



**National Water-Quality Assessment
(NAWQA) Program**

Bibliography

January 7, 2002

National Water-Quality Assessment Program Bibliography

Table of Contents

NEW PUBLICATIONS FROM THE NAWQA PROGRAM.....	1
NAWQA STUDY UNITS	
Northeastern Region	
Allegheny and Monongahela Basins.....	5
Connecticut, Housatonic, and Thames River Basins.....	6
Delaware River Basin.....	8
Delmarva Peninsula.....	9
Great and Little Miami River Basins.....	11
Hudson River Basin.....	12
Kanawha-New River Basin.....	14
Kentucky River Basin.....	16
Lake Erie-Lake Saint Clair Drainage.....	17
Long Island & New Jersey Coastal Drainages.....	18
Lower Illinois River Basin.....	20
Lower Susquehanna River Basin.....	21
New England Coastal Basins.....	23
Potomac River Basin.....	24
Upper Illinois River Basin.....	26
Western Lake Michigan Drainage Basin.....	29
White River Basin.....	33
Southeastern Region	
Albemarle-Pamlico Drainage.....	35
Apalachicola-Chattahoochee-Flint River Basin.....	37
Georgia-Florida Coastal Plain.....	42
Lower Tennessee River Basin.....	44
Mississippi Embayment.....	45
Mobile River Basin.....	46
Santee Basin & Coastal Drainages.....	47
Southern Florida.....	49
Upper Tennessee River Basin.....	50
Central Region	
Acadian-Pontchartrain.....	51
Central Oklahoma Aquifer.....	52
Central Nebraska.....	54
Eastern Iowa Basins.....	57
High Plains Ground-Water Study.....	59
Lower Kansas River Basin.....	60
Northern Rockies Intermontane Basins.....	62
Ozark Plateaus.....	63
Red River of the North Basin.....	65
Rio Grande Valley.....	68
South Central Texas.....	70
Southern High Plains.....	71
South Platte River Basin.....	72
Trinity River Basin.....	75
Upper Colorado River Basin.....	78
Upper Mississippi River Basin.....	81
Yellowstone River Basin.....	85
Western Region	
Carson River Basin.....	86
Central Arizona Basins.....	87
Central Columbia Plateau.....	89
Cook Inlet Basin.....	91
Great Salt Lake Basins.....	92
Nevada Basin and Range.....	93
Oahu.....	95
Puget Sound Basin.....	96
Sacramento River Basin.....	98
San Joaquin-Tulare Basins.....	100
Southern California Basins.....	101
Upper Snake River Basin.....	104

Willamette Basin.....	107
Yakima River Basin.....	109
NATIONAL SYNTHESIS	
Program Design.....	111
Ecology.....	112
Microbiology.....	113
Nutrients and Sediments.....	114
Nutrients--SPARROW Modeling.....	116
Pesticides.....	117
Trace Elements.....	121
Volatile Organic Compounds.....	123
National Summary Reports.....	128
OUTREACH.....	129
PROTOCOLS.....	130
OTHER REPORTS FROM THE NAWQA PROGRAM.....	132
NAWQA-RELATED REPORTS.....	135
NAWQA-RELATED OUTSIDE REPORTS.....	136

NEW PUBLICATIONS FROM THE NAWQA PROGRAM

(Reports published from October 2, 2001 - January 7, 2002)

NAWQA STUDY UNITS:

NORTHEASTERN REGION:

Lake Erie-Lake Saint Clair Drainage

Rheaume, S.J., Button, D.T., Myers, D.N., and Hubbell, D.L., 2001, Areal distribution and concentrations of contaminants of concern in surficial streambed and lakebed sediments, Lake Erie-Lake St. Clair Basin, 1990-97: U.S. Geological Survey Water-Resources Investigations Report 00-4200, 60 p.

Western Lake Michigan Drainage Basin

Stewart, Jana S., 1994, Assessment of alternative methods for stratifying landsat TM data to improve land cover classification accuracy across areas with physiographic variation: University of Wisconsin-Madison, Master of Science thesis, 159 p.

SOUTHEASTERN REGION:

Georgia-Florida Coastal Plain

Berndt, Marian P., and Hatzell, Hilda H., 2001, Does diazinon pose a threat to a neighborhood stream in Tallahassee, Florida? U.S. Geological Survey Fact Sheet FS-143-00, 4 p.

Santee Basin & Coastal Drainages

Abrahamsen, T.A., 2001, Ecological data collected in the Santee River Basin and Coastal Drainages, North and South Carolina, 1996-1998: U.S. Geological Survey Open-File Report 01-352, 83 p.

Southern Florida Drainages

Miller, R.L., and McPherson, B.F., 2001, Occurrence and distribution of contaminants in bottom sediment and water of the Barron River Canal, Big Cypress National Preserve, Florida, October 1998: Florida Scientist, v. 64, no. 1, p. 1-19.

CENTRAL REGION

Eastern Iowa Basins

Kalkhoff, Stephen J., Barnes, Kimberlee K., Becher, Kent D., Savoca, Mark E., Schnoebelen, Douglas J., Sadorf, Eric M., Porter, Stephen D., Sullivan, Daniel J., and Creswell, John, 2001, Water quality in the Eastern Iowa Basins: Integrated Crop Management IC-486(23), p. 185-186.

High Plains Ground-Water Study

Bruce, Breton, W., and Oelsner, Gretchen P., 2001, Contrasting water quality from paired domestic/public supply wells, Central High Plains: Journal of the American Water Resources Association, vol. 37, no. 5, p. 1389-1403.

Northern Rockies Intermontane Basins

MacCoy, Dorene E., 2001, PCBs in tissue of fish from the Spokane River, Washington, 1999: U.S. Geological Survey Fact Sheet FS-067-01, 6 p.

WESTERN REGION:

Cook Inlet Basin

Kyle, Rebecca E., and Brabets, Timothy P., 2001, Water temperature of streams in the Cook Inlet Basin, Alaska and implications of climate change: U.S. Geological Survey Water-Resources Investigations Report 00-4109, 24 p.

Great Salt Lake Basins

Giddings, Elise M., Hornberger, Michelle I., and Hadley, Heidi K., 2001, Trace-metal concentrations in sediment and water and health of aquatic macroinvertebrate communities of streams near Park City, Summit County, Utah: U.S. Geological Survey Water-Resources Investigations Report 01-4213, 22 p.

Puget Sound Basin

Tesoriero, Anthony J., Inkpen, Emily L., and Voss, Frank D., 1998, Assessing groundwater vulnerability using logistic regression: Source Water Assessment and Protection 98, A Technical Conference April 28-20, 1998, p. 157-165.

Sacramento River Basin

Domagalski, Joseph, 2001, Mercury and methylmercury in water and sediment of the Sacramento River Basin, California: Applied Geochemistry 16, p. 1677-1691.

San Joaquin-Tulare Basins

Leland, Harry V., Brown, Larry R., and Mueller, David K., 2001, Distribution of algae in the San Joaquin River, California, in relation to nutrient supply, salinity and other environmental factors: Freshwater Biology, vol. 46, p. 1139-1167.

Southern California Basins

Shelton, Jennifer L., Burow, Karen R., Belitz, Kenneth, Dubrovsky, Neil M., Land, Michael, and Gronberg, JoAnn, 2001, Low-level volatile organic compounds in active public supply wells as ground-water tracers in the Los Angeles physiographic basin, California, 2000: U.S. Geological Survey Water-Resources Investigations Report 01-4188, 29 p.

NATIONAL SYNTHESIS REPORTS:

Clawges, Rick, Rowe, Barbara, and Zogorski, John, 2001, National survey of MTBE and other VOCs in community drinking-water sources: U.S. Geological Survey Fact Sheet FS-064-01, 4 p.

Gilliom, Robert J., 2001, Pesticides in the hydrologic system-- what do we know and what's next? Hydrological Processes, vol. 15, p. 3197-3201.

- Ivahnenko, Tamara, Grady, Stephen J., and Delzer, Gregory C., 2001, Design of a national survey of methyl tert-butyl ether and other volatile organic compounds in drinking-water sources: U.S. Geological Survey Open-File Report 01-271, 42 p.
- Larson, Steven J., and Gilliom, Robert J., 2001, Regression models for estimating herbicide concentrations in U.S. streams from watershed characteristics: Journal of the American Water Resources Association, vol. 37, no. 5, p. 1349-1367.
- McMahon, Gerard, Gregonis, Steven M., Waltman, Sharon W., Omernik, James M., Thorson, Thor D., Freeouf, Jerry A., Rorick, Andrew H., and Keys, James E., 2001, Developing a spatial framework of common ecological regions for the conterminous United States: Environmental Management, vol. 28, no. 3, p. 293-316.
- Munn, Mark D., and Gilliom, Robert J., 2001, Pesticide toxicity index for freshwater aquatic organisms: U.S. Geological Survey Water-Resources Investigations Report 01-4077, 55 p. (released as a web-only report URL: <http://pubs.water.usgs.gov/wri014077/>)
- Zogorski, John S., Moran, Michael J., and Hamilton, Pixie A., 2001, MTBE and other volatile organic compounds--New findings and implications on the quality of source waters used for drinking-water supplies: U.S. Geological Survey Fact Sheet FS-105-01, 2 p.

Other NAWQA Reports:

- Daukantas, Patricia, 2001, Easy mapping, WEB viewer makes data warehouse simpler for everyone: Government Computer News, vol. 20, number 32, p. 27-28.
- Wiseth, Kelli, 2001, <finding> meaning: Oracle, September/October 2001, p. 78-79.

NORTHEASTERN REGION STUDY UNITS

Allegheny and Monongahela Basins

Circulars:

Anderson, Robert M., Beer, Kevin M., Buckwalter, Theodore F., Clark, Mary E., McAuley, Steven D., Sams III, James I., Williams, Donald R., 2001, Water quality in the Allegheny and Monongahela River Basins, Pennsylvania, West Virginia, New York, and Maryland, 1996-98: U.S. Geological Survey Circular 1202, 32 p.

Fact Sheets:

McAuley, Steven D., 1995, National Water-Quality Assessment Program--The Allegheny-Monongahela River Basin: U.S. Geological Survey Fact Sheet 137-95, 2 p.

Open-File Reports:

McAuley, S.D., Brown, J.B., Sams III, J. I., 1997, National Water-Quality Assessment Program--The Allegheny-Monongahela River Basin: U.S. Geological Survey Open-File Report 97-246, 6 p.

Water-Resources Investigations Reports:

Sams III, James I., and Beer, Kevin M., 2000, Effects of coal-mine drainage on stream water quality in the Allegheny and Monongahela Basins, sulfate transport and trends: U.S. Geological Survey Water-Resources Investigations Report 99-4208, 17 p.

Williams, Donald R., and Clark, Mary E., 2001, Nutrients and organic compounds in Deer Creek and South Branch Plum Creek in Southwestern Pennsylvania, April 1996 through September 1998: U.S. Geological Survey Water-Resources Investigations Report 00-4061, 47 p.

Williams, Donald R., Clark, Mary E., and Brown, Juliane B., 1999, Stream water quality in coal mined areas of the Lower Cheat River Basin, West Virginia and Pennsylvania, during low flow conditions, July 1997: U.S. Geological Survey Water-Resources Investigations Report 98-4258, 8 p.

Connecticut, Housatonic, and Thames River Basin

Circulars:

Garabedian, S.P., Coles, J.F., Grady, S.J., Trench, E.C.T., and Zimmerman, M.J., 1998, Water quality in the Connecticut, Housatonic, and Thames River Basins, Connecticut, Massachusetts, New Hampshire, New York, and Vermont, 1992-95: U.S. Geological Survey Circular 1155, 32 p.

Fact Sheets:

Grady, Stephen J., 1997, Volatile organic compounds in ground water in the Connecticut, Housatonic, and Thames River Basins, 1993-1995: U.S. Geological Survey Fact Sheet FS-029-97, 6 p.

Zimmerman, Marc J., 1997, Trends in nitrogen and phosphorus concentrations in southern New England streams, 1974-92: U.S. Geological Survey Fact Sheet FS-001-97, 4 p.

Open-File Reports:

Coles, James F., 1996, Organochlorine compounds and trace elements in fish tissue and ancillary data for the Connecticut, Housatonic, and Thames River Basins Study Unit, 1992-94: U.S. Geological Survey Open-File Report 96-358, 26 p.

Grady, S.J., and Garabedian, S.P., 1991, National Water-Quality Assessment Program--The Connecticut River and Long Island Sound Coastal Rivers: U.S. Geological Survey Open-File Report 91-159, 2 p.

Harris, Sandra L., 1997, Inorganic and organic constituents and grain-size distribution in streambed sediment and ancillary data for the Connecticut, Housatonic, and Thames River Basins Study Unit, 1992-94: U.S. Geological Survey Open-File Report 96-397, 39 p.

Water-Resources Investigations Reports:

Breault, Robert, F., and Harris, Sandra L., 1997, Geographical distribution and potential for adverse biological effects of selected trace elements and organic compounds in streambed sediment in the Connecticut, Housatonic, and Thames River Basins, 1992-94: U.S. Geological Survey Water-Resources Investigations Report 97-4169, 24 p.

Coles, James F., 1998, Organochlorine compounds in fish tissue from the Connecticut, Housatonic, and Thames River Basins Study Unit, 1992-94: U.S. Geological Survey Water-Resources Investigations Report 98-4075, 21 p.

Grady, Stephen J., and Mullaney, John R., 1998, Natural and human factors affecting shallow water quality in surficial aquifers in the Connecticut, Housatonic, and Thames River Basins: U.S. Geological Survey Water-Resources Investigations Report 98-4042, 81 p.

Mullaney, John R., and Grady, Stephen J., 1997, Hydrogeology and water quality of a surficial aquifer underlying an urban area, Manchester, Connecticut: U.S. Geological Survey Water-Resources Investigations Report 97-4195, 40 p.

Mullaney, John R., and Zimmerman, Marc J., 1997, Nitrogen and pesticide concentrations in an agricultural basin in north-central Connecticut: U.S. Geological Survey Water-Resources Investigations Report 97-4076, 13 p.

Robinson Jr., Gilpin R., Peper, John D., Steeves, Peter A., and DeSimone, Leslie A., 1999, Lithogeochemical character of the near-surface bedrock in the Connecticut, Housatonic, and Thames River Basins: U.S. Geological Survey Water-Resources Investigations Report 99-4000, CD ROM.

Trench, Elaine C. Todd, 2000, Nutrient sources and loads in the Connecticut, Housatonic, and Thames River Basins: U.S. Geological Survey Water-Resources Investigations Report 99-4236, 66 p.

Zimmerman, Marc J., 1999, Pesticides in surface water in the Connecticut, Housatonic, and Thames River Basins, 1992-95: U.S. Geological Survey Water-Resources Investigations Report 98-4247, 83 p.

Zimmerman, Marc J., Grady, Stephen J., Todd Trench, Elaine C., Flanagan, Sarah M., and Nielsen, Martha G., 1996, Water-quality assessment of the Connecticut, Housatonic, and Thames River Basins Study Unit: Analysis of available data on nutrients, suspended sediments, and pesticides, 1972-92: U.S. Geological Survey Water-Resources Investigations Report 95-4203, 162 p.

Articles and Papers:

Coles, James F., 1999, Length-age relations and PCB content of mature white suckers from the Connecticut and Housatonic River Basins: *Northeastern Naturalist*, 6(3), p. 263-275.

Delaware River Basin

Fact Sheets:

Fischer, Jeffrey M., 1999, National Water-Quality Assessment Program--Delaware River Basin: U.S. Geological Survey Fact Sheet FS-056-99, 6 p.

Delmarva Peninsula

Circulars:

Hamilton, P.A., and Shedlock, R.J., 1992, Are fertilizers and pesticides in the ground water--A case study of the Delmarva Peninsula, Delaware, Maryland, and Virginia: U.S. Geological Survey Circular 1080, 16 p.

Open-File Reports:

Bachman, L.J., Shedlock, R.J., and Phillips, P.J., 1987, Ground-water-quality assessment of the Delmarva Peninsula, Delaware, Maryland, and Virginia: Project Description: U.S. Geological Survey Open-File Report 87-112, 18 p.

Hamilton, P.A., Denver, J.M., Phillips, P.J., and Shedlock, R.J., 1993, Water-quality assessment of the Delmarva Peninsula, Delaware, Maryland, and Virginia--Effects of agricultural activities on, and distribution of, nitrate and other inorganic constituents in the surficial aquifer: U.S. Geological Survey Open-File Report 93-40, 87 p. (pending publication as Water-Supply Paper 2355-C)

Hamilton, P.A., Shedlock, R.J., and Phillips, P.J., 1991, Ground-water-quality assessment of the Delmarva Peninsula, Delaware, Maryland, and Virginia: Analysis of available water-quality data through 1987: U.S. Geological Survey Open-File Report 89-34, 71 p.

Water-Supply Papers:

Hamilton, P.A., Shedlock, R.J., and Phillips, P.J., 1991, Ground-water-quality assessment of the Delmarva Peninsula, Delaware, Maryland, and Virginia: Analysis of available water-quality data through 1987: U.S. Geological Survey Water-Supply Paper 2355-B, 65 p.

Shedlock, Robert J., Denver, Judith M., Hayes, Martha A., Hamilton, Pixie A., Koterba, Michael T., Bachman, L. Joseph, Phillips, Patrick J., and Banks, William S.L., 1999, Water-quality assessment of the Delmarva Peninsula, Delaware, Maryland, and Virginia: Results of investigations, 1987-91: U.S. Geological Survey Water-Supply Paper 2355-A, 41 p.

Articles and Papers:

Ator, Scott W., 2000, Relating shallow ground-water quality to surficial hydrogeology in the Mid-Atlantic Coastal Plain: Conference Proceedings--NWQMC National Monitoring Conference 2000, Austin, Texas, p. 409-423.

Bachman, L.J., Zynjuk, L.D., and Phillips, P.J., 1992, The significance of hydrologic landscapes in estimating nitrogen loads in base flow to estuarine tributaries of Chesapeake Bay: EOS, Transactions, American Geophysical Union, vol. 73, no. 14, Spring Meeting Supplement, p. 113.

Böhlke, J.K., and Denver, J.M., 1995, Combined use of groundwater dating, chemical, and isotopic analyses to resolve the history and fate of nitrate contamination in two agricultural watersheds, Atlantic coastal plain, Maryland: Water Resources Research, vol.31, no. 9, pages 2319-2339.

Denver, J.M., 1991, Groundwater-sampling network to study agrochemical effects on water quality, *in* The Unconfined Aquifer in Groundwater Residue Sampling Design: Washington, D.C., American Chemical Society, Ch. 7 p. 139-149.

- Dunkle, S.A., Plummer, L.N., Busenberg, E., Phillips, P.J., Denver, J.M., Hamilton, P.A., Michel, R.L., and Coplen, T.B., 1993, Chlorofluorocarbons (CCl₃F and CCl₂F₂) as dating tools and hydrologic tracers in shallow groundwater of the Delmarva Peninsula, Atlantic Coastal Plain, United States: *Water Resources Research*, vol. 29, no. 12, p. 3837-3860.
- Hamilton, P.A., 1992, National Water-Quality Assessment: Public outreach and involvement: *U.S. Geological Survey Yearbook, Fiscal Year 1992*, p.42-45.
- Hamilton, P.A., and Shedlock, R.J., 1989, Relations between land use and nitrate concentrations in shallow ground water, Delmarva Peninsula: *U.S. Geological Survey Yearbook, Fiscal Year 1989*, p. 38-41.
- Hamilton, P.A., Welch, A.H., Christenson, S.C., and Alley W.M., 1993, Uses and limitations of existing ground-water-quality data *in* Alley, W.M., ed., 1993, *Regional Ground-Water Quality*: New York, Van Nostrand Reinhold, p. 613-622.
- Koterba, M.T., Banks, W.S., and Shedlock, R.J., 1993, Pesticides in ground water in the Delmarva Peninsula: *Journal of Environmental Quality*, vol. 22, no. 3, p. 500-518.
- Koterba, M.T., and Shedlock, R.J., 1991, Regional and targeted ground-water-quality networks in the Delmarva Peninsula, Delaware, Maryland and Virginia: *American Chemical Society Symposium Series 465*, p. 110-138.
- Koterba, M.T., Shedlock, R.J., Bachman, L.J., and Phillips, P.J., 1990, Regional and targeted groundwater quality networks in the Delmarva Peninsula, in groundwater residue sampling design: *American Chemical Society, Chapter 6*, p. 110-138.
- Phillips, P.J., 1990, Regional water-quality investigation and the ecology of a rare plant species on the Delmarva Peninsula: *U.S. Geological Survey, WRD Ecology Newsletter*, no. 3, p. 1-2.
- Phillips, P.J., Denver, J.M., Shedlock, R.J., and Hamilton, P.A., 1993, Effect of forested wetlands on nitrate concentrations in ground water and surface water on the Delmarva Peninsula: *Wetlands* vol. 13, no. 2, p. 75-83.
- Phillips, P.J., Shedlock, R.J., and Hamilton, P.A., 1992, National Water-Quality Assessment Program activities on the Delmarva Peninsula in parts of Delaware, Maryland, and Virginia, *in* Gohn, G.S., ed., *Proceedings of the 1988 U.S. Geological Survey Workshop on the Geology and Geohydrology of the Atlantic Coastal Plain*: *U.S. Geological Survey Circular 1059*, p. 75-78.
- Phillips, P.J., and Shedlock, R.J., 1993, Hydrology and chemistry of ground water and seasonal ponds in the Atlantic Coastal Plain in Delaware, USA: *Journal of Hydrology*, vol. 141, p. 157-178.
- Reilly, T.E., Plummer, L.N., Phillips, P.J., Busenburg, Eurybiades, 1994, The use as simulation and multiple environmental tracers to quantify groundwater flow in a shallow aquifer: *Water Resources Research*, vol. 30, no. 2, p. 421-433.
- Shedlock, R.J., 1993, The Delmarva study: *Geotimes*, December, 1993, vol. 38, no. 12, p. 12-14.
- Shedlock, R.J., Hamilton, P.A., Denver, J.M., and Phillips, P.J., 1993, Multiscale approach to regional ground-water-quality assessment of the Delmarva Peninsula, *in* Alley, W.M., ed., *Regional Ground-Water Quality*: New York, Van Nostrand Reinhold, p. 563-587.

Great and Little Miami River Basins

Fact Sheets:

Rowe, Gary L., and Baker, Nancy T., 1997, National Water-Quality Assessment Program--Great and Little Miami River Basins: U.S. Geological Survey Fact Sheet FS-117-97, 4 p.

Water-Resources Investigations Reports:

Harrington, Stephanie, 1999, Occurrence and distribution of fish species in the Great and Little Miami River Basins, Ohio and Indiana, Pre-1900 to 1998: U.S. Geological Survey Water-Resources Investigations Report 99-4198, 15 p.

Debrewer, Linda M., Rowe, Gary L., Reutter, David C., Moore, Rhett C., Hambrook, Julie A., and Baker, Nancy T., 2000, Environmental setting and effects on water quality in the Great and Little Miami River Basins, Ohio and Indiana: U.S. Geological Survey Water-Resources Investigations Report 99-4201, 98 p.

Hudson River Basin

Circulars:

Wall, Gary R., Riva-Murray, Karen, and Phillips, Patrick J., 1998, Water quality in the Hudson River Basin, New York and adjacent states, 1992-95: U.S. Geological Survey Circular 1165, 32 p.

Fact Sheets:

U.S. Geological Survey, 1996, National Water-Quality Assessment (NAWQA)--Ground-water sampling program of the Hudson River Basin Study: U.S. Geological Survey Fact Sheet FS-087-96, 2 p.

Wall, Gary R., and Phillips, Patrick J., 1997, Pesticides in surface waters of the Hudson River Basin--Mohawk River Subbasin: U.S. Geological Survey Fact Sheet FS-237-96, 4 p.

Wall, Gary R., and Phillips, Patrick J., 1997, Pesticides in surface waters of the Hudson River Basin, New York and adjacent states: U.S. Geological Survey Fact Sheet FS-238-96, 4 p.

Wall, Gary R., and Phillips, Patrick J., 1997, Pesticide concentrations in Canajoharie Creek, New York 1994-96: U.S. Geological Survey Fact Sheet FS-131-97, 2 p.

Open-File Reports:

Freeman, W.O., 1991, National Water-Quality Assessment Program--The Hudson River Basin: U.S. Geological Survey Open-File Report 91-166, 2 p.

Murray, Karen R., and Freeman, Ward O., 1990, Water quality in the Hudson River Basin: Working together to solve the puzzle: U.S. Geological Survey Open-File Report 94-90, 4 p.

Water-Resources Investigations Reports:

Phillips, Patrick J., Eckhardt, David A., and Rosenmann, Larry, 2000, Pesticides and their metabolites in three small public water-supply reservoir systems, western New York, 1998-99: U.S. Geological Survey Water-Resources Investigations Report 99-4278. 19 p.

Phillips, Patrick J., and Hanchar, Dorothea W., 1996, Water-quality assessment of the Hudson River Basin in New York and adjacent states--Analysis of available nutrient, pesticide, volatile organic compound, and suspended-sediment data, 1970-90: U.S. Geological Survey Water-Resources Investigations Report 96-4065, 76 p.

Articles and Papers:

Freeman, W.O., ed., 1994, NAWQA Notes--Newsletter of the National Water-Quality Assessment: Hudson River Basin, vol. 1, no. 1, May 1994: U.S. Geological Survey NAWQA Hudson River Basin Study Unit, 4 p.

Phillips, Patrick J., Riva-Murray, Karen, Hollister, Hannah M., and Flanary, Elizabeth A., 1997, Distribution of DDT, chlordane, and total PCB's in bed sediments in the Hudson River Basin: New York Earth Science and the Environment, Spring 1997, vol. 3, no. 1, p. 27-47.

- Phillips, Patrick J., Wall, Gary R., and Ryan, Christopher M., 2000, Pesticides in wells in agricultural and urban areas of the Hudson River Basin: *Northeastern Geology*, vol. 22, no. 1, p.1-9.
- Phillips, P.J., Wall, G.R., Thurman, E.M., Eckhardt, D.A., and Vanhoesen, J., 1999, Metolachlor and its metabolites in tile drain and stream runoff in the Canajoharie creek watershed: *Environmental Science & Technology*, vol. 33, no. 20, p. 3531-3537.
- Wall, G.R., Phillips, P.J., and Riva-Murray, K., 1998, Seasonal and spatial patterns of nitrate and silica concentrations in Canajoharie Creek, New York: *Journal of Environmental Quality*, vol. 27, no. 2, p. 381-389.

Kanawha-New River Basin

Circulars:

Paybins, Katherine S., Messinger, Terence, Eychaner, James H., Chambers, Douglas B., and Kozar, Mark D., 2001, Water quality in the Kanawha-New River Basin, West Virginia, Virginia, and North Carolina, 1996-98: U.S. Geological Survey Circular 1204, 32 p.

Fact Sheets:

Eychaner, James H., 1994, National Water-Quality Assessment Program--The Kanawha-New River Basin, W.Va. and N.C.: U.S. Geological Survey Fact Sheet 94-019, 2 p.

Open-File Reports:

Eychaner, James H., 1994, National Water-Quality Assessment Program--The Kanawha-New River Basin: U.S. Geological Survey Open-File Report 94-104, 2 p.

Water-Resources Investigations Report:

Chambers, Douglas B., and Messinger, Terence, 2001, Benthic invertebrate communities and their responses to selected environmental factors in the Kanawha River Basin, West Virginia, Virginia, and North Carolina: U.S. Geological Survey Water-Resources Investigations Report 01-4021, 52 p.

Kozar, Mark D., Sheets, Charlynn J., and Hughes, Curt A., 2001, Ground-water quality and geohydrology of the Blue Ridge Physiographic Province, New River Basin, Virginia and North Carolina: U.S. Geological Survey Water-Resources Investigations Report 00-4270, 36 p.

Messinger, Terence, 1997, Water-quality assessment of the Kanawha-New River Basin, West Virginia, and North Carolina--Review of water-quality literature through 1996: U.S. Geological Survey Water-Resources Investigations Report 97-4075, 27 p.

Messinger, Terence, and Hughes, C.A., 2000, Environmental setting and its relations to water quality in the Kanawha River Basin: U.S. Geological Survey Water-Resources Investigations Report 00-4020, 57 p.

Sheets, Charlynn J., and Kozar, Mark D., 2000, Ground-water quality in the Appalachian Plateaus, Kanawha River Basin, West Virginia: U.S. Geological Survey Water-Resources Investigations Report 99-4269, 25 p.

Articles and Papers:

Cincotta, Daniel A., Chambers, Douglas B., and Messinger, Terence, 1999, Recent changes in the distribution of fish species in the New River Basin in West Virginia and Virginia, *in* New River Symposium Proceedings, Boone, North Carolina, p. 98-106.

Eychaner, James H., 1996, U.S. Geological Survey water-quality assessments in the Kentucky and Kanawha-New River Basins, *in* The Ohio River Basin Consortium for Research and Education, 12th Annual Scientific Symposium, November 10-12, 1996, Oxford, Ohio, p. 8-9.

Eychaner, James H., 1998, What's normal? -- Constituent concentrations in West

Virginia streamflow, ground water, streambed sediment, and fish tissue, in West Virginia Non-Point Source Conference, Charleston, 1998, Proceedings: West Virginia Division of Environmental Protection and West Virginia Soil Conservation Agency, p. 38-53.

Eychaner, James H., 1999, Progress of environmental studies in coal mining areas of western Pennsylvania and central West Virginia in Twentieth Annual West Virginia Surface Mine Drainage Task Force Symposium, 1999, Proceedings: Morgantown, West Virginia, 6 p.

Kentucky River Basin

Open-File Reports:

Smoot, J.L., Liebermann, T.D., Evaldi, R.D., and White, K.D., 1991, Surface-water-quality assessment of the Kentucky River Basin in Kentucky: Analysis of available information through 1986: U.S. Geological Survey Open-File Report 90-360, 209 p.

White, K.D., Smoot, J.L., Jackson, J.K., and Choquette, A.F., 1987, Surface-water-quality assessment of the Kentucky River Basin, Kentucky: Project Description: U.S. Geological Survey Open-File Report 87-234, 39 p.

Water-Resources Investigations Reports:

Bradfield, A.D., and Porter, S.D., 1988, Summary of biological investigations relating to surface-water-quality in the Kentucky River Basin, Kentucky through 1987: U.S. Geological Survey Water-Resources Investigation 90-4051, 63 p.

Evaldi, R.D., and Kipp, J.A., 1991, Effects of oil production on water resources in the Kentucky River Basin, Kentucky: U.S. Geological Survey Water-Resources Investigation Report 90-4191, 58 p.

Haag, Kim H., Garcia, Rene, Jarrett, G. Lynn, and Porter, Stephen D., 1995, Water-Quality Assessment of the Kentucky River Basin, Kentucky: Results of investigations of surface-water quality, 1987-90: U.S. Geological Survey Water-Resources Investigations Report 95-4163, 70 p.

Haag, Kim H., and Porter, Stephen D., 1994, Water-quality assessment of the Kentucky River Basin, Kentucky--Nutrients, sediments, and pesticides in streams, 1987-90: U.S. Geological Survey Water-Resources Investigations Report 94-4227, 135 p.

Porter, Stephen D., White, Kevin D., and Clark, J.R., 1994, Water-quality assessment of the Kentucky River Basin, Kentucky: Distribution of metals and other trace elements in sediment and water, 1987-90: U.S. Geological Survey Water-Resources Investigations Report 94-4134, 184 p.

Articles and Papers:

Martin, G.R., Smoot, J.L., and White, K.D., 1992, A comparison of surface-grab and cross sectionally integrated stream-water-quality sampling methods: Water Environment Research, vol. 64, no. 7, 866-876 p.

Lake Erie-Lake Saint Clair Drainage

Circulars:

Myers, Donna N., Thomas, Mary Ann, Frey Jeffrey W., Rheaume, Stephen J., and Button, Daniel T., 2000, Water quality in the Lake Erie-Lake Saint Clair Drainages, Michigan, Ohio, Indiana, New York, and Pennsylvania, 1996-98: U.S. Geological Survey Circular 1203, 35 p.

Fact Sheets:

Meyers, Donna N., and Finnegan, Dennis P., 1995, National Water-Quality Assessment Program--Lake Erie-Lake St. Clair Basin: U.S. Geological Survey Fact Sheet 94-056, 2 p.

Water-Resources Investigations Report

Casey, George D., Myers, Donna N., Finnegan, Dennis P., and Wieczorek, Michael E., 1998, National water-quality assessment of the Lake Erie-Lake St. Clair Basin, Michigan, Indiana, Ohio, Pennsylvania, and New York--Environmental and hydrologic setting: U.S. Geological Survey Water-Resources Investigations Report 97-4256, 93 p.

Covert, S. Alex, 2002, Comparison of U.S. Geological Survey and Ohio Environmental Protection Agency fish-collection methods using the Index of Biotic Integrity and modified Index of Well-Being, 1996-97: U.S. Geological Survey Water-Resources Investigations Report 00-4255, 18 p.

Meyers, Donna N., and Metzker, Kevin D., 2000, Status and trends in suspended sediment discharges and conservation tillage in the Maumee River Basin: U.S. Geological Survey Water-Resources Investigations Report 00-4091, 38 p.

Rheaume, S.J., Button, D.T., Myers, D.N., and Hubbell, D.L., 2001, Areal distribution and concentrations of contaminants of concern in surficial streambed and lakebed sediments, Lake Erie-Lake St. Clair Basin, 1990-97: U.S. Geological Survey Water-Resources Investigations Report 00-4200, 60 p.

Thomas, Mary Ann, 2000, Ground-water quality and vulnerability to contamination in selected agricultural areas of southeastern Michigan, northwestern Ohio, and northeastern Indiana: U.S. Geological Survey Water-Resources Investigations Report 00-4146, 22 p.

Articles and Papers:

Lake Erie-Lake St. Clair Basin Newsletter, July 1996, 6 p.

Lake Erie-Lake St. Clair Basin Newsletter, March 1998, 4 p.

Thomas, Mary Ann, 2000, The effect of residential development on ground-water quality near Detroit, Michigan: Journal of the American Water Resources Association, vol. 36, no. 5, October 2000, p. 1023-1038.

Long Island & New Jersey Coastal Drainages

Circulars:

Ayers, Mark A., Kennen, Jonathan G., and Stackelberg, Paul E., 2000, Water quality of the Long Island-New Jersey Coastal Drainages, New Jersey and New York, 1996-98: U.S. Geological Survey Circular 1201, 40 p.

Fact Sheets:

Ayers, Mark A., 1994, National Water-Quality Assessment Program--Scope of the Long Island-New Jersey Coastal Drainages Study-Unit investigation: U.S. Geological Survey Fact Sheet 94-030, 2 p.

Kennen, Jonathan G., 1998, Relation of benthic macroinvertebrate community impairment to basin characteristics in New Jersey streams: U.S. Geological Survey Fact Sheet FS-057-98, 6 p.

O'Brien, Anne, 1997, Presence and distribution of trace elements in streambed sediments, New Jersey: U.S. Geological Survey Fact Sheet FS-049-97, 4 p.

O'Brien, Anne K., Reiser, Robert G., and Gylling, Helle, 1997, Spatial variability of volatile organic compounds in streams on Long Island, New York, and in New Jersey: U.S. Geological Survey Fact Sheet FS-194-97, 6 p.

Stackelberg, Paul E., 1996, Presence and distribution of chlorinated organic compounds in streambed sediments, New Jersey: U.S. Geological Survey Fact Sheet 118-96, 4 p.

Stackelberg, Paul, and Ayers, Mark, 1994, National Water-Quality Assessment Program--The Long Island-New Jersey Coastal Drainages: U.S. Geological Survey Fact Sheet 94-012, 2 p.

Terracciano, Stephen A., and O'Brien, Anne K., 1997, Occurrence of volatile organic compounds in streams on Long Island, New York, and New Jersey--Overview of available data and reconnaissance sampling: U.S. Geological Survey Fact Sheet 97-063, 4 p.

Open-File Reports:

Stackelberg, Paul, and Ayers, Mark, 1994, The Long Island-New Jersey Coastal Drainages National Water-Quality Assessment (NAWQA) Study Unit: U.S. Geological Survey Open-File Report 94-107, 2 p.

Water-Resources Investigations Reports:

Clawges, Rick M., Stackelberg, Paul E., Ayers, Mark A., and Vowinkel, Eric F., 1999, Nitrate, volatile organic compounds, and pesticides in ground water--A summary of selected studies from New Jersey and Long Island, New York: U.S. Geological Survey Water-Resources Investigation Report 99-4027, 32 p.

Long, Gary R., Chang, Ming, and Kennen, Jonathan G., 2000, Trace elements and organochlorine compounds in bed sediment and fish tissue at selected sites in New Jersey streams--sources and effects: U.S. Geological Survey Water-Resources Investigations Report 99-4235, 29 p.

Reiser, Robert G., 1999, Relation of pesticide concentrations to season, streamflow, and land use in seven New Jersey streams: U.S. Geological Survey Water-Resources Investigations Report 99-4154, 20 p.

Reiser, Robert G., and O'Brien, Anne K., 1999, Pesticides in streams in New

Jersey and Long Island, New York, and relation to land use: U.S. Geological Survey Water-Resources Investigations Report 98-4261, 12 p.

Reiser, Robert G., and O'Brien, Anne K., 1998, Occurrence and seasonal variability of volatile organic compounds in seven New Jersey streams: U.S. Geological Survey Water-Resources Investigations Report 98-4074, 11 p.

Stackelberg, Paul E., Hopple, Jessica A., and Kauffman, Leon J., 1997, Occurrence of nitrate, pesticides, and volatile organic compounds in the Kirkwood-Cohansey aquifer system, southern New Jersey: U.S. Geological Survey Water-Resources Investigations Report 97-4241, 8 p.

Stackelberg, Paul E., Kauffman, Leon J., Baehr, Arthur L., and Ayers, Mark A., 2000, Comparability of nitrate, pesticides, and volatile organic compounds in samples from monitoring and public-supply wells, Kirkwood-Cohansey aquifer system, southern New Jersey: U.S. Geological Survey Water-Resources Investigations Report 00-4123, 78 p.

Articles and Papers:

Baehr, Arthur L., Charles, Emmanuel G., and Baker, Ronald J., 2000, Field evidence for degradation of methyl tert-butyl ether (MTBE) at low concentrations in the unsaturated zone: EPA/API Workshop on MTBE Biodegradation, Cincinnati, Ohio, February 1-3, 2000.

Baehr, Arthur L., Charles, Emmanuel G., and Baker, Ronald J., 2001, Methyl tert-butyl ether degradation in the unsaturated zone and the relation between MTBE in the atmosphere and shallow ground water: Water Resources Research, vol. 37, no. 2, p. 223-233.

Baehr, Arthur L., Stackelberg, Paul E., and Baker, Ronald J., 1999, Evaluation of the atmosphere as a source of volatile organic compounds in shallow ground water: Water Resources Research, vol. 35, no. 1, p. 127-136.

Baehr, Arthur L., Stackelberg, Paul E., Baker, Ronald J., Kauffman, Leon J., Hopple, Jessica A., and Ayers, Mark A., 1997, Design of a sampling network to determine the occurrence and movement of MTBE and other organics through the urban hydrologic cycle in American Chemical Society Division of Environmental Chemistry Preprints of Papers, 213th ACS National Meeting, San Francisco, California, April 13-17, 1997, vol. 37, no. 1, p. 400-401.

Chang, Ming, Kennen, Jonathan G., and Del Corso, Ellyn, 2000, Evaluating temporal changes in stream condition in three New Jersey river basins by using an index of biotic integrity: Bulletin New Jersey Academy of Sciences, vol. 45, p. 1-12.

O'Brien, Anne K., 1997, Presence and distribution of trace elements in New Jersey streambed sediments: American Water Resources Association, vol. 33, no. 2, p. 387-403.

Stackelburg, Paul E., 1997, Presence and distribution of chlorinated organic compounds in streambed sediments, New Jersey: American Water Resources Association, vol. 33, no. 2, p. 271-284.

Stackelberg, Paul E., Kauffman, Leon J., Ayers, Mark A., and Baehr, Arthur L., and 2001, Frequently co-occurring pesticides and volatile organic compounds in public supply and monitoring wells, Southern New Jersey, USA: Environmental Toxicology and Chemistry, vol. 20, no. 4, p. 853-865.

Lower Illinois River Basin

Circulars:

Groschen, George E., Harris, Mitchell A., King, Robin B., Terrio, Paul J., and Warner, Kelly L., 2001, Water quality in the Lower Illinois River Basin, Illinois, 1995-98: U.S. Geological Survey Circular 1209, 36 p.

Fact Sheets:

Warner, Kelly L., and Schmidt, Arthur R., 1994, National Water-Quality Assessment Program--The Lower Illinois River Basin: U.S. Geological Survey Fact Sheet 94-018, 2 p.

Water-Resources Investigations Reports:

Morrow, Jr., William S., 1999, Volatile organic compounds in ground water of the Lower Illinois River Basin: U.S. Geological Survey Water Resources Investigations Report 99-4229, 6 p.

Morrow, Jr., William S., 2001, Uranium and radon in ground water in the Lower Illinois River Basin: U.S. Geological Survey Water-Resources Investigations Report 01-4056, 29 p.

Warner, Kelly L., 1998, Water-quality assessment of the Lower Illinois River Basin: Environmental setting: U.S. Geological Survey Water-Resources Investigations Report 97-4165, 50 p.

Warner, Kelly L., 2000, Analysis of nutrients, selected inorganic constituents, and trace elements in water from Illinois community-supply wells, 1984-91: U.S. Geological Survey Water-Resources Investigations Report 99-4152, 47 p.

Articles and Papers:

DeWalt, R. Edward, Webb, Donald W., and Harris, Mitchell A., 1999, Summer Ephemeroptera, Plecoptera, and Trichoptera (EPT) species richness and community structure in the Lower Illinois River Basin of Illinois: The Great Lakes Entomologist, vol 32, no. 3, p 115-132.

Warner, Kelly L., 2001, Arsenic in glacial drift aquifers and the implication for drinking water--Lower Illinois River Basin: Groundwater, vol. 39, no. 3, May-June 2001, p. 433-442.

Lower Susquehanna River Basin

Circulars:

Lindsay, Bruce D., Breen, Kevin J., Bilger, Michael D., and Brightbill, Robin A., 1998, Water quality in the Lower Susquehanna River Basin, Pennsylvania and Maryland, 1992-95: U.S. Geological Survey Circular 1168, 38 p.

Open-File Reports:

Breen, K.J., Hainly, R.A., and Hoffman, S.A., 1991, National Water-Quality Assessment Program--The Lower Susquehanna River Basin: U.S. Geological Survey Open-File Report 91-168, 2 p.

Siwec, Steven F., Hainly, Robert A., Lindsey, Bruce D., Bilger, Michael D., and Brightbill, Robin A., 1997, Water-quality assessment of the Lower Susquehanna River Basin, Pennsylvania and Maryland: Design and Implementation of water-quality studies, 1992-95: U.S. Geological Survey Open-File Report 97-583, 121 p.

Water Resources Investigations Reports:

Bickford, Tammy M., Lindsey, Bruce D., and Beaver, Mark R., 1996, Bacteriological quality of ground water used for household supply, Lower Susquehanna River Basin, Pennsylvania and Maryland: U.S. Geological Water-Resources Investigations Report 96-4212, 31 p.

Bilger, Michael D., and Brightbill, Robin A., 1998, Fish communities and their relation to physical and chemical characteristics of streams from selected environmental settings in the Lower Susquehanna River Basin, 1993-95: U.S. Geological Survey Water-Resources Investigations Report 98-4004, 34 p.

Bilger, Michael D., Brightbill, Robin A., and Campbell, Harry L., 1999, Occurrence of organochlorine compounds in whole fish tissue from streams of the Lower Susquehanna River Basin, Pennsylvania and Maryland, 1992: U.S. Geological Water-Resources Investigations Report 99-4065, 17 p.

Brightbill, Robin A., and Bilger, Michael D., 1998, Relation of algal biomass to characteristics of selected streams in the Lower Susquehanna River Basin: U.S. Geological Survey Water-Resources Investigations Report 98-4144, 18 p.

Daly, Matthew H., and Lindsey, Bruce D., 1996, Occurrence and concentrations of volatile organic compounds in shallow ground water in the Lower Susquehanna River Basin, Pennsylvania and Maryland: U.S. Geological Survey Water-Resources Investigations Report 96-4141, 8 p.

Hainly, Robert A., and Loper, Connie A., 1997, Water-quality assessment of the Lower Susquehanna River Basin, Pennsylvania and Maryland: Sources, characteristics, analysis, and limitations of nutrient and suspended-sediment data, 1975-90: U.S. Geological Survey Water-Resources Investigations Report 97-4209, 138.

Hainly, Robert A., Zimmerman, Tammy M., Loper, Connie A., and Lindsey, Bruce D., 2001, Summary of and factors affecting pesticide concentrations in streams and shallow wells of the Lower Susquehanna River Basin, Pennsylvania and Maryland, 1993-95: U.S. Geological Survey Water-Resources Investigations Report 01-4012, 75 p.

Lindsey, Bruce D., and Ator, Scott W., 1996, Radon in ground water of the Lower Susquehanna and Potomac River Basins: U.S. Geological Survey Water-Resources Investigations Report 96-4156, 6 p.

Lindsey, Bruce D., Loper, Connie A., and Hainly, Robert A., 1997, Nitrate in ground water and stream base flow in the Lower Susquehanna River Basin, Pennsylvania and Maryland: U.S. Geological Survey Water-Resources Investigations Report 97-4146, 66 p.

Risser, Dennis W., and Siwec, Steven F., 1996, Water-quality assessment of the Lower Susquehanna River Basin, Pennsylvania and Maryland: Environmental setting: U.S. Geological Survey Water-Resources Investigations Report 94-4245, 70 p.

Articles and Papers:

Breen, Kevin J., Gavin, Andrew J., and Schnabel, Ronald R., 1994, Occurrence and yields of triazine herbicides in the Susquehanna river and tributaries during base-flow conditions in the Lower Susquehanna River Basin, Pennsylvania and Maryland, June 1993 in Hill, Paula, and Nelson, Steve, eds., *Toward a sustainable watershed--The Chesapeake experiment*, proceedings of the 1994 Chesapeake research conference, Norfolk, Virginia, June 1-3, 1994: Edgewater, Maryland, Chesapeake Research Consortium Publication No. 149, p. 312-328.

Hainly, Robert A., and Kahn, Joan M., 1996, Factors affecting herbicide yields in the Chesapeake Bay watershed, June 1994: *Journal of the American Water Resources Association*, vol. 32, no. 5, October 1996, p. 965-984.

New England Coastal Basins

Fact Sheets:

Ayotte, Joseph D. and Robinson, Keith W., 1997, National Water-Quality Assessment Program New England Coastal Basins: U.S. Geological Survey Fact Sheet FS-060-97, 2 p.

Open-File Reports:

Tessler, Steven, Coles, James F., and Beaulieu, Karen M., 1999, Inventory of selected freshwater-ecology studies from the New England Coastal Basins (Maine, New Hampshire, Massachusetts, Rhode Island), 1937-97: U.S. Geological Survey Open-File Report 99-467, 30 p.

Water Resources Investigations Reports:

Ayotte, Joseph D., Nielsen, Martha G., Robinson, Jr., Gilpin R., and Moore, Richard B., 1999, Relation of arsenic, iron, and manganese in ground water to aquifer type, bedrock lithogeochemistry, and land use in the New England Coastal Basins: U.S. Geological Survey Water-Resources Investigations Report 99-4162, 61 p.

Flanagan, Sarah M., Montgomery, Denise L., and Ayotte, Joseph D., 2001, Shallow ground-water quality in the Boston, Massachusetts metropolitan area: U.S. Geological Survey Water-Resources Investigations Report 01-4042, 12 p.

Flanagan, Sarah M., Nielsen, Martha G., Robinson, Keith W., and Coles, James F., 1999, Water-quality assessment of the New England Coastal Basins in Maine, Massachusetts, New Hampshire, and Rhode Island: Environmental setting and implications for water quality and aquatic biota: U.S. Geological Survey Water-Resources Investigations Report 98-4249, 62 p.

Potomac River Basin

Circulars:

Ator, Scott W., Blomquist, Joel D., Brakebill, John W., Denis, Janet M., Ferrari, Matthew J., Miller, Cherie V., and Zappia, Humbert, 1998, Water quality in the Potomac River Basin, Maryland, Pennsylvania, Virginia, West Virginia, and the District of Columbia, 1992-96: U.S. Geological Survey Circular 1166, 38 p.

Fact Sheets:

Denis, Janet M., and Blomquist, Joel D., 1995, Nitrate in streams in the Great Valley carbonate subunit of the Potomac River Basin: U.S. Geological Survey Fact Sheet 161-95, 4 p.

Fisher, Gary T., 1995, Selected herbicides in major streams in the Potomac River Basin upstream from Washington, D.C.: U.S. Geological Survey Fact Sheet 107-95, 4 p.

Open-File Reports:

Ator, Scott W., 1998, Nitrate and pesticide data for waters of the Mid-Atlantic Region: U.S. Geological Survey Open-File Report 98-158, 5 p. Available on line at <http://md.usgs.gov/publications/ofr-98-158>

Derosier, A.L., Brakebill, J.W., Denis, J.M., and Kelley, S.K., 1998, Water-quality assessment of the Potomac River Basin: Water-quality and selected spatial data, 1992-96: U.S. Geological Survey Open-File Report 98-180, CD-ROM.

Donnelly, Colleen A., and Ferrari, Matthew J., 1998, Summary of pesticide data from streams and wells in the Potomac River Basin, 1993-96: U.S. Geological Survey Open-File Report 97-666, 8 p.

Gerhart, J.M., 1991, National Water-Quality Assessment Program--The Potomac River Basin: U.S. Geological Survey Open-File Report 91-157, 2 p.

Water Resources Investigations Reports:

Ator, Scott W., and Denis, Janet M., 1997, Relation of the nitrogen and phosphorus in ground water to land use in four subunits of the Potomac River Basin: U.S. Geological Survey Water-Resources Investigations Report 96-4268, 26 p.

Ator, Scott W., and Ferrari, Matthew J., 1997, Nitrate and selected pesticides in ground water of the Mid-Atlantic Region: U.S. Geological Survey Water-Resources Investigations Report 97-4139, 8 p.

Blomquist, J.D., Fisher, G.T., Denis, J.M., Brakebill, J.W., and Werkheiser, W.H., 1996, Water-quality assessment of the Potomac River Basin: Basin description and analysis of available nutrient data, 1970-90: U.S. Geological Survey Water-Resources Investigations Report 95-4221, 88 p.

Ferrari, Matthew J., and Ator, Scott W., 1995, Nitrate in ground water in the Great Valley Carbonate subunit of the Potomac River Basin: U.S. Geological Survey Water-Resources Report 95-4099, 6 p.

Ferrari, Matthew J., Ator, Scott W., Blomquist, Joel D., and Dysart, Joel E., 1997, Pesticides in surface water of the Mid-Atlantic Region: U.S.

- Geological Survey Water-Resources Investigations Report 97-4280, 12 p.
- Ferrari, Matthew J., and Denis, Janet M., 1999, Water-quality assessment of the Potomac River Basin: Occurrence of pesticides in the Great Valley Carbonate subunit: U.S. Geological Survey Water-Resources Investigations Report 98-4054, 35 p.
- Gerhart, James M., and Blomquist, Joel D., 1996, Selected trace-element and organic contaminants in streambed sediments of the Potomac River Basin, August, 1992: U.S. Geological Survey Water-Resources Investigations Report 95-4267, 12 p.
- Gerhart, James M., and Brakebill, John W., 1997, Design and implementation of a sampling strategy for a water-quality assessment of the Potomac River Basin: U.S. Geological Survey Water-Resources Investigations Report 96-4034, 31 p.
- Lizarraga, Joy S., 1997, Estimation and analysis of nutrient and suspended-sediment loads at selected sites in the Potomac River Basin, 1993-95: U.S. Geological Survey Water-Resources Investigations Report 97-4154, 23 p.
- Zappia, Humbert, 1996, Chlordane, DDT, PCB's, and other selected organic compounds in Asiatic clams and yellow bullhead in the Potomac River Basin, 1992: U.S. Geological Survey Water-Resources Investigations Report 96-4210, 6 p.
- Zappia, Humbert, and Fisher, Gary T., 1997, Water-quality assessment of the Potomac River Basin: Analysis of available pesticide data, 1972-90: U.S. Geological Survey Water-Resources Investigations Report 97-4051, 80 p.

Articles and Papers:

- Miller, Cherie V., Denis, Janet M., Ator, Scott W., and Brakebill, John W., 1997, Nutrients in streams during baseflow in selected environmental settings of the Potomac River Basin: Journal of the American Water Resources Association, vol. 33, no. 6, p. 1155-1171.

Upper Illinois River Basin

Fact Sheets:

Friedel, Michael J., 1998, National Water-Quality Assessment Program--Upper Illinois River Basin: U.S. Geological Survey Fact Sheet FS-072-98, 4 p.

Open-File Reports:

Arnold, Terri L., Friedel, Michael J., 2000, Effects of land use on recharge potential of surficial and shallow bedrock aquifers in the Upper Illinois River Basin: U.S. Geological Survey Open-File Report 00-4027, 18 p.

Colman, J.A., 1990, Surface water-quality assessment of the Upper Illinois River Basin in Illinois, Indiana, and Wisconsin: Geochemical data on major and trace-element concentrations in fine fraction streambed sediments: U.S. Geological Survey Open-File Report 90-571, 108 p.

Fitzpatrick, F.A., Colman, J.A., 1992, Surface-water-quality assessment of the Upper Illinois River Basin in Illinois, Indiana, and Wisconsin: Data on manmade nonagricultural volatile and semivolatile organic chemicals in water, May 1988 through March 1990: U.S. Geological Survey Open-File Report 92-467, 70 p.

Mades, D.M., 1987, Surface water-quality assessment of the Upper Illinois River Basin in Illinois, Indiana, and Wisconsin: Project Description: U.S. Geological Survey Open-File Report 87-473, 35 p.

Sullivan, Daniel J., and Blanchard, Stephen F., 1994, Surface-water-quality assessment of the Upper Illinois River Basin in Illinois, Indiana, and Wisconsin: Fixed-station network and selected water-quality data for April 1987-August 1990: U.S. Geological Survey Open-File Report 91-175, 213 p.

Sullivan, Daniel J., and Terrio, Paul J., 1993, Surface-water-quality assessment of the Upper Illinois River Basin in Illinois, Indiana, and Wisconsin: Data on agricultural organic compounds, nutrients, and sediment in water, 1988-90: U.S. Geological Survey Open-File Report 93-421, 61 p.

Zogorski, J.S., Blanchard, S.F., Romack, R.D., and Fitzpatrick, F.A., 1990, Availability and suitability of municipal wastewater information for use in a National Water-Quality Assessment Program: A case study of the Upper Illinois River Basin in Illinois, Indiana, and Wisconsin: U.S. Geological Survey Open-File Report 90-375, 68 p.

Water-Resources Investigations Reports:

Arnold, Terri L., Sullivan, Daniel J., Harris, Mitchell A., Fitzpatrick, Faith A., Scudder, Barbara C., Ruhl, Peter M., Hanchar, Dorothea W., and Stewart, Jana S., 1999, Environmental setting of the Upper Illinois River Basin and implications for water quality: U.S. Geological Survey Water-Resources Investigations Report 98-4268, 67 p.

Fitzpatrick, Faith.A., Arnold, Terri L., and Colman, John A., 1998, Surface-water-quality assessment of the Upper Illinois River Basin in Illinois, Indiana, and Wisconsin--Spatial distribution of geochemicals in the fine fraction of streambed sediment, 1987: U.S. Geological Survey Water-Resources Investigations Report 98-4109, 89 p.

Fitzpatrick, Faith.A., Scudder, Barbara C., Crawford, J. Kent, Schmidt, Arthur R., Sieverling, Jennifer B., and others, 1995, Water-quality assessment of the Upper Illinois River Basin in Illinois, Indiana, and Wisconsin:

- Major and trace elements in water, sediment, and biota, 1978-90: U.S. Geological Survey Water-Resources Investigations Report 95-4045, 253 p.
- Marron, Donna C. and Blanchard, Stephen F., 1995, Surface-water-quality assessment of the Upper Illinois, Indiana, and Wisconsin: Cross sectional and depth variation of water-quality constituents and properties in the Upper Illinois River Basin, 1987-88: U.S. Geological Survey Water-Resources Investigations Report 95-4021, 19 p.
- Ruhl, Peter M., 1994, Surface-water-quality assessment of the upper Illinois River Basin in Illinois, Indiana, and Wisconsin: Analysis of relations between fish-community structure and environmental conditions in the Fox, Des Plaines, and Du Page River Basins in Illinois, 1982-84: U.S. Geological Survey Water-Resources Investigations Report 94-4094, 50 p.
- Schmidt, Arthur R., and Blanchard, Stephen F., 1997, Surface-water-quality assessment of the Upper Illinois River Basin in Illinois, Indiana, and Wisconsin--Results of investigations through April 1992: U.S. Geological Survey Water-Resources Investigation Report 96-4223, 63 p.
- Steffeck, D.W., and Striegl, R.G., 1989, An inventory and evaluation of biological investigations that relate to stream-water-quality in the Upper Illinois River Basin of Illinois, Indiana, and Wisconsin: U.S. Geological Survey Water-Resources Investigation Report 89-4041, 54 p.
- Sullivan, Daniel J., 2000, Nutrients and suspended solids in surface waters of the Upper Illinois River Basin Illinois, Indiana, and Wisconsin, 1978-97: U.S. Geological Survey Water-Resources Investigations Report 99-4275, 57 p.
- Sullivan, Daniel J., Stinson, Troy W., Crawford J. Kent, Schmidt, Arthur R., and Colman, John A., 1998, Surface-water-quality assessment of the Upper Illinois River Basin in Illinois, Indiana, and Wisconsin--Pesticides and other synthetic organic compounds in water, sediment, and biota, 1975-90: U.S. Geological Survey Water-Resources Investigations Report 96-4135, 131 p.
- Terrio, Paul J., 1995, Water-quality assessment of the Upper Illinois, Indiana, and Wisconsin: Nutrients, dissolved oxygen, and fecal-indicator bacteria in surface water, April 1987 through August 1990: Water-Resources Investigations Report 95-4005, 79 p.
- Terrio, Paul J., 1993, Relations of changes in wastewater-treatment practices to changes in stream-water quality during 1978-88 in the Chicago area, Illinois, and implications for regional and National water-quality assessments: U.S. Geological Survey Water-Resources Investigations Report 93-4188, 56 p.

Articles and Papers:

- Colman, J.A., Sanzolone, R.F., 1992, Geochemical characterization of streambed sediment in the Upper Illinois River Basin: Water Resources Bulletin October 1992, vol. 28, no. 5, p.933.
- Fitzpatrick, F.A., Use of a geographic information system in the Upper Illinois River Basin pilot project of the National Water-Quality Assessment Program, *in* Remote Sensing and GIS Application to Nonpoint Source Planning: USEPA Northeastern Illinois Planning Commission Workshop, October 1-3, 1990, Chicago, Illinois, p. 55-66.
- Robertson, Dale M., Roerish, Eric D., 1999, Influence of various water quality sampling strategies on load estimates for small streams: Water Resources Research, vol.35, no.12, p. 3747-3759.

Zogorski, J.S., Blanchard, S.F., and Wilber, W.G., 1990, Availability and suitability of municipal wastewater-treatment information for a national water-quality assessment, *in* O'Melia, Charles R., ed., Proceedings of 1990 Environmental Engineering Speciality Conference: Johns Hopkins University, Maryland, American Society Civil Engineering, New York, p. 637-644.

Western Lake Michigan Drainage Basin

Circulars:

Peters, Charles A., Robertson, D.M., Saad, D.A., Sullivan, D.J., Scudder B.C., Fitzgerald, F.A., Richards, K.D., Stewart, J.S., Fitzgerald, S.A., and Lenz, B.N., 1998, Water quality in the Western Lake Michigan drainages, Wisconsin and Michigan, 1992-95: U.S. Geological Survey Circular 1156, 40 p.

Fact Sheets:

Fitzgerald, Sharon A., and Steuer, Jeffrey J., 1996, The Fox River PCB transport study--Stepping stone to a healthy Great Lakes ecosystem: U.S. Geological Survey Fact Sheet FS-116-96, 4 p.

Lenz, Bernard N., 1997, Feasibility of combining two aquatic benthic macroinvertebrate community data bases for water-quality assessment: U.S. Geological Survey Fact Sheet FS-132-97, 4 p.

Lenz, Bernard N., and Miller, Michael A., 1996, Comparison of aquatic macroinvertebrate samples collected using different field methods: U.S. Geological Survey Fact Sheet 216-96, 4 p.

Matzen, Amy M., and Saad, David A., 1996, Pesticides in ground water in the Western Lake Michigan Drainages, Wisconsin and Michigan, 1983-1995: U.S. Geological Survey Fact Sheet 192-96, 4 p.

Robertson, Dale M., 1996, Sources and transport of phosphorus in the Western Lake Michigan Drainages: U.S. Geological Survey Fact Sheet 208-96, 4 p.

Robertson, Dale M., and Saad, David A., 1995, Environmental factors used to subdivide the Western Lake Michigan Drainages into relatively homogeneous units for water-quality site selection: U.S. Geological Survey Fact Sheet 220-95, 4 p.

Saad, David A., 1995, Nitrate in ground water in the Western Lake Michigan Drainage Basin, Wisconsin and Michigan: U.S. Geological Survey Fact Sheet 070-94, 2 p.

Sullivan, Daniel J., and Richards, Kevin D., 1996, Pesticides in streams of the Western Lake Michigan Drainages, Wisconsin and Michigan, 1993-95: U.S. Geological Survey Fact Sheet FS-107-96, 4 p.

Open-File Reports:

Peters, C.A., compiler., 1995, National Water-Quality Assessment Program, Western Lake Michigan Drainages - summaries of liaison committee meetings, Green Bay, WI, March 28-29, 1995: U.S. Geological Survey Open-File Report 95-163, 57 p.

Setmire, J.O., 1991, National Water-Quality Assessment Program-Western Lake Michigan Drainage Basin: U.S. Geological Survey Open-File Report 91-161, 2 p.

Water-Resources Investigations Reports:

Fitzgerald, Sharon A., 1997, Results of quality-control sampling of water, bed sediment, and tissue in the Western Lake Michigan Drainages Study Unit of the National Water-Quality Assessment Program: U.S. Geological Survey Water-Resources Investigations Report 97-4148, 24 p.

- Fitzpatrick, Faith A., and Giddings, Elise M.P., 1997, Stream habitat characteristics of fixed sites in the Western Lake Michigan Drainages, Wisconsin and Michigan, 1993-95: U.S. Geological Survey Water-Resources Investigations Report 95-4211-B, 58 p.
- Fitzpatrick, Faith A., Peterson, Elise M., and Stewart Jana S., 1996, Habitat characteristics of benchmark streams in agricultural areas of eastern Wisconsin: U.S. Geological Survey Water-Resources Investigations Report 96-4038-B, 35 p.
- Lenz, Bernard N., and Rheume, S.J., 2000, Benthic invertebrates of fixed sites in the Western Lake Michigan Drainages, Wisconsin and Michigan, 1993-95: U.S. Geological Survey Water-Resources Investigations Report 95-4211-D, 30 p.
- Peters, Charles A., ed., 1997, Environmental setting and implications for water quality in the Western Lake Michigan Drainages: U.S. Geological Survey Water-Resources Investigations Report 97-4196, 79 p.
- Rheume, S.J., Lenz, Bernard N., and Scudder, Barbara C., 1996, Benthic invertebrates of benchmark streams in agricultural areas of Eastern Wisconsin--Western Lake Michigan Drainages: U.S. Geological Survey Water-Resources Investigations Report 96-4038-C, 39 p.
- Rheume, S.J., Stewart, J.S., and Lenz, Bernard N., 1996, Environmental setting of benchmark streams in agricultural areas of eastern Wisconsin: U.S. Geological Survey Water-Resources Investigations Report 96-4038-A, 50 p.
- Richards, Kevin D., Sullivan, Daniel J., and Stewart, Jana S., 1998, Surface-water quality at fixed sites in the Western Lake Michigan Drainages, Wisconsin and Michigan, and the effects of natural and human factors, 1993-95: U.S. Geological Survey Water-Resources Investigations Report 97-4208, 40 p.
- Robertson, Dale M., 1996, Use of frequency-volume analyses to estimate regionalized yields and loads of sediment, phosphorus, and polychlorinated biphenyls to Lakes Michigan and Superior: U.S. Geological Survey Water-Resources Investigations Report 96-4092, 47 p.
- Robertson, Dale M., 1998, Evaluation of the surface-water sampling design in the Western Lake Michigan Drainages in relation to environmental factors affecting water quality at base flow: U.S. Geological Survey Water-Resources Investigations Report 98-4072, 53 p.
- Robertson, Dale M., and Saad, David A., 1996, Water-quality assessment of the Western Lake Michigan Drainages--Analysis of available information on nutrients and suspended sediment, water years 1971-90: U.S. Geological Survey Water-Resources Investigations Report 96-4012, 165 p.
- Saad, David A., 1996, Ground-water quality in the western part of the Cambrian-Ordovician aquifer in the Western Lake Michigan Drainages, Wisconsin and Michigan: U.S. Geological Survey Water-Resources Investigations Report 96-4231, 40 p.
- Saad, David A., 1997, Effects of land use and geohydrology on the quality of shallow ground water in two agricultural areas in the Western Lake Michigan Drainages, Wisconsin: U.S. Geological Survey Water-Resources Investigations Report 96-4292, 69 p.
- Saad, David A., and Thorstenson Donald C., 1998, Flow and geochemistry along shallow ground-water flowpaths in an agricultural area in southeastern Wisconsin: U.S. Geological Survey Water-Resources Investigations Report 98-4179, 62 p.

- Scudder, Barbara C., and Stewart, Jana S., 2001, Benthic algae of benchmark streams in agricultural areas of eastern Wisconsin: U.S. Geological Survey Water-Resources Investigations Report 96-4038-E, 46 p.
- Scudder, Barbara C., Sullivan, Daniel J., Fitzpatrick, Faith A., and Rheaume, Stephen J., 1997, Trace elements and synthetic organic compounds in biota and streambed sediment of the Western Lake Michigan Drainages, 1992-1995: U.S. Geological Survey Water-Resources Investigations Report 97-4192, 34 p.
- Scudder, Barbara C., Sullivan, Daniel J., Rheaume, Stephen J., Parsons, Scott R., and Lenz, Bernard N., 1996, Summary of biological investigations relating to water quality in the Western Lake Michigan Drainages, Wisconsin and Michigan: U.S. Geological Survey Water-Resources Investigations Report 96-4263, 89 p.
- Stewart, Jana S., 1998, Combining satellite data with ancillary data to produce a refined land-use/land-cover map: U.S. Geological Survey Water-Resources Investigations Report 97-4203, 11 p.
- Sullivan, Daniel J., 1997, Fish communities of fixed sites in the Western Lake Michigan Drainages, Wisconsin and Michigan, 1993-95: U.S. Geological Survey Water-Resources Investigations Report 95-4211-C, 23 p.
- Sullivan, Daniel J., and Peterson Elise M., 1997, Fish communities of benchmark streams in agricultural areas of Eastern Wisconsin: U.S. Geological Survey Water-Resources Investigations Report 96-4038-D, 23 p.
- Sullivan, D.J., Peterson, E.M., and Richards, K.D., 1995, Environmental setting of fixed sites in the Western Lake Michigan Drainages, Michigan and Wisconsin: U.S. Geological Survey Water-Resources Investigations Report 95-4211-A, 30 p.

Articles and Papers:

- Fitzpatrick, Faith A., Giddings, Elise M.P., Scudder, Barbara C., Sullivan, Daniel J., and Lenz, Bernard N., 2000, Effects of riparian corridors and hydrology on agricultural stream biota *in* Wington, Parker J. Jr., Proceedings AWRA's 2000 Conference Riparian Ecology and Management in Multi-land Use Watersheds, August 2000, Portland, Oregon, p. 215-220.
- Fitzgerald, S.A., and Steuer, J.J., 1997, Polychlorinated biphenyls as probes of biogeochemical processes in rivers, *in* R.P., ed., ACS Symposium Series 671, Molecular Markers in Environmental Geochemistry: Eganhouse, Chapter 25, p. 382-397.
- Kammerer, Phil A., Jr., Garn, Herbert S., Rasmussen, Paul W., and Ball, Joseph R., 1998, A comparison of water-quality sample collection methods used by the U.S. Geological Survey and the Wisconsin Department of Natural Resources *in* Proceedings of the National Water-Quality Monitoring Council National Conference: Critical Foundations to Protect Our Waters, July 7-9, 1998, Reno, Nevada. p. 259-269.
- NAWQA News, National Water-Quality Assessment Program --Western Lake Michigan Drainage Basin, March 1995, vol. 1, no. 1, 6 p.
- NAWQA News, National Water-Quality Assessment Program --Western Lake Michigan Drainage Basin, September 1995, vol. 2, 6 p.
- NAWQA News, National Water-Quality Assessment Program --Western Lake Michigan Drainage Basin, June 1996, vol. 3, 2 p.

- NAWQA News, National Water-Quality Assessment Program --Western Lake Michigan Drainage Basin, April 1997, no. 4, 4p.
- Robertson, Dale M., and Richards, Kevin D., 2000, Influence of different temporal sampling strategies on estimating loads and maximum concentrations in small streams: Conference Proceedings NWQMC National Monitoring Conference 2000, Monitoring for the Millennium, p. 209 -223.
- Stewart, J.S., 1994, Assessment of alternative methods for stratifying landsat TM data to improve land-cover classification accuracy across areas with physiographic variation: Master's thesis, University of Wisconsin-Madison.
- Stewart, Jana S., 1994, Assessment of alternative methods for stratifying landsat TM data to improve land cover classification accuracy across areas with physiographic variation: University of Wisconsin-Madison, Master of Science thesis, 159 p.
- Stewart, J.S., 1995, Stratification of landsat thematic mapper data, based on regional landscape patterns, to improve land-cover classification accuracy of large study areas: American Congress on Surveying and Mapping and the American Society for Photogrammetry and Remote Sensing Proceedings, p. 826-835.
- Sullivan, D.J., and Richards, K.D., 1995, National water-quality assessment - Western Lake Michigan Drainage Basin: Clean Water-Clean Environment - 21st Century Conference Proceedings, USDA working group on water quality, vol. 3, p. 271.

White River Basins

Circulars:

Fenelon, Joseph M., 1998, Water quality in the White River Basin, Indiana, 1992-96: U.S. Geological Survey Circular 1150, 34 p.

Fact Sheets:

Crawford, Charles G., 1995, Occurrence of pesticides in the White River, Indiana, 1991-95: U.S. Geological Survey Fact Sheet 233-95, 4 p.

Crawford, Charles G., 1996, Influence of natural and human factors on pesticide concentrations in surface waters of the White River Basin, Indiana: U.S. Geological Survey Fact Sheet FS-119-96, 4 p.

Crawford, Charles G., 1997, Trends in acetochlor concentrations in surface waters of the White River Basin, Indiana, 1994-96: U.S. Geological Survey Fact Sheet FS-058-97, 4 p.

Frey, J.W., Baker, N.T., Lydy, M.J., and Stone, W.W., 1996, Assessment of water quality at selected sites in the White River Basin, Indiana, 1993 and 1995 using biological indices: U.S. Geological Survey Fact Sheet FS-209-96, 4 p.

Fenelon, Joseph M., and Moore, Rhett C., 1996, Occurrence of pesticides in ground water in the White River Basin, Indiana, 1994-95: U.S. Geological Survey Fact Sheet FS-084-96, 4 p.

Fenelon, Joseph M., and Moore, Rhett C., 1996, Occurrence of volatile organic compounds in ground water in the White River Basin, Indiana, 1994-95: U.S. Geological Survey Fact Sheet FS-138-96, 4 p.

Fenelon, Joseph M., and Moore, Rhett C., 1996, Radon in the fluvial aquifers of the White River Basin, Indiana, 1995: U.S. Geological Survey Fact Sheet FS-124-96, 2 p.

Moore, Rhett C., and Fenelon, Joseph M., 1996, Occurrence of nitrate in ground water in the White River Basin, Indiana, 1994-95: U.S. Geological Survey Fact Sheet FS-110-96, 4 p.

Open-File Reports:

Baker, Nancy T., and Frey, Jeffrey W., 1997, Fish community and habitat data at selected sites in the White River Basin, Indiana, 1993-95: U.S. Geological Survey Open-File Report 96-653A, 44 p.

Carter, Donna S. 1996, Determination of atrazine and its major degradation products in soil pore water by solid-phase extraction, chemical derivatization, and gas chromatography/mass spectrometry: U.S. Geological Survey Open-File Report 96-459, 12 p.

Jacques, D.V., and Crawford, C.G., 1991, National Water-Quality Assessment Program--White River Basin: U.S. Geological Survey Open-File Report 91-169, 2 p.

Water-Resources Investigations Reports:

Carter, Donna S., Lydy, Michael J., and Crawford, Charles G., 1995, Water-quality assessment of the White River Basin, Indiana: Analysis of

available information on pesticides, 1972-92: U.S. Geological Survey Water-Resources Investigations Report 96-4024, 60 p.

Crawford, Charles G., Lydy, Michael J., and Frey, Jeffrey W., 1996, Fishes of the White River Basin, Indiana: U.S. Geological Survey Water-Resources Investigations Report 96-4232, 8 p.

Martin, Jeffrey D., Crawford, Charles G., Frey, Jeffrey W., and Hodgkins, Glenn A., 1996, Water-quality assessment of the White River Basin, Indiana: Analysis of selected information on nutrients, 1980-92: U.S. Geological Survey Water-Resources Investigations Report 96-4192, 91 p.

Schnoebelen, Douglas J., Fenelon, Joseph M., Baker, Nancy T., Martin, Jeffrey D., Bayless, E. Randall, Jacques, David V., and Crawford, Charles G., 1999, Environmental setting and natural factors and human influences affecting water quality in the White River Basin, Indiana: U.S. Geological Survey Water-Resources Investigations Report 97-4260, 66 p.

Articles and Papers:

Baker, N.T., and Morlock, S.E., 1996, Use of global positioning system and an acoustic Doppler current profiler to map river and lake bathymetry in American Water Resources Association Symposium on GIS and Water Resources, Ft. Lauderdale, Florida, 1996, Proceedings: American Water Resources Association, Herndon, Virginia, p. 373-381.

Fenelon, J.M., and Moore, R.C., 1998, Transport of agrichemicals to ground and surface water in a small central Indiana watershed: *Journal of Environmental Quality*, vol. 27, no. 4, July-Aug. 1998, p. 884-894.

Lydy, M.J., Carter, D.S., and Crawford, C.G., 1996, Comparison of gas chromatography/mass spectrometry and immunoassay techniques on concentrations of atrazine in storm runoff: *Archives of Environmental Contamination and Toxicology*, vol. 31, p. 378-385.

SOUTHEASTERN REGION STUDY UNITS**Albemarle-Pamlico Drainage****Circulars:**

Spruill, Timothy B., Harned, Douglas A., Ruhl, Peter M., Eimers, Jo Leslie, McMahon, Gerard, Smith, Kelly E., Galeone, David R., and Woodside, Michael D., 1998, Water quality in the Albemarle-Pamlico Drainage Basin, North Carolina and Virginia, 1992-95: U.S. Geological Survey Circular 1157, 36 p.

Fact Sheets:

Spruill, Timothy B., Eimers, Jo Leslie, and Morey, A. Elizabeth (NC Division of Water Quality), 1997, Nitrate-nitrogen concentrations in shallow ground water of the coastal plain of the Albemarle-Pamlico Drainage Basin, North Carolina and Virginia: U.S. Geological Survey Fact Sheet FS-241-96, 4 p.

Open-File Reports:

Harned, Douglas A., McMahon, Gerard, Spruill, Timothy B., and Woodside, Michael D., 1995, Water-quality assessment of the Albemarle-Pamlico Drainage Basin, North Carolina and Virginia--Characterization of suspended sediment, nutrients, and pesticides: U.S. Geological Survey Open-File Report 95-191, 131 p.

Lloyd, O.B., Barnes, C.R., and Woodside, M.D., 1991, National Water-Quality Assessment Program--The Albemarle-Pamlico Drainage: U.S. Geological Survey Open-File Report 91-156, 2 p.

Manning, T.K., Smith, K.E., Wood, C.D., and Williams, J.B., 1994, Pesticide-sampling equipment, sample-collection and processing procedures, and water-quality data at Chicod Creek, North Carolina, 1992: U.S. Geological Survey Open-File Report 94-50, 35 p.

McMahon, Gerard, and Lloyd, Orville B. Jr., 1995, Water-quality assessment of the Albemarle-Pamlico Drainage Basin, North Carolina and Virginia--Environmental setting and water-quality issues: U.S. Geological Survey Open-File Report 95-136, 72 p.

Ruhl, Peter M., and Smith, Kelly E., 1996, Water-quality assessment of the Albemarle-Pamlico Drainage Basin, North Carolina and Virginia--Trace elements in Asiatic clam (*Corbicula fluminea*) soft tissues and redbreast sunfish (*Lepomis auritus*) livers, 1992-93: U.S. Geological Survey Open-File Report 96-334, 6 p.

Smith, Kelly E., and Ruhl, Peter M., 1996, Water-quality assessment of the Albemarle-Pamlico Drainage Basin, North Carolina and Virginia--Organochlorine compounds in Asiatic clam (*Corbicula fluminea*) soft tissues and whole redbreast sunfish (*Lepomis auritus*), 1992-93: U.S. Geological Survey Open-File Report 96-201, 6 p.

Spruill, Timothy B., Harned, Douglas A., and McMahon, Gerard, 1995, The Albemarle-Pamlico Drainage National Water-Quality Assessment Study: Background and design: U.S. Geological Survey Open-File Report 95-164, 4 p.

Woodside, Michael D., and Simeri, Benjamin R., 1995, Land use and nutrient concentrations and yields in selected streams in the Albemarle-Pamlico Drainage Basin, North Carolina and Virginia: U.S. Geological Survey Open-

File Report 95-457, 4 p.

Woodside, Michael D., and Simeri, Benjamin R., 1996, Water-quality assessment of the Albemarle-Pamlico Drainage Basin, North Carolina and Virginia--Chemical analyses of organic compounds and inorganic constituents in streambed sediment, 1992-93: U.S. Geological Survey Open-File Report 96-103, 25 p.

Water-Resources Investigations Reports:

Skrobialowski, Stanley C., 1996, Water-quality assessment of the Albemarle-Pamlico Drainage Basin, North Carolina and Virginia--A summary of selected trace element, nutrient, and pesticide data for bed sediments, 1969-90: U.S. Geological Survey Water-Resources Investigations Report 96-4104, 33 p.

Woodside, Michael D., and Ruhl, Kelly E., 2001, Pesticides in streams in the Tar-Pamlico Drainage Basin, North Carolina, 1992-94: U.S. Geological Survey Water-Resources Investigations Report 01-4067, 20 p.

Articles and Papers:

McMahon, Gerard, and Woodside, Michael D., 1997, Nutrient mass balance for the Albemarle-Pamlico Drainage Basin, North Carolina and Virginia, 1999: Journal of the American Water Resources Association, vol. 33, no. 3, June 1997, p. 573-589.

McMahon, G., and Harned, D.A., 2000, Effect of environmental setting on sediment, nitrogen, and phosphorus concentrations in the Albemarle-Pamlico Drainage Basin, North Carolina and Virginia, USA: Environmental Management vol. 22, no. 6, p. 887-903.

Spruill, Timothy B., 2000, Statistical evaluation of effects of riparian buffers on nitrate and ground water quality: Journal of Environmental Quality, vol. 29, no. 5, p. 1523-1538.

Spruill, Timothy B., and Galeone, David R., 2000, Effectiveness of riparian buffers in reducing nitrate-nitrogen concentrations in ground water: International Conference on Riparian Ecology and Management in Multi-Land Use Watersheds, American Water Resources Association, p. 119-124.

Spruill, Timothy B., Woodside, Michael D., Harned, Douglas A., McMahon, Gerard, and Eimers, Jody L., 1996, Results of the Albemarle-Pamlico Drainage NAWQA: Nutrients and pesticides in surface water and ground water: Solutions: A Technical Conference on Water Quality, March 19-21, 1996, North Carolina State University, p. 24-30.

Apalachicola-Chattahoochee-Flint River Basin

Circulars:

Frick, Elizabeth A., Hippe, Daniel J., Buell, Gary R., Couch, Carol A., Hopkins, Evelyn H., Wangsness, David J., and Garrett, Jerry W., 1998, Water quality in the Apalachicola-Chattahoochee-Flint River Basin, Georgia, Alabama, and Florida, 1992-95: U.S. Geological Survey Circular 1164, 38 p.

Fact Sheets:

Couch, Carol A., 1995, National Water-Quality Assessment Program what fish live in the streams of metropolitan Atlanta? --U.S. Geological Survey Fact Sheet 091-95, 4 p.

Open-File Reports:

Garrett, Jerry W., 1997, World wide web access to publications and data for the Apalachicola-Chattahoochee-Flint River Basin--Georgia, Florida, and Alabama, 1992-95: U.S. Geological Survey Open-File Report 78-97, 4 p.

Hopkins, Evelyn H., Hippe, Daniel J., Frick, Elizabeth A., and Buell, Gary R., 2000, Organophosphorus pesticide occurrence and distribution in surface and ground waters of the United States, 1992-97: U.S. Geological Survey Open-File Report 00-187, CD-ROM.

Peck, Michael F., and Garrett, Jerry W., 1994, Quality of surface and ground water in the White Creek and Mossy Creek watersheds, White County, Georgia, 1992-93: U.S. Geological Survey Open-File Report 94-540, 31 p.

Stell, Susan M., Hopkins, Evelyn H., Buell, Gary R., and Hippe, Daniel J., 1995, Use and occurrence of pesticides in the Apalachicola-Chattahoochee-Flint River Basin, Georgia, Alabama, and Florida, 1960-91: U.S. Geological Survey Open-File Report 95-739, 65 p.

Wangsness, David J., 1997, The National Water-Quality Assessment Program--Example of study unit design for the Apalachicola-Chattahoochee-Flint River Basin in Georgia, Alabama, and Florida, 1991-97: U.S. Geological Survey Open-File Report 97-48, 29 p.

Wangsness, D.J., and Frick, E.A., 1991, National Water-Quality Assessment Program--The Apalachicola-Chattahoochee-Flint River Basin: U.S. Geological Survey Open-File Report 91-163, 2 p.

Water Resources-Investigations Reports:

Couch, Carol A., Hopkins, Evelyn H., Hardy, P. Suzanne, 1996, Influences of environmental settings on aquatic ecosystems in the Apalachicola-Chattahoochee-Flint River Basin, U.S. Geological Survey Water-Resources Investigations Report 95-4278, 58 p.

Frick, Elizabeth A., Buell, Gary R., and Hopkins, Evelyn E., 1996, Nutrient sources and analysis of nutrient water-quality data, Apalachicola-Chattahoochee-Flint River Basin, Georgia, Alabama, and Florida, 1972-90: U.S. Geological Survey Water-Resources Investigations Report 96-4101, 120 p.

Gregory, M. Brian, and Frick, Elizabeth A., 2000, Fecal-coliform bacteria concentrations in streams of the Chattahoochee River National Recreation Area, Metropolitan Atlanta, Georgia, May-October 1994 and 1995: U.S. Geological Survey Water-Resources Investigations Report 00-4139, 8 p.

Hippe, Daniel J., Wangsness, David J., Frick, Elizabeth A., and Garrett, Jerry

W., 1994, Water quality of the Apalachicola-Chattahoochee-Flint and Ocmulgee River Basins related to flooding from tropical storm Alberto; pesticides in urban and agricultural watersheds; and nitrate and pesticides in ground water, Georgia, Alabama, and Florida: U.S. Geological Survey Water-Resources Investigations Report 94-4183, 36 p.

Hippe, Daniel J., Wipperfurth, Caryl J., Hopkins, Evelyn A., Frick, Elizabeth A., and Wangsness, David J., 1997, Water-quality issues related to urban development of the upper Chattahoochee River watershed: Everyone lives downstream: U.S. Geological Survey Water-Resources Investigations Report (Poster) 96-4302, 1 p.

Articles and Papers:

Buell, G.R., 1997, Transport of trace elements and semi-volatile organic compounds in fluvial sediments of the lower Flint River (Georgia) and Apalachicola River (Georgia, Florida, Alabama) basins during Tropical Storm Alberto, July 1994, in Hatcher, K.J., ed., U.S. Geological Survey reprints from proceedings of the 1997 Georgia Water Resources Conference, March 20-22, 1997, The University of Georgia, Athens, Georgia, p. 24-32.

Buell, G.R., 1997, Transport of trace elements and semi-volatile organic compounds in fluvial sediments of the lower Flint River (Georgia) and Apalachicola River (Georgia, Florida, Alabama) basins during Tropical Storm Alberto, July 1994, in Hatcher, K.J., ed., U.S. Geological Survey reprints from proceedings of the 1997 Georgia Water Resources Conference, March 20-22, 1997, The University of Georgia, Athens, Georgia, p. 24-32.

Couch, Carol A., 1993, National Water-Quality Assessment Program: environmental setting of the Apalachicola-Chattahoochee-Flint River Basin: Proceedings of the 1993 Georgia Water Resources Conference, April 20-21, 1993, Athens Georgia, 3 p.

Couch, Carol A., 1997, Environmental distribution of mercury related to land use and physicochemical setting in watersheds of the Apalachicola-Chattahoochee-Flint River Basin, in Hatcher, K.J., ed., U.S. Geological Survey reprints from proceedings of the 1997 Georgia Water Resources Conference, March 20-22, 1997, The University of Georgia, Athens, Georgia, p. 33-39.

DeVivo, Joseph C., 1995, Impact of introduced shiners, *Cyprinella Lutrensis*, on stream fishes near Atlanta, Georgia, in Hatcher, K.J., ed., U.S. Geological Survey reprints from proceedings of the 1997 Georgia Water Resources Conference, March 20-22, 1997, The University of Georgia, Athens, Georgia, p. 95-98.

DeVivo, J.C., Couch, C.A., and Freeman, B.J., 1997, Use of a preliminary index of biotic integrity in urban streams around Atlanta, Georgia, in Hatcher, K.J., ed., U.S. Geological Survey reprints from proceedings of the 1997 Georgia Water Resources Conference, March 20-22, 1997, The University of Georgia, Athens, Georgia, p. 40-43.

DeVivo, J.C., Frick, E.A., Hippe, D.J., and Buell, G.R., 1995, Effect of restricted phosphate detergent use and mandated upgrades at two wastewater-treatment facilities on water quality, metropolitan Atlanta, Georgia, 1988-93, in Hatcher, Kathryn J., ed., 1995, U.S. Geological Survey reprints from proceedings of the 1995 Georgia Water Resources Conference, April 11 and 12, 1995, The University of Georgia, Athens, Georgia, p. 20-22.

Frick, E.A., 1997, Surface-water and shallow ground-water quality in the vicinity of Metropolitan Atlanta, upper Chattahoochee River Basin, Georgia, 1992-95, in Hatcher, K.J., ed., U.S. Geological Survey reprints from proceedings of the 1997 Georgia Water Resources Conference, March 20-

- 22, 1997, The University of Georgia, Athens, Georgia, p. 44-48.
- Frick, E.A., and Buell, Gary R., 1999, Relation of land use to nutrient and suspended-sediment concentrations, loads, and yields in the upper Chattahoochee River Basin, Georgia, 1993-98, in Hatcher, K.J., ed., U.S. Geological Survey reprints from proceedings of the 1999 Georgia Water Resources Conference, March 30-31, 1999, The University of Georgia, Athens, Georgia, p. 170-179.
- Frick, E.A., and Crandall, C.A., 1995, Water quality in surficial aquifers in two agricultural areas in Georgia, Alabama, and Florida, in Hatcher, Kathryn J., ed., 1995, U.S. Geological Survey reprints from proceedings of the 1995 Georgia Water Resources Conference, April 11 and 12, 1995, The University of Georgia, Athens, Georgia, p. 9-13.
- Frick, E.A., Stell, S.M., and Buell, G.R., 1993, National Water-Quality Assessment Program: A preliminary evaluation of 1990 nutrient loads for the Apalachicola-Chattahoochee-Flint River Basin: Proceedings of the 1993 Georgia Water Resources Conference, April 20-21, 1993, Athens, Georgia, 5 p.
- Garrett, J.W., Perlman, H.A., and Scholz, J.D., 1997, World Wide Web access to U.S. Geological Survey publications and data--Apalachicola-Chattahoochee-Flint River Basin, Georgia, Florida, and Alabama, 1992-95, in Hatcher, K.J., ed., U.S. Geological Survey reprints from proceedings of the 1997 Georgia Water Resources Conference, March 20-22, 1997, The University of Georgia, Athens, Georgia, p. 1-3.
- Hippe, D.J., 1997, Pesticide occurrence in the upper Floridan aquifer in the Dougherty Plain and Marianna Lowlands Districts, southwestern Georgia and adjacent areas of Alabama and Florida, in Hatcher, K.J., ed., U.S. Geological Survey reprints from proceedings of the 1997 Georgia Water Resources Conference, March 20-22, 1997, The University of Georgia, Athens, Georgia, p. 49-50.
- Hippe, D.J., and Garrett, J.W., 1995, Water-quality conditions and mass transport in the Flint River related to the flood of July 1994, caused by tropical storm Alberto, in Hatcher, Kathryn J., ed., U.S. Geological Survey reprints from proceedings of the 1995 Georgia Water Resources Conference, April 11 and 12, 1995, The University of Georgia, Athens, Georgia, p. 27-32.
- Hippe, D.J., and Garrett, J.W., 1997, The spatial distribution of dissolved pesticides in surface water of the Apalachicola-Chattahoochee-Flint River Basin in relation to land use and pesticide runoff-potential ratings, May 1994, in Hatcher, K.J., ed., U.S. Geological Survey reprints from proceedings of the 1997 Georgia Water Resources Conference, March 20-22, 1997, The University of Georgia, Athens, Georgia, p. 4-13.
- Hippe, D.J., Hatless, H.H., Ham, L.K., and Hardy, P.S., 1995, Pesticide occurrence and temporal distribution in streams draining urban and agricultural basins in Georgia and Florida, 1993-94, in Hatcher, Kathryn J., ed., 1995, U.S. Geological Survey reprints from proceedings of the 1995 Georgia Water Resources Conference, April 11 and 12, 1995, The University of Georgia, Athens Georgia, p. 1-8.
- Hopkins, Evelyn H., and Hippe, Daniel J., 1999, Can land-use patterns serve as a predictor of pesticide occurrence within an urban landscape?, in Hatcher, K.J., ed., U.S. Geological Survey reprints from proceedings of the 1999 Georgia Water Resources Conference, March 30-31, 1999, The University of Georgia, Athens, Georgia, p. 180-185.
- Michener, William K., Blood, Elizabeth R., Box, Jayne Grim, Couch, Carol A., Golladay, Stephen W., Hippe, Daniel J., Mitchell, Robert J., and Palik,

Brian J., 1998, Tropical storm flooding of a coastal plain landscape: extensive floodplains ameliorated potential adverse effects on water quality, fishes, and molluscan communities: *BioScience*, vol. 48, no. 9, September 1998, p. 696-705.

Peters, N.E., Buell, G.R., and Frick, E.A., 1997 Spatial and temporal variability in nutrient concentrations in surface waters of the Chattahoochee River Basin near Atlanta, Georgia, *in* Hatcher, K.J., ed., U.S. Geological Survey reprints from proceedings of the 1997 Georgia Water Resources Conference, March 20-22, 1997, The University of Georgia, Athens, Georgia, p. 14-23.

Peters, N.E., Buell, G.R., and Frick, E.A., 1997 Spatial and temporal variability in nutrient concentrations in surface waters of the Chattahoochee River Basin near Atlanta, Georgia, USA, *in* Webb, Bruce, ed., Freshwater Contamination, IAHS Publication 243, IAHS Fifth Scientific Assembly, Rabat, Morocco, April 23-May 3, 1997, p. 153-165.

Peters, N.E., and Kandell, S.J., 1997, Evaluation of streamwater quality in the Atlanta region, *in* Hatcher, K.J., ed., U.S. Geological Survey reprints from proceedings of the 1997 Georgia Water Resources Conference, March 20-22, 1997, The University of Georgia, Athens, Georgia, p. 51-55.

Stell, Susan M., 1993, National Water Quality Assessment Program: Analysis of available information on pesticides for the Apalachicola-Chattahoochee-Flint River Basin: Proceedings of the 1993 Georgia Water Resources Conference, April 20-21, 1993, Athens, Georgia, 3 p.

Wangsness, David J., 1993, National Water-Quality Assessment Program: Overview of the Apalachicola-Chattahoochee-Flint River Basin: Proceedings of the 1993 Georgia Water Resources Conference, April 20-21, 1993, Athens, Georgia, 1 p.

Wangsness, David J., 1997, Design and implementation of the National Water-Quality Assessment Program--A United States example, *in* Murphy, I. Lyons, ed., 1997, Protecting Danube River Basin Resources, Kluwer Academic Publishers, The Netherlands, p. 89-103.

Pamphlets:

Hippe, D.J., Wangsness, D.J., Frick, E.A., and Garrett, J.W., 1994, Suspended sediment and agricultural chemicals in floodwaters caused by tropical storm Alberto: Based on U.S. Geological Survey Water-Resources Investigations Report 94-4183, 2 p.

Hippe, D.J., Wangsness, D.J., Frick, E.A., and Garrett, J.W., 1994, Are farmers contaminating the shallow ground water: Based on U.S. Geological Survey Water-Resources Investigations Report 94-4183, 2 p.

Hippe, D.J., Wangsness, D.J., Frick, E.A., and Garrett, J.W., 1994, Do the pesticides I use contaminate the rivers everyone uses: Based on U.S. Geological Survey Water-Resources Investigations Report 94-4183, 2 p.

Wangsness, D.J., Frick, E.A., Buell, G.R., and DeVivo, J.C., 1994, Effect of the restricted use of phosphate detergent and upgraded wastewater-treatment facilities on water quality in the Chattahoochee River near Atlanta, Georgia: Based on U.S. Geological Survey Open-File Report 94-99, 4 p.

NAWQA-ACFB Related Publications:

Reports published by U.S. Geological Survey using NAWQA data for objectives beyond the scope of the NAWQA Program.

Gregory, M.B., and Frick, E.A., 2001, Summary of fecal-coliform bacteria concentrations in streams of the Chattahoochee River National Recreation Area, Metropolitan Atlanta, Georgia, May-October 1994 and 1995: in Hatcher, K.J., ed., Proceedings of the 2001 Georgia Water Resources Conference, Athens, Ga., Carl Vinson Institute of Government, The University of Georgia, p. 718-721. (also listed under NAWQA Related Reports)

Gregory, M.B., and Frick, E.A., 2001, Indicator-bacteria concentrations in streams of the Chattahoochee River National Recreation Area, March 1999-April 2000: in Hatcher, K.J., ed., Proceedings of the 2001 Georgia Water Resources Conference, Athens, Ga., Carl Vinson Institute of Government, The University of Georgia, p. 510-513. (also listed under NAWQA Related Reports)

Georgia-Florida Coastal Plain

Circulars:

Berndt, Marian P., Hatzell, Hilda H., Crandall, Christy A., Turtora, Michael, Pittman, John R., and Oaksford, Edward T., 1998, Water quality in the Georgia-Florida Coastal Plain, Georgia and Florida, 1992-96: U.S. Geological Survey Circular 1151, 34 p.

Fact Sheets:

Berndt, Marian P., and Hatzell, Hilda H., 2001, Does diazinon pose a threat to a neighborhood stream in Tallahassee, Florida? U.S. Geological Survey Fact Sheet FS-143-00, 4 p.

Open-File Reports:

Berndt, Marian P., 1993, National Water-Quality Assessment Program--Preliminary assessment of nitrate distribution in ground water in the Georgia-Florida Coastal Plain Study Unit, 1972-90: U.S. Geological Survey Open-File Report 93-478, 8 p.

Hatzell, Hilda H., Oaksford, Edward T., and Ashbury, Clyde E., 1995, Sampling design and procedures for fixed surface-water sites in the Georgia-Florida Coastal Plain Study Unit, 1993: U.S. Geological Survey Open-File Report 95-279, 16 p.

Kantrowitz, I.H., 1991, National Water-Quality Assessment Program--The Georgia-Florida Coastal Plain: U.S. Geological Survey Open-File Report 91-152, 2 p.

Oaksford, Edward T., 1994, National Water-Quality Assessment Program--Preliminary results: Agricultural chemicals in the Suwannee River Basin, Georgia-Florida Coastal Plain Study Unit: U.S. Geological Survey Open-File Report 94-103, 2 p.

Water-Resources Investigations Reports:

Ashbury, Clyde E., and Oaksford, Edward T., 1997, A comparison of drainage basin nutrient inputs with instream nutrient loads for Seven Rivers in Georgia and Florida, 1986-90: U.S. Geological Survey Water-Resources Investigations Report 97-4006, 8 p.

Berndt, Marian P., 1996, Ground-water quality assessment of the Georgia-Florida Coastal Plain Study Unit--Analysis of available information on nutrients, 1972-92: U.S. Geological Survey Water-Resources Investigations Report 95-4039, 39 p.

Berndt, Marian P., Galeone, David R., Spruill, Timothy B., and Crandall, Christy A., 1998, Ground-water quality in three urban areas in the coastal plain of the southeastern United States, 1995: U.S. Geological Survey Water-Resources Investigations Report 97-4234, 25 p.

Berndt, Marian P., Oaksford, Edward T., Darst, Melanie R., and Marella, Richard L., 1996, Environmental setting and factors that affect water quality in the Georgia-Florida Coastal Plain Study Unit: U.S. Geological Survey Water-Resources Investigations Report 95-4268, 46 p.

Crandall, Christy A., 1996, Shallow ground-water quality in selected agricultural areas of South-Central Georgia, 1994: U.S. Geological Survey

- Water-Resources Investigations Report 96-4083, 23 p.
- Crandall, Christy A., and Berndt, Marian P., 1996, Water quality of surficial aquifers in the Georgia-Florida Coastal Plain: U.S. Geological Survey Water-Resources Investigations Report 95-4269, 28 p.
- Ham, Lisa K., 1997, Nutrients in the surface waters of the Georgia-Florida Coastal Plain Study Unit, 1993-95: U.S. Geological Survey Water-Resources Investigations Report 96-4197. 8 p.
- Ham, Lisa K., and Hatzell, Hilda H., 1996, Analysis of nutrients in the surface waters of the Georgia-Florida Coastal Plain Study Unit, 1970-91: U.S. Geological Survey Water-Resources Investigations Report 96-4037, 67 p.
- Hatzell, Hilda H., 1996, Pesticides in surface water from three agricultural basins in south-central Georgia, 1993-95: U.S. Geological Survey Water-Resources Investigations Report 96-4196, 12 p.
- Lewis, Lori J., and Turtora, Michael, 1998, Stream habitat characteristics at selected sites in the Georgia-Florida Coastal Plain: U.S. Geological Survey Water-Resources Investigations Report 98-4013, 23 p.
- Marella, Richard L., and Fanning, Julia L., 1996, National water quality assessment of the Georgia-Florida Coastal Plain Study Unit--Water withdrawals and treated wastewater discharges, 1990: U.S. Geological Survey Water-Resources Investigations Report 95-4084, 76 p.
- Pittman, John R., Hatzell, Hilda H., and Oaksford, Edward T., 1997, Spring contributions to water quantity and nitrate loads in the Suwannee River during base flow in July 1995: U.S. Geological Survey Water-Resources Investigations Report 97-4152, 12 p.

Articles and Papers:

- Chapelle, F.H., McMahon, P.B., Dubrovsky, N.M., Fujii, R.F., Oaksford, E.T., and Vroblesky, D.A., 1995, Deducing the distribution of terminal electron-accepting processes in hydrologically diverse groundwater systems, *Water Resources Research*, Vol. 31, No. 2, p. 359-371.
- Crandall, C.A., Katz, B.G., and Hirten, J.J., 1999, Hydrochemical evidence for mixing of river water and groundwater during high-flow conditions, lower Suwannee River basin, Florida, USA, *Hydrogeology Journal*, Vol. 7, p. 454-467.
- Frick, E.A., and Crandall, C.A., 1995, Water quality in surficial aquifers in two agricultural areas in Georgia, Alabama, and Florida, in Hatcher, Kathryn J., ed., 1995, U.S. Geological Survey reprints from proceedings of the 1995 Georgia Water Resources Conference, April 11 and 12, 1995, The University of Georgia, Athens, Georgia, p. 9-13.
- Hippe, D.J., Hatzell, H.H., Ham, L.K., and Hardy, P.S., 1995, Pesticide occurrence and temporal distribution in streams draining urban and agricultural basins in Georgia and Florida, 1993-94, in Hatcher, Kathryn J., ed., 1995, U.S. Geological Survey reprints from proceedings of the 1995 Georgia Water Resources Conference, April 11 and 12, 1995, The University of Georgia, Athens Georgia, p. 1-8.

Lower Tennessee River Basin

Fact Sheets:

Woodside, Michael D., and Hoos, Anne B., 2001, Nutrients in streams and rivers in the Lower Tennessee River Basin: U.S. Geological Survey Fact Sheet FS-025-01, 6 p.

Woodside, Michael D., and Mitchell III, Reavis L., 1998, National Water-Quality Assessment Program--Lower Tennessee River Basin: U.S. Geological Survey Fact Sheet FS-014-98, 4 p.

Water-Resources Investigations Reports:

Kingsbury, James A., Hoos, Anne B., and Woodside, Michael D., 1999, Environmental setting and water-quality issues in the Lower Tennessee River Basin: U.S. Geological Survey Water-Resources Investigations Report 99-4080, 44 p.

Hoos, Anne B., Robinson, John A., Aycock, Robert A., Knight, Rodney, R., and Woodside, Michael D., 2000, Sources, instream transport, and trends of nitrogen, phosphorus, and sediment in the Lower Tennessee River Basin, 1980-96: U.S. Geological Survey Water-Resources Investigations Report 99-4139, 96 p.

Mississippi Embayment

Circulars:

Kleiss, Barbara A., Coupe, Richard H., Gonthier, Gerard J., and Justus, Billy G., 2000, Water quality in the Mississippi Embayment, Mississippi, Louisiana, Arkansas, Missouri, Tennessee, and Kentucky, 1995-98: U.S. Geological Survey Circular 1208, 36 p.

Fact Sheets:

Mallory, Michael J., 1994, National Water-Quality Assessment Program--The Mississippi Embayment: U.S. Geological Survey Fact Sheet 94-047, 2 p.

Thurman, E. Michael, Zimmerman, Lisa R., Scribner, Elisabeth A., and Coupe Jr., Richard H., 1998, Occurrence of cotton pesticides in surface water of the Mississippi Embayment: U.S. Geological Survey Fact Sheet FS-022-98, 4 p.

Open-File Reports:

Justus, B.G., and Caskey, B.J., 2000, Occurrence of fishes at 38 sites in the Mississippi Embayment study unit, 1996-98: U.S. Geological Survey Open-File Report 99-605, 24 p.

Water-Resources Investigations Reports:

Coupe, R.H., 1998, Concentrations and loads of nitrogen and phosphorus in the Yazoo River, northwestern Mississippi, 1996-97: U.S. Geological Survey Water-Resources Investigations Report 98-4219, 17 p.

Coupe, R.H., 2000, Occurrence of pesticides in five rivers of the Mississippi Embayment study unit, 1996-98: U.S. Geological Survey Water-Resources Investigations Report 99-4159, 55 p.

Gonthier, Gerard J., 2000, Water quality of the deep tertiary aquifers of the Mississippi Embayment, 1996: U.S. Geological Survey Water-Resources Investigations Report 99-4131, 91 p.

Justus, B.G., Bray, D.G., Dossett, A., Hicks, M., Sarver, R., and Rogers, M., 2001, Comparison of multi-habitat aquatic macroinvertebrate sampling methods in streams of the Mississippi alluvial plain ecoregion: U.S. Geological Survey Water-Resources Investigations Report 00-4216, 16 p.

Strom, Eric W., 1997, Hydrogeologic interpretations of natural-gamma logs for 31 shallow wells in the Memphis, Tennessee, area: U.S. Geological Survey Water-Resources Investigations Report 97-4181, 43 p.

Articles and Papers:

Coupe, R.H., Thurman, E.M., and Zimmerman, L.R., 1998, Relation of usage to the occurrence of cotton and rice herbicides in three streams of the Mississippi Delta: Environmental Science & Technology, vol. 32, no. 23, p. 3673-3680.

Coupe, R.H., Manning, M.A., Foreman, W.T., Goolsby, D.A., and Majewski, M.S., 2000, Occurrence of pesticides in rain and air in urban and agricultural areas of Mississippi, April-September 1995: The Science of the Total Environment, vol. 248, p. 227-240.

Mobile River Basin

Fact Sheets:

Atkins, J. Brian, 1998, National Water-Quality Assessment Program--Mobile River Basin--U.S. Geological Survey Fact Sheet FS-100-98, 4 p.

Santee Basin & Coastal Drainages

Circulars:

Hughes, W. Brian, Abrahamsen, Thomas A., Maluk, Terry L., Reuber, Eric J., and Wilhelm, Lance J., 2000, Water-quality in the Santee River Basin and coastal drainages, North and South Carolina, 1995-98: U.S. Geological Survey Circular 1206, 32 p.

Fact Sheets:

- Hughes, Brian W., 1994, National Water-Quality Assessment Program--The Santee Basin and Coastal Drainage, N.C. and S.C. --U.S. Geological Survey Fact Sheet 94-010, 2 p.
- Maluk, Terry L., 1999, Pesticides and bacteria in an urban stream--Gills Creek, Columbia, South Carolina: U.S. Geological Survey Fact Sheet FS-131-98, 4 p
- Maluk, Terry L., and Kelley II, Robert E., 1998, Pesticides in surface waters of the Santee River Basin and coastal drainages, North and South Carolina: U.S. Geological Survey Fact Sheet FS-007-98, 6 p.
- Reuber, Eric J., 1999, Shallow ground-water quality in the coastal plain of Columbia, South Carolina, 1996: U.S. Geological Survey Fact Sheet FS-130-98, 6 p.
- Wilhelm, Lance J., and Maluk, Terry L., 1998, Fecal-indicator bacteria in surface waters of the Santee River Basin and Coastal Drainages, North and South Carolina, 1995-98: U.S. Geological Survey Fact Sheet FS-085-98, 6 p.

Open-File Reports:

- Abrahamsen, Thomas A., Hughes, W. Brian, Reuber, Eric J., and Sichertman, Terry L., 1997, Selected aquatic ecology, surface-water quality, and ground-water studies in the Santee River Basin and Coastal Drainages, North and South Carolina, 1996: U.S. Geological Survey Open-File Report 97-115, 49 p.
- Abrahamsen, T.A., 2001, Ecological data collected in the Santee River Basin and Coastal Drainages, North and South Carolina, 1996-1998: U.S. Geological Survey Open-File Report 01-352, 83 p.

Water-Resources Investigations Reports:

- Abrahamsen, Thomas A., 1999, Trace elements in the bed sediments and biota from streams in the Santee River Basin and coastal drainages, North and South Carolina, 1995-97: U.S. Geological Survey Water-Resources Investigations Report 99-4179, 26 p.
- Maluk, Terry L., 2000, Spatial and seasonal variability of nutrients, pesticides, bacteria, and suspended sediment in the Santee River Basin and Coastal Drainages, North and South Carolina, 1995-97: U.S. Geological Survey Water-Resources Investigations Report 00-4076, 46 p.
- Maluk, Terry L., and Abrahamsen, Thomas A., 1999, Results of water-quality sampling and ecological characterization of streams of Congaree Swamp, South Carolina, 1995-98: U.S. Geological Survey Water-Resources Investigations Report 99-4121, 76 p.
- Maluk, Terry L., Reuber, Eric J., and Hughes, W. Brian, 1998, Nutrients in waters

of the Santee River Basin and coastal drainages, North and South Carolina, 1973-93: U.S. Geological Survey Water-Resources Investigations Report 97-4172, 60 p.

Southern Florida

Circulars:

McPherson, Benjamin F., and Halley, Robert, 1997, The south Florida environment--A region under stress: U.S. Geological Survey Circular 1134, 61 p.

McPherson, Benjamin F., Miller, Ronald L., Haag, Kim H., and Bradner, Anne, 2000, Water quality in southern Florida, 1996-98: U.S. Geological Survey Circular 1207, 32 p.

Fact Sheets:

Haag, Kim H., Bernard, B.A., Bradner, L.A., McCulloch, D.S., McPherson, B.F., and Miller, R.L., 1998, National Water-Quality Assessment Program: Study design for data collection in the Southern Florida Study Unit, 1996-98: U.S. Geological Survey Fact Sheet FS-061-98, 4 p.

Haag, Kim H., and McPherson, Benjamin F., 1997, Organochlorine pesticides and PCBs in southern Florida fishes: Then and now: U.S. Geological Survey Fact Sheet FS 110-97, 4 p.

Marella, Richard L., 1998, Water-quality assessment of Southern Florida--Wastewater discharges and runoff: U.S. Geological Survey Fact Sheet FS-032-98, 6 p.

Open-File Reports:

McPherson, Benjamin F., 1994, National Water-Quality Assessment Program--Southern Florida: U.S. Geological Survey Open-File Report 94-57, 2 p.

Water-Resources Investigations Reports:

Miller, Ronald L., McPherson, Benjamin F., and Haag, Kim H., 1999, Water quality in the southern Everglades and Big Cypress Swamp in the vicinity of the Tamiami Trail, 1996-97: U.S. Geological Survey Water-Resources Investigations Report 99-4062, 16 p.

Articles and Papers:

Miller, R.L., and McPherson, B.F., 2001, Occurrence and distribution of contaminants in bottom sediment and water of the Barron River Canal, Big Cypress National Preserve, Florida, October 1998: Florida Scientist, v. 64, no. 1, p. 1-19.

Other Reports:

Boozer, Timothy, 2000, Water-quality data from the ground-water program of the Southern Florida Study Unit of the USGS NAWQA Program: U.S. Geological Survey <http://srv3sfltpa.er.usgs.gov/gw/gwintro.html>

Upper Tennessee River

Circulars:

Hampson, Paul S., Treece, M.W., Jr., Johnson, Gregory C., Ahlstedt, Steven a., and Connell, Joseph F., 2001, Water quality in the Upper Tennessee River Basin, Tennessee, North Carolina, Virginia, and Georgia 1994-98: U.S. Geological Survey Circular 1205, 32 p.

Fact Sheets:

U.S. Geological Survey, 1994, National Water-Quality Assessment Program--The Upper Tennessee River Basin Study Unit: U.S. Geological Survey Fact Sheet 150-95, 2 p.

Open-File Reports:

Johnson, Gregory C., and Treece, M.W., Jr., 1998, Phosphorus in streams of the Upper Tennessee River Basin, 1970-93: U.S. Geological Survey Open-File Report 98-532, 6 p.

Treece, M.W., Jr., and Johnson, Gregory C., 1997, Nitrogen in streams of the Upper Tennessee River Basin, 1970-93: U.S. Geological Survey Open-File Report 97-117, 4 p.

Water-Resources Investigations Reports:

Johnson, Gregory C., and Connell, Joseph F., 2001, Shallow ground-water quality adjacent to burley tobacco fields in northeastern Tennessee and southwest Virginia: U.S. Geological Survey Water-Resources Investigations Report 01-4009, 37 p.

CENTRAL REGION STUDY UNITS

Acadian-Ponchartrain

Fact Sheets:

Demas, Charles R., Demcheck, Dennis K., Anderson, Mary L., and Garon, John D.,
1999, National Water-Quality Assessment Program--Acadian-Ponchartrain
Study Unit: U.S. Geological Survey Fact Sheet FS-185-99, 4 p.

Central Oklahoma Aquifer

Circulars:

Mosier, E.L., and Bullock, J.H., Jr., 1988, Review of the general geology and solid-phase geochemical studies in the vicinity of the Central Oklahoma aquifer: U.S. Geological Survey Circular 1019, 18 p.

Open-File Reports:

Breit, G.N., Rice, C., Esposito, K., and Schlottmann, J.L., 1990, Mineralogy and petrography of permian rocks in the Central Oklahoma aquifer: U.S. Geological Survey Open-File Report 90-678, 50 p.

Christenson, S.C., Morton, R.B., and Mesander, B.A., 1990, Hydrogeologic maps of the Central Oklahoma aquifer, Oklahoma: U.S. Geological Survey Open-File Report 90-579, 3 p.

Christenson, S.C., and Parkhurst, D.L., 1987, Ground-water-quality assessment of the Central Oklahoma aquifer, Oklahoma: Project Description: U.S. Geological Survey Open-File Report 87-235, 30 p.

Christenson, Scott, and Carpenter, Lyn, 1992, eds., Ground-water quality of the Central Oklahoma (Garber-Wellington) aquifer conference: Proceedings, February 20, 1992: U.S. Geological Survey Open-File Report 92-116, 24 p.

Ferree, D.M., Christenson, S.C., Rea, A.H., and Mesander, B.A., 1992, Ground-water-quality assessment of the Central Oklahoma aquifer, Oklahoma: Hydrologic, Water-Quality, and Quality-Assurance Data 1987-90: U.S. Geological Survey Open-File Report 92-641, 1-193 p.

Mosier, E.L., Briggs, P.H., Crock, J.G., Kennedy, K.R., McKown, D.M., Vaughn, R.B., and Welsch, E.P., 1990, Analyses of subsurface Permian rock samples from the Central Oklahoma aquifer: U.S. Geological Survey Open-File Report 90-456, 65 p.

Mosier, E.L., Bullock, J.H., Jr., Fey, D.L., Kennedy, K.R., McKown, D.M., Vaughn, R.B., and Welsch, E.P., 1991, Elemental composition of surficial materials from Central Oklahoma: U.S. Geological Survey Open-File Report 91-442, 62 p.

Mosier, E.L., Papp, C.S.E., Motooka, J.M., Kennedy, K.R., and Riddle, G.O., 1991, Sequential extraction analyses of drill core samples, Central Oklahoma aquifer: U.S. Geological Survey Open-File Report 91-347, 42 p.

Parkhurst, D.L., Christenson, S.C., and Breit, G.N., 1992, Ground-water-quality assessment of the Central Oklahoma aquifer, Oklahoma: Geochemical and geohydrologic investigations: U.S. Geological Survey Open-File Report 92-642, 214 p.

Parkhurst, D.L., Christenson, S.C., and Schlottmann, J.L., 1989, Ground-water quality assessment of the Central Oklahoma Aquifer, Oklahoma--Analysis of available water-quality data through 1987: U.S. Geological Survey Open-File Report 88-728, 80 p.

Schlottmann, J.L., and Funkhouser, R.A., 1991, Chemical analyses of water samples and geophysical logs from cored test holes drilled in the Central Oklahoma aquifer, Oklahoma: U.S. Geological Survey Open-File Report 91-464, 58 p.

Water-Resources Investigations Reports:

Scott, J.C., 1989, A computerized data-base system for land-use and land-cover data collected at ground-water sampling sites in the pilot National Water-Quality Assessment Program: U.S. Geological Survey Water-Resources Investigations Report 89-4172, 139 p.

Scott, J.C., 1990, Computerized stratified random site-selection approaches for design of a ground-water-quality sampling network: U.S. Geological Survey Water-Resources Investigations Report 90-4101, 109 p.

Scott, J.C., 1991, Computer software for converting ground-water and water-quality data from the National Water Information System for use in a geographic information system: U.S. Geological Survey Water-Resources Investigations Report 90-4200, 55 p.

Scott, J.C., 1990, A statistical processor for analyzing simulations made using the modular finite-difference ground-water flow model: U.S. Geological Survey Water-Resources Investigations Report 89-4159, 218 p.

Central Nebraska River Basin

Circulars:

Frenzel, S.A., Swanson, R.B., Huntzinger, T.L., Stamer, J.K., Emmons, P.J., and Zelt, R.B., 1998, Water quality in the Central Nebraska Basins, Nebraska, 1992-95: U.S. Geological Survey Circular 1163, 33 p.

Fact Sheets:

Emmons, Patrick J., 1996, Water quality in a wet meadow, Platte River Valley, Central Nebraska: U.S. Geological Survey Fact Sheet FS-097-96, 4 p.

Emmons, Patrick J., and Bowman, Phillip R., 2000, Ground-water flow and water quality of the Indian Island well field near Grand Island, Nebraska, 1994-95: U.S. Geological Survey Fact Sheet FS-179-99, 4 p.

Parnell, James M., 2000, Shallow ground-water quality in the Platte River Valley alluvium, Nebraska, October-November 1997: U.S. Geological Survey Fact Sheet FS-151-00, 6 p.

Stamer, John K., and Wieczorek, Michael E., 1995, Pesticides in streams in central Nebraska: U.S. Geological Survey Fact Sheet 232-95, 4 p.

Open-File Reports:

Frenzel, Steven A., 1996, Occurrence of selected contaminants in water, fish tissue, and streambed sediments in Central Nebraska, 1992-95: U.S. Geological Survey Open-File Report 96-223, 6 p.

Hardgree, M., and McChesney, J., 1994, A selected bibliography on the hydrology of the Platte River Basin in Nebraska through 1991: Survey Open-File Report 94-496, ASCII text formatted diskette.

Huntzinger, Thomas L., and Stamer, John K., 1996, Science for a sustainable future of the Great Plains: Water-quality assessment in central Nebraska: U.S. Geological Survey Open-File Report 96-140, 4 p.

Huntzinger, T.L., 1991, National Water-Quality Assessment Program--The Central Nebraska Basins: U.S. Geological Survey Open-File Report 91-97, 2 p.

Johnson, Steven M., and Swanson, Robert B., 1994, Operational procedures for collecting water-quality samples at monitoring sites on Maple Creek near Nickerson and the Platte River at Louisville, Eastern Nebraska: U.S. Geological Survey Open-File Report 94-121, 24 p.

Swanson, Robert B., and Emmons, Patrick J., 2000, Water-quality assessment of the Central Nebraska Basins--Design for field operations, 1992 through 1985: U.S. Geological Survey Open-File Report 99-454, 27 p.

Zelt, R.B., and Jordan, R.R., 1993, Water-quality assessment of the Central Nebraska Basins: Summary of data for recent conditions through 1990: U.S. Geological Survey Open-File Report 93-422, 178 p.

Zelt, R.B., and Sharpe, Jennifer B. 2000, Land cover data for Central Nebraska, 1991, classified from Landsat-5 Thematic Mapper Imagery: Path-31, Row-31 Quadrilateral: U.S. Geological Survey Open-File Report 96-323, CD-ROM.

Zelt, R.B., and Sharpe, Jennifer B. 2000, Land cover data for Central Nebraska, 1993, classified from Landsat-5 Thematic Mapper Imagery: Path-30, Row-32 Quadrilateral: U.S. Geological Survey Open-File Report 96-369, CD-ROM.

- Zelt, Ronald B., 1995, Elevation contours of the bedrock surface, North Platte 1- by 2-degree quadrangle, Nebraska, digitized from a published 1:250,000-scale geologic map: U.S. Geological Survey Open-File Report 95-330, MS-DOS formatted diskette.
- Zelt, Ronald B., 1996, Basin-level habitat characteristics of selected streams in Central Nebraska: U.S. Geological Survey Open-File Report 96-361, 25 p.
- Zelt, Ronald B., Dugan, Jack T., and Kelly, Michael S., 1995, Land-cover sampling designs, data-collection procedures, and land-cover data for the central Nebraska Basins, 1993-94: U.S. Geological Survey Open-File Report 95-166, MS-DOS formatted diskette.
- Zelt, Ronald B., and Patton, Erik J., 1995, Isopachs of quaternary deposits, Fremont 1- by 2-degree quadrangle and part of Omaha quadrangle, Nebraska, digitized from a published 1:250,000-scale geologic map: U.S. Geological Survey Open-File Report 95-721, MS-DOS formatted diskette.

Water-Resources Investigations Reports:

- Frenzel, Steven A., 1996, An application of bioassessment metrics and multivariate techniques to evaluate Central Nebraska streams: U.S. Geological Survey Water-Resources Investigations Report 96-4152, 12 p.

Articles and Papers:

- Boyd, Robert A., 1996, Distribution of nitrate and orthophosphate in selected streams in central Nebraska: *Journal of the American Water Resources Association*, vol. 32, no. 6, p.1247-1257.
- Frankforter, J.D., 1995, Association between local land use and herbicide concentrations in wetlands of the Platte River Basin, Nebraska in Campbell, Kenneth L., ed., 1995, Versatility of wetlands in the agricultural landscape: *American Society of Agricultural Engineers*, p. 539-547.
- Lee, K.E., Huggins, D.G., and Thurman, E.M., 1995, Effects of hydrophyte community structure on atrazine and alachlor degradation in wetlands in Campbell, Kenneth L., ed., 1995, Versatility of wetlands in the agricultural landscape: *American Society of Agricultural Engineers*, p. 525-538.
- Frenzel, Steven A., and Swanson, Robert B., 1996, Relations of fish community composition to environmental variables in streams of central Nebraska, USA: *Environmental Management*, vol. 20, no. 5, p. 689-705.
- Helgesen, J.O., Zelt, R.B., and Stamer, J.K., 1994, Nitrogen and phosphorus in water as related to environmental setting in Nebraska: *Water Resources Bulletin*, vol. 30, no. 5, p. 809-822.
- Huntzinger, T.L., and Ellis, M.J., 1993, Central Nebraska River Basin, Nebraska: *Water Resources Bulletin* July/August 1993, vol. 29, no. 4, p. 533-574. (Reprinted 1993, U.S. Geological Survey's National Water-Quality Assessment Program (NAWQA), American Water Resources Association Monograph Series No. 19.)
- Stamer, John K., 1996, Water supply implications of herbicide sampling: *American Water Works Association Journal*, vol. 88, no. 2, February 1996, p. 76-85.
- Stamer, John K., and Huntzinger, Thomas L., 1994, Spring herbicide "flush" may deal cities a problem: *Nebraska Farmer*, vol. 136, no. 8, May 1994, p. 10-13.

- Stamer, John K., Swanson, Robert. B., and Jordan, Paul R., 1994, Atrazine in spring runoff as related to environmental setting in Nebraska, 1992: American Water Resources Association Water Resources Bulletin, vol. 30, no. 5, October 1994, p. 823-831.
- Stamer, John K., and Wieczorek, Michael E., 1996, Pesticide distributions in surface water: American Water Works Association Journal, vol. 88, no. 11, November 1996, p. 79-87.
- Swanson, Robert B., 1995, Methods for monitoring physical, chemical, and biological characteristics at selected wetlands in the Platte River Basin, Nebraska *in* Campbell, Kenneth L., ed., 1995, Versatility of wetlands in the agricultural landscape: American Society of Agricultural Engineers, p. 515-524.
- Zelt, Ronald B., Brown, Jesslyn, F., and Kelly, Michael S., 1995, Validation of national land-cover characteristics data for regional water-quality assessment: Geocarto International, vol. 10, no. 4, p. 69-80.
- Zelt, Ronald B., and Frenzel, Steven A., 1996, Physical-habitat characteristics of the Platte River, Nebraska--Assessment using surveys and spatial analyses: 1996 ESRI User Conference, 16th, Palm Springs, CA, May 10-24, 1996, ESRI WEB site URL:
<http://www.esri.com/library/userconf/proc96/TO300/PAP286/P286.HTML>

Eastern Iowa Basins

Circulars:

Kalkhoff, Stephen J., Barnes, Kimberlee K., Becher, Kent D., Savoca, Mark E., Schnoebelen, Douglas J., Sadorf, Eric M., Porter, Stephen D. and Sullivan, Daniel J., 2001, Water quality in the Eastern Iowa Basins, Iowa and Minnesota, 1996-98: U.S. Geological Survey Circular 1210, 37 p.

Fact Sheets:

Kalkhoff, S.J., 1994, National Water-Quality Assessment Program--Eastern Iowa Basins: U.S. Geological Survey Fact Sheet 94-031, 2 p.

Kalkhoff, S.J., and Van Metre, P.C., 1997, Organochlorine compounds in a sediment core from coralville reservoir, Iowa: U.S. Geological Survey Fact Sheet FS-129-97, 4 p.

Kolpin, Dana, Hallberg, George, Sneck-Fahrer, Debra, and Libra, Robert, 1997, Agricultural chemicals in Iowa's ground water, 1982-95--What are the trends? U.S. Geological Survey Fact Sheet FS-116-97, 4 p. (also listed under NS--Nutrients, and NS--Pesticides)

Roberts, Linda R. 1997, Occurrence of selected organochlorine compounds in fish tissue from Eastern Iowa streams, 1995: U.S. Geological Survey Fact Sheet FS-027-97, 4 p.

Savoca, Mark E., Tobias, Jennifer, L., Sadorf, Eric M., and Birkenholtz, Trevor L., 1997, Herbicides and nitrates in the Iowa River alluvial aquifer prior to changing land use, Iowa County, Iowa, 1996: U.S. Geological Survey Fact Sheet FS-085-97, 4 p.

Open-File Reports:

Akers, Kimberlee K.B., Schnoebelen, Douglas J., Savoca, Mark E., Roberts, Linda R., and Becher Kent D., 1999, Water-quality assessment of the Eastern Iowa Basins: Hydrologic and biologic data, September 1995 through September 1996: U.S. Geological Survey Open-File Report 99-66, 154 p.

Akers, Kimberlee K.B., Montgomery, Denise L., Christiansen, Daniel, Savoca, Mark E., Schnoebelen, Douglas J., Becher, Kent D., and Sadorf, Eric M., 2000, Water-quality assessment of the Eastern Iowa Basins: Hydrologic and biologic data, October 1996 through September 1998: U.S. Geological Survey Open-File Report 00-67, 359 p.

Water-Resources Investigations Reports:

Brigham, Allison R., and Sadorf, Eric M., 2001, Benthic invertebrate assemblages and their relation to physical and chemical characteristics of streams in Eastern Iowa streams, 1996-98: U.S. Geological Survey Water-Resources Investigations Report 00-4256, 44 p.

Sadorf, Eric M., and Linhart, S. Michael, 2000, Ground-water quality in alluvial aquifers in the Eastern Iowa Basins, Iowa and Minnesota: U.S. Geological Survey Water-Resources Investigations Report 00-4106, 46 p.

Savoca, Mark E., Sadorf, Eric M., and Akers, Kymm K., 1999, Ground-water quality in the eastern part of the Silurian-Devonian and Upper Carbonate aquifers in the Eastern Iowa Basins, Iowa and Minnesota, 1996: U.S. Geological Survey Water-Resources Investigations Report 98-4224, 31 p.

- Savoca, Mark E., Sadorf, Eric M., Linhart, S. Mike, and Akers, Kymm K.B., 2000, Effects of land use and hydrogeology on the water quality of alluvial aquifers in eastern Iowa and southern Minnesota, 1997: U.S. Geological Survey Water-Resources Investigations Report 99-4246, 38 p.
- Schnoebelen, Douglas J., Becher, Kent D., Bobier, Matthew W., and Wilton, Thomas, 1999, Selected nutrients and pesticides in streams of the Eastern Iowa Basins, 1970-95: U.S. Geological Survey Water-Resources Investigations Report 99-4028, 65 p.
- Sullivan, Daniel J., 2000, Fish communities and their relation to environmental factors in the Eastern Iowa Basins in Iowa and Minnesota, 1996: U.S. Geological Survey Water-Resources Investigations Report 00-4194, 20 p.

Articles and Papers:

- Becher, Kent D., Schnoebelen, Douglas J., and Akers, Kimberlee K.B., 2000, Nutrients discharged to the Mississippi River from eastern Iowa watersheds: *Journal of the American Water Resources Association*, vol. 36, no. 1, February 2000, p. 161-173.
- Kalkhoff, S.J., 2000, Summary of the major water-quality findings from the Eastern Iowa Basins study unit of the National Water-Quality Assessment Program: *Iowa Groundwater Quarterly*, Fall 2000, vol. 11, no. 3, p. 20-21.
- Kalkhoff, Stephen J., Barnes, Kimberlee K., Becher, Kent D., Savoca, Mark E., Schnoebelen, Douglas J., Sadorf, Eric M., Porter, Stephen D., Sullivan, Daniel J., and Creswell, John, 2001, Water quality in the Eastern Iowa Basins: *Integrated Crop Management IC-486(23)*, p. 185-186.
- Kalkhoff, S.J., Kolpin, Dana W., Thurman, E.M., Ferrer, I., and Barcelo, D., 1998, Degradation of chloroacetanilide herbicides: The prevalence of sulfonic and oxanilic acid metabolites in Iowa groundwaters and surface waters: *Environmental Science & Technology*, vol. 32, no. 11, p. 1738-1740.
- Kolpin, Dana W., Kalkhoff, Stephen J., Goolsby, Donald A., Sneek-Fahrer, Debra A., and Thurman, E. Michael, 1997, Occurrence of selected herbicides and herbicide degradation products in Iowa's ground water, 1995: *Ground Water*, vol. 35, no. 4, July-August 1997, p. 679-688.
- Kolpin, Dana W., Sneek-Fahrer, Debra A., Hallberg, George R., and Libra, Robert D., 1997, Temporal trends of selected agricultural chemicals in Iowa's ground water, 1982-1995: Are things getting better?: *Journal of Environmental Quality*, vol. 26, no.4, July-August 1997, p. 1007-1017.

High Plains

Fact Sheets:

Dennehy, K.F., 2000, High Plains Regional Ground-Water Study: U.S. Geological Survey Fact Sheet FS-091-00, 6 p.

McMahon, P.B., 2000, A reconnaissance study of the effect of irrigated agriculture on water quality in the Ogallala Formation, central High Plains: U.S. Geological Survey Fact Sheet FS-009-00, 6 p.

Qi, Sharon L., 2000, National Water-Quality Assessment Program--High Plains Regional Ground-Water Study web site: U.S. Geological Survey Fact Sheet FS-049-00, 2p.

Water-Resources Investigations Reports:

Litke, David W., 2001, Historical water-quality data for the High Plains Regional Ground-Water Study Area in Colorado, Kansas, Nebraska, New Mexico, Oklahoma, South Dakota, Texas, and Wyoming 1930-98: U.S. Geological Survey Water-Resources Investigations Report 00-4254, 65 p.

McMahon, P.B., 2001, Vertical gradients in water chemistry in the Central High Plains Aquifer, southwestern Kansas and Oklahoma Panhandle, 1999: U.S. Geological Survey Water-Resources Investigations Report 01-4028, 47 p.

Pope, Larry M., Bruce, Breton W., and Hansen, Cristi V., 2001, Ground-water quality in Quaternary deposits of the central High Plains Aquifer, south-central Kansas, 1999: U.S. Geological Survey Water-Resources Investigations Report 00-4259, 44 p.

Articles and Papers:

Bruce, Breton, W., and Oelsner, Gretchen P., 2001, Contrasting water quality from paired domestic/public supply wells, Central High Plains: Journal of the American Water Resources Association, vol. 37, no. 5, p. 1389-1403.

McMahon, P.B., Bruce, B.W., Becker, M.F., Pope, L.M., and Dennehy, K.F., 2000, Occurrence of nitrous oxide in the Central High Plains Aquifer, 1999: Environmental Science and Technology, vol. 34, no. 23, p. 4873-4877.

Lower Kansas River Basin

Fact Sheets:

Stamer, John K., Gunderson, Kathryn D., and Ryan, Barbara J., 1995, Atrazine concentrations in the Delaware River, Kansas: U.S. Geological Survey Fact Sheet FS-001-94, 1 p.

Open-File Reports:

Fallon, James D., and McChesney, Jennifer A., 1993, Surface-water-quality assessment of the Lower Kansas River Basin, Kansas and Nebraska: Project Data, November 1986 through April 1990: U.S. Geological Survey Open-File Report 93-51, 594 p.

Helgesen, J.O., 1995, Surface-water-quality assessment of the Lower Kansas River Basin, Kansas and Nebraska: Results of investigations, 1987-90: U.S. Geological Survey Open-File Report 94-365, 129 p.

Jordan, P.R., and Stamer, J.K., 1991, Surface-water-quality assessment of the Lower Kansas River Basin in Kansas and Nebraska: Analysis of available data through 1986: U.S. Geological Survey Open-File Report 91-75, 171 p.

Juracek, K.E., Kenny, J.F., and Perry, C.A., 1992, [Video], Herbicides, water quality and you: U.S. Geological Survey Open-File Report 92-127.

Stamer, J.K., Jordan, P.R., Engberg, R.A., and Dugan, J.T., 1987, Surface-water-quality assessment of the Lower Kansas River Basin, Kansas and Nebraska: Project Description: U.S. Geological Survey Open-File Report 87-105, 36 p.

Tanner, D.Q., Sanzolone, R.F., and Zelt, R.B., 1987, Surface-water-quality assessment of the Lower Kansas River Basin, Kansas and Nebraska: Concentrations of major metals and trace elements in streambed sediments: U.S. Geological Survey Open-File Report 90-581, 73 p.

Water-Resources Investigations Reports:

Jordan, P.R., 1995, Surface-water-quality assessment of the Lower Kansas River Basin, Kansas and Nebraska: Suspended-sediment conditions, May 1987 through April 1990, and trends, 1963 through April 1990: U.S. Geological Survey Water-Resources Investigations Report 94-4187, 36 p.

Pope, L.M., 1995, Surface-water-quality assessment of the Lower Kansas River Basin, Kansas and Nebraska: Dissolved oxygen and escherichia coli bacteria in streams during low flow, July 1988 through July 1989: U.S. Geological Survey Water-Resources Investigations Report 94-4077, 102 p.

Tanner, D.Q., and Ryder, J.L., 1996, Surface-water-quality assessment of the Lower Kansas River Basin, Kansas and Nebraska: Selected metals, arsenic, and phosphorus in streambed sediments of first- and second-order streams, 1987: U.S. Geological Survey Water-Resources Investigations Report 94-4196, 13 p.

Tanner, D.Q., 1995, Surface-water-quality assessment of the Lower Kansas River Basin, Kansas and Nebraska: Distribution of trace-element concentrations in dissolved and suspended phases, streambed sediment, and fish samples, May 1987 through April 1990: U.S. Geological Survey Water-Resources Investigations Report 94-4201, 31 p.

Water-Supply Papers:

Jordon, P.R., and Stamer, J.K., 1995, Surface-water-quality assessment of the Lower Kansas River Basin, Kansas and Nebraska--Analysis of available data through 1986: U.S. Geological Survey Water-Supply Paper 2352-B, 161 p.

Helgesen, J.O., ed., 1996, Surface-water-quality assessment of the Lower Kansas River Basin, Kansas and Nebraska: Results of investigations, 1987-90: U.S. Geological Survey Water-Supply Paper 2451, p. 129.

Articles and Papers:

Stamer, J.K., and Huntzinger, T., 1994, Spring herbicide "flush" may deal cities a problem: Nebraska Farmer, May 1994, p. 10-13. (also listed under CNBR)

Stamer, J.K., and Zelt, R.B., 1994, Organonitrogen herbicides in the Lower Kansas River Basin: Journal American Water Works Association, vol. 86, no. 1, p. 93-104.

Stamer, J.K., and Zelt, R.B., 1991, Distribution of atrazine and similar nitrogen containing herbicides, Lower Kansas River Basin: U.S. Geological Survey Yearbook 1991, p. 76-79.

Zelt, R.B., 1991, Applications of GIS to the management and analysis of hydrologic information: GIS World, vol. 4, no. 5, August 1991.

Other Reports:

U.S. Environmental Protection Agency Region VII and U.S. Geological Survey, WRD, 1993, Program and proceedings of symposium on agriculture nonpoint sources of contaminants: A focus on herbicides, September 28-29, 1993, Lawrence, Kansas.

Northern Rockies Intermontane Basins

Fact Sheets:

Tornes, Lan H., 1997, National Water-Quality Assessment Program--Northern Rockies Intermontane Basins: U.S. Geological Survey Fact Sheet FS 97-158, 4 p.

MacCoy, Dorene E., 2001, PCBs in tissue of fish from the Spokane River, Washington, 1999: U.S. Geological Survey Fact Sheet FS-067-01, 6 p.

Open-File Reports:

Clark, David W., 1994, National Water-Quality Assessment Program--Northern Rockies Intermontane Basins: U.S. Geological Survey Open-File Report 94-124, 2 p.

Water-Resources Investigations Reports:

Maret, Terry R., and Dutton, DeAnn M., 1999, Summary of information of synthetic organic compounds and trace elements in tissue of aquatic biota, Clark Fork-Pend Oreille and Spokane River Basins, Montana, Idaho, and Washington, 1974-96: U.S. Geological Survey Water-Resources Investigations Report 98-4254, 55 p.

Maret, T.R., and Skinner, K.D., 2000, Concentrations of selected trace elements in fish tissue and streambed sediment in the Clark Fork-Pend Oreille and Spokane River Basins, Montana, Idaho, and Washington, 1998: U.S. Geological Survey Water-Resources Investigations Report 00-4159, 26 p.

Ozark Plateaus

Circulars:

Petersen, James C., Adamski, James C., Bell, Richard W., Davis, Jerri V., Femmer, Suzanne R., Freiwald, David A., and Joseph, Robert L., 1998, Water quality in the Ozark Plateaus, Arkansas, Kansas, Missouri, and Oklahoma, 1992-95: U.S. Geological Survey Circular 1158, 33 p.

Fact Sheets:

- Adamski, James C., 1997, Nitrate and pesticides in ground water of the Ozark Plateaus region in Arkansas, Kansas, Missouri, and Oklahoma: U.S. Geological Survey Fact Sheet FS-182-96, 4 p.
- Adamski, James C., 1997, Radium and radon in ground water of the Ozark region in Arkansas, Kansas, Missouri, and Oklahoma: U.S. Geological Survey Fact Sheet FS-181-96, 4 p.
- Femmer, S.R., 1995, National Water-Quality Assessment Program--Ozark Plateaus biological study: U.S. Geological Survey Fact Sheet 116-95, 2 p.
- Femmer, S.R., and Joseph, R.L., 1994, National Water-Quality Assessment Program--Ozark Plateaus surface-water quality study: U.S. Geological Survey Fact Sheet 94-015, 2 p.
- Petersen, James C., Adamski, James C., Bell, Richard W., Davis, Jerri V., Femmer, Suzanne R., Freiwald, David A., and Joseph, Robert L., 1999, Quality of Ozark streams and ground water, 1992-95: U.S. Geological Survey Fact Sheet 99-092, 4 p.

Open-File Reports:

- Femmer, Suzanne R., 1997, Water-quality assessment of the Ozark Plateaus Study Unit, Arkansas, Kansas, Missouri, and Oklahoma--Habitat data and characteristics at selected sites, 1993-95: U.S. Geological Survey Open-File Report 97-236, 44 p.
- Freiwald, D.A., 1991, National Water-Quality Assessment Program--Ozark Plateaus: U.S. Geological Survey Open-File Report 91-162, 2 p.
- Pugh, A.L., and Adamski, J.C., 1993, National Water-Quality Assessment Program--Ozark Plateaus ground-water study: U.S. Geological Survey Open-File Report 93-434, 2 p.

Water-Resources Investigations Reports:

- Adamski, James C., 1997, Nutrients and pesticides in ground water of the Ozark Plateaus in Arkansas, Kansas, Missouri, and Oklahoma: U.S. Geological Survey Water-Resources Investigations Report 96-4313, 28 p.
- Adamski, James C., Peterson, James C., Freiwald, David A., and Davis, Jerri V., 1994, Environmental and hydrologic setting of the Ozark Plateaus Study Unit, Arkansas, Kansas, Missouri, and Oklahoma: U.S. Geological Survey Water-Resources Investigations Report 94-4022, 69 p.
- Bell, Richard W., Joseph, Robert L., and Freiwald, David A., 1996, Water-quality assessment of the Ozark Plateaus Study Unit, Arkansas, Kansas, Missouri, and Oklahoma--Summary of information on pesticides, 1970-90: U.S. Geological Survey Water-Resources Investigations Report 96-4003, 51 p.

- Bell, Richard W., Davis, Jerri V., Femmer, Suzanne R., and Joseph, Robert L., 1997, Water-quality assessment of the Ozark Plateaus Study Unit, Arkansas, Kansas, Missouri, and Oklahoma--Organic compounds in surface water, bed sediment, and biological tissue, 1992-95: U.S. Geological Survey Water-Resources Investigations Report 97-4031, 30 p.
- Davis, Jerry V., and Bell, Richard W., 1998, Water-quality assessment of the Ozark Plateaus Study Unit, Arkansas, Kansas, Missouri, and Oklahoma--Nutrients, bacteria, organic carbon, and suspended sediment in surface water, 1993-95: U.S. Geological Survey Water-Resources Investigations Report 98-4164, 56 p.
- Davis, Jerry V., Petersen, James C., Adamski, James C., and Freiwald, David A., 1995, Water-quality assessment of the Ozark Plateaus Study Unit, Arkansas, Kansas, Missouri, and Oklahoma--Analysis of information on nutrients, suspended sediment, and suspended solids, 1970-92: U.S. Geological Survey Water-Resources Investigations Report 95-4042, 112 p.
- Petersen, James C., 1998, Water-quality assessment of the Ozark Plateaus Study Unit, Arkansas, Kansas, Missouri, and Oklahoma--Fish communities in streams of the Ozark Plateaus and their relations to selected environmental factors: U.S. Geological Survey Water-Resources Investigations Report 98-4155, 34 p.

Articles and Papers:

- Adamski, James C., 2000, Geochemistry of the Springfield Plateau aquifer of the Ozark Plateau Province in Arkansas, Kansas, Missouri, and Oklahoma, USA: Hydrological Processes, vol. 14, p. 849-866.
- Adamski, James C., and Pugh, Aaron L., 1996, Occurrence of pesticides in ground water of the Ozark Plateaus Province: Journal of the American Water Resources Association, vol. 32, no. 1, February 1996, p. 97-105.
- Petersen, James C., Usrey, Faron D., Keith, William E., and Wise, James A., 1998, A recent record of the white sucker, *Catostomus commersoni*, in the White River System Arkansas: Proceedings Arkansas Academy of Science, vol. 50, 1996, p. 141-142.

Red River of the North Basin

Circulars:

Stoner, J.D., Lorenz, D.L., Goldstein, R.M., Brigham, M.E., and Cowdery, T.K., 1998, Water quality in the Red River of the North Basin, Minnesota, North Dakota, and South Dakota, 1992-95: U.S. Geological Survey Circular 1169, 33 p.

Fact Sheets:

Stoner, J.D., and Lorenz, D.L., 1995, National Water-Quality Assessment Program: Data Collection in the Red River of the North Basin, Minnesota, North Dakota, and South Dakota, 1992-95: U.S. Geological Survey Fact Sheet 172-95, 4 p.

Open-File Reports:

Cowdery, T.K., 1995, Similar agricultural areas, different ground-water quality: Red River of the North Basin, 1993-95: U.S. Geological Survey Open-File Report 95-441, 4 p.

Stoner, J.D., 1991, National Water-Quality Assessment Program--Red River of the North: U.S. Geological Survey Open-File Report 91-151, 2 p.

Tornes, L.H. and Brigham, M.E., 1995, Pesticide amounts are small in streams in the Red River Basin of the North 1993-94: U.S. Geological Survey Open-File Report 95-283, 2 p.

Water-Resources Investigations Reports:

Brigham, Mark E., Goldstein, Robert M., and Tornes, Lan H., 1998, Trace elements and organic chemicals in stream-bottom sediments and fish tissues, Red River of the North Basin, Minnesota, North Dakota, and South Dakota, 1992-95: U.S. Geological Survey Water-Resources Investigations Report 97-4043, 32 p.

Cowdery, Timothy K., 1997, Shallow ground-water quality beneath cropland in the Red River of the North Basin, Minnesota and North Dakota, 1993-95: U.S. Geological Survey Water-Resources Investigations Report 97-4001, 52 p.

Cowdery, Timothy K., 1998, Ground-water quality in the Red River of the North Basin, Minnesota and North Dakota, 1991-95: U.S. Geological Survey Water-Resources Investigations Report 98-4175, 15 p.

Goldstein, R.M., 1995, Aquatic communities and contaminants in fish from streams of the Red River of the North Basin, Minnesota and North Dakota: U.S. Geological Survey Water-Resources Investigations Report 95-4047, 34 p.

Goldstein, Robert M., Stauffer, Joseph C., Larson, Peter R., and Lorenz, David L., 1996, Relation of physical and chemical characteristics of streams to fish communities in the Red River of the North Basin, Minnesota and North Dakota, 1993-95: U.S. Geological Survey Water-Resources Investigations Report 96-4227, 57 p.

Lorenz, D.L., and Stoner, J.D., 1996, Sampling design for assessing water quality of the Red River of the North Basin, Minnesota, North Dakota, and South Dakota, 1993-1995: U.S. Geological Survey Water-Resources Investigations Report 96-4129, 2 maps.

Menheer, Michael A., and Brigham, Mark E., 1997, Ground-water sampling methods and quality-control data for the Red River of the North Basin, Minnesota, North Dakota, and South Dakota, 1993-95: U.S. Geological Survey Water-Resources Investigations Report 96-4317, 34 p.

Stoner, J.D., Cowdery, T.K., Puckett, L.J., 1997, Ground-water age dating and other tools used to assess land-use effects on water quality: U.S. Geological Survey Water-Resources Investigations Report 97-4150, 6 p.

Strobel, M.L., and Haffield, N.D., 1995, Salinity in surface water in the Red River of the North Basin, Northeastern North Dakota: Water-Resources Investigations Report 95-4082, 14 p.

Tornes, L.H., and Brigham, M.E., 1994, Nutrients, suspended sediment, and pesticides in waters of the Red River of the North Basin, Minnesota, North Dakota, and South Dakota, 1970-1990: U.S. Geological Survey Water-Resources Investigations Report 93-4231, 62 p.

Tornes, L.H., Brigham, M.E., and Lorenz, D.L., 1997, Nutrients, suspended sediment, and pesticides in streams in the Red River of the North Basin, Minnesota, North Dakota, and South Dakota, 1993-95: U.S. Geological Survey Water-Resources Investigations Report 97-4053, 70 p.

Articles and Papers:

Brigham, M.E., 1994, Pesticides detected in surface waters and fish of the Red River of the North Drainage Basin: North Dakota Water Quality Symposium Proceedings, March 30-31, 1994, Fargo, North Dakota, p. 256-269.

Brigham, M.E., Tornes, L.H., 1996, Trace elements and organic contaminants in stream sediments from the Red River of the North Basin, 1992-95: North Dakota Water Quality Symposium Proceedings, March 20-21, 1996, Bismarck, North Dakota State University Extension Service, p. 135-144.

Cowdery, T.K., and Goff, K.L., 1994, Nitrogen concentrations near the water table of the Sheyenne Delta aquifer beneath cropland areas, Ransom and Richland counties, North Dakota: North Dakota Water Quality Symposium Proceedings, March 30-31, 1994, Fargo, North Dakota, p. 89-102.

Goldstein, R.M., Brigham, M.E., and Stauffer, J.C., 1996, Comparison of mercury concentrations in liver, muscle, whole bodies, and composites of fish bodies, and composites of fish from the Red River of the North: Canadian Journal of Fisheries and Aquatic Sciences, vol. 53, no. 2, p. 244-252.

Goldstein, R.M., Simon, T.P., Bailey, P.A., Ell, M., Pearson, E., Schmidt, K., Enblom, J.W., 1994, Concepts for an index of biotic integrity for streams of the Red River of the North Basin: North Dakota Water Quality Symposium Proceedings, March 30-31, 1994, Fargo, North Dakota, p. 169-180.

Puckett, Larry J., 1999, Estimation of nitrate contamination of an Agro-Ecosystem Outwash Aquifer using a nitrogen mass-balance budget: Journal of Environmental Quality, vol. 28, no. 6, Nov.-Dec. 1999, p. 2015-2025. (also listed under Nutrient National Synthesis)

Stauffer, Joseph C., and Goldstein, Robert M., 1997, Comparison of three qualitative habitat indices and their applicability to prairie streams: North American Journal of Fisheries Management, vol. 17, no. 2, May 1997, p. 348-361.

Stoner, Jeffrey D., Lorenz, David L., Wiche, Gregg J., and Goldstein, Robert M., 1993, Red River of the North Basin Minnesota, North Dakota, and South Dakota: Water Resources Bulletin July/August 1993, vol. 29, no. 4, p. 575-615. (Reprinted 1993, U.S. Geological Survey's National Water-Quality

Assessment Program (NAWQA), American Water Resources Association
Monograph Series No. 19.)

Strobel, M.L., and Gerla, P.J., 1992, Effects of saline ground-water discharge on water quality in the Red River of the North, northeastern North Dakota: Preliminary observations of the hydrologic setting: North Dakota Water Quality Symposium Proceedings, 1992, Bismarck, North Dakota, p. 60-82.

Strobel, M.L., Kelly, J.B., Carlson, S.T., and Salender, H.A., 1994, Flowing wells in the northeastern North Dakota and their possible effect on water quality in the Red River of the North Basin: 1994 North Dakota Water Quality Symposium Proceedings, March 30-31, 1994, Fargo, North Dakota, p. 247-255.

Rio Grande Valley

Circulars:

Levings, Gary W., Healy, Denis F., Richey, Steven F., and Carter, Lisa F., 1998, Water quality in the Rio Grande Valley, Colorado, New Mexico, and Texas, 1992-95: U.S. Geological Survey Circular 1162, 39 p.

Fact Sheets:

Lee, R.W., and Wilson, J.T., 1997, Trace elements and organic compounds associated with riverbed sediments in the Rio Grande/Rio Bravo Basin, Mexico and Texas: U.S. Geological Survey Fact Sheet FS-098-97, 6 p.

Van Metre, P.C., Manler, B.J., and Callender, E., 1996, Water-quality trends in the Rio Grande/Rio Bravo Basin using sediment cores from reservoirs: U.S. Geological Survey Fact Sheet FS-221-96, 8 p. (also listed under National Synthesis--Water-Quality Trends)

Open-File Reports:

Ellis, Sherman R., 1991, National Water-Quality Assessment Program--The Rio Grande Valley: U.S. Geological Survey Open-File Report 91-160, 2 p.

Miller, Lynn K., Moquino, Robert L., and Hill, Bruce A., 1997, Water-quality assessment of the Rio Grande Valley, Colorado, New Mexico, and Texas--Water-quality data for water-column, suspended-sediment, and bed-material samples collected at selected surface-water sites in the upper Rio Grande Basin, June and September 1994: U.S. Geological Survey Open-File Report 97-644, 18 p.

Richey, S.F. and Ellis, S.R., 1993, National Water-Quality Assessment Program --Water use in the Rio Grande Valley, 1990: U.S. Geological Survey Open-File Report 93-456, 2 p.

Water-Resources Investigations Reports:

Anderholm, Scott K., 1996, Water-quality assessment of the Rio Grande Valley, Colorado, New Mexico, and Texas--Shallow ground-water quality of a land-use area in the San Luis valley, South-Central Colorado, 1993: U.S. Geological Survey Water-Resources Investigations Report 96-4144, 94 p.

Anderholm, Scott K., 1997, Water-quality assessment of the Rio Grande Valley, Colorado, New Mexico, and Texas--Shallow ground-water quality and land use in the Albuquerque area, central New Mexico, 1993: U.S. Geological Survey Water-Resources Investigations Report 97-4067, 73 p.

Anderholm, S K., Radell, M.J., and Richey, S.F., 1995, Water-quality assessment of the Rio Grande Valley Study Unit, Colorado, New Mexico, and Texas--Analysis of selected nutrient, suspended-sediment, and pesticide data: U.S. Geological Survey Water-Resources Investigations Report 94-4061, 203 p.

Bexfield, Laura M., and Anderholm, Scott K., 1997, Water-quality assessment of the Rio Grande Valley, Colorado, New Mexico, and Texas--Ground-water quality in the Rio Grande flood plain, Cochiti Lake, New Mexico, to El Paso, Texas, 1995: U.S. Geological Survey Water-Resources Investigations Report 96-4249, 93 p.

Carter, Lisa F., 1997, Water-quality assessment of the Rio Grande Valley, Col-

orado, New Mexico, and Texas--Fish communities at selected sites, 1993-95: U.S. Geological Survey Water-Resources Investigations Report 97-4017, 27 p.

Carter, Lisa F., 1997, Water-quality assessment of the Rio Grande Valley, Colorado, New Mexico, and Texas--Organic compounds and trace elements in bed sediment and fish tissue, 1992-93: U.S. Geological Survey Water-Resources Investigations Report 97-4002, 23 p.

Healy, Denis F., 1996, Water-quality assessment of the Rio Grande Valley, Colorado, New Mexico, Texas--Occurrence and distribution of selected pesticides and nutrients at selected surface-water sites in the Mesilla Valley, 1994-95: U.S. Geological Survey Water-Resources Investigations Report 96-4069, 85 p.

Healy, Denis F., 1996, Water-quality assessment of the Rio Grande Valley, Colorado, New Mexico, Texas--Summary and analysis of water-quality data for the basic-fixed-site network, 1993-95: U.S. Geological Survey Water-Resources Investigations Report 97-4212, 82 p.

Stogner, Robert W., Sr., 2001, Nitrate concentrations, 1936-99, and pesticide concentrations, 1990-99, in the unconfined aquifer in the San Luis Valley, Colorado: U.S. Geological Survey Water-Resources Investigations Report 01-4131, 12 p.

Articles and Papers:

Carter, Lisa F. and Porter, Stephen D, 1997, Trace-element accumulation by *Hygrohypnum Ochraceum* in the Upper Rio Grande Basin, Colorado and New Mexico, USA: Environmental Toxicology and Chemistry, vol. 16, no. 12, p. 2521-2528.

Ellis, Sherman R., Levings, Gary W., Carter, Lisa F., Richey, Steven F., and Radell, Mary Jo, 1993, Rio Grande Valley, Colorado, New Mexico, and Texas: Water Resources Bulletin July/August 1993, vol. 29, no. 4, p. 617-646. (Reprinted 1993, U.S. Geological Survey's National Water-Quality Assessment Program (NAWQA), American Water Resources Association Monograph Series No. 19.

South Central Texas

Circulars:

Bush, Peter, W., Ardis, Ann F., Fahlquist, Lynne, Ging, Patricia B., Hornig, C. Evan, and Lanning-Rush, Jennifer, 2000, Water quality in South-Central Texas, Texas, 1996-98: U.S. Geological Survey Circular 1212, 32 p.

Fact Sheets:

U.S. Geological Survey, 1994, National Water-Quality Assessment Program--South-Central Texas: U.S. Geological Survey Fact Sheet 94-048, 2 p.

Cederberg, J.R., Ging, P.B., and Ourso, R.T., 1998, Monitoring of selected water-quality constituents near the freshwater/saline-water interface of the Edwards Aquifer, July 1996-December 1997: U.S. Geological Survey Fact Sheet FS-103-98, 4 p.

Fahlquist, Lynne, and Slattery, R.N., 1997, Water-quality assessment of the Comal Springs Riverine System, New Braunfels, Texas, 1993-94: U.S. Geological Survey Fact Sheet FS-099-97, 6 p.

Ging, Patricia B., 1999, Water-quality assessment of South-Central-Texas: Comparison of water quality in surface-water samples collected manually and by automated samplers: U.S. Geological Survey Fact Sheet FS-172-99, 6 p.

Ging, Patricia B., 1999, Water-quality assessment of South-Central-Texas: Comparison of water quality in surface-water samples collected manually and by automated samplers: U.S. Geological Survey Fact Sheet FS-172-99, 6 p. Ging, Patricia B., VanMetre, Peter C., and Callender, Edward, 1999, Bottom sediments of Lorence Creek Lake, San Antonio, Texas, reflect contaminant trends in an urbanizing watershed: U.S. Geological Survey Fact Sheet FS-149-99, 4 p.

Slattery, R.N., and Fahlquist, Lynne, 1997, Water-quality summary of the San Marcos springs Riverine system, San Marcos, Texas, July-August 1994: U.S. Geological Survey Fact Sheet FS-059-97, 4 p.

Open-File Reports:

Ourso, Robert T., and Hornig, Evan C., 1999, Stream and aquifer biology of South-Central Texas: A literature review, 1973-97: U.S. Geological Survey Open-File Report 99-243, 38 p.

Water-Resources Investigations Reports:

Ging, Patricia B., 1999, Water-quality assessment of South-central Texas: Descriptions and comparisons of nutrient, pesticide, and volatile organic compounds at three intensive fixed sites, 1996-98: U.S. Geological Survey Water-Resources Investigations Report 99-4155, 24 p.

Ging, Patricia B., Judd, Linda J., and Wynn, Kirby H., 1997, Water-quality assessment of South-Central Texas--Occurrence and distribution of volatile organic compounds in surface water and ground water, 1983-94, and implications for future monitoring: U.S. Geological Survey Water-Resources Investigations Report 97-4028, 20 p.

Southern High Plains

Open-File Reports:

Woodward, D.G., and Diniz, C.G., 1994, National Water-Quality Assessment Program--Southern High Plains, Texas and New Mexico: U.S. Geological Survey Open-File Report 94-71, 2 p.

South Platte River Basin

Circulars:

Dennehy, Kevin F., Litke, David W., Tate, Cathy M., Qi, Sharon L., McMahon, Peter B., Bruce, Breton W., Kimbrough, Robert A., and Heiny, Janet S., 1998, Water quality in the South Platte River Basin, Colorado, Nebraska, and Wyoming, 1992-95: U.S. Geological Survey Circular 1167, 38 p.

Fact Sheets:

Bruce, B.W., 1995, Denver's urban ground-water quality: Nutrients, pesticides, and volatile organic compounds: U.S. Geological Survey Fact Sheet 106-95, 2 p.

Heiny, J.S., 1995, Review of sediment data in the South Platte River Basin, Colorado, 1980-92: U.S. Geological Survey Fact Sheet 153-95, 2 p.

Heiny, Janet S., 1997, Organochlorine compounds and trace elements in streambed sediment and fish tissue, South Platte River Basin--Colorado, Nebraska, and Wyoming: U.S. Geological Survey Fact Sheet FS-040-97, 4 p.

Kimbrough, R.A., 1995, Are streams in agricultural areas contaminated by pesticides? --U.S. Geological Survey Fact Sheet 104-95 2 p.

Litke, D.W., 1995, Nutrients in the South Platte River, 1993-95: U.S. Geological Survey Fact Sheet 105-95, 2 p.

McMahon, P.B., 1995, Some bacteria are beneficial!: U.S. Geological Survey Fact Sheet 102-95, 2 p.

Qi, Sharon L., and Dennehy, Kevin F., 1997, World Wide Web home page for the South Platte NAWQA: U.S. Geological Survey Fact Sheet FS-242-96, 2 p.

Tate, C.M., and Martin, L.M., 1995, Fish communities in the Plains Region of the South Platte River August 1993 and 1994: U.S. Geological Survey Fact Sheet 154-95, 2 p.

Open-File Reports:

Dennehy, K.F., 1991, National Water-Quality Assessment Program--South Platte River Basin: U.S. Geological Survey Open-File Report 91-155, 2 p.

Dennehy, Kevin F., and Ortiz-Zayas, Jorge R., 1993, Bibliography of water-related studies, South Platte River Basin--Colorado, Nebraska, and Wyoming: U.S. Geological Survey Open-File Report 93-106, 278 p.

Tate, Cathy M., and Ortiz-Zayas, Jorge, R., 1995, Inventory of biological investigations related to stream water quality in the South Platte River Basin, Colorado, Nebraska, and Wyoming, 1891-1994: U.S. Geological Survey Open-File Report 95-379, 12 p.

Tate, C.M., Dennehy, K.F., and Luft, G., 1999, South Platte River--Lifeline of a region: U.S. Geological Survey Open-File Report 99-56, video.

Water-Resources Investigations Reports:

Bruce, Breton W., and McMahon, Peter B. 1998, Shallow ground-water quality of selected land-use/aquifer settings in the South Platte River Basin, Colorado and Nebraska, 1993-95: U.S. Geological Survey Water-Resources Investigations Report 97-4229, 48 p.

- Dennehy, Kevin F., Litke, David W., McMahon, Peter B., Heiny, Janet S., and Tate, Cathy M., 1995, Water-quality assessment of the South Platte River Basin, Colorado, Nebraska, and Wyoming--Analysis of available nutrient, suspended-sediment, and pesticide data, water years 1980-92: U.S. Geological Survey Water-Resources Investigations Report 94-4095, 145 p.
- Kimbrough, Robert A., and Litke, David W., 1998, Pesticides in surface water in agricultural and urban areas of the South Platte River Basin, from Denver, Colorado, to North Platte, Nebraska, 1993-94: U.S. Geological Survey Water-Resources Investigations Report 97-4230, 66 p.
- Litke, David W., 1996, Sources and loads of nutrients in the South Platte River, Colorado and Nebraska, 1994-95: U.S. Geological Survey Water-Resources Investigations Report 96-4029, 31 p.
- Litke, David W., and Kimbrough, Robert A., 1998, Water-quality assessment of the South Platte River Basin, Colorado, Nebraska, and Wyoming--Environmental setting and water-quality of fixed sites, 1993-95: U.S. Geological Survey Water-Resources Investigations Report 97-4220, 61 p.
- McMahon, Peter B., Lull, Kenneth J., Dennehy, Kevin F., and Collins, Jim A., 1995, Quantity and quality of ground-water discharge to the South Platte River, Denver to Fort Lupton, Colorado, August 1992 through July 1993: U.S. Geological Survey Water-Resources Investigations Report 95-4110, 71 p.

Articles and Papers:

- Bradley, P.M., McMahon, P.B., and Chapelle, F.H., 1995, Effects of carbon and nitrate on denitrification in bottom sediments of an effluent-dominated river: Water Resources Research, vol. 31, no. 4, April 1995, p. 1063-1068.
- Bruce, B.W., and McMahon, P.B., 1996, Shallow ground-water quality beneath a major urban center: Denver, Colorado, USA, Journal of Hydrology, vol. 186, no. 1-4, p. 129-151.
- Chappell, F.H., McMahon, P.B., Dubrovsky, N.M, Fujii, R.F., Oaksford, E.T., and Vroblesky, D.A., 1995, Deducing the distribution of terminal electron-accepting processes in hydrologically diverse groundwater systems, Water Resources research, vol. 31, no. 2, p. 359-371.
- Dennehy, Kevin F., Litke, David W., Tate, Cathy M., and Heiny, Janet S., 1993, South Platte River Basin, Colorado, Nebraska, and Wyoming: Water Resources Bulletin July/August 1993, vol. 29, no. 4, p. 647-683. (Reprinted 1993, U.S. Geological Survey's National Water-Quality Assessment Program (NAWQA), American Water Resources Association Monograph Series No. 19.)
- Heiny, J.S., and Tate, C.M., 1997, Concentration, distribution, and comparison of selected trace elements in bed sediment and fish tissue in the South Platte River Basin, USA, 1992-93: Archives of Environmental Contamination and Toxicology, vol. 32, no.1-15, p. 246-259.
- Kimbrough, Robert A., and Litke, David W., 1996, Pesticides in streams draining agricultural and urban areas in Colorado: Environmental Science and Technology, vol. 30, no. 3, 1996, p. 908-916.
- McMahon, P.B., and Böhlke, J.K., 1996, Denitrification and mixing in a stream-aquifer system: Effects on nitrate loading to surface water: Journal of Hydrology, vol. 186, no. 1-4, p. 105-128.
- McMahon, P.B., Böhlke, J.K., and Bruce, B.W., 1999, Denitrification in marine shales in northeastern Colorado: Water Resources Research, vol. 35, no. 5, May 1999, p. 1629-1642.

- McMahon, P.B., and Bruce, B.W., 1997, Distribution of terminal electron-accepting processes in an aquifer having multiple contaminant sources: *Applied Geochemistry*, vol. 12, p. 507-516.
- McMahon, P.B., and Dennehy, K.F., 1999, N₂O emissions from a nitrogen-enriched river: *Environmental Science & Technology*, vol. 33, no. 1, 1999, p. 21-25.
- McMahon, P.B., Litke, D.W., Paschal, J.E., and Dennehy, K.F., 1994, Ground water as a source of nutrients and atrazine to streams in the South Platte River Basin: *Water Resources Bulletin*, vol. 30, no. 3, p. 521-530.
- McMahon, P.B., Tindall, J.A., Collins, J.A., and Lull, K.J., 1995, Hydrologic and geochemical effects on oxygen uptake in bottom sediments of an effluent-dominated river: *Water Resources Research*, vol. 31, no. 10, October 1995, p. 2561-2569.
- Minter, Jill Benedict, 1996, Comparison of macroinvertebrate communities from three substrates in the lower South Platte River: Degree of Science Thesis, Colorado State University, Fall 1996, 221 p.
- Pfenning, K., and McMahon, P.B., 1996, Effect of nitrate, organic carbon, and temperature on denitrification rates in an alluvial aquifer: *Journal of Hydrology*, vol. 187, p. 283-295.
- Pocernich, M., and Litke, D.W., 1997, Nutrient concentrations in wastewater-treatment-plant effluents, South Platte River Basin: *Water Resources Bulletin*, vol.33, no.1, p. 205-214.
- Tate, C.M., and Heiny, J.S., 1996, Organochlorine compounds in bed sediment and fish tissue in the South Platte River Basin, USA, 1992-1993: *Archives of Environmental Contamination and Toxicology*, vol. 30, no. 1, 1996, p. 62-78.
- Tate, C.M., and Heiny, J.S., 1995, The ordination of benthic invertebrate communities in the South Platte River Basin in relation to environmental factors: *Freshwater Biology*, vol. 33, no. 3, Denver, Colorado, p 439-454.

Trinity River Basin

Circulars:

Land, Larry F., Moring, J. Bruce, Van Metre, Peter C., Reutter, David C., Mahler, Barbara J., Shipp, Allison A., and Ulery, Randy L., 1998, Water quality in the Trinity River Basin, Texas, 1992-95: U.S. Geological Survey Circular 1171, 39 p.

Fact Sheets:

- Brown, Mariann F., 1995, Water-quality assessment of the Trinity River Basin, Texas--Pesticides in a suburban watershed, Arlington, 1993-94: U.S. Geological Survey Fact Sheet 159-95, 4 p.
- Land, L.F., 1996, Water-quality assessment of the Trinity River Basin, Texas--Pesticides in urban and agricultural streams, 1993-95: U.S. Geological Survey Fact Sheet FS-178-96, 2 p.
- Land, Larry F., 1995, Water-quality assessment of the Trinity River Basin, Texas--Data collection, 1992-95: U.S. Geological Survey Fact Sheet 090-95, 2 p.
- Moring, J. Bruce, 1996, Occurrence of polycyclic aromatic hydrocarbons in urban streams as assessed using semipermeable membrane devices, Dallas-Fort Worth metropolitan area, Texas: U.S. Geological Survey Fact Sheet 081-96, 2 p.
- Shipp, Allison A., 1995, Water-quality assessment in the Trinity River Basin, Texas--Pesticide occurrence in streams, winter and spring 1994: U.S. Geological Survey Fact Sheet 160-95, 2 p.
- Shipp, Allison A., 1995, Water-quality assessment in the Trinity River Basin, Texas, nutrients concentrations in streams winter and spring 1994: U.S. Geological Survey Fact Sheet 231-95, 2 p.
- U.S. Geological Survey, 1995, National Water-Quality Assessment Program--Summary of pesticide data collected on East Fork Double Bayou, near Anahuac, Texas, March to September 1994: U.S. Geological Survey Fact Sheet 140-95, 2 p.
- U.S. Geological Survey, 1995, National Water-Quality Assessment Program--Summary of pesticide data collected on Whites Bayou near Anahuac, Texas, March to September 1994: U.S. Geological Survey Fact Sheet 141-95, p 2.
- U.S. Geological Survey, 1995, National Water-Quality Assessment Program--Summary of pesticide data collected on West Prong Old River near Dayton, Texas, March to September 1994: U.S. Geological Survey Fact Sheet 142-95 2 p.
- Ulery, R.L., 1995, National Water-Quality Assessment Program--Pesticides in the Trinity River Basin Study Unit, Texas, 1968-91: U.S. Geological Survey Fact Sheet 088-95, 2 p.
- Van Metre, P.C., Land, L.F., and Braun, C.L., 1996, Water-quality trends using sediment cores from White Rock Lake, Dallas, Texas: U.S. Geological Survey Fact Sheet FS-217-96, 4 p. (also listed under National Synthesis--Water-Quality Trends)

Open-File Reports:

- Brown, M.F., 1996, Water-quality assessment of the Trinity River Basin, Texas--Pesticides in a coastal prairie agricultural area, 1994-95: U.S. Geological Survey Open-File Report 96-124, 6 p.
- Land, L.F., 1991, National Water-Quality Assessment Program--The Trinity River Basin: U.S. Geological Survey Open-File Report 91-158, 2 p.
- Land, Larry F., 1996, Nutrients in two coastal prairie streams draining agricultural areas, 1994-95: U.S. Geological Survey Open-File Report 96-558, 4 p.
- Land, L.F., and Shipp, A.A., 1996, Nutrients in streams draining an agricultural and an urban area, 1993-95: U.S. Geological Survey Open-File Report 96-322, 6 p.
- Ruetter, David C., 1996, National water-quality assessment of the Trinity River Basin, Texas--Well and water-quality data from the outcrop of Woodbine aquifer in urban Tarrant County, 1993: U.S. Geological Survey Open-File Report 96-413, 32 p.

Water-Resources Investigations Report:

- Land, L.F., 1997, Water-quality assessment of the Trinity River Basin, Texas--Nutrients and pesticides in the watersheds of Richland and Chambers Creeks, 1993-95: U.S. Geological Survey Water-Resources Investigations Report 97-4132, 23 p.
- Land, L.F., and Brown, M.F., 1996, Water-quality assessment of the Trinity River Basin, Texas--Pesticides in streams draining an urban and an agricultural area, 1993-95: U.S. Geological Survey Water-Resources Investigations Report 96-4114, 22 p.
- Moring, J. Bruce, 1997, Occurrence and distribution of organochlorine compounds in biological tissue and bed sediment from streams in the Trinity River Basin, Texas, 1992-93: U.S. Geological Survey Water-Resources Investigations Report 97-4057, 19 p.
- Ruetter, David C., and Dunn, David D., 2000, Water-quality assessment of the Trinity River Basin, Texas--Ground-water quality of the Trinity, Carrizo-Wilcox, and Gulf Coast Aquifers, February-August 1994: U.S. Geological Survey Water-Resources Investigations Report 99-4233, 56 p.
- Ulery, R.L., and Brown, M.F., 1995, Water-quality assessment of the Trinity River Basin, Texas--Review and analysis of available pesticide information, 1968-91: U.S. Geological Survey Water-Resources Investigations Report 94-4218, 88 p.
- Van Metre, Peter C., and Reutter, David C., 1995, Water-quality assessment of the Trinity River Basin, Texas--Analysis of available information on nutrients and suspended sediments, 1974-91: U.S. Geological Survey Water-Resources Investigations Report 94-4086, 71 p.

Articles and Papers:

- Bradbury, J.P., and Van Metre, P.C., 1997, A land-use and water-quality history of White Rock Lake Reservoir, Dallas, Texas, based on a sediment core: *Journal of Paleolimnology*, vol. 17, p. 227-237. (also listed under National Synthesis--Water-Quality Trends)

- Moring, J. Bruce, and Rose, Donna R., 1997, Occurrence and concentrations of polycyclic aromatic hydrocarbons in semipermeable membrane devices and clams in three urban streams of the Dallas-Fort Worth metropolitan area, Texas: *Chemosphere*, vol. 34, no. 3, p. 551-566.
- Ulery, Randy L., Van Metre, Peter C., and Crossfield, Allison S., 1993, Trinity River Basin Texas: *Water Resources Bulletin* July/August 1993, vol. 29, no. 4, p. 685-711. (Reprinted 1993, U.S. Geological Survey's National Water-Quality Assessment Program (NAWQA), American Water Resources Association Monograph Series No. 19.)
- Van Metre, P.C., and Callender, E., 1996, Identifying water-quality trends in the Trinity River, Texas, USA, 1969-1992, using sediment cores from Lake Livingston: *Environmental Geology*, vol. 28, no. 4, p. 190-200. (also listed under National Synthesis--Water-Quality Trends)
- Van Metre, P.C., and Callender, E., 1997, Water-quality trends in White Rock Creek Basin from 1912-94 identified sediment cores from White Rock Lake reservoir, Dallas, Texas: *Journal of Paleolimnology*, vol. 17, p. 239-249. (also listed under National Synthesis--Trace Elements)

Upper Colorado River Basin

Circulars:

Spahr, Norman E., Apodaca, Lori E., Deacon, Jeffrey R., Bails, Jeffrey B., Bauch, Nancy J., Smith, Michelle, and Driver, Nancy E., 2001, Water quality in the Upper Colorado River Basin, Colorado, 1996-98: U.S. Geological Survey Circular 1214, 33 p.

Fact Sheets:

Apodaca, Lori E., Stephens, Verlin C., and Driver, Nancy E., 1996, What affects water quality in the Upper Colorado River Basin? --U.S. Geological Survey Fact Sheet 109-96, 4 p.

Deacon, Jeffrey R., 1997. Biological and contaminant investigations, Upper Colorado river Basin-- What's been done and how can the information be used? U.S. Geological Survey Fact Sheet FS-032-97, 2 p.

Deacon, Jeffrey R., and Scott, Mize V., 1997, Effects of water quality and habitat on composition of fish communities in the Upper Colorado River Basin: U.S. Geological Survey Fact Sheet 122-97, 6 p.

Spahr, Norman E., Driver, Nancy E., and Stephens, Verlin C., 1996, The Upper Colorado River National Water-Quality Assessment Program surface-water-monitoring network: U.S. Geological Survey Fact Sheet 191-96, 4 p.

Stephens, Verlin C., and Deacon, Jeffrey R., 1998, Distribution and concentrations of selected organochlorine pesticides and PCB's in streambed sediment and whole-body fish in the Upper Colorado River Basin, 1995-96: U.S. Geological Survey Fact Sheet FS-167-97, 6 p.

Wynn, Kirby H., 1999, Fish-community assessment in Gore Creek, Colorado, 1998: U.S. Geological Survey Fact Sheet 186-99, 6 p.

Wynn, Kirby H., and Spahr, Norman E., 1998, Low-flow water-quality characterization of the Gore Creek watershed, Upper Colorado River Basin, Colorado, August 1996: U.S. Geological Survey Fact Sheet FS-160-97, 4 p.

Open-File Reports:

Bauch, Nancy J., and Apodaca, Lori E., 1995, Bibliography, indices, and data sources of water-related studies, Upper Colorado River Basin, Colorado and Utah, 1872-1995: U.S. Geological Survey Open-File Report 95-450, 282 p.

Driver, N.E., 1994, National Water-Quality Assessment Program--Upper Colorado River Basin: U.S. Geological Survey Open-File Report 94-102, 2 p.

Mize, Scott V., and Deacon, Jeffrey R., 2001, Algal data from selected sites in the Upper Colorado River Basin, Colorado, water years 1996-97: U.S. Geological Survey Open-File Report 00-266, 61 p.

Spahr, Norman E., and Deacon, Jeffrey R., 1998, Water-quality characteristics of the Slate and East Rivers, Colorado, during the winter recreational season, December 1996: U.S. Geological Survey Open-File Report 98-279, 9 p.

Wynn, Kirby H., and Spahr, Norman E., 1997, Nitrogen and phosphorus data for surface water in the Upper Colorado River Basin, Colorado, 1980-94: U.S. Geological Survey Open-File Report 97-233, 14 p.

Water-Resources Investigations Report

- Apodaca, Lori E., 1998, Analysis of ground-water-quality data of the Upper Colorado River Basin, water years 1972-92: U.S. Geological Survey Water-Resources Investigations Report 97-4240, 31 p.
- Apodaca, Lori E., 2000, Ground-water-quality assessment of selected wells in the Fraser River Watershed, Colorado, August 1998: U.S. Geological Survey Water-Resources Investigations Report 99-4243, 8 p.
- Apodaca, Lori E., and Bails, Jeffrey B., 1999, Fraser River watershed, Colorado--Assessment of available water-quantity and water-quality data through water year 1997: U.S. Geological Survey Water-Resources Investigations Report 98-4255, 58 p.
- Apodaca, Lori E., and Bails, Jeffrey B., 2000, Water quality in alluvial aquifers of the Southern Rocky Mountains physiographic province, Upper Colorado river Basin, Colorado, 1997: U.S. Geological Survey Water-Resources Investigations Report 99-4222, 68 p.
- Apodaca, Lori E., Driver, Nancy E., Stephens, Verlin C., and Spahr, Norman E., 1996, Environmental setting and implications on water quality, Upper Colorado River Basin, Colorado and Utah: U.S. Geological Survey Water-Resources Investigations Report 95-4263, 33 p.
- Bauch, Nancy J., and Spahr, Norman E., 2000, Pesticides in surface waters of the Upper Colorado River Basin, Colorado, 1996-98: U.S. Geological Survey Water-Resources Investigations Report 00-4005, 46 p.
- Deacon, Jeffrey R., Mize, Scott V., Spahr, Norman E., 1999, Characterization of selected biological, chemical, and physical conditions at fixed sites in the Upper Colorado River Basin, Colorado, 1995-98: U.S. Geological Survey Water-Resources Investigations Report 99-4181, 71 p.
- Deacon, Jeffrey R., and Spahr, Norman E., 1998, Water-quality and biological community characterization at selected sites on the Eagle River, Colorado, September 1997 and February 1998: U.S. Geological Survey Water-Resources Investigations Report 98-4236, 8 p.
- Deacon, Jeffrey R., and Stephens, Verlin C., 1996, Summary of biological and contaminant investigations related to stream water quality and environmental setting in the Upper Colorado River Basin, 1938-95: U.S. Geological Survey Water-Resources Investigations Report 96-4172, 37 p.
- Greve, Adrienne I., Spahr, Norman E., Van Metre, Peter C., and Wilson, Jennifer T., 2001, Identification of water-quality trends using sediment cores from Dillon Reservoir, Summit County, Colorado: U.S. Geological Survey Water-Resources Investigations Report 01-4022, 33 p.
- Spahr, Norman E., and Boulger, Robert W., 1997, Interim results of quality-control sampling of surface water for the Upper Colorado River National Water-Quality study unit, water years 1995-96: U.S. Geological Survey Water-Resources Investigations Report 97-4227, 34 p.
- Spahr, Norman E., Boulger, Robert W., and Szmajter, Richard J., 2000, Water quality at basic fixed sites in the Upper Colorado River Basin National Water-Quality Assessment Study Unit, October 1995-September 1998: U.S. Geological Survey Water-Resources Investigations Report 99-4223, 63 p.
- Spahr, Norman E., and Stephens, Verlin C., 1998, Trace elements in streambed sediment and fish liver at selected sites in the Upper Colorado River Basin, Colorado, 1995-96: U.S. Geological Survey Water-Resources Investigations Report 98-4124, 19 p.

Articles and Papers:

- Apodaca, L.E., Driver, N.E., and Bails, J.B., 2000, Occurrence, transport, and fate of trace elements in the Blue River Basin, Summit County, Colorado: An integrated approach: *Environmental Geology* vol. 39, no. 8, June 2000, p. 901-913.
- Bauch, Nancy J., and Spahr, Norman E., 1998, Salinity trends in surface waters of the Upper Colorado River Basin, Colorado: *Journal of Environmental Quality*, vol. 27, no. 3, p. 640-655.
- Deacon, J.R., and Driver, N.E., 1999, Distribution of trace elements in streambed sediment associated with mining activities in the Upper Colorado River Basin, Colorado, USA, 1995-96: *Archives of Environmental Contamination and Toxicology*, vol. 37, p. 7-18.
- Spahr, N.E., and Wynn, K.H., 1997, Nitrogen and phosphorus in surface waters of the Upper Colorado River Basin: *Journal of the American Water Resources Association*, vol. 33, no. 3, p. 547-560.

Upper Mississippi River Basin

Circulars:

Stark, J.R., Hanson, P.E., Goldstein, R.M., Fallon, J.D., Fong, A.L., Lee, K.E., Kroening, S.E., and Andrews, W.J., 2001, Water quality in the Upper Mississippi River Basin, Minnesota, Wisconsin, South Dakota, Iowa, and North Dakota, 1995-98: U.S. Geological Survey Circular 1211, 35 p.

Fact Sheets:

Andrews, William J., 1996, Few volatile organic compounds detected in rivers and ground water in the Upper Mississippi River Basin, Minnesota and Wisconsin: U.S. Geological Survey Fact Sheet 95-96, 2 p.

Fallon, James D., 2000, Pesticides in streams in part of the Upper Mississippi River Basin, Minnesota and Wisconsin, 1974-94: U.S. Geological Survey Fact Sheet 066-00, 4 p.

Hanson, Paul E., 1998, Pesticides and nitrates in surficial sand and gravel aquifers as related to modeled contamination susceptibility in part of the Upper Mississippi River Basin: U.S. Geological Survey Fact Sheet FS 107-98, 4 p.

Hanson, Paul E., 2000, The relation of fish community composition to riparian cover and runoff potential in the Minnesota River Basin, Minnesota and Iowa, 1997: U.S. Geological Survey Fact Sheet FS-105-00, 4 p.

Kroening, Sharon, 1998, Nutrient sources within the Upper Mississippi River Basin, Minnesota and Wisconsin, 1991-93: U.S. Geological Survey Fact Sheet 121-98, 4 p.

Kroening, Sharon, and Stark, James, 1997, Variability of nutrients in streams in part of the Upper Mississippi River Basin, Minnesota and Wisconsin: U.S. Geological Survey Fact Sheet FS-164-97, 4 p.

Stark, James, 1997, Causes of variations in water quality and aquatic ecology in rivers of the Upper Mississippi River Basin, Minnesota and Wisconsin: U.S. Geological Survey Fact Sheet 96-249, 4 p.

Open-File Reports:

Stark, James, 1994, National Water-Quality Assessment Program--The Upper Mississippi River Basin: U.S. Geological Survey Open-File Report 94-101, 2 p.

Stark, J.R., and Amos, G.L., 1996, Water-quality assessment of part of the Upper Mississippi River Basin, Minnesota and Wisconsin--Compilation of related literature: U.S. Geological Survey Open-File Report 96-579, 286 p.

Water-Resources Investigations Reports:

Andrews, William J., Fallon, James D., Kroening, Sharon E., Lee, Kathy E., and Stark, James R., 1996, Water-quality assessment of part of the Upper Mississippi River Basin, Minnesota and Wisconsin--Review of selected literature: U.S. Geological Survey Water-Resources Investigations Report 96-4149, 21 p.

Andrews, William J., Fallon, James D., and Kroening, Sharon E., 1995, Water-quality assessment of part of the Upper Mississippi River Basin, Minnesota

and Wisconsin--Volatile organic compounds in surface and ground water, 1978-94: U.S. Geological Survey Water-Resources Investigations Report 95-4216, 39 p.

Andrews, William J., Fong, Alison L., Harrod, Leigh, and Dittes, Michael E., 1998, Water-quality assessment of part of the Upper Mississippi River Basin, Minnesota and Wisconsin--Ground water quality in an urban part of the twin cities metropolitan area, Minnesota, 1996: U.S. Geological Survey Water-Resources Investigations Report 97-4248, 54 p.

Fallon, James D., and McNellis, Ryan P., 2000, Nutrients and suspended sediment in snowmelt runoff from part of the Upper Mississippi River Basin, Minnesota and Wisconsin, 1997: U.S. Geological Survey Water-Resources Investigations Report 00-4165, 23 p.

Fallon, James D., Fong, Alison L., and Andrews, William J., 1997, Water-quality assessment of part of the Upper Mississippi River Basin, Minnesota and Wisconsin--Pesticides in streams, bed sediment, and ground water, 1974-94: U.S. Geological Survey Water-Resources Investigations Report 97-4141, 53 p.

Fong, Alison L., 2000, Water-quality assessment of part of the Upper Mississippi River Basin, Minnesota and Wisconsin--Ground-water quality in three different land-use areas, 1996-98: U.S. Geological Survey Water-Resources Investigations Report 00-4131, 37 p.

Fong, Alison L., Andrews, William J., and Stark, James R., 1998, Water-quality assessment of part of the Upper Mississippi River Basin, Minnesota and Wisconsin--Ground-water quality in the Prarie du Chien-Jordan aquifer, 1996: U.S. Geological Survey Water-Resources Investigations Report 98-4248, 45 p.

Goldstein, Robert M., Lee, Kathy, Talmage Philip, Stauffer, Joseph C., and Anderson, Jesse P., 1999, Relation of fish community composition to environmental factors and land use in part of the Upper Mississippi River Basin, 1995-97: U.S. Geological Survey Water-Resources Investigations Report 99-4034, 32 p.

Kroening, Sharon E., and Andrews, William J., 1997, Water-quality assessment of part of the Upper Mississippi River Basin, Minnesota and Wisconsin--Nitrogen and phosphorus in streams, streambed sediment, and ground water, 1971-94: U.S. Geological Survey Water-Resources Investigations Report 97-4107, 61 p.

Kroening, Sharon E., Fallon, James D., and Lee, Kathy E., 2000, Water-quality assessment of part of the Upper Mississippi River Basin, Minnesota and Wisconsin--Trace elements in streambed sediment and fish livers, 1995-96: U.S. Geological Survey Water-Resources Investigations Report 00-4031, 26 p.

Lee, Kathy E., and Anderson, Jesse P., 1998, Water quality assessment of the Upper Mississippi River Basin, Minnesota and Wisconsin--Polychlorinated biphenyls in Common Carp and Walleye Fillets, 1975-95: U.S. Geological Survey Water-Resources Investigations Report 98-4126, 27 p.

McNellis, R.P., Fallon, J.D., and Lee, K.E., 2001, Water-quality assessment of part of the Upper Mississippi River Basin, Minnesota and Wisconsin--Organochlorine compounds in streambed sediment and fish tissues, 1995-97: U.S. Geological Survey Water-Resources Investigations Report 00-4213, 10 p.

Ruhl, James F., Fong, Alison L., Hanson, Paul E., and Andrews, William J., 2000, Water-quality assessment of part of the Upper Mississippi River Basin, Minnesota and Wisconsin--Ground-water quality in an agricultural area of

Sherburne County, Minnesota, 1998: U.S. Geological Survey Water-Resources Investigations Report 00-4107, 33 p.

Stark, James R., Andrews, William J., Fallon, James D., Fong, Alison L., Goldstein, Robert M., Hanson, Paul E., Kroening, Sharon E., and Lee, Kathy E., 1996, Water-quality assessment of part of the Upper Mississippi River Basin, Minnesota and Wisconsin--Environmental setting and study design: U.S. Geological Survey Water-Resources Investigations Report 96-4098, 62 p.

Stark, James R., Fallon, James D., Fong, Alison L., Goldstein, Robert M., Hanson, Paul E., Kroening, Sharon E., and Lee, Kathy E., 1999, Water-quality assessment of part of the Upper Mississippi River Basin, Minnesota and Wisconsin--Design and implementation of water-quality studies, 1995-98: U.S. Geological Survey Water-Resources Investigations Report 99-4135, 85 p.

Talmage, Philip J., Lee, Kathy E., Goldstein, Robert M., Anderson, Jesse P., and Fallon, James D., 1999, Water quality, physical habitat, and fish community composition in streams in the Twin Cities metropolitan area, Minnesota: U.S. Geological Survey Water-Resources Investigations Report 99-4247, 18 p.

Articles and Papers:

Anderson, Jesse Paul, 1997, A comparison of temporal trends in ambient and compliance trace element and PCB data in Pool 2 of the Mississippi River, 1985-95: University of Minnesota, Master of Science Thesis, 77 p.

Anderson, Jesse, and Perry, Jim, 1999, Comparison of temporal trends in ambient and compliance trace element and PCB data in Pool 2 of the Mississippi River, 1985-95: Environmental Management vol. 24, no. 4, p. 497-507.

Andrews, W.J., Trotta, L.C., and Schoenburg, M.E., 1995, Water-level declines from 1980-90 in major aquifers in the Twin Cities Area: Proceedings of the 31st Annual Conference and Symposia of the American Water Resources Association, Houston, TX, November 5-9, 1995, p 63-72.

Kroening, Sharon E., 1996, Nitrogen and phosphorus in streams in part of the Upper Mississippi River Basin, Minnesota and Wisconsin, 1984-93 in Maxwell, W.H.C., Preul, H.C., and Stout, G.E., eds., Proceedings of the Rivertech96 1st International Conference on New/Emerging concepts for Rivers, Chicago, IL, September 22-26, 1996, p. 37-44.

Lee, Kathy E., 1998, U.S. Geological Survey's National Water Quality Assessment in the Upper Mississippi River Basin: MinneGram, Water Resources Center, University of Minnesota, March 1998, p. 4.

Stark, J.R., Andrews, W.J., Fallon, J.D., and Kroening, S.E., 1996, Volatile organic compounds in surface water and ground water in parts of the Upper Mississippi River Basin, 1978-94 in American Institute of Hydrology, Hydrology and Hydrology of Urban and Urbanizing Areas Conference, Boston, Massachusetts, April 21-24, 1996, p.WQE26-WQE35.

Stauffer, J.C, Goldstein, R M., and Newman, R.M., 2000, Relationship of wooded riparian zones and runoff potential to fish community composition in agricultural streams: Canadian Journal Fish. Aquat. Science, vol. 57, p. 307-316.

Talmage, Philip John, 2000, Relation of instream habitat and physical conditions to fish communities of agricultural streams in the northern Midwest: University of Minnesota, Master of Science Thesis, 38 p.

ZumBerge, Jeremy Ryan, 1999, Influence of local riparian cover and basin runoff potential on invertebrate communities in the Minnesota River Basin: University of Minnesota, Master of Science Thesis, 44 p.

Yellowstone River Basin

Fact Sheets:

Miller, Kirk, and Quinn, Tom, 1997, National Water-Quality Assessment Program--Yellowstone River Basin: U.S. Geological Survey Fact Sheet 149-97, 4 p.

Water-Resources Investigations Reports:

Peterson, David A., and Boughton, Gregory K., 2000, Organic compounds and trace elements in fish tissue and bed sediment from streams in the Yellowstone River Basin, Montana and Wyoming, 1998: U.S. Geological Survey Water-Resources Investigations Report 00-4190, 39 p.

Peterson, David A., and Zelt, Ronald B., 1999, Element concentrations in bed sediment of the Yellowstone River Basin, Montana, North Dakota, and Wyoming--A retrospective analysis: U.S. Geological Survey Water-Resources Investigations Report 99-4185, 23 p.

Zelt, Ronald B., Boughton, Greg K., Miller, Kirk A., Mason, Jon P., and Gianakos, Laura M., 1999, Environmental setting of the Yellowstone River Basin, Montana, North Dakota, and Wyoming: U.S. Geological Survey Water-Resources Investigations Report 98-4269, 112 p.

WESTERN REGION STUDY UNITS

Carson River Basin

Open-File Reports:

Welch, A.H., and Plume, R.W., 1987, Water-quality assessment of the Carson River ground-water basin, Nevada and California: Project Description: U.S. Geological Survey Open-File Report 87-104, 27 p.

Welch, A.H., Plume, R.W., Frick, E.A., and Hughes, J.L., 1989, Ground-water-quality assessment of the Carson River Basin, Nevada and California: Analysis of available water-quality data through 1987: U.S. Geological Survey Open-File Report 89-382, 115 p.

Articles and Papers:

Thomas, J.T., Welch, A.H., Lico, Michael S., Hughes, Jennifer L., and Whitney, Rita, 1993, Radionuclides in ground water of the Carson River Basin, western Nevada and eastern California, USA: Applied Geochemistry, vol. 8, p. 447-471.

Central Arizona Basins

Circulars:

Cordy, Gail E., Gellenbeck, D.J., Gebler, Joseph B., Anning, David W., Coes, Alissa L., Edmonds, R.J., Rees, Julie A.H., and Sanger, H.W., 2001, Water quality in Central Arizona Basins, Arizona, 1995-98: U.S. Geological Survey Circular 1213, 38 p.

Fact Sheets:

- Coes, Alissa, Gellenbeck, Dorinda, and Towne, Doug, 1997, Collection and analysis of ground-water samples in the Sierra vista Basin, Arizona, 1996: U.S. Geological Survey Fact Sheet FS-107-97, 2 p.
- Cordy, Gail E., 1994, National Water-Quality Assessment Program--Central Arizona Basins: U.S. Geological Survey Fact Sheet 94-016, 2 p.
- Cordy, Gail E., and Bouwer, Herman, 1999, Where do the salts go? The potential effects and management of salt accumulation in south-central Arizona: U.S. Geological Survey Fact Sheet 98-170, 4 p.

Open-File Reports:

- Beaulieu, K.M., Capesius, J.P., and Gebler, J.B., 2000, Physical-habitat and geomorphic data for selected river reaches in Central Arizona Basins, 1995-98: U.S. Geological Survey Open-File Report 00-90, 197 p.
- Rees, Julie A.H., 1999, Converting contour-line data into data sets for a multilayered aquifer using a geographic information system: U.S. Geological Survey Open-File Report 99-54, 29 p.

Water-Resources Investigations Reports:

- Coes, Alissa L., Gellenbeck, D.J., and Towne, Douglas C., 1999, Ground-water quality in the Sierra Vista subbasin, Arizona, 1996-97: U.S. Geological Survey Water-Resources Investigations Report 99-4056, 50 p.
- Coes, Alissa L., Gellenbeck, D.J., Towne, Douglas C., Freark Maureen C., 2000, Ground-water quality in the upper Santa Cruz Basin, Arizona, 1998: U.S. Geological Survey Water-Resources Investigations Report 00-4117, 55 p.
- Cordy, Gail E., Rees, J.A., Edmonds, R.J., Gebler, J.B., Wirt, Laurie, Gellenbeck, D.J., and Anning, D.W., 1998, Water-quality assessment of the Central Arizona Basins, Arizona and Northern Mexico--Environmental setting and overview of water quality: U.S. Geological Survey Water-Resources Investigations Report 98-4097, 72 p.
- Gebler, Joseph B., 1999, Water quality of selected effluent-dependent stream reaches in southern Arizona as indicated by concentrations of periphytic chlorophyll a and aquatic-invertebrate communities: U.S. Geological Survey Water-Resources Investigations Report 98-4199, 12 p.
- Gebler, Joseph B., 2000, Organochlorine compounds in streambed sediment and in biological tissue from streams and their relations to land use, central Arizona: U.S. Geological Survey Water-Resources Investigations Report 00-4041, 21 p.
- Gellenbeck, D.J., and Coes, Alissa L., 1999, Ground-water quality in alluvial basins that have minimal urban development, South-Central Arizona: U.S.

Geological Survey Water-Resources Investigations Report 99-4005, 27 p.

Articles and Papers:

Cordy, Gail E., 1996, NAWQA and AZ Water Quality: Arizona Water Resources, vol. 5, no. 1, p. 9.

Cordy, Gail E., 1994, NAWQA--The U.S. Geological Survey's Water-Quality Assessment Program in Arizona *in* Approaching the Millennium--Evolving Perspectives in Water Resources: Proceedings of the Arizona Hydrological Society Seventh Annual Symposium, Scottsdale, Arizona, September 22-23, 1994, p. 255-258.

Cordy, Gail E., 1994, NAWQA--The U.S. Geological Survey's Water-Quality Assessment Program in Arizona *in* National and Regional Initiatives: Impacts on Arizona's Water Quality--Proceedings of the Arizona Section, American Water Resources Association Symposium, Tucson, Arizona, October 28, 1994, 4 p.

Westerhoff, P., and Anning, D., 2000, Concentrations and characteristics of organic carbon in surface water in Arizona: Influence of urbanization: Journal of Hydrology 236, p. 202-222.

Posters:

Wirt, Laurie, and Gebler, Joseph B., 1996, Aquatic biology and water-quality of effluent-dominated reaches of the Santa Cruz River *in* Moving Beyond Political Boundaries: Water-Resource Investigations in the Upper Santa Cruz Basin: Arizona Hydrological Society and Bureau of Reclamation Conference, May 31- June 1, 1996, poster.

Central Columbia Plateau

Circulars:

Williamson, Alex K., Munn, Mark D., Ryker Sarah J., Wagner, Richard J., Ebbert, James C., and Vanderpool, Ann M., 1998, Water quality in the Central Columbia Plateau, Washington and Idaho, 1992-95: U.S. Geological Survey Circular 1144, 35 p.

Fact Sheets:

Gruber, S.J., and Munn, M.D., 1996, Organochlorine pesticides and PCBs in aquatic ecosystems of the Central Columbia Plateau: U.S. Geological Survey Fact Sheet 170-96, 4 p.

Roberts, Lonna M., and Wagner, Richard J., 1996, Pesticides and volatile organic compounds in ground and surface water of the Palouse subunit, Washington and Idaho: U.S. Geological Survey Fact Sheet 204-96, 2 p.

Kim, Moon H., and Ebbert, James C., 1997, Irrigation and surface-water quality in the Quincy and Pasco Basins, Washington: U.S. Geological Survey Fact Sheet 080-97, 2 p.

Roberts, L.M., and Jones, J.L., 1996, Agricultural pesticides found in ground water of the Quincy and Pasco Basins: U.S. Geological Survey Fact Sheet 240-95 (revised), 2 p.

Roberts, Lonna M., and Jones, Joseph L., 1996, Pesticides found in ground water below orchards in the Quincy and Pasco Basins: U.S. Geological Survey Fact Sheet 171-96, 4 p.

Roberts, Lonna M., and Wagner, Richard J., 1996, Pesticides and volatile organic compounds in ground and surface water of the Palouse subunit, Washington and Idaho: U.S. Geological Survey Fact Sheet 204-96, 2 p.

Ryker, Sarah J., and Williamson, Alex K., 1996, Pesticides in public supply wells of the Central Columbia Plateau: U.S. Geological Survey Fact Sheet 205-96, 4 p.

Wagner, R.J., Ebbert, J.C., and Roberts, L.M., 1996, Are agricultural pesticides in surface waters of the Central Columbia Plateau? --U.S. Geological Survey Fact Sheet 241-95 (revised), 4 p.

Open-File Reports:

Bortleson, G.C., 1991, National Water-Quality Assessment Program--Mid-Columbia River Basin, Washington and Idaho: U.S. Geological Survey Open-File Report 91-164, 2 p.

Ryker, Sarah J., and Jones, Joseph L., 1995, Nitrate concentrations in ground water of the Central Columbia Plateau: U.S. Geological Survey Open File Report 95-445, 4 p.

Water-Resources Investigations Reports:

Greene, Karen E., Ebbert, James C., and Munn, Mark D., 1994, Nutrients, suspended sediment, and pesticides in streams and irrigation systems in the Central Columbia Plateau in Washington and Idaho, 1959-1991: U.S. Geological Survey Water-Resources Investigations Report 94-4215, 125 p.

- Greene, Karen E., Munn, Mark D., Ebbert, James C., 1997, Nutrients, benthic algae, and stream quality during low streamflow in the Palouse River Basin, Washington and Idaho: U.S. Geological Survey Water-Resources Investigations Report 96-4078, 38 p.
- Jones, Joseph L., and Roberts, Lonna, M., 1998, Shallow ground-water quality beneath row crops and orchards in the Columbia Basin irrigation project area, Washington: U.S. Geological Survey Water-Resources Investigations Report 97-4238, 29 p.
- Jones, Joseph L., and Wagner, Richard J., 1995, Water-quality assessment of the Central Columbia Plateau in Washington and Idaho--Analysis of available nutrient and pesticide data for ground water, 1942-92: U.S. Geological Survey Water-Resources Investigations Report 94-4258, 119 p.
- Wagner, Richard J., and Roberts, Lonna, M., 1998, Pesticides and volatile organic compounds in surface and ground water of the Palouse subunit, Central Columbia Plateau, Washington and Idaho, 1993-95: U.S. Geological Survey Water-Resources Investigations Report 97-4285, 53 p.
- Wagner, Richard J., Ebbert, James C., Roberts, Lonna M., and Ryker, Sarah J., 1996, Agricultural pesticide applications and observed concentrations in surface waters from four drainage basins in the Central Columbia Plateau, Washington and Idaho, 1993-94: U.S. Geological Survey Water-Resources Investigations Report 95-4285, 52 p.

Articles and Papers:

- Gruber, S.J., and Munn, M.D., 1998, Organophosphate and carbamate insecticides in agricultural waters and cholinesterase (ChE) inhibition in Common Carp (*Cyprinus carpio*): Archives of Environmental Contamination and Toxicology, vol. 35, p. 391-396.
- Ebbert, James C., and Kim, Moon H., 1998, Relation between irrigation method, sediment yields, and losses of pesticides and nitrogen: Journal of Environmental Quality, vol. 27, no. 2, p. 372-380.
- Jones, Joseph L., and Roberts, Lonna M., 1999, The relative merits of monitoring and domestic wells for ground water quality investigations: Ground Water Monitoring & Remediation, vol. 19, no. 3, p. 138-144.
- Munn, Mark D., and Gruber, Steve J., 1997, The relationship between land use and organochlorine compounds in streambed sediment and fish in the central Columbia Plateau, Washington and Idaho, USA: Environmental Toxicology and Chemistry, vol. 16, no. 9, p. 1877-1887.

NAWQA-CCPT Related Publications:

Reports published by U.S. Geological Survey using NAWQA data for objectives beyond the scope of the NAWQA Program.

- Ryker, Sarah J., and Williamson, Alex K., 1996, Pesticides in public supply wells of Washington State: U.S. Geological Survey Fact Sheet 122-96, prepared in cooperation with the Washington State Department of Health, 2 p. (also listed under NAWQA Related Reports)

Other:

- Block, Elizabeth, 1993, Aquatic biota within the Central Columbia Plateau NAWQA Study Unit: A review of existing information: U.S. Fish and Wildlife Service, Moses Lake, WA, 92 p. (prepared for USGS NAWQA CCPT)

Cook Inlet Basin

Fact Sheets:

Frenzel, Steven A., 1997, National Water-Quality Assessment Program--Cook Inlet Basin, Alaska: U.S. Geological Survey Fact Sheet FS-153-97, 4 p.

Open-File Reports:

Frenzel, Steven A., and Dorava, Joseph M., 1999, Water-quality data for the Talkeetna River and four streams in National Parks, Cook Inlet Basin: U.S. Geological Survey Open-File Report 99-459, 58 p.

Water-Resources Investigations Reports:

Brabets, Timothy P., Nelson, Gordon L., Dorava, Joseph M., and Milner, Alexander M., 1999, Water-quality assessment of the Cook Inlet Basin, Alaska--Environmental setting: U.S. Geological Survey Water-Resources Investigations Report 99-4025, 65 p.

Dorava, Joseph M., and Ness.Lee, 1999, Physical, chemical, and biological data for two sites on the upper Kenai River, Alaska, 1998: U.S. Geological Survey Open-File Report 99-258, 29 p.
<http://ak.water.usgs.gov/Publications/pdf.resp/ofr99.258.pdf>

Frenzel, Steven A., 2000, Selected organic compounds and trace elements in streambed sediments and fish tissues, Cook Inlet Basin, Alaska: U.S. Geological Survey Water-Resources Investigations Report 00-4004, 39 p.

Glass, Roy L., 1999, Water-quality assessment of the Cook Inlet Basin, Alaska--Summary of data through 1997: U.S. Geological Survey Water-Resources Investigations Report 99-4116, 110 p.

Kyle, Rebecca E., and Brabets, Timothy P., 2001, Water temperature of streams in the Cook Inlet Basin, Alaska and implications of climate change: U.S. Geological Survey Water-Resources Investigations Report 00-4109, 24 p.

Articles and Papers:

Dorava, Joseph M., and Milner, Alexander M., 2001, Role of lake regulation on glacier-fed rivers in enhancing salmon productivity: the Cook Inlet watershed, south-central Alaska, USA: Hydrological Processes, vol. 14, p. 3149-3159.

Great Salt Lake Basins

Fact Sheets:

- Giddings, Elise, 2000, Water-quality and macroinvertebrate communities of Emigration and Red Butte Creeks, Salt Lake County, Utah: U.S. Geological Survey Fact Sheet FS-161-00, 6 p.
- Naftz, David L., Stephens, Doyle W., Callender, Edward, and Van Metre, Peter C., 2000, Reconstructing historical changes in the environmental health of watersheds by using sediment cores from lakes and reservoirs in Salt Lake Valley, Utah: U.S. Geological Survey Fact Sheet FS-164-00, 6 p.(also listed under Trace Element Synthesis)
- Thiros, S.A., 2000, Quality of shallow ground water in areas of recent residential and commercial development in Salt Lake Valley, Utah, 1999: U.S. Geological Survey Fact Sheet 106-00, 6 p.
- Waddell, Kidd M., and Baskin, Robert L., 1994, Great Salt Lake Basins Study Unit: U.S. Geological Survey Fact Sheet 94-046, 2 p.
- U.S. Geological Survey, 1999, National Water-Quality Assessment Program--Great Salt Lake Basins study unit: U.S. Geological Survey Fact Sheet FS-132-99, 4 p.

Open-File Reports:

- Hadley, Heidi K., 2001, Nutrient, suspended-sediment, and total suspended-solids data for surface water in the Great Salt Lake Basins, Utah, Idaho, and Wyoming, 1980-95: U.S. Geological Survey Open-File Report 01-43, 29 p.

Water-Resources Investigations Reports:

- Giddings, Elise M., Hornberger, Michelle I., and Hadley, Heidi K., 2001, Trace-metal concentrations in sediment and water and health of aquatic macroinvertebrate communities of streams near Park City, Summit County, Utah:U.S. Geological Survey Water-Resources Investigations Report 01-4213, 22 p.
- Giddings, Elise M., and Stephens, Doyle, 1999, Selected aquatic biological investigations in the Great Salt Lake Basins, 1875-1998, National Water-Quality Assessment Program: U.S. Geological Survey Water-Resources Investigations Report 99-4132, 42 p.
- Thiros, S.A., 2000, Analysis of nitrate and volatile organic compound data for ground water in the Great Salt Lake Basins, Utah, Idaho, and Wyoming, 1980-98, National Water-Quality Assessment Program: U.S. Geological Survey Water-Resources Investigations Report 00-4043, 20 p.

Articles and Papers:

- U.S. Geological Survey, 1997, NAWQA News--National Water-Quality Assessment Great Salt Lake Basins: U.S. Geological Survey NAWQA Great Salt Lake Basins Study Unit, vol. 1, Spring/Summer 1997, 4 p.

Nevada Basin and Range

Circulars:

Bevans, Hugh E., Lico, Michael S., and Lawrence, Stephen J., 1998, Water quality in the Las Vegas Valley area and the Carson and Truckee River Basins, Nevada and California, 1992-96: U.S. Geological Survey Circular 1170, 47 p.

Fact Sheets:

Adams, Patricia A., Moses, Charles W., Bevans, Hugh E., Monitoring for pesticides in ground water in Nevada: U.S. Geological Survey Fact Sheet FS-139-97, 2 p.

Boughton, Carol J., and Lico, Michael S., 1998, Volatile organic compounds in Lake Tahoe, Nevada and California, July-September 1997: U.S. Geological Survey Fact Sheet FS-055-98, 2 p. (reprinted with revisions Oct. 1998)

Kilroy, Kathryn C., and Watkins, Sharon A., 1997, Pesticides in surface water, bottom sediment, crayfish, and shallow ground water in Las Vegas Valley area, Carson River Basin, and Truckee River Basin, Nevada and California, 1992-95: U.S. Geological Survey Fact Sheet FS-075-97, 6 p.

Open-File Reports:

Bevans, H.E., and Kilroy, K.C., 1991, National Water-Quality Assessment Program--Nevada Basin and Range: U.S. Geological Survey Open-File Report 91-154, 2 p.

Covay, Kenneth J., and Bevans, Hugh E., 1997, Data on ground-water quality Reno-Sparks area, Nevada, 1994 and 1995: U.S. Geological Survey Open-File Report 97-222, 1 plate.

Lawrence, Stephen J., and Pennington, Nyle, 1998, Physical and geomorphological measurements for selected river segments in the Carson and Truckee River Basins, Nevada and California, 1993-96: U.S. Geological Survey Open-File Report 97-764, 135 p.

Neal, Edward G., and Schuster Paul F., 1996, Data on quality of shallow ground water, Las Vegas urban area, Nevada, 1993: U.S. Geological Survey Open-File Report 96-552, 1 p.

Water-Resources Investigations Report:

Bevans, Hugh E., Goodbred, Steven L., Miesner, John F., Watkins, Sharon A., Gross, Timothy S., Denslow, Nancy D., 1996, Synthetic organic compounds and carp endocrinology and histology in Las Vegas Wash and Las Vegas and Callville Bays of Lake Mead, Nevada: U.S. Geological Survey Water-Resources Investigations Report 96-4266, 12 p.

Covay, Kenneth J., Banks, Juliana M., Bevans, Hugh E., and Watkins, Sharon A., 1996, Environmental and hydrologic settings of the Las Vegas Valley area and the Carson and Truckee River Basins, Nevada and California: U.S. Geological Survey Water-Resources Investigations Report 96-4087, 72 p.

Kilroy, Kathryn C., Lawrence, Stephen J., Lico, Michael S., Bevans, Hugh E., and Watkins, Sharon A., 1997, Water-quality assessment of the Las Vegas Valley area and the Carson and Truckee River Basins, Nevada and California--Nutrients, pesticides, and suspended sediment, October 1969-April 1990:

U.S. Geological Survey Water-Resources Investigations Report 97-4106, 144 p.

Lawrence, Stephen J., 1998, Trace-element enrichment in streambed sediment and crayfish, Carson and Truckee Rivers, Nevada and California, September 1992: U.S. Geological Survey Water-Resources Investigations Report 97-4258, 16 p.

Lico, Michael S., 1998, Quality of ground water beneath urban and agricultural lands in Las Vegas Valley and the Carson and Truckee River Basins, Nevada--Implications for water supply: U.S. Geological Survey Water-Resources Investigations Report 97-4259, 24 p.

Lico, Michael S., and Pennington, R. Nyle, 1997, Concentrations, loads, and yields of potentially toxic constituents in irrigation-drain systems, Newlands Project area, Carson Desert, Nevada, November 1994 - October 1995: U.S. Geological Survey Water-Resources Investigations Report 97-4034, 58 p.

Articles and Papers:

Welch, Alan H., and Lico, Michael S., 1998, Factors controlling As and U in shallow ground water, southern Carson Desert, Nevada: Applied Geochemistry, vol. 13, no. 4, p. 521-539.

World-Wide Web Reports:

Reddy, Michael M., Schuster, Paul F., Gunther, Charmaine, Charlton, Scott, and Aiken, George, 1996, Summary Of chemical data from onsite and laboratory analyses of ground-water samples from the surficial aquifer, Las Vegas Nevada, April and August 1993 and September 1994: U.S. Geological Survey World-Wide Web URL http://wwwbrr.cr.usgs.gov/projects/SW_corrosion/index.html

Oahu

Fact Sheets:

Anthony, Stephen S., 1998, National Water-Quality Assessment Program--Island of Oahu, Hawaii: U.S. Geological Survey Fact Sheet FS-006-98, 4 p.

Brasher, Anne M., and Anthony, Stephen S., 2000, Occurrence of organochlorine pesticides in bed sediment and fish tissue from selected streams on the island of Oahu, Hawaii, 1998: U.S. Geological Survey Fact Sheet FS 140-00, 6 p.

Puget Sound Basin

Circulars:

Ebbert, James C., Embrey, Sandra S., Black, Robert W., Tesoriero, Anthony J., and Hagglund, Alan L., 2000, Water quality in the Puget Sound Basin, Washington and British Columbia, 1996-98: U.S. Geological Survey Circular 1216, 31 p.

Fact Sheets:

Bortleson, Gilbert C., 1997, Pesticides in selected small streams in the Puget Sound Basin, 1987-1995: U.S. Geological Survey Fact Sheet 067-97, 4 p.

Erwin, M.L., Tesoriero, A.J., 1997, Predicting ground-water vulnerability to nitrate in the Puget Sound Basin: U.S. Geological Survey Fact Sheet 061-97, 4 p.

Inkpen, E.L., and Embrey, S.S., 1998, Nutrient transport in the major rivers and streams of the Puget Sound Basin, Washington: U.S. Geological Survey Fact Sheet 009-98, 4 p.

MacCoy, Dorene E., and Black, Robert W., 1998, Organic compounds and trace elements in freshwater streambed sediment and fish from the Puget Sound Basin: U.S. Geological Survey Fact Sheet 105-98, 6 p.

Voss, Frank D., Embrey, Sandra S., Ebbert, James C., 1999, Pesticides detected in urban streams during rainstorms and relations to retail sales of pesticides in King County, Washington: U.S. Geological Survey Fact Sheet 097-99, 4 p.

Open-File Reports:

Staubitz, W.W., 1994, National Water-Quality Assessment Program--Puget Sound Basin, Washington: U.S. Geological Survey Open-File Report 94-108, 2 p.

Water-Resources Investigations Reports:

Black, Robert W., and Silkey, Mariabeth, 1998, Water-quality assessment of the Puget Sound Basin, Washington, summary of stream biological data through 1995: U.S. Geological Survey Water-Resources Investigations Report 97-4164, 78 p.

Bortleson, G.C., and Ebbert, J.C., 2000, Occurrence of pesticides in streams and ground water in the Puget Sound Basin, Washington, and British Columbia, 1996-98: U.S. Geological Survey Water-Resources Investigations Report 00-4118, 14 p.

Embrey, S.S., and Inkpen, E.L., 1998, Water-quality assessment of the Puget Sound Basin, Washington, nutrient transport in rivers, 1980-93: U.S. Geological Survey Water-Resources Investigations Report 97-4270, 30 p.

Inkpen, Emily L., Tesoriero, Anthony J., Ebbert, James C., Silva, Steven R., and Sandstrom, Mark W., 2000, Ground-water quality in regional, agricultural, and urban settings in the Puget Sound Basin, Washington and British Columbia, 1996-1998: U.S. Geological Survey Water-Resources Investigations Report 00-4100, 66 p.

Munn, M.D., Black, R.W., Hagglund, A.L., Hummling, M.A., and Huffman, R.L., 1999, An assessment of stream habitat and nutrients in the Elwha River

- Basin: Implications for restoration: U.S. Geological Survey Water-Resources Investigations Report 98-4223, 38 p.
- Staubitz, Ward W., Bortleson, Gilbert C., Semans, Sheila D., Tesoriero, Anthony J. and Black, Robert W., 1997, Water-quality assessment of the Puget Sound Basin, Washington, environmental setting and its implications for water quality and aquatic biota: U.S. Geological Survey Water-Resources Investigations Report 97-4013, 76 p.
- Voss, Frank D., and Embrey, Sandra S., Ebbert, 2000, Pesticides detected in urban streams during rainstorms in King and Snohomish Counties, Washington, 1998: U.S. Geological Survey Water-Resources Investigations Report 00-4098, 22 p.

Articles and Papers:

- Black, Robert W., Hagglund, Alan L., Voss, Frank V., 2000, Predicting the probability of detecting organochlorines pesticides and polychlorinated biphenyls in stream systems on the basis of land use in the Pacific northwest, USA: Environmental Toxicology and Chemistry, vol. 19, no. 4, p.1044-1054.
- Embrey, Sandra S., 2001, Microbiological quality of Puget Sound Basin streams and identification of contaminant sources: Journal of the American Water Resources Association, vol. 37, no. 2, p. 407-421.
- Tesoriero, Anthony J., Inkpen, Emily L., and Voss, Frank D., 1998, Assessing groundwater vulnerability using logistic regression: Source Water Assessment and Protection 98, A Technical Conference April 28-20, 1998, p. 157-165.
- Tesoriero, Anthony J., Liebscher, Hugh, and Cox, Stephen E., 2000, Mechanism and rate of denitrification in an agricultural watershed: Electron and mass balance along groundwater flow paths: Water Resources Research, vol. 36, no. 6, p. 1545-1559.
- Tesoriero, Anthony J., Loffler, Frank E., and Liebscher, Hugh, 2001, Fate and origin of 1,2-dichloropropane in an unconfined shallow aquifer: Environmental Science & Technology, vol. 35, no. 3, p. 455-461.
- Tesoriero, Anthony J., and Voss, Frank D., 1997, Predicting the probability of elevated nitrate concentrations in the Puget Sound Basin: Implications for aquifer susceptibility and vulnerability: Ground Water, vol. 35, no. 6, November-December 1997, p. 1029-1039.

Sacramento River Basin

Circulars:

Domagalski, Joseph L., Knifong, Donna L., Dileanis, Peter D., Brown, Larry R., May, Jason T., Connor, Valerie, and Alpers, Charles N., 2001, Water quality in the Sacramento River Basin, California, 1994-98: U.S. Geological Survey Circular 1215, 36 p.

Fact Sheets:

Domagalski, Joseph, and Brown, Larry, R., 1994, National Water-Quality Assessment Program--The Sacramento River Basin: U.S. Geological Survey Fact Sheet 94-029, 2 p.

Water-Resources Investigations Reports:

Alpers, Charles N., Antweiler, Ronald C., Taylor, Howard E., Dileanis, Peter D., and Domagalski, Joseph L., eds., Metal transport in the Sacramento River, California, 1996-97: Volume 2: Interpretations of metal loads: U.S. Geological Survey Water-Resources Investigations Report 00-4002, 106 p.

Alpers, Charles N., Taylor, Howard E., and Domagalski, Joseph L., eds., Metal transport in the Sacramento River, California, 1996-97: Volume 1: Methods and data: U.S. Geological Survey Water-Resources Investigations Report 99-4286, 430 p.

Brown, Larry R., and May, Jason T., 2000, Benthic macroinvertebrate assemblages and their relations with environmental variables in the Sacramento and San Joaquin River Drainages, California, 1993-1997: U.S. Geological Survey Water-Resources Investigations Report 00-4125, 25 p. (also listed under San Joaquin-Tulare River Basins)

Dawson, Barbara J. Milby, 2001, Shallow ground-water quality beneath rice areas in the Sacramento Valley, California, 1997: U.S. Geological Survey Water-Resources Investigations Report 01-4000, 33 p.

Domagalski, Joseph L., 2000, Pesticides in surface water measured at selected sites in the Sacramento River Basin, California, 1996-1998: U.S. Geological Survey Water-Resources Investigations Report 00-4203, 24 p.

Domagalski, Joseph L., and Dileanis, Peter D., 2000, Water-quality assessment of the Sacramento River Basin, California--Water quality of fixed sites, 1996-1998: U.S. Geological Survey Water-Resources Investigations Report 00-4247, 60 p.

Domagalski, Joseph L., Knifong, Donna L., MacCoy, Dorene E., Dileanis, Peter D., Dawson, Barbara J., and Majewski, Michael S., 1998, Water quality assessment of the Sacramento River Basin, California--Environmental setting and study design: U.S. Geological Survey Water-Resources Investigations Report 97-4254, 31 p.

Maccoy, Dorene E., and Domagalski, Joseph L., 1999, Trace elements and organic compounds in streambed sediment and aquatic biota from the Sacramento River Basin, California, October and November 1995: U.S. Geological Survey Water-Resources Investigations Report 99-4151, 37 p.

Articles and Papers:

Brown, Larry R., and May, Jason T., 2000, Macroinvertebrate assemblages on woody

- debris and their relations with environmental variables in the lower Sacramento and San Joaquin River Drainages: Environmental Monitoring and Assessment vol. 64, p. 311-329. (also listed under San Joaquin-Tulare River Basins)
- Domagalski, Joseph, 1996, Pesticides and pesticide degradation products in stormwater runoff: Sacramento River Basin, California: Journal of the American Water Resources Association, vol. 32, no. 5, October 1996, p. 953-964.
- Domagalski, J., 1998, Occurrence and transport of total mercury and methyl mercury in the Sacramento River Basin, California: Journal of Geochemical Exploration, vol. 64 (1998), p. 277-291.
- Domagalski, Joseph, 2001, Mercury and methylmercury in water and sediment of the Sacramento River Basin, California: Applied Geochemistry 16, p. 1677-1691.
- Roth, D.A., Taylor, H.E., Domagalski, J., Dileanis, P., Peart, D.B., Antweiler, R.C., and Alpers, C.N., 2001, Distribution of inorganic mercury in Sacramento River water and suspended colloidal sediment material: archives of Environmental Contamination and Toxicology, vol. 40, p. 161-172.

Southern California Basins

Fact Sheets:

Hamlin, Scott N., Belitz, Kenneth, and Paybins, Katherine S., 1999, Santa Ana Basin--National Water-Quality Assessment Program: U.S. Geological Survey Fact Sheet 054-99, 4 p.

Water-Resources Investigations Reports:

Shelton, Jennifer L., Burow, Karen R., Belitz, Kenneth, Dubrovsky, Neil M., Land, Michael, and Gronberg, JoAnn, 2001, Low-level volatile organic compounds in active public supply wells as ground-water tracers in the Los Angeles physiographic basin, California, 2000: U.S. Geological Survey Water-Resources Investigations Report 01-4188, 29 p.

San Joaquin-Tulare Basins

Circulars:

Dubrovsky, Neil M., Kratzer, Charles R., Brown, Larry R., Gronberg, JoAnn M., and Burow, Karen R., 1998, Water quality in the San Joaquin-Tulare Basins, California, 1992-95, U.S. Geological Survey Circular 1159, 38 p.

Fact Sheets:

Domagalski, Joseph, Dubrovsky, Neil M., Kratzer, Charles R., 1995, Inputs of the dormant-spray pesticide, diazinon, to the San Joaquin River, California, February 1993: U.S. Geological Survey Fact Sheet 133-95, 2 p.

Open-File Reports:

Brown, Larry R., 1998, Assemblages of fishes and their associations with environmental variables, Lower San Joaquin River Drainage, California: U.S. Geological Survey Open-File Report 98-77, 20 p.

Brown, Larry R., 1998, Concentrations of chlorinated organic compounds in biota and bed sediment in streams of the Lower San Joaquin River Drainage, California: U.S. Geological Survey Open-File Report 98-171, 22 p.

Burow, K.R., Weissmann, G.S., Miller, R.D., and Placzek, G., 1997, Hydrogeologic facies characterization of an alluvial fan near Fresno, California, using geophysical techniques: U.S. Geological Survey Open-File Report 97-46, 15 p.

Dubrovsky, N.M., 1991, National Water-Quality Assessment Program--The San Joaquin-Tulare Basins: U.S. Geological Survey Open-File Report 91-153, 2 p.

Kratzer, Charles R., 1998, Transport of sediment-bound organochlorine pesticides to the San Joaquin River, California: U.S. Geological Survey Open-File Report 97-655, 30 p.

Kratzer, Charles R., 1997, Transport of diazinon in the San Joaquin River Basin, California: U.S. Geological Survey Open-Report 97-411, 22 p.

Panshin, Sandra Y., 1997, Determining concentrations of 2-bromoallyl alcohol and dibromopropene in ground water using quantitative methods: U.S. Geological Survey Open-File Report 97-43, 7 p.

Professional Papers:

Kratzer, Charles R., and Shelton, Jennifer L., 1998, Water quality assessment of the San Joaquin-Tulare Basins, California: Analysis of available data on nutrients and suspended sediment in surface water, 1972-1990: U.S. Geological Survey Professional Paper 1587, 92 p.

Water-Resources Investigations Reports:

Brown, Larry R., and May, Jason T., 2000, Benthic macroinvertebrate assemblages and their relations with environmental variables in the Sacramento and San Joaquin River Drainages, California, 1993-1997: U.S. Geological Survey Water-Resources Investigations Report 00-4125, 25 p. (also listed under Sacramento River Basin)

- Brown, Larry R., Short, Terry M., 1999, Biological, habitat, water quality conditions in the upper Merced River drainage, Yosemite National Park, California, 1993-1996: U.S. Geological Survey Water-Resources Investigations Report 99-4088, 56 p.
- Burow, Karen R., Shelton, Jennifer L., and Dubrovsky, Neil.M., 1998, Occurrence of nitrate and pesticides in ground water beneath three agricultural land-use settings in the eastern San Joaquin Valley, California, 1993-1995: U.S. Geological Survey Water-Resources Investigations Report 97-4284, 51 p.
- Burow, Karen R., Panshin, Sandra Y., Dubrovsky, Neil.M., Vanbrocklin, David, and Fogg, Graham E., 1999, Evaluation of processes affecting 1,2-dibromo-3-chloropropane (DBCP) concentrations in ground water in the eastern San Joaquin Valley, California: Analysis of chemical data and ground-water flow and transport simulations: U.S. Geological Survey Water-Resources Investigations Report 99-4059, 57 p.
- Burow, Karen R., Stork, Sylvia V., and Dubrovsky, Neil M., 1998, Nitrate and pesticides in ground water in the Eastern San Joaquin Valley, California: Occurrence and trends: U.S. Geological Survey Water-Resources Investigations Report 98-4040, 33 p.
- Gronberg, Jo Ann M., Dubrovsky, Neil.M., Kratzer, Charles R., Domagalski, Joseph L., Brown, Larry R., and Burow, Karen R., 1998, Environmental setting of the San Joaquin-Tulare Basins, California: U.S. Geological Survey Water-Resources Investigations Report 97-4205, 45 p.
- Kratzer, Charles R., 1998, Pesticides in storm runoff from agricultural and urban areas in the Tuolumne River Basin in the vicinity of Modesto, California: U.S. Geological Survey Water-Resources Investigations Report 98-4017, 17 p.
- Kratzer, Charles R., and Biagtan, Rhodora N., 1997, Determination of travel times in the Lower San Joaquin River Basin, California, from dye-tracer studies during 1994-1995: U.S. Geological Survey Water-Resources Investigations Report 97-4018, 20 p.
- Panshin, Sandra Y., Dubrovsky, Neil.M., Gronberg, Jo Ann M., and Domagalski, Joseph L., 1998, Occurrence and distribution of dissolved pesticides in the San Joaquin River Basin, California: U.S. Geological Survey Water-Resources Investigations Report 98-4032, 88 p.

Water-Supply Papers:

- Brown, Larry R., 1996, Aquatic biology of the San Joaquin-Tulare Basins, California: Analysis of available data through 1992: U.S. Geological Survey Water-Supply Paper 2471, 89 p.
- Domagalski, Joseph L., 1998, Pesticides in surface and ground water of the San Joaquin-Tulare Basins, California: Analysis of available data, 1966 through 1992: U.S. Geological Survey Water-Supply Paper 2468, 74 p.

Articles and Papers:

- Brown, L.R., 1997, Concentrations of chlorinated organic compounds in biota and bed sediment in streams of the San Joaquin Valley, California: Archives of Environmental Contamination and Toxicology, vol. 33, p. 357-368.
- Brown, Larry R., and May, Jason T., 2000, Macroinvertebrate assemblages on woody debris and their relations with environmental variables in the lower Sacramento and San Joaquin River Drainages: Environmental Monitoring and Assessment vol. 64, p. 311-329. (also listed under Sacramento River Basin)

- Brown, Larry R., Kratzer, Charles R., and Dubrovsky, Neil M., 2000, Integrating chemical, water quality, habitat, and fish assemblage data from the San Joaquin River drainage, California *in* Integrated Assessment of Ecosystem Health, Chapter 3 (conference proceedings): CRC Press LLC, p. 25-62.
- Chapelle, Francis H., McMahon, Peter B., Dubrovsky, Neil M., Fulii, Roger F., Oaksford, Edward T., and Vroblesky, Don A., 1995, Deducing the distribution of terminal electron-accepting processes in hydrologically diverse groundwater systems: *Water Resources Research*, vol. 31, no. 2, February 1995, p.359-371.
- Domagalski, Joseph L., 1997, Nonpoint sources of pesticides in the San Joaquin River, California: Input from winter storms, 1992 to 1993 *in* Laenen, Antonius, and Dunnet, David A., eds., *River Quality Dynamics and Restoration*: CRC Press, Inc., Lewis Publishers, ISBN 1566701384, p. 293-306.
- Domagalski, Joseph, 1996, Occurrence of dicofol in San Joaquin River, California: *Bulletin of Environmental Contamination and Toxicology*, vol. 57, 1996, p. 284-291.
- Domagalski, Joseph, 1997, Results of a prototype surface water network design for pesticides developed for the San Joaquin River Basin, California: *Journal of Hydrology* 192, p. 33-50.
- Domagalski, Joseph L., Dubrovsky, Neil M., Kratzer, Charles R., 1997, Pesticides in the San Joaquin River, California: Inputs from dormant sprayed orchards: *Journal of Environmental Quality*, vol.26, no. 2, p. 454-465.
- Dubrovsky, N.M., Burow, K.R., and Gronberg, J.M., 1995, Effects of two contrasting agricultural land uses on shallow groundwater quality in the San Joaquin Valley, California: Design and preliminary interpretation, *in* Wagner, B.J., Illangasekare, T.H., and Jensen, K.H., 1995, *Models for assessing and monitoring groundwater quality*: IAHS Publication no. 227, p. 49-57.
- Dubrovsky, Neil M., Kratzer, Charles R., Panshin, Sandra Y., Gronberg, JoAnn M., and Kuivila, Kathryn M., 2000, Pesticide transport in the San Joaquin River Basin *in* Steinheimer, Thomas R., Ross, Lisa J., and Spittler, Terry, D., eds. *American Chemical Society Symposium Series, Agrochemical Fate and Movement*, Washington, D.C., p.306-322.
- Kratzer, Charles R., 1999, Transport of diazinon in the San Joaquin River Basin, California: *Journal of the American Water Resources Association*, vol. 35, no. 2, p.379-395.
- Leland, Harry V., Brown, Larry R., and Mueller, David K., 2001, Distribution of algae in the San Joaquin River, California, in relation to nutrient supply, salinity and other environmental factors: *Freshwater Biology*, vol. 46, p. 1139-1167.
- Pereira, Wilfred E., Domagalski, Joseph L., Hostettler, Frances D., Brown, Larry R., and Rapp, John B., 1996, Occurrence and accumulation of pesticides and organic contaminants in river sediment, water and clam tissues from the San Joaquin River and tributaries, California: *Environmental Toxicology and Chemistry*, vol. 15, no. 2, p. 172-179.
- Spurlock, F., Burow, K., and Dubrovsky, N., 2000, Chlorofluorocarbon dating of herbicide-containing well waters in Fresno and Tulare Counties, California: *Journal of Environmental Quality*, vol.29, no.2, p. 475-483.

Upper Snake River Basin

Circulars:

Clark, G.M., Maret, T.R., Rupert, M.G., Maupin, M.A., Low, W.H., and Ott, D.S., 1998, Water quality in the Upper Snake River Basin, Idaho and Wyoming, 1992-95: U.S. Geological Survey Circular 1160, 35 p.

Fact Sheets:

Low, Walton H., 1997, Activities of the National Water-Quality Assessment Program in the Upper Snake River Basin, Idaho and Western Wyoming, 1991-2001: U.S. Geological Survey Fact Sheet FS-198-96, 4 p.

Maret, Terry R., 1995, Mercury in streambed sediment and aquatic biota in the Upper Snake River Basin, Idaho and western Wyoming, 1992: U.S. Geological Survey Fact Sheet 089-95, 2 p.

Maupin, Molly, 1996, Estimated water use at dairy farms in Gooding, Jerome, and Twin Falls Counties, Idaho, 1990-93: U.S. Geological Survey Fact Sheet 111-96, 2 p.

Rupert, Michael G., 1999, Improvements to the DRASTIC ground-water vulnerability mapping method: U.S. Geological Survey Fact Sheet 066-99, 6 p.

Rupert, Michael G., Stone, M.A.J., Ott, D.S., 1996, National Water-Quality Assessment Program--Nitrate and pesticides in ground water: Blaine, Cassia, Lincoln, and Minidoka counties, south-central Idaho: U.S. Geological Survey Fact Sheet 246-95, 4 p.

Open-File Reports:

Low, W.H., 1991, National Water-Quality Assessment Program-Upper Snake River Basin: U.S. Geological Survey Open-File Report 91-165, 2 p.

Ott, Douglas S., 1997, Selected organic compounds and trace elements in water, bed sediment, and aquatic organisms, Upper Snake River Basin, Idaho and western Wyoming, water years 1992-94: U.S. Geological Survey Open-File Report 97-18, available only on web site-- <http://www.idaho.wr.usgs.gov/nawqa/reports/OFR97-18.html>

Ott, Douglas S., 1998, Water-quality assessment of the Upper Snake River Basin, Idaho and Western Wyoming--Quality-control data, water years 1992-96: U.S. Geological Survey Open-File Report 98-179, 172 p., available only on web site--<http://www.idaho.wr.usgs.gov/nawqa/reports/OTT.OFR98-179/datarep.html>

Water-Resources Investigations Reports:

Clark, Gregory M., 1997, Assessment of nutrients, suspended sediment, and pesticides in surface water of the Upper Snake River Basin, Idaho and western Wyoming, water years 1991-95: U.S. Water-Resources Investigations Report 97-4020, 45 p.

Clark, Gregory M., 1994, Assessment of selected constituents in surface water of the Upper Snake River Basin, Idaho and western Wyoming, water years 1975-89: U.S. Geological Survey Water-Resources Investigations Report 93-4229, 49 p.

Maret, Terry R., 1995, Water-quality assessment of the Upper Snake River Basin,

- Idaho and western Wyoming-summary of aquatic biological data for surface water through 1992: U.S. Geological Survey Water-Resources Investigations Report 95-4006, 59 p.
- Maret, Terry R., 1997, Characteristics of fish assemblages and related environmental variables for streams of the upper Snake River Basin, Idaho and Western Wyoming, 1993-95: U.S. Geological Survey Water-Resources Investigations Report 97-4087, 50 p.
- Maret, Terry R., and Ott, Douglas S., 1997, Organochlorine compounds in fish tissue and bed sediment in the Upper Snake River Basin, Idaho and Western Wyoming, 1992-94: U.S. Geological Survey Water-Resources Investigations Report 97-4080, 23 p.
- Maupin, Molly A., 1997, Agricultural land-use classification using Landsat imagery data, and estimates of irrigation water use in Gooding, Jerome, Lincoln, and Minidoka Counties, 1992 water year, Upper Snake River Basin, Idaho and western Wyoming: U.S. Geological Survey Water-Resources Investigations Report 97-4115, 29 p.
- Maupin, Molly A., 1995, Water-quality assessment of the Upper Snake River Basin, Idaho and western Wyoming-environmental setting, 1980-92: U.S. Geological Survey Water-Resources Investigations Report 94-4221, 35 p.
- Rupert, Michael G., 1996, Nitrate ($\text{NO}_2+\text{NO}_3\text{-N}$) in ground water of the Upper Snake River Basin, Idaho and Western Wyoming, 1991-95: U.S. Geological Survey Water-Resources Investigations Report 97-4174, 47 p.
- Rupert, Michael G., 1996, Major sources of nitrogen input and loss in the Upper Snake River Basin, Idaho and Western Wyoming, 1990: U.S. Geological Survey Water-Resources Investigations Report 96-4008, 15 p.
- Rupert, Michael G., 1994, Analysis of data on nutrients and organic compounds in ground water in the Upper Snake River Basin, Idaho and western Wyoming, 1980-91: U.S. Geological Survey Water-Resources Investigations Report 94-4135, 40 p.

Articles and Papers:

- Clark, Gregory M., 1994, Occurrence of pesticides in surface water in the Rock Creek watershed, south-central Idaho: Journal of the Idaho Academy of Sciences, vol. 30, no. 2, December 1994, p 61-74.
- Clark, Gregory M., 1997, Occurrence and flux of selected pesticides in surface water of the upper Snake River Basin, Idaho and western Wyoming: Journal of Soil and Water Conservation, September-October 1997, vol. 52, no. 5, p. 381-388.
- Clark, Gregory M., Ott, D.S., 1996, Springflow effects on chemical loads in the Snake River, south-central Idaho: Journal of the American Water Resources Association, vol. 32, no. 3, June 1996, p. 553-563.
- Maret, Terry, and Low, Walton, 1995, Drawing a "big picture" of Idaho waters: Idaho Wildlife, Fall 1995, vol 15, issue 5, p. 12-16.
- Maret, Terry, and Robinson, Christopher T., and Minshall, G. Wayne, 1997, Fish assemblages and environmental correlates in least-disturbed streams of the Upper Snake River Basin: Transactions of the American Fisheries Society, vol. 126, no.2, p.200-216.
- Plummer, L.N., Rupert, M.G., Busenberg, E., and Schlosser, P., 1999, Age of irrigation water in ground water from the eastern Snake River Plain aquifer, South-Central Idaho: Ground Water, vol. 38, no. 2, p. 264-283.

Books:

Maret, Terry R., 1999, Characteristics of fish assemblages and environmental conditions in streams of the Upper Snake River Basin in Eastern Idaho and Western Wyoming, *in* Simon, Thomas P., ed., Assessing the sustainability and biological integrity of water resources using fish communities, CRC Press LLC, p.273-299.

Willamette Basin

Circulars:

Wentz, Dennis A., Bonn, Bernadine A., Carpenter, Kurt D., Hinkle, Stephen R., Janet, Mary L., Rinella, Frank A., Uhrich, Mark A., Waite, Ian R., Laenen, Antonius, and Bencala, Kenneth E., 1998, Water quality in the Willamette Basin, Oregon, 1991-95: U.S. Geological Survey Circular 1161, 34 p.

Open-File Reports:

Bonn, Bernadine A., Wentz, Dennis A., and Hinkle, Stephen R., 1996, Nitrogen in streams and ground water, 1980-90: U.S. Geological Survey Open-File Report 96-227, 4 p.

Harrison, Howard E., Anderson, Chauncey W., Rinella, Frank A., Gasser, Timothy M., and Pogue, Ted R. Jr., 1995, Analytical data from phases I and II of the Willamette River Basin water-quality study, Oregon, 1992-94: U.S. Geological Survey Open-File Report 95-373, 171 p.

Wentz, D.A., and McKenzie, S.W., 1991, National Water-Quality Assessment Program--The Willamette Basin, Oregon: U.S. Geological Survey Open-File Report 91-167, 2 p.

Water-Resources Investigations Reports:

Altman, Bob, Henson, Colleen, M., and Waite, Ian R., 1997, Summary of information of aquatic biota and their habitats in the Willamette Basin, Oregon, through 1995: U.S. Geological Survey Water-Resources Investigations Report 97-4023, 174 p.

Anderson, Chauncey W., Rinella, Frank A., and Rounds, Stewart A., 1996, Occurrence of selected trace elements and organic compounds and their relation to land use in the Willamette River Basin, Oregon, 1992-94: U.S. Geological Survey Water-Resources Investigations Report 96-4234, 68 p.

Bonn, Bernadine A., 1998, Dioxins and furans in bed sediment and fish tissue of the Willamette Basin, Oregon, 1992-95: U.S. Geological Survey Water-Resources Investigations Report 97-4082-D, 12 p.

Bonn, Bernadine A., Hinkle, Stephen R., Wentz, Dennis A., and Uhrich, Mark A., 1995, Analysis of nutrient and ancillary water-quality data for surface and ground water of the Willamette Basin, Oregon, 1980-90: U.S. Geological Survey Water-Resources Investigations Report 95-4036, 88 p.

Hinkle, Stephen R., 1997, Quality of shallow ground water in alluvial aquifers of the Willamette Basin, Oregon, 1993-95: U.S. Geological Survey Water-Resources Investigations Report 97-4082-B, 48 p.

Rinella, Frank A., and Janet, Mary L., 1998, Seasonal and spatial variability of nutrients and pesticides in streams of the Willamette Basin, Oregon, 1993-95: U.S. Geological Survey Water-Resources Investigations Report 97-4082-C, 57 p.

Uhrich, Mark A., and Wentz, Dennis A., 1999, Environmental setting of the Willamette Basin, Oregon: U.S. Geological Survey Water-Resources Investigations Report 97-4082-A, 20 p.

Articles and Papers:

- Bonn, Bernadine A., 1998, Polychlorinated dibenzo-*p*-dioxin and dibenzofuran concentration profiles in sediment and fish tissue of the Willamette Basin, Oregon: *Environmental Science & Technology*, vol. 32, no. 6, p. 729-735.
- Carpenter, Kurt D., and Waite, Ian R., 2000, Relations of habitat-specific algal assemblages to land use and water chemistry in the Willamette Basin, Oregon: *Environmental Monitoring and Assessment* vol. 64, p. 247-257.
- Hinkle, Stephen R., 1997, Regional distribution of nitrite plus nitrate in shallow ground water from alluvial deposits of the Willamette Basin, Oregon *in* Laenen, Antonius, and Dunnette, David A., eds., *River Quality Dynamics and Restoration*, p. 141-149.
- Hinkle, S.R., Duff, J.H., Triska, F.J., Laenen, A., Gates, E.B., Bencala, K.E., Wentz, D.A., and Silva, S.R., 2001, Linking hyporheic flow and nitrogen cycling near the Willamette River-- A large river in, Oregon, USA: *Journal of Hydrology*, vol. 244, p. 157-180.
- Laenen, Antonius, 1995, Willamette River water quality study--Sediment transport in the main stem and major tributaries: *The Cutting Edge of Water Research*, Oregon Water Resources Research Institute, vol 1, no 1, 4 p.
- Laenen, Antonius, and Bencala, Kenneth E., 2001, Transient storage assessments of dye-tracer injections in rivers of the Willamette Basin, Oregon: *Journal of the American Water Resources Association* vol. 37, no. 2, p. 367-377.
- Waite, Ian R., and Carpenter, Kurt D., 2000, Associations among fish assemblage structure and environmental variables in Willamette Basin stream, Oregon: *Transactions of the American Fisheries Society* vol. 129, p. 754-770.
- Wentz, Dennis A., Waite, Ian R., and Rinella, Frank A., 1998, Comparison of streambed sediment and aquatic biota as media for characterizing trace elements and organochlorine compounds in the Willamette Basin, Oregon: *Environmental Monitoring and Assessment*, vol. 51, p. 673-693.
- Uhrich, M.A., and Wentz D.A., 1997, Water quality study design for the Willamette Basin, Oregon, using a geographic information system *in* Best, Gerry, Bogacka, Teresa, and Niemirycz, Elzbieta, eds., *International River Water Quality*: E & FN Spon, London, ISBN 0419215409, p. 181-189.

Yakima River Basin

Circulars:

Rinella, J.F., Hamilton, P.A., and McKenzie, S.W., 1993, Persistence of the DDT pesticide in the Yakima River Basin, Washington: U.S. Geological Survey Circular 1090, 24 p.

Open-File Reports:

- Fuhrer, Gregory J., Cain, Daniel J., McKenzie, Stuart W., Rinella, Joseph F., Crawford, J. Kent, Skach, Kenneth A., Hornberger, Michelle I., Gannett, Marshall W., and 1995, Surface-water-quality assessment of the Yakima River Basin in Washington: Spatial and temporal distribution of trace elements in water, sediment, and aquatic biota, 1987-91: U.S. Geological Survey Open-File Report 95-440, 190 p.
- Fuhrer, Gregory J., Fluter, Shelley L., McKenzie, Stuart W., Rinella, Joseph F., Crawford, J. Kent, Cain, Daniel J., Hornberger, Michelle I., Bridges, Jennifer L., and Skach, Kenneth A., 1994, Surface-water-quality assessment of the Yakima River Basin in Washington: Major- and minor-element data for sediment, water, and aquatic biota, 1987-91: U.S. Geological Survey Open-File Report 94-308, 223 p.
- Fuhrer, Gregory J., McKenzie, Stuart W., Rinella, Joseph F., Sanzolone, Richard F., and Skach, Kenneth A., 1994, Surface-water-quality assessment of the Yakima River Basin in Washington: Analysis of major and minor elements in fine-grained streambed sediment, 1987: U.S. Geological Survey Open-File Report 93-30, 131 p.
- McKenzie, S.W., and Curtiss, D.A., 1989, Surface-water-quality assessment of the Yakima River Basin, Washington: A Pilot Study: U.S. Geological Survey Open-File Report 89-60, 6 p.
- McKenzie, S.W., and Rinella, J.F., 1987, Surface-water-quality assessment of the Yakima River Basin, Washington: Project Description: U.S. Geological Survey Open-File Report 87-238, 35 p.
- Rinella, J.F., McKenzie, S.W., and Fuhrer, G.J., 1992, Executive summary surface-water-quality assessment of the Yakima River Basin, Washington: Analysis of available water-quality data through 1985 water year: U.S. Geological Survey Open-File Report 91-454, 13 p.
- Rinella, J.F., McKenzie, S.W., and Fuhrer, G.J., 1992, Surface-water quality assessment of the Yakima River Basin, Washington: Analysis of available water-quality data through 1985 water year: U.S. Geological Survey Open-File Report 91-453, 244 p.
- Rinella, J.F., McKenzie, F.W., Crawford, J.K., Foreman, W.T., Gates, P.M., Furher, G.J., and Janet, M.L., 1992, Surface-water-quality assessment of the Yakima River Basin, Washington: Pesticide and other trace-organic-compound data for water, sediment, soil, and aqua biota, 1987-91: U.S. Geological Survey Open-File Report 92-644, 153 p.
- Ryder, J.L., Sanzolone, R.F., Fuhrer, G.J., and Mosier, E.L., 1992, Surface-water-quality assessment of the Yakima River Basin in Washington: Chemical analysis of major, minor, and trace elements in fine-grained streambed sediment: U.S. Geological Survey Open-File Report 92-520, 60 p.

Water-Resources Investigations Reports:

Embrey, S.S., 1992, Surface-water-quality assessment of the Yakima River Basin, Washington: Areal distribution of fecal-indicator bacteria, July 1988: U.S. Geological Survey Water-Resources Investigations Report 91-4073, 32 p.

Cuffney, Thomas F., Meador, Michael R., Porter, Stephen D., and Gurtz, Martin E., 1997, Distribution of fish, benthic invertebrate, and algal communities in relation to physical and chemical conditions, Yakima River Basin, Washington, 1990: U.S. Geological Survey Water-Resources Investigations Report 96-4280, 94 p. (also listed under National Synthesis --Special Topics.)

Morace, Jennifer L., Fuhrer, Gregory J., Rinella, Joseph F., McKenzie, Stuart W., and Others, 1999, Surface-water-quality assessment of the Yakima River Basin in Washington: Overview of major findings, 1987-91: U.S. Geological Survey Water-Resources Investigations Report 98-4113, 119 p.

Water-Supply Papers:

Rinella, Joseph F., McKenzie, Stuart W., Crawford, J. Kent, Foreman, William T., Fuhrer, Gregory J., Morace, Jennifer L., and Aiken, George R., 1999, Surface-water-quality assessment of the Yakima River Basin in Washington - Distribution of pesticides and other organic compounds in water, sediment, and aquatic biota, 1987-91: U.S. Geological Survey Water-Supply Paper 2354-B, 180 p.

Articles and Papers:

Leland, Harry V., 1995, Distribution of phytobenthos in the Yakima River Basin, Washington, in relation to geology, land use, and other environmental factors: Canadian Journal of Fisheries and Aquatic Sciences, vol. 52, May 1995, p. 1108-1129.

Pankow, J.F., and McKenzie, S.W., 1991, Parameterizing the equilibrium distribution of chemicals between the dissolved, solid particulate matter, and colloidal matter compartments in aqueous systems: Environmental Science and Technology, vol. 25, p. 2046.

NATIONAL SYNTHESIS--Program Design

Circulars:

Gilliom, Robert J., Alley, William M., and Gurtz, Martin E., 1995, Design of the National Water-Quality Assessment Program: Occurrence and distribution of water-quality conditions: U.S. Geological Survey Circular 1112, 33 p.

Gilliom, Robert J., and Thelin, Gail P., 1997, Classification and mapping of agricultural land for national water-quality assessment: U.S. Geological Survey Circular 1131, 70 p.

Open-File Reports:

Gilliom, Robert J., Mueller, David K., and Nowell, Lisa H., 1998, Methods for comparing water-quality conditions among National Water-Quality Assessment Study Units, 1992-1995: U.S. Geological Survey Open-File Report 97-589, 54 p.

Lopes, Thomas J., and Price, Curtis V., 1997, Study plan for urban stream indicator sites of the National Water-Quality Assessment Program: U.S. Geological Survey Open-File Report 97-25, 15 p.

Mueller, David K., Martin, Jeffrey D., and Lopes, Thomas J., 1997, Quality-control design for surface-water sampling in the National Water-Quality Assessment Program: U.S. Geological Survey Open-File Report 97-223, 17 p.

Robinson, Keith W., and Horn, Marilee A., 1998, Availability and suitability of data from public water-supplier sources for use in water-quality assessments: U.S. Geological Survey Open-File Report 97-825, 18 p.

Squillace, Paul J., and Price, Curtis V., 1996, Urban land-use study plan for the National Water-Quality Assessment Program: U.S. Geological Survey Open-File Report 96-217, 19 p.

Water-Resources Investigations Reports:

Hitt, Kerie J., 1994, Refining 1970's land-use data with 1990 population data to indicate new residential development: U.S. Geological Survey Water-Resources Investigations Report 94-4250, 15 p.

NATIONAL SYNTHESIS--Ecology

Fact Sheets:

- Smith, Stephen B., 1998, Investigations of endocrine disruption in aquatic systems associated with the National Water-Quality Assessment (NAWQA) Program: U.S. Geological Survey Fact Sheet FS-081-98, 4 p.
- Smith, Stephen B., 2000, Altered endocrine biomarkers in selected fish species in the Hudson River, New York: U.S. Geological Survey Fact Sheet FS-113-00, 2 p.

Open-File Reports:

- Goodbred, Steven L., Gilliom, Robert J., Gross, Timothy S., Denslow, Nancy P., Bryant, Wade B., and Schoeb, Trenton R., 1996, Reconnaissance of 17b-estradiol, 11-ketotestosterone, vitellogenin, and gonad histopathology in common carp of United States streams: Potential for contaminant-induced endocrine disruption: U.S. Geological Survey Open-File Report 96-627, 47 p.

Water-Resources Investigations Reports:

- Cuffney, Thomas F., Meador, Michael R., Porter, Stephen D., and Gurtz, Martin E., 1997, Distribution of fish, benthic invertebrate, and algal communities in relation to physical and chemical conditions, Yakima River Basin, Washington, 1990: U.S. Geological Survey Water-Resources Investigations Report 96-4280, 94 p. (also listed under Yakima River Basin)

Articles and Papers:

- Goldstein, Robert M., and DeWeese, L.Rod, 1999, Comparison of trace element concentrations in tissue of common carp and implications for monitoring: Journal of the American Water Resources Association, vol. 35, no. 5, October 1999, p. 1133-1140. (also listed under National Synthesis--Trace Elements)
- Leland, Harry V., and Porter, Stephen D., 2000, Distribution of benthic algae in the upper Illinois River basin in relation to geology and land use: Freshwater Biology, vol. 44, p. 279-301.
- McMahon, Gerard, and Cuffney, Thomas, 2000, Quantifying urban intensity in drainage basins for assessing stream ecological conditions: Journal of the American Water Resources Association, vol. 36, no. 6, December 2000, p. 1247-1261.
- McMahon, Gerard, Gregonis, Steven M., Waltman, Sharon W., Omernik, James M., Thorson, Thor D., Freeouf, Jerry A., Rorick, Andrew H., and Keys, James E., 2001, Developing a spatial framework of common ecological regions for the conterminous United States: Environmental Management, vol. 28, no. 3, p. 293-316.
- Wong, Charles S., Capel, Paul D., and Nowell, Lisa H., 2001, National-scale, field-based evaluation of the biota--Sediment accumulation factor model: Environmental Science & Technology, vol. 35, no. 9, p. 1709-1715. (also listed under Pesticide National Synthesis)

NATIONAL SYNTHESIS--Microbiology

Water-Resources Investigations Reports:

Francy, Donna S., Myers, Donna N., and Helsel, Dennis R., 2000, Microbiological monitoring for U.S. Geological Survey National Water-Quality Assessment Program: U.S. Geological Survey Water-Resources Investigations Report 00-4018, 34 p. (also listed under Protocols)

Articles and Papers:

Francy, Donna S., Helsel, Dennis H., and Nally, Rebecca A., 2000, Occurrence and distribution of microbiological indicators in ground water and stream water: Water Environment Research, vol. 72, no. 2, p. 152-161.

NATIONAL SYNTHESIS--Nutrients

Circulars:

Mueller, David K., and Helsel, Dennis R., 1996, Nutrients in the Nation's water--Too much of a good thing? --U.S. Geological Survey Circular 1136, 24 p.

Fact Sheets:

Graffy, Elisabeth A., Helsel, Dennis R., and Mueller, David K., 1996, Nutrients in the Nation's waters: Identifying problems and progress: U.S. Geological Survey Fact Sheet 218-96, 6 p. (also listed under Outreach)

Kolpin, Dana, Hallberg, George, Sneck-Fahrer, Debra, and Libra, Robert, 1997, Agricultural chemicals in Iowa's ground water, 1982-95--What are the trends? U.S. Geological Survey Fact Sheet FS-116-97, 4 p. (also listed under Eastern Iowa Basins, NS--Pesticides, and NS--Trends)

Nolan, B.T., and Ruddy, B.C., 1996, Nitrate in ground waters of the United States--Assessing the risk: U.S. Geological Survey Fact Sheet 092-96, 4 p.

Open File Reports:

Nolan, Bernard T., 1998, Modeling approaches for assessing the risk of nonpoint-source contamination of ground water: U.S. Geological Survey Open-File Report 98-531, 15 p.

Mueller, David K., 1998, Quality of nutrient data from streams and ground water sampled during 1993-95 --National Water-Quality Assessment Program: U.S. Geological Survey Open-File Report 98-276, 25 p.

Puckett, L.J., and Triska, F.J., eds, 1996, U.S. Geological Survey nitrogen cycling workshop, Denver, Colorado, October 30- November 2, 1995: U.S. Geological Survey Open-File Report 96-477, 88 p.

Water-Resources Investigations Reports:

Litke, David W., 1999, Review of phosphorus control measures in the United States and their effects on water quality: U.S. Geological Survey Water-Resources Investigations Report 99-4007, 38 p.

Mueller, David K., Hamilton, Pixie A., Helsel, Dennis R., Hitt, Kerie J., and Ruddy, Barbara C. 1995, Nutrients in ground water and surface water of the United States--An analysis of data through 1992: U.S. Geological Survey Water-Resources Investigations Report 95-4031, 74 p.

Puckett, Larry J., 1994, Nonpoint and point sources of nitrogen in major watersheds of the United States: U.S. Geological Survey Water-Resources Investigations Report 94-4001, 9 p.

Articles and Papers:

Clark, Gregory M., Mueller, David K., and Mast M. Alisa, 2000, Nutrient concentrations and yields in undeveloped stream basins of the United States: Journal of the American Water Resources Association, vol. 36, no. 4, August 2000, 849-860.

Mueller, David K., Ruddy, Barbara C., and Battaglin, William A., 1993, Relation of nitrate concentrations in surface water to land use in the upper-

- midwestern United States, 1989-1990, in Goolsby, D.A., Boyer, L.L., and Mallard, G.E., compilers, Selected papers on agricultural chemicals in water resources of the midcontinental United States: U.S. Geological Survey Open-File Report 93-418, p. 41-50.
- Mueller, David K., Ruddy, Barbara C., and Battaglin, William A., 1997, Logistic model of nitrate in streams of the upper-midwestern United States: *Journal of Environmental Quality*, vol. 26, no.5, p. 1223-1230.
- Nolan, Bernard T., 1999, Nitrate behavior in ground waters of the southeastern USA: *Journal of Environmental Quality*, vol. 28, no. 5, Sept.-Oct. 1999, p. 1518-1527.
- Nolan, Bernard T., 2000, Nutrients in groundwaters of the conterminous United States, 1992-1995: *Environmental Science and Technology*, vol. 34, no. 7, p. 1156-1165.
- Nolan, Bernard T., 2001, Relating nitrogen sources and aquifer susceptibility to nitrate in shallow ground waters of the United States: *Ground Water*, vol. 39, no. 2, p. 290-299.
- Nolan, Bernard T., Ruddy, Barbara C., Hitt, Kerie J., and Helsel, Dennis R., 1997, Risk of nitrate in ground waters of the United States-- A national perspective: *Environmental Science and Technology*, vol. 31, no. 8, p. 229-2236.
- Nolan, Bernard T., Ruddy, Barbara C., Hitt, Kerie J., and Helsel, Dennis R., 1998, A National look at nitrate contamination of ground water: *Water Conditioning & Purification*, vol. 39, no. 12, January 1998, p. 76-79.
- Puckett, Larry J., 1999, Estimation of nitrate contamination of an Agro-Ecosystem Outwash Aquifer using a nitrogen mass-balance budget: *Journal of Environmental Quality*, vol. 28, no. 6, Nov.-Dec. 1999, p. 2015-2025.(also listed under Red River of the North)
- Puckett, Larry J., 1995, Identifying the major sources of nutrient water pollution: *Environmental Science and Technology*, vol. 29, no. 9, September 1995, p 408-414.
- Wilber, William G., and Davis, Jerri V., 1994, Assessing the quality of the Nation's water--Point versus nonpoint sources of phosphorus in rivers: *U.S. Geological Survey Yearbook, Fiscal Year 1993*, p. 48-49.

Pamphlets:

- Puckett, L.J., 1994, Nonpoint and point sources of nitrogen in major watersheds of the United States: Based on U.S. Geological Survey Water-Resources Investigations Report 94-4001, 6 p.

NATIONAL SYNTHESIS--Nutrients--SPARROW Modeling

Fact Sheets:

Alexander, R.B., Slack, J.R., Ludtke, A.S., Fitzgerald, K.K., and Schertz, T.L., 1997, Data from selected U.S. Geological Survey national stream water-quality monitoring networks (WQN) on CD-ROM: U.S. Geological Survey Fact Sheet FS-013-97, 2 p.

Open-File Report:

Alexander, Richard B., Smith, Richard A., Focazio, Michael J., and Horn, Marillee A., 1999, Source-area characteristics of large public surface-water supplies in the conterminous United States: An information resource for source-water assessment: U.S. Geological Survey Open-File Report 99-248, CD-ROM.

Digital Data Series:

Alexander, R.B., Slack, J.R., Ludtke, A.S., Fitzgerald, K.K., and Schertz, T.L., 1996, Data from selected U.S. Geological Survey national stream water-quality monitoring networks (WQN): U.S. Geological Survey Digital Data Series, DDS-37,

Articles and Papers:

Alexander, Richard B., Smith, Richard A., and Schwarz, Gregory E., 2000, Effect of stream channel size on the delivery of nitrogen to the Gulf of Mexico: *Nature*, vol. 403, February 17, 2000, p. 758-761.

Alexander, Richard B., Smith, Richard A., Schwarz, Gregory E., Preston, Stephen D., Brakebill, John W., Srinivasan, Raghavan, and Pacheco, Percy A., 2000, Atmospheric nitrogen flux from the watersheds of major estuaries of the United States: An application of the SPARROW watershed model: *American Geophysical Union*, p. 119-170.

Alexander, Richard B., Slack, James R., Fitzgerald, A.S., Schertz, and T.L., 1997, Data from selected U.S. Geological Survey national stream water quality monitoring networks: *Water Resources Research*, vol. 34, no. 9, p. 2401-2405.

Smith, Richard A., Alexander, Richard B., Tasker, Gary D., Price, Curtis V., Robinson, Keith W., White, Dale A., 1993, Statistical modeling of water-quality in regional watersheds: *Watershed '93*, p. 751-754.

Smith, Richard A., Schwarz, Gregory E., and Alexander, Richard B., 1997, Regional interpretation of water-quality monitoring data: *Water Resources Research*, December 1997, vol. 33, no. 12, p. 2781-2798.

NATIONAL SYNTHESIS--Pesticides**Fact Sheets:**

- Barbash, J.E., 1996, Pesticides in ground water--Current understanding of the distribution and major influences: U.S. Geological Survey Fact Sheet 244-95, 4 p.
- Kolpin, Dana, Hallberg, George, Sneck-Fahrer, Debra, and Libra, Robert, 1997, Agricultural chemicals in Iowa's ground water, 1982-95--What are the trends? U.S. Geological Survey Fact Sheet FS-116-97, 4 p. (also listed under Eastern Iowa Basins, and NS--Nutrients)
- Majewski, M.S., 1995, Pesticides in the atmosphere--Current understanding of distribution and major influences: U.S. Geological Survey Fact Sheet 152-95, 4 p.
- U.S. Geological Survey, 1997, Pesticides in surface waters--Current understanding of distribution and major influences: U.S. Geological Survey Fact Sheet FS-039-97, 4 p.
- U.S. Geological Survey, 2000, Pesticides in stream sediment and aquatic biota: U.S. Geological Survey Fact Sheet 092-00, 4 p.

Open-File Reports:

- Martin, Jeffrey D., Gilliom, Robert J., and Schertz, Terry L., 1999, Summary and evaluation of pesticides in field blanks collected for the National Water-Quality Assessment Program, 1992-95: U.S. Geological Survey Open-File Report 98-412, 102 p.
- Nowell, Lisa H., and Resek, Elizabeth A., 1994, Summary of national standards and guidelines for pesticides in water, bed sediment, and aquatic organisms and their application to water-quality assessments: U.S. Geological Survey Open-File Report 94-44, 115 p.

Water-Resources Investigations Reports:

- Barbash, Jack E., Thelin, Gail P., Kolpin, Dana W., and Gilliom, Robert J., 1999, Distribution of major herbicides in ground water of the United States: U.S. Geological Survey Water-Resources Investigations Report 98-4245, 57 p.
- Capel, Paul D., Lin, Ma, and Wotzka, Paul J., 1998, Wet atmospheric deposition of pesticides in Minnesota, 1989-94: U.S. Geological Survey Water-Resources Investigations Report 97-4026, 43 p.
- Capel, Paul D., Winterstein, Thomas A., Larson, Steven J., 2001, Selected data from field studies of pesticide runoff to surface waters: U.S. Geological Survey Water-Resources Investigations Report 00-4284, 70 p.
- Larson, Steven J., Gilliom, Robert J., Capel, Paul D., 1999, Pesticides in streams of the United States--Initial results from the National Water-Quality Assessment Program: U.S. Geological Survey Water-Resources Investigations Report 98-4222, 92 p.
- Munn, Mark D., and Gilliom, Robert J., 2001, Pesticide toxicity index for freshwater aquatic organisms: U.S. Geological Survey Water-Resources Investigations Report 01-4077, 55 p. (released as a web-only report URL: <http://pubs.water.usgs.gov/wri014077/>)

Wong, Charles S., Capel, Paul D., Nowell, Lisa H., 2000, Organochlorine pesticides and PCBs in stream sediment and aquatic biota--Initial results from the National Water-Quality Assessment Program, 1992-1995: U.S. Geological Survey Water-Resources Investigations Report 00-4053, 88 p.

Books:

Barbash, J.E. and Resek, E.A., 1996, Pesticides in ground water: Distribution, trends, and governing factors: Volume 2 of the series--Pesticides in the Hydrologic System: Ann Arbor Press, Chelsea, Michigan, 590 p.

Larson, S.J., Capel, P.D., and Majewski, M.S., 1997, Pesticides in surface waters: Distribution, trends, and governing factors: Volume 3 of the series--Pesticides in the Hydrologic System: Ann Arbor Press, Chelsea, Michigan, 390 p.

Majewski, M.S., and Capel, P.D., 1995, Pesticides in the atmosphere-- Distribution, trends, and governing factors: Volume 1 of the series-- Pesticides in the Hydrologic System: Ann Arbor Press, Chelsea, Michigan, 228 p.

Nowell, Lisa H., Capel, Paul D., and Dileanis, Peter D., 1999, Pesticides in stream sediment and aquatic biota: Distribution, trends, and governing factors: Volume 4 of the series--Pesticides in the Hydrologic System: Lewis Publishers, 1001 p.

Articles and Papers:

Barbash, Jack E., Thelin, Gail P., Kolpin, Dana W., and Gilliom, Robert J., 2001, Major herbicides in ground water: Results from the National Water-Quality Assessment: Journal of Environmental Quality, vol. 30, no. 3, p. 831-845.

Capel, P.D., 1993, Organic chemical concepts, Chapter 7, in Alley, W.M., ed., Regional ground-water quality: New York, Van Nostrand Reinhold, p. 155-179.

Capel, P.D., and Larson, S.J., 1995, A chemodynamic approach for estimating losses of target organic chemicals from water during sample holding time: Chemosphere, vol. 30, no. 6, p. 1097-1107.

Capel, Paul D., and Larson, Steven J., 2001, Effect of scale on the behavior of atrazine in surface waters: Environmental Science & Technology, vol. 35, no. 4, p. 648-657.

Capel, Paul D., Larson, Steven J., and Winterstein, Thomas A., 2001, The behavior of 39 pesticides in surface waters as a function of scale: Hydrological Processes, vol. 15, p. 1251-1269.

Capel, P.D., Ma, Lin, Schroyer, B.R., Larson, S.J., and Gilchrist, T.A., 1995, Analysis and detection of the new corn herbicide acetochlor in river water and rain: Environmental Science and Technology, vol. 29, no. 6, p. 1702-1705.

Capel, Paul D., Zhang, Hua, 2000, Estimation of potential loss of two pesticides in runoff in Fillmore County, Minnesota using a field-scale process-based model and a geographic information system in Steinheimer, Thomas, R., Ross, Lisa J., and Spittler, Terry D., eds., ACS Symposium Series 175-- Agrochemical fate and movement, Chapter 12, p. 172-184.

Foreman, W.T., Majewski, M.S., Goolsby, D.A., Wiebe, F.W., and Coupe, R.H., 2000, Pesticides in the atmosphere of the Mississippi River Valley, part II--air: The Science of the Total Environment, vol. 248, p. 213-216.

- Gilliom, Robert J., 2001, Pesticides in the hydrologic system-- what do we know and what's next? *Hydrological Processes*, vol. 15, p. 3197-3201.
- Gilliom, Robert J., Barbash, Jack E., Kolpin, Dana W., and Larson, Steven J., 1999, Testing water quality for pesticide pollution: *Environmental Science & Technology*, April 1, 1999, p 164A - 169A.
- Graffy, Elisabeth A., 1998, Low-level detection of pesticides...so what? *Journal of Soil and Water Conservation*, vol. 53, no. 1, First Quarter 1998, p. 11-12. (also listed under Outreach)
- Hoffman, Ryan S., Capel, Paul D., and Larson, Steven J., 2000, Comparison of pesticides in eight U.S. urban streams: *Environmental Toxicology and Chemistry*, vol. 19, no. 9, p. 2249-2258.
- Kolpin, Dana W., 1997, Agricultural chemicals in ground water of the midwestern United States: Relations to land use: *Journal of Environmental Quality*, vol. 26, no. 4, July-August 1997, p. 1025-1037. (also listed under NS--Nutrients)
- Kolpin, Dana W., Barbash, Jack E., and Gilliom, Robert J., 1998, Occurrence of pesticides in shallow ground water of the United States: Initial results from the National Water-Quality Assessment Program: *Environmental Science & Technology*, vol. 32, no. 5, p. 558-566.
- Kolpin, Dana W., Barbash, Jack E., and Gilliom, Robert J., 2000, Pesticides in ground water of the United States, 1992-1996: *Ground Water*, vol. 38, no. 6, p. 858-863.
- Kolpin, D.W., Nations, B.K., Goolsby, D.A., and Thurman, E.M., 1996, Acetochlor in the hydrologic system in the midwestern United States, 1994: *Environmental Science & Technology*, vol. 30, no. 5, p. 1459-1464.
- Kolpin, Dana W., Squillace, P.J., Barbash, J.E., Zogorski, J.S., 1997, Pesticides and volatile organic compounds in shallow urban ground water of the United States, in Chilton, J., ed., *Ground water in the urban environment: A.A. Balkema, Netherlands*, p. 469-474.(also listed under NS--VOCs)
- Larson, Steven J., Capel, Paul D., 1995, Goolsby, D.A., Zaugg, S.D., and Sandstrom, M.W., 1995, Relations between pesticide use and riverine flux in the Mississippi River Basin: *Chemosphere*, vol. 31, no. 5, p. 3305-3321.
- Larson, Steven J., and Gilliom, Robert J., 2001, Regression models for estimating herbicide concentrations in U.S. streams from watershed characteristics: *Journal of the American Water Resources Association*, vol. 37, no. 5, p. 1349-1367.
- Lui, Shiping, Yen, Steven T., Kolpin, Dana W., 1996, Pesticides in ground water: Do atrazine metabolites matter? --*Journal of the American Water Resources Association*, vol. 32, no. 4, August 1996, p. 845-853.
- Majewski, M.S., 1997, Error evaluation of methyl bromide aerodynamic flux measurements, Chapter 12, in Seiber, J.N., and others, eds, *Fumigants-- environmental fate, exposure, and analysis: ACS Symposium Series*, vol. 652, p. 135-153.
- Majewski, Michael S., Foreman, William T., and Goolsby, Donald A., 2000, Pesticides in the atmosphere of the Mississippi River Valley, part I--rain: *The Science of the Total Environment*, vol. 248, p. 201-212.
- Majewski, Michael S., Foreman, William T., Goolsby, Donald A., and Nakagaki, Naomi, 1998, Airborne pesticide residues along the Mississippi River: *Environmental Science & Technology*, vol. 32, no. 23, p. 3689-3698.

- Majewski, M.S., McChesney, M.M., Woodrow, J.E., Prueger, J.H., Seiber, J.N., 1995, Aerodynamic measurements of methyl bromide volatilization from tarped and nontarped fields: *Journal Environmental Quality*, vol. 24, no. 4, p. 742-752.
- Majewski, M.S., 1994, Pesticides in the atmosphere, *in* U.S. Geological Survey earth science in the public service 1994: U.S. Geological Survey Yearbook 1994, p. 48-51.
- Nowell, L.H., and Resek, E.A., 1994, National standards and guidelines for pesticides in water, sediment, and aquatic organisms: Application to water-quality assessments, *in* Ware, G.W., ed., *Reviews of environmental contamination and toxicology*, vol. 140: Springer-Verlag, New York, 221 p.
- Wong, Charles S., Capel, Paul D., and Nowell, Lisa H., 2001, National-scale, field-based evaluation of the biota--Sediment accumulation factor model: *Environmental Science & Technology*, vol. 35, no. 9, p. 1709-1715. (also listed under Ecology National Synthesis)

NATIONAL SYNTHESIS--Trace Elements**Fact Sheets:**

- Ging, Patricia B., VanMetre, Peter C., and Callender, Edward, 1999, Bottom sediments of Lorence Creek Lake, San Antonio, Texas, reflect contaminant trends in an urbanizing watershed: U.S. Geological Survey Fact Sheet FS-149-99, 4 p. (also listed under South Central Texas)
- Naftz, David L., Stephens, Doyle W., Callender, Edward, and Van Metre, Peter C., 2000, Reconstructing historical changes in the environmental health of watersheds by using sediment cores from lakes and reservoirs in Salt Lake Valley, Utah: U.S. Geological Survey Fact Sheet FS-164-00, 6 p. (also listed under Great Salt Lakes)
- Van Metre, P.C., Land, L.F., and Braun, C.L., 1996, Water-quality trends using sediment cores from White Rock Lake, Dallas Texas: U.S. Geological Survey Fact Sheet FS-217-96, 4 p. (also listed under Trinity River Basin)
- Van Metre, P.C., and Manler, B.J., 1999, Town Lake bottom sediments: A chronicle of water-quality changes in Austin, Texas, 1960-98: U.S. Geological Survey Fact Sheet FS-183-99, 6 p.
- Van Metre, P.C., Manler, B.J., and Callender, E., 1996, Water-quality trends in the Rio Grande/Rio Bravo basin using sediment cores from reservoirs: U.S. Geological Survey Fact Sheet FS-221-96, 8 p. (also listed under Rio Grande Valley)
- Welch, Alan H., Watkins, Sharon A., Helsel, Dennis R., and Focazio, Michael J., 2000, Arsenic in ground-water resources of the United States: U.S. Geological Survey Fact Sheet FS-063-00, 4 p.

Water-Resources Investigations Reports:

- Focazio, Michael J., Welch, Alan H., Watkins, Sharon A., Helsel, Dennis R., and Horn, Marilee A., 2000, A retrospective analysis on the occurrence of arsenic in ground-water resources of the United States and limitations in drinking-water-supply characterizations: U.S. Geological Survey Water-Resources Investigations Report WRIR 99-4279, 21 p.

Articles and Papers:

- Bradbury, J.P., and Van Metre, P.C., 1997, A land-use and water-quality history of White Rock Lake Reservoir, Dallas, Texas, based on a sediment core: Journal of Paleolimnology, vol. 17, p. 227-237. (also listed under Trinity River Basin)
- Callender, Edward, and Rice, Karen C., 2000, The urban environmental gradient: Anthropogenic influences on the spatial and temporal distributions of lead and zinc in sediments: Environmental Science & Technology, vol. 34, no. 2, p. 232-238.
- Callender, Edward, and Van Metre, Peter C., 1997, Reservoir sediment cores show U.S. lead declines: Environmental Science & Technology, vol. 31, no. 9, 1997, p. 424A-428A.
- Goldstein, Robert M., and DeWeese, L.Rod, 1999, Comparison of trace element concentrations in tissue of common carp and implications for monitoring: Journal of the American Water Resources Association, vol. 35, no. 5, October 1999, p. 1133-1140. (also listed under National Synthesis--Ecology)

- Rice, Karen C., 1999, Trace-element concentrations in streambed sediment across the conterminous United States: *Environmental Science & Technology*, vol. 33, no. 15, p. 2499-2504.
- Van Metre, P.C., and Callender, E., 1996, Identifying water-quality trends in the Trinity River, Texas, USA, 1969-1992, using sediment cores from Lake Livingston: *Environmental Geology*, vol. 28, no. 4, p. 190-200. (also listed under Trinity River Basin)
- Van Metre, P.C., and Callender, E., 1997, Water-quality trends in White Rock Creek Basin from 1912-94 identified sediment cores from White Rock Lake reservoir, Dallas, Texas: *Journal of Paleolimnology*, vol. 17, p. 239-249. (also listed under Trinity River Basin)
- Van Metre, Peter C., Callender, Edward, and Fuller, Christopher C., 1998, Similar rates of decrease of persistent, hydrophobic and particle-reactive contaminants in riverine systems: *Environmental Science & Technology*, vol. 32, no. 21, 1998, p. 3312-3317.
- Van Metre, P.C., Callender, E., and Fuller, C.C., 1997, Historical trends in organochlorine compounds in river basins identified using sediment cores from reservoirs: *Environmental Science and Technology*, vol. 31, no. 8, p. 2339-2344.
- Van Metre, P.C., Mahler, B.J., and Callender, Edward, 2000, Trends in organochlorine and radionuclide concentrations in the Upper Rio Grande based on sediment core analyses from Elephant Butte Reservoir, New Mexico: *International Journal of Sediment Research*, vol. 13, no. 4, Dec. 1998, p. 1-11.
- Van Metre, Peter C., Mahler, Barbara J., and Furlong, Edward T., 2000, Urban sprawl leaves its PAH signature: *Environmental Science & Technology*, vol. 34, no. 19, p. 4064-4070.
- Welch, Alan H., Helsel, Dennis R., Focazio, Michael J. and Watkins, Sharon A., 2000, Arsenic in ground water supplies of the United States in Chappell, W.R., Abernathy, C.O., and Calderon, R.L., eds., *Arsenic Exposure and Health Effects: 1999 Elsevier Science B.V.*
- Welch, Alan, Ryker, Sarah, Helsel, Dennis, and Hamilton, Pixie, 2001, Arsenic in ground water of the United States: An overview: *Water Well Journal*, February 2001, p. 30-33.
- Welch, Alan H., Westjohn, D.B. Helsel, Dennis R., and Wanty, Richard B., 2000, Arsenic in ground water of the United States: Occurrence and geochemistry: *Ground Water*, vol. 38, no. 4, p. 589-604.

NATIONAL SYNTHESIS--Volatile Organic Compounds (VOCs)**Fact Sheets:**

- Delzer, Gregory C., and Setmire, James G., 1999, Quality of methyl tert-butyl ether (MTBE) data for ground-water samples collected during 1993-95 as part of the National Water-Quality Assessment Program: U.S. Geological Survey Fact Sheet 101-99, 4 p.
- Clawges, Rick, Rowe, Barbara, and Zogorski, John, 2001, National survey of MTBE and other VOCs in community drinking-water sources: U.S. Geological Survey Fact Sheet FS-064-01, 4 p.
- Squillace, Paul J., Pankow, James F., Korte, Nic E., and Zogorski, John S., 1996, Environment behavior and fate of methyl tert-butyl ether (MTBE): U.S. Geological Survey Fact Sheet 203-96, 6 p.
- Squillace, Paul J., Pope, Daryll A., and Price, Curtis A., 1995, Occurrence of the gasoline additive MTBE in shallow ground water in urban agricultural areas: U.S. Geological Survey Fact Sheet 114-95, 4 p.
- Zogorski, John S., Moran, Michael J., and Hamilton, Pixie A., 2001, MTBE and other volatile organic compounds--New findings and implications on the quality of source waters used for drinking-water supplies: U.S. Geological Survey Fact Sheet FS-105-01, 2 p.

Open-File Reports:

- Bender, David A., Zogorski, John S., Halde, Michael J., and Rowe, Barbara L., 1999, Selection procedure and salient information for volatile organic compounds emphasized in the National Water-Quality Assessment Program: U.S. Geological Survey Open-File Report 99-182, 32 p.
- Brachtel, Elise V., Price, Curtis V., and Clawges, Rick M., 1997, Selected bibliography of the fuel oxygenate methyl tert-butyl ether (MTBE) with emphasis on water quality: U.S. Geological Survey Open-File Report 97-564, 25 p.
- Grady, Stephen J., and Casey, George D., 1999, A plan for assessing the occurrence and distribution of methyl tert-butyl ether and other volatile organic compounds in drinking water and ambient ground water in the Northeast and Mid-Atlantic regions of the United States: U.S. Geological Survey Open-File Report 99-207, 36 p.
- Halde, Michael J., Delzer, Gregory C., and Zogorski, John S., 1999, Study design and analytical results used to evaluate a surface-water point sampler for volatile organic compounds: U.S. Geological Survey Open-File Report 98-651, 31 p.
- Ivahnenko, Tamara, Grady, Stephen J., and Delzer, Gregory C., 2001, Design of a national survey of methyl tert-butyl ether and other volatile organic compounds in drinking-water sources: U.S. Geological Survey Open-File Report 01-271, 42 p.
- Lapham, Wayne W., and Tadayon, Saeid, 1996, Plan for assessment of the occurrence, status, and distribution of volatile organic compounds in aquifers of the United States: U.S. Geological Survey Open-File Report 96-199, 44 p.
- Lopes, Thomas J., and Dionne, Shannon G., 1998, A review of semivolatile and volatile organic compound in highway runoff and urban stormwater: U.S. Geological Survey Open-File Report 98-409, 67 p.

- Love, Jason T., Delzer, Gregory C., Abney, Sonja R., and Zogorski, John S., 1999, Study design and analytical results used to evaluate stability of volatile organic compounds in water matrices: U.S. Geological Survey Open-File Report 98-637, 156 p.
- Rowe, Barbara L., Landrigan, Sondra J., and Lopes, Thomas J., 1997, Summary of published aquatic toxicity information and water-quality criteria for selected volatile organic compounds: U.S. Geological Survey Open-File Report 97-563, 60 p.
- Squillace, Paul J., and Moran, Michael J., 2000, Estimating the likelihood of MTBE occurrence in drinking water supplied by ground-water sources in the Northeast and Mid-atlantic regions of the United States: U.S. Geological Survey Open-File Report 00-343, 10 p.
- Squillace, Paul J., Zogorski, John S., Wilber, William G., and Price, Curtis V., 1995, A preliminary assessment of the occurrence and possible sources of MTBE in ground water of the United States, 1993-94: U.S. Geological Survey Open-File Report 95-456, 15 p.
- Taglioli, Brandon L., Delzer, Gregory C., and Zogorski, John S., 2001, Study design and analytical results used to evaluate carry-over contamination by volatile organic compounds in surface- and ground-water sampling procedures: U.S. Geological Survey Open-File Report 00-384, 36 p.

Professional Papers:

- Rathbun, R.E., 1998, transport, behavior, and fate of volatile organic compounds in streams: U.S. Geological Survey Professional Paper 1589, 151 p.

Water-Resources Investigations Reports:

- Delzer, Gregory, C., Zogorski, John S., Lopes, Thomas J., and Bosshart, Robin L., 1996, Occurrence of the gasoline oxygenate MTBE and BTEX compound in urban stormwater in the United States, 1991-1995: U.S. Geological Survey Water-Resource Investigations Report 96-4145, 6 p.
- Grady, Stephen J., and Casey, George D., 2001, Occurrence and distribution of methyl tert-butyl ether and other volatile organic compounds in drinking water Northeast and Mid-Atlantic regions of the United States: U.S. Geological Survey Water-Resources Investigations Report 00-4228, 123 p.
- Lundgren, Robert F., and Lopes, Thomas J., 1999, Occurrence, distribution, and trends of volatile organic compounds in the Ohio River and its major tributaries, 1987-96: U.S. Geological Survey Water-Resources Investigations Report 99-4257, 99 p.

Books:

- Zogorski, J.S., Baehr, A.L., Bauman, B.J., Conrad, D.L., Drew, R.T., Korte, N.E., Lapham, W.W., Morduchowitz, A., Pankow, J.F., and Washington, E.R., 1997, Significant findings and water-quality recommendations of the Interagency Oxygenated Fuel Assessment, *in* Kostecki, P.T., Calabrese, E.J., and Bonazountas, Marc, eds., Contaminated Soils: Amherst, Mass., Amherst Scientific Publishing, v. 2, p. 661-679.

Articles and Papers:

- Baehr, Arthur L., Baker, Ronald J. and Lahvis, Matthew A., 1997, Transport of

- methyl tert-butyl ether across the water table to the unsaturated zone at a gasoline-spill site in Beaufort, S.C. in Proceedings of the American Chemical Society, 213th ACS National meeting, 1997: San Francisco, CA, American, American Chemical Society, vol. 37, no. 1.
- Baehr, Arthur L., Stackelberg, Paul E., Baker, Ronald J., Hauffman, Leon J., Hopple, Jessica A., and Ayers, Mark A., 1997, Design of a sampling network to determine the occurrence and movement of methyl tert-butyl ether and other organic compounds through the urban hydrologic cycle in Proceedings of the American Chemical Society, 213th ACS National meeting, 1997: San Francisco, CA, American, American Chemical Society, vol. 37, no. 1, p. 400-401.
- Bender, David A., Zogorski, John S., Luo, Wentai, Pankow, James F., Majewski, Michael, and Baker, Ronald, 2000, Atmosphere-water interaction of chloroform, toluene, and MTBE in small perennial urban streams in Proceedings of the Air and Waste Management 93rd Annual Conference and Exposition, June 18-22, 2000, Salt Lake City, Utah.
- Buxton, Herbert T., Landmeyer, James E., Baehr, Arthur L., Church, Clinton D., and Tratnyek, Paul G., 1998, Interdisciplinary investigation of subsurface contaminant transport and fate at point-source releases of gasoline containing MTBE: Petroleum Hydrocarbon Conference, November 11-14, 1997, Houston, Texas, p. (in press)
- Church, Clinton D., Isabelle, Lorne M., Pankow, James F., Rose, Donna L., and Tratnyek, Paul G., 1997, Method for determination of methyl tert-butyl ether and its degradation products in water: Environmental Science & Technology, vol. 31, no. 12, p. 3723-3726.
- Johnson, Richard, Pankow, James, Bender, David, Price, Curtis, and Zogorski, John, 2000, MTBE--To what extent will past releases contaminate community water supply wells? Environmental Science & Technology, May 2000, p. 210-216.
- Kolpin, Dana W., Squillace, P.J., Barbash, J.E., Zogorski, J.S., 1997, Pesticides and volatile organic compounds in shallow urban ground water of the United States, in Chilton, J., ed., Ground water in the urban environment: A.A. Balkema, Netherlands, p. 469-474. (also listed under NS-Pesticides)
- Landmeyer, James E., Chapelle, Francis H., Bradley, Paul M., Pankow, James F., Church, Clinton D., and Tratnyek, Paul G., 1998, Fate of MTBE to benzene in a gasoline-contaminated aquifer (1993-98): Ground Water Monitoring & Remediation, (in press).
- Lapham, Wayne W., Moran, Michael J., and Zogorski, John S., 2000, Enhancements of nonpoint source monitoring of volatile organic compounds in ground water: Journal of the American Water Resources Association, vol. 36, no. 6, December 2000, p. 1321-1334.
- Lapham, Wayne W., Neitzert, Kathleen M., Moran, Michael J. and Zogorski, John S., 1997, USGS compiles data set for national assessment of VOCs in ground water: Ground Water Monitoring and Remediation, Fall 1997, p. 147-157.
- Lopes, Thomas J. and Bender, David A., 1998, Nonpoint sources of volatile organic compounds in urban areas--Relative importance of land surfaces and air: Environmental Pollution, vol. 101 (1998), p. 221-230.
- Lopes, Thomas J., Fallon, James D., and Maluk, Terry L., 2000, Compositing water samples for analysis of volatile organic compounds: Journal of Environmental Engineering, August 2000, p. 769-773.
- Lopes, Thomas J., Fallon, James D., Rutherford, David W., and Hiatt, Michael H.,

- 2000, Volatile organic compounds in storm water from a parking lot: *Journal of Environmental Engineering*, December 2000, p. 1137-1143.
- Lopes, Thomas J., and Furlong, Edward T., 2001, Occurrence and potential adverse effects of semivolatile organic compounds in stream bed sediments, United States, 1992-95: *Environment Toxicology and Chemistry*, vol. 20, no. 4, p. 727-737.
- Lopes, Thomas J. Furlong, Edward T., and Pritt, Jeffrey W., 1997, Occurrence and distribution of semivolatile organic compounds in stream bed sediments, United States, 1992-95, in Little, E.E., DeLonay, A.J., and Greenberg, B.M., eds., *Environment Toxicology and Risk Assessment: Seventh Volume*, ASTM STP 1333, 1998, (in press).
- Moran, Michael J., Clawges, Rick M., and Zogorski, John S., 2000, Identifying the usage patterns of methyl tert-butyl ether (MTBE) and other oxygenates in gasoline using gasoline surveys in *Proceedings of the American Chemical society*, 219th ACS National meeting, 2000: San Francisco, CA, American, American Chemical Society, vol. 40, no. 1, p. 209-218.
- Moran, Michael J., Halde, Mike J., Clawges, Rick M., and Zogorski, John S., 2000, Relations between the detection of methyl tert-butyl ether (MTBE) in surface and ground water and its content in gasoline in *Proceedings of the American Chemical society*, 219th ACS National meeting, 2000: San Francisco, CA, American, American Chemical Society, vol. 40, no. 1, p. 195-198.
- Moran, Michael J., Zogorski, John S., and Squillace, Paul J., 2000, MTBE in groundwater of the United States--Occurrence, potential sources, and long-range transport: *Soil, Sediment & Groundwater MTBE special issue*, p. 57-62.
- Moran, Michael J., Zogorski, John S., and Squillace, Paul J., 1999, MTBE in ground water of the United States--Occurrence, potential sources, and long-range transport in *Proceedings of the 1999 Water Resources Conference*, American Water Works Association (in press).
- Pankow, James F., Luo, Wentai, Isabelle, Lorne M., Bender, David A., and Baker, Ronald J., 1998, Determination of wide range of volatile organic compounds (VOCs) in ambient air using multisorbent adsorption/thermal desorption (ATD) and gas chromatography/mass spectrometry (GC/MS): *Analytical Chemistry* (in press).
- Pankow, J.F., Rathbun, R.E., and Zogorski, J.S., 1996, Calculated volatilization rates of fuel oxygenate compounds and other gasoline-related compounds from rivers and streams: *Chemosphere*, vol. 33, no. 5, p. 921-937.
- Pankow, James F., Thomson, Neil R., Johnson, Richard L., Baehr, Arthur L, and Zogorski, John S., 1997, The urban atmosphere as a non-point source for the transport of MTBE and other volatile organic compounds (VOCs) to shallow groundwater: *Environmental Science and Technology*, vol. 31, no. 10, 1997, p. 2821-2828.
- Squillace, Paul J., Moran, Michael J., Lapham, Wayne W., Price, Curtis V., Clawges, Rick M., and Zogorski, John S., 1999, Volatile organic compounds in untreated ambient groundwater of the United States, 1985-95: *Environmental Science and Technology*, vol. 33, p. 4176-4187.
- Squillace, Paul J., Pankow, James F., Korte, Nic E., and Zogorski, John S., 1997, Review of the environmental behavior and fate of methyl tert-butyl ether: *Environmental Toxicology and Chemistry*, vol. 16, no. 9, September 1997, p. 1836-1844.
- Squillace, Paul J., Zogorski, John S., Wilber, William G., and Price, Curtis V.,

- 1996, A preliminary assessment of the occurrence and possible sources of MTBE in ground water of the United States, 1993-94: Environmental Science and Technology, vol. 30, p. 1721-30, (also published as USGS Open-File Report 95-456).
- Zogorski, John S., 1997, Occurrence of MTBE in shallow ground water: U.S. Geological Survey Yearbook 1995 Understanding the Earth, p. 30-31.
- Zogorski, John S., Delzer, Gregory C., Bender, David A., Squillace, Paul J., Lopes, Thomas J., Baehr, Arthur L., Stackelberg, Paul E., Landmeyer, James E., Boughton, Carol J., Lico, Michael S., Pankow, James F., Johnson, Richard L., and Thomson, Neil R., 1998, MTBE: Summary of findings and research by the U.S. Geological Survey: Proceedings of the 1998 Annual Conference of the American Water Works Association (in press).
- Zogorski, John S., Morduchowitz, Abraham, Baehr, Arthur L., Bauman, Bruce J., Conrad, Dwayne L., Drew, Robert T., Korte, Nic E., Lapham, Wayne W., Pankow, James F., and Washington, Evelyn R., 1997, Fuel oxygenates and water quality, in 1997, Interagency assessment of oxygenated fuels: National Science and Technology Council Committee on Environmental and Natural Resources, p. 2-5 - 2-71. (Also listed under NAWQA related reports)

NATIONAL SYNTHESIS--National Summary Reports

Circulars:

Fuhrer, Gregory J., Gilliom, Robert J., Hamilton, Pixie A., Morace, Jennifer L., Nowell, Lisa H., Rinella, Joseph F., Stoner, Jeffrey D., and Wentz, Dennis A., 1999, The quality of our Nation's waters--Nutrients and pesticides: U.S. Geological Survey Circular 1225, 82 p.

Fact Sheets:

U.S. Geological Survey, 1999, The quality of our Nation's waters-- Nutrients and pesticides: U.S. Geological Survey Fact Sheet 116-99, 4 p.

OUTREACH

Fact Sheets:

- Cordy, Gail E., 2001, A primer on water quality: U.S. Geological Survey Fact Sheet FS-027-01, 2.
- Graffy, Elisabeth A., Helsel, Dennis R., and Mueller, David K., 1996, Nutrients in the Nation's waters: Identifying problems and progress: U.S. Geological Survey Fact Sheet 218-96, 6 p. (also listed under Nutrient National Synthesis)
- U.S. Geological Survey, 2001, Selected findings and current perspectives on urban and agricultural water quality by the National Water-Quality Assessment Program: U.S. Geological Survey Fact Sheet FS-047-01, 2 p.

Articles and Papers:

- Graffy, Elisabeth A., 1998, Low-level detection of pesticides...so what? Journal of Soil and Water Conservation, vol. 53, no. 1, First Quarter 1998, p. 11-12. (also listed under Pesticide National Synthesis)
- Hamilton, Pixie, 2000, Fertile research: The U.S. Geological Survey's National Water-Quality Assessment Program provides food for thought on the variability of water quality across the nation: Water Environment and Technology, vol. 12, no. 2, p. 26-32.
- Hamilton, Pixie, 2000, Water quality: Why geology matters: Geotimes, June 2000, p. 20-23.
- Hirsch, Robert M., Miller, Timothy L., and Hamilton, Pixie A., 2001, Using today's science to plan for tomorrow's water policies: Environment, vol. 43, no. 1, January/February 2001.
- Welch, Alan, Ryker, Sarah, Helsel, Dennis, and Hamilton, Pixie, 2001, Arsenic in ground water of the United States: An overview: Water Well Journal, February 2001, p. 30-33. (also listed under Trace Element National Synthesis)

PROTOCOLS**Open-File Reports:**

- Crawford, J. Kent, and Luoma, Samuel N., 1992, Guidelines for studies of contaminants in biological tissues for the National Water-Quality Assessment Program: U.S. Geological Survey Open-File Report 92-494, 69 p.
- Cuffney, T.F., Gurtz, M.E., and Meador, M.R., 1993, Methods for collecting benthic invertebrate samples as part of the National Water-Quality Assessment Program: U.S. Geological Survey Open-File Report 93-406, 66 p.
- Cuffney, T.F., Gurtz, M.E., and Meador, M.R., 1993, Guidelines for the processing and quality assurance of benthic invertebrate samples collected as part of the National Water-Quality Assessment Program: U.S. Geological Survey Open-File Report 93-407, 80 p.
- Edsall, Thomas A., Behrendt, Thomas E., Cholwek, Gary, Frey, Jeffrey W., Kennedy, Gregory W., and Smith, Stephen B., 1997, Use of remote-sensing techniques to survey the physical habitat of large rivers: U.S. Geological Survey Contribution number 983 of the Great Lakes Science Center, 20 p.
- Gurtz, Martin E., and Muir, Thomas A., 1994, Report on the interagency biological methods workshop: U.S. Geological Survey Open-File Report 94-490, 85 p.
- Hardy, M.A., Leahy, P.P., and Alley, W.M., 1989, Well installation and documentation, and ground-water sampling protocols for the pilot National Water-Quality Assessment Program: U.S. Geological Survey Open-File Report 89-396, 36 p.
- Koterba, Michael T., Wilde, Francesca D., and Lapham, Wayne W., 1995, Ground-water data-collection protocols and procedures for the National Water-Quality Assessment Program: Collection and documentation of water-quality samples and related data: U.S. Geological Survey Open-File Report 95-399, 113 p.
- Lapham, Wayne W., Wilde, Francesca D., and Koterba, Michael T., 1995, Ground-water data-collection protocols and procedures for the National Water-Quality Assessment Program: Selection, installation, and documentation of wells, and collection of related data: U.S. Geological Survey Open-File Report 95-398, 69 p.
- Meador, Michael R., and Gurtz, Martin E., 1994, Biology as an integrated component of the U.S. Geological Survey's National Water-Quality Assessment Program: U.S. Geological Survey Open-File Report 94-83, 4 p.
- Meador, Michael R., Cuffney, Thomas F., and Gurtz, Martin E., 1993, Methods for sampling fish communities as part of the National Water-Quality Assessment Program: U.S. Geological Survey Open-File Report 93-104, 40 p.
- Meador, M.R., Hupp, C.R., Cuffney, T.F., and Gurtz, M.E., 1993, Methods for characterizing stream habitat as part of the National Water-Quality Assessment Program: U.S. Geological Survey Open-File Report 93-408, 48 p.
- Porter, S.G., Cuffney, T.F., Gurtz, M.E., and Meador, M.R., 1993, Methods for collecting algal samples as part of the National Water-Quality Assessment Program: U.S. Geological Survey Open-File Report 93-409, 39 p.
- Shelton, Larry R., 1994, Field guide for collecting and processing stream-water samples for the National Water-Quality Assessment Program: U.S. Geological Survey Open-File Report 94-455, 42 p.
- Shelton, Larry R., 1997, Field guide for collecting samples for analysis of

volatile organic compounds in stream water for the National Water-Quality Assessment Program: U.S. Geological Survey Open-File Report 97-401, 14 p.

Shelton, Larry R., and Capel, Paul D., 1994, Guideline for collecting and processing samples of stream bed sediment for analysis of trace elements and organic contaminants for the National Water-Quality Assessment Program: U.S. Geological Survey Open-File Report 94-458, 20 p.

Water-Resources Investigations Reports:

Fitzpatrick, Faith A., Waite, Ian R., D'Arconte, Patricia J., Meador, Michael R., Maupin, Molly A., and Gurtz, Martin E., 1998, Revised methods for characterizing stream habitat in the National Water-Quality Assessment Program: U.S. Geological Survey Water-Resources Investigations Report 98-4052, 67 p.

Francy, Donna S., Myers, Donna N., and Helsel, Dennis R., 2000, Microbiological monitoring for U.S. Geological Survey National Water-Quality Assessment Program: U.S. Geological Survey Water-Resources Investigations Report 00-4018, 34 p. (also listed Microbiology National Synthesis and Lake Erie-Lake Saint Clair Drainage)

Koterba, Michael T., 1998, Ground-water data-collection protocols and procedures for the National Water-Quality Assessment Program: Collection, documentation, and compilation of required site, well, subsurface, and landscape data for wells: U.S. Geological Survey Water-Resources Investigations Report 98-4107, 91 p.

Walsh, S.J., and Meador, M.R., 1998, Guidelines for quality assurance and quality control of fish taxonomic data collected as part of the National Water-Quality Assessment Program: U.S. Geological Survey Water-Resources Investigations Report 98-4239, 33 p.

Articles and Papers:

Gurtz, M.E., 1993, Design of biological components of the National Water-Quality Assessment (NAWQA) Program, chapter 15, *in* Loeb, S.L., and Spacie, A., eds., Biological monitoring of aquatic systems: Boca Raton, Fla., Lewis Publishers, p. 323-354.

OTHER REPORTS FROM THE NAWQA PROGRAM**Circulars:**

Elder, J.F., 1989, Applicability of ambient toxicity testing to national or regional water-quality assessment: U.S. Geological Survey Open-File Report 89-55 and Circular 1049, 102 p.

Hirsch, R.M., Alley, W.M., and Wilber, W.G., 1988, Concepts for a National Water-Quality Assessment Program: U.S. Geological Survey Circular 1021, 42 p.

Fact Sheets:

U.S. Geological Survey, 1999, Key features of the National Water-Quality Assessment Program: U.S. Geological Survey Fact Sheet FS-053-99, 2 p.

Gilliom, Robert J., Hamilton, Pixie A., and Miller, Timothy L., 2001, The National Water-Quality Assessment Program--Entering a new decade of investigations: U.S. Geological Survey Fact Sheet 071-01, 6 p.

Open-File Reports:

Capel, Paul D., Nacionales, Fernando C., and Larson, Steven J., 1995, Precision of a splitting device for water samples: U.S. Geological Survey Open-File Report 95-293, 6 p.

Hirsch, R.M., Alley, W.M., and Wilber, W.G., 1988, A summary of the U.S. Geological Survey National Water-Quality Assessment Program: U.S. Geological Survey Open-File Report 88-95, 7 p.

Leahy, P.P., 1990, Implementation plan for the National Water-Quality Assessment Program: U.S. Geological Survey Open-File Report 90-174, 10 p.

Leahy, P.P., and Thompson, T.H., 1994, U.S. Geological Survey National Water-Quality Assessment Program: U.S. Geological Survey Open-File Report 94-70, 4 p.

Leahy, P.P., and Wilber, W.G., 1991, National Water-Quality Assessment Program: U.S. Geological Survey Open-File Report 91-54, 2 p.

Mallard, Gail E., Armbruster, Jeffrey T., Broshears, Robert E., Evenson, Eric J., Luoma, Samuel N., Phillips, Patrick J., and Prince, Keith R., 1999, Recommendations for cycle II of National Water-Quality Assessment (NAWQA) Program: U.S. Geological Survey Open-File Report 99-470, 52 p.

Mattraw, H.C., Wilber, W.G., and Alley, W.M., 1989, Quality-assurance plan for the pilot National Water-Quality Assessment Program: U.S. Geological Survey Open-File Report 88-726, 21 p.

Sandstrom, M.W., Wydoski, D.S., Schroeder, M.P., Zamboni, J.L., and Foreman, W.T., 1992, Methods of analysis by the U.S. Geological Survey National Water Quality Laboratory--Determination of organonitrogen herbicides in water by solid-phase extraction and capillary-column gas chromatography/mass spectrometry with selected-ion monitoring: U.S. Geological Survey Open-File Report 91-519.

Sylvester, M.A., 1992, National Water Quality Assessment Program: U.S. Geological Survey Open-File Report 92-145.

Sorenson, Stephen K., ed., 1994, Proceedings abstracts American Water Resources Association's symposium on the National Water-Quality Assessment (NAWQA)

Program--November 7-9, 1994, Chicago, Illinois: U.S. Geological Survey Open-File Report 94-397, 21 p.

Wilber, W.G., and Alley, W.W., 1988, National Water-Quality Assessment pilot program: U.S. Geological Survey Open-File Report 88-312, 2 p.

Water-Supply Papers:

Katz, B.G., 1993, Biogeochemical and hydrological processes controlling the transport and fate of 1,2-dibromoethane (EDB) in soil and ground water, central Florida: U.S. Geological Survey Water-Supply Paper 2402, 35 p.

Water-Resources Investigations Reports:

Capel, Paul D., and Larson, Steven J., 1996, Evaluation of selected information on splitting devices for water samples: U.S. Geological Survey Water-Resources Investigations Report 95-4141, 103 p.

Scott, J.C., 1989, A computerized data-base system for land-use and land-cover data collected at ground-water sampling sites in the pilot National Water-Quality Assessment Program: U.S. Geological Survey Water-Resources Investigations Report 89-4172, 139 p.

Articles, and Papers:

Alley, W.M., and Cohen, Philip, 1991, A scientifically based nationwide assessment of groundwater quality in the United States: *Environmental Geology and Water Science*, vol. 17, no. 1, p. 17-22.

Alley, W.M., Wilber, W.G., and Leahy, P.P., 1990, Hydrologic basin approach to national water-quality assessment in the United States, *in* Hooghart, J.C., Posthumus, C.W.S., and Warmerdam, P.M.M., eds., *Hydrologic Research Basins and the Environments: Proceedings and Information No.44*, The Hague, p. 285-294.

Alley, W.M., and Wilber, W.G., 1988, National Water-Quality Assessment Program: 1988 U.S. Geological Survey Year Book, p. 37-39.

Choquette, A.F., and Katz, B.G., 1989, Grid-based ground water sampling: Lessons from an extensive regional network for 1,2-dibromoethane (EDB) in Florida, *in* Ragone, S.E., ed., *Regional Characterization of Water Quality: Proceedings of the Baltimore Symposium, May 1989*, National Association of Hydrological Sciences Publication No. 182, p.79-86.

Cohen, Philip, Alley, W.M., and Wilber, W.G., 1988, Monitoring ground-water-quality--A multi-billion dollar national crossroad: *Proceedings of the International Conference on Advances in Ground-Water Hydrology*, p. 527-532.

Cohen, Philip, Alley, W.M., and Wilber, W.G., 1988, National water-quality assessment: Future directions of the U.S. Geological Survey: *American Water Resources Association Bulletin* December 1988, vol. 24, no. 26, 5 p.

Foreman, W.T., Zaugg, S.D., Faires, L.M., Wener, M.G., Lilker, T.J., and Rogerson, P.F., 1992, Analytical interferences of mercuric chloride preservative in environmental water samples: Determination of organic compounds isolated by continuous liquid--Liquid extraction or closed-loop stripping: *Environmental Science Technology*, vol. 26, no. 7, p. 1307-1312.

Foster, G.D., and Rogerson, P.F., 1990, Enhanced preconcentration of pesticides from water using the goulden large-sample extractor: *International Journal*

of Environmental Analytical Chemistry, vol. 41, p. 105-117.

- Helsel, Dennis R., 1995, Design of a relational water-quality assessment program: 1995 Proceedings of the Biometrics Section of the American Statistical Association, p. 60-67.
- Katz, B.G., 1989, Persistence of a soil fumigant (1,2-dibromoethane) in ground water, Florida, USA: Hydrological Science and Technology, v. 5, no. 1-4, p. 65-74.
- Leahy, P.P., 1992, Consistent data on water quality--It's long overdue: Geotimes, December 1992, p 5.
- Leahy, P.P., Ryan, B.J., and Johnson, A. Ivan, 1993, An introduction to the U.S. Geological Survey's National Water-Quality Assessment Program: Water Resources Bulletin July/August 1993, vol. 29, no. 4, p. 529-532. (Reprinted 1993, U.S. Geological Survey's National Water-Quality Assessment Program (NAWQA), American Water Resources Association Monograph Series No. 19.)
- Leahy, P.P., and Wilber, W.G., 1991, The National Water-Quality Assessment (NAWQA) Program--A basis for water-resource policy development: Irrigation and drainage Proceedings 1991, Honolulu, HI, p. 711-717.
- Leahy, P.P., and Schmidt, N.E., Jr., 1992, Volunteer for Science Program: Proceedings of Third National Citizens' Volunteer Water Monitoring Conference, 12 p.
- Rubin, J., Bennett, J.P., Hirsch, R.M., Luoma, S.N., 1985, Principles of national, perennial acquisition and analysis of data on water quality: Final report of ad hoc committee on principles of water-quality data acquisition and utilization, 49 p.

Pamphlets:

- U.S. Geological Survey, 2001, National Water-Quality (NAWQA) Assessment Program Study Units, 2001-2012: NAWQA Map accompaniment to U.S. Geological Fact Sheet 071-01, 1 p.
- U.S. Geological Survey, 2001, National Water-Quality (NAWQA) Assessment Program Study Areas, 1991-2001: Pamphlet advertisement for 1994 Study-Unit Summary Reports, 4 p.

NAWQA-RELATED PUBLICATIONS

Reports published by U.S. Geological Survey using NAWQA data for objectives beyond the scope of the NAWQA Program.

Fact Sheets:

- Ryker, Sarah J., and Williamson, Alex K., 1996, Pesticides in public supply wells of Washington State: U.S. Geological Survey Fact Sheet 122-96, prepared in cooperation with the Washington State Department of Health, 2 p. (also listed under Central Columbia Plateau)
- Erwin, Martha L., and Munn, Mark D., 1997, Are walleye from Lake Roosevelt contaminated with mercury? U.S. Geological Survey Fact Sheet 102-97, 4 p.
- Volwimkel, E.F., Clawges, R.M., Buxton, D.E., Stedfast, D.A., and Louis, J.B., 1996, Vulnerability of public drinking water supplies in New Jersey to pesticides: U.S. Geological Survey Fact Sheet FS-165-96, 4 p.

Water-Resources Investigations Reports:

- Robertson, Dale M., 1996, Use of frequency-volume analyses to estimate regionalized yields and loads of sediment, phosphorus, and polychlorinated biphenyls to Lakes Michigan and Superior: U.S. Geological Survey Water-Resources Investigations Report 96-4092, 47 p.

Articles, and Papers:

- Clark, G.M., and Goolsby, D.A., 1999, Occurrence and transport of acetochlor in streams of the Mississippi River Basin: *Journal of Environmental Quality*, vol. 28, no. 6, p. 1787-1795.
- Goolsby, D.A., 2000, Mississippi Basin nitrogen flux believed to cause Gulf hypoxia: *EOS, Transactions, American Geophysical Union*, vol. 81, no. 29, p. 321 & 326-327.
- Gregory, M.B., and Frick, E.A., 2001, Summary of fecal-coliform bacteria concentrations in streams of the Chattahoochee River National Recreation Area, Metropolitan Atlanta, Georgia, May-October 1994 and 1995: in Hatcher, K.J., ed., *Proceedings of the 2001 Georgia Water Resources Conference, Athens, Ga., Carl Vinson Institute of Government, The University of Georgia*, p. 718-721. (also listed under Apalachicola-Chattahoochee-Flint River Basin)
- Gregory, M.B., and Frick, E.A., 2001, Indicator-bacteria concentrations in streams of the Chattahoochee River National Recreation Area, March 1999-April 2000: in Hatcher, K.J., ed., *Proceedings of the 2001 Georgia Water Resources Conference, Athens, Ga., Carl Vinson Institute of Government, The University of Georgia*, p. 510-513. (also listed under Apalachicola-Chattahoochee-Flint River Basin)
- Williamson, Sandy (Alex K.), 2001, Get comfortable with uncertainty in resource management decisions: *Washington State University, E-Water Newsletter*, Winter 2001, no. 2, <http://www.wsu.edu/swwrc/newsletter>.

Other Reports:

- Zogorski, John S., Morduchowitz, Abraham, Baehr, Arthur L., Bauman, Bruce J., Conrad, Dwayne L., Drew, Robert T., Korte, Nic E., Lapham, Wayne W., Pankow, James F., and Washington, Evelyn R., 1997, Fuel oxygenates and water quality, in 1997, *Interagency assessment of oxygenated fuels*:

National Science and Technology Council Committee on Environmental and Natural Resources, p. 2-5 - 2-71.

NAWQA-RELATED OUTSIDE PUBLICATIONS

Reports and articles on the NAWQA Program written and published by sources outside U.S. Geological Survey.

Daukantas, Patricia, 2001, Easy mapping, WEB viewer makes data warehouse simpler for everyone: Government Computer News, vol. 20, number 32, p. 27-28.

Environmental and Energy Study Institute (EESI), 1995, Identifying threats to water-quality, 6 p.

Environmental and Energy Study Institute (EESI), 2001, Sprawl leaves its footprint in water, 2 p.

National Research Council, 1990, A Review of the U.S.G.S. National Water-Quality Assessment Pilot Program: Washington, D.C., National Academy Press, 153 p.

National Research Council, 1994, National Water-Quality Assessment Program: The challenge of national synthesis: Washington, D.C., National Academy Press, 1994, 51 p.

North Carolina Cooperative Extension Service, North Carolina State University College of Agriculture & Life Sciences, 1996, Technical Notes--Nutrients in ground water and surface water of the United States: NWQEP Notes--The NCSU Water Quality Group Newsletter, no. 76, March 1996, p. 1-6.

Water Resources Research Center, The University of Arizona, 1996, NAWQA and AZ water quality, Arizona Water Resource, vol. 5, no. 1, March-April 1996, p. 9.

Wiseth, Kelli, 2001, <finding> meaning: Oracle, September/October 2001, p. 78-79.