangulation System of the Illinois and Des Plaines Rivers from Chicago, Illinois, to the Mouth of the Illinois River. Corps of Engineers, Chicago Office, U.S. Army.
- Xue, Y., M.B. David, L.E. Gentry, and D.A. Kovacic. 1998. *Kinetics and Modeling Dissolved Phosphorus Export From a Tile-Drained Agricultural Watershed*. Journal of Environmental Quality 27: 917-922.
- Yin, Y. 1999. *Floodplain Forests*. Pages 9-1 to 9-9 in U.S. Geological Survey. 1999. Ecological Status and Trends of the Upper Mississippi River System 1998: A Report of the Long Term Resource Monitoring Program. U.S. Geological Survey, Upper Midwest Environmental Sciences Center, La Crosse, WI. LTRMP 99-T001. 236 pp.
- Yin Y., H. A. Langrehr, T. Blackburn, M. Moore, R. Cosgriff, and T. Cook. 2004. 2002 Annual Status Report: Submersed and Rooted Floating-leaf Vegetation in Pools 4, 5, 7, 8, 12, 13, and 26 of the Upper Mississippi River, and Alton and La Grange Pools of the Illinois River. U.S. Geological Survey, Upper Midwest Environmental Sciences Center, La Crosse, WI.
- Zedler, J. B. 1988. *Restoring Diversity in Salt Marshes; Can We Do It?* Pages 317-324 in E.O. Wilson, editor. Biodiversity. National Academy Press, Washington, D.C. 521 pp.