# National Water-Quality Assessment (NAWQA) Program Bibliography

# National Water-Quality Assessment Program Bibliography

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# NEW PUBLICATIONS FROM THE NAWQA PROGRAM

(Reports published from July 1997 -November 10, 1997)

# NAWQA STUDY UNITS

#### NORTHEASTERN REGION

#### Connecticut, Housatonic, and Thames River Basins

- 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., 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, 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.
- 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.
- 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.
- 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.

# Great and Little Miami River Basins

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.

# Hudson River Basin

- 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.

#### Kanawha-New River Basin

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.

# Long Island & New Jersey Coastal Drainages

- 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.
- 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.

# Lower Susquehanna River Basin

Risser, Dennis W., and Siwiec, 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.

# New England Coastal Basins

Ayotte, Joseph D. and Robinson, Keith W., 1997, National Water-Quality
Assessment Program New England Coastal Basins: U.S. Geological Survey Fact
Sheet FS-97-027, 2 p.

#### Potomac River Basin

- 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.
- 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.
- 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.

#### Upper Illinois River Basin

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.

# Western Lake Michigan Drainage Basin

- 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.
- 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.
- NAWQA News, National Water-Quality Assessment Program --Western Lake Michigan Drainage Basin, April 1997, no. 4, 4p.

#### White River Basin

- 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.
- 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.

#### SOUTHEASTERN REGION

# Albemarle-Pamlico Drainage Basin

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.

# Apalachicola-Chattahoochee-Flint River Basin

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., 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, 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.
- 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.
- 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., 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, 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.
- 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., 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.
- 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.

# Georgia-Florida Costal Plain

- 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., 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.

#### Southern Florida

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

#### Upper Tennessee River Basin

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.

#### CENTRAL REGION

#### Central Nebraska

- Stamer, John K., 1996, Water supply implications of herbicide sampling: American Water Works Association Journal, February 1996, p. 76-85.
- 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.

# Eastern Iowa Basins

- 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.
- Kalkhoff, S.J., Van Metre, P.C., Callender, E., 1997, Organochlorine pesticides in a sediment core from Coralville Reservoir, Iowa, [abs.]: Abstracts with Programs, The Geological Society of America 31st Annual North-Central Section, vol. 29, no. 4, April 1997, p. 24.

- Kolpin, Dana W., Kalkhoff, Stephen J., Goolsby, Donald A., Sneck-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. (also listed under National Synthesis--Pesticides)
- Kolpin, Dana W., Sneck-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. (also listed under National Synthesis--Pesticides)
- Roberts, L.R., 1997, Occurrence of selected organochlorine compounds in fish tissue from eastern Iowa streams, [abs]: 109th Session Iowa Academy of Sciences Meeting, April 25-26,1997, Clarke College, Dubuque, p. 25.
- 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.
- Sadorf, E.M., 1997, Pesticides in ground water of the Iowa River corridor; an area of changing land use, [abs.]: 109th Session Iowa Academy of Sciences Meeting, April 25-26,1997, Clarke College, Dubuque, p. 34.
- 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.
- Tobias, J.L., 1997, Nutrient concentrations and distribution within the Iowa River alluvial aquifer, Iowa County, Iowa, 1996, [abs.]: 109th Session Iowa Academy of Sciences Meeting, April 25-26,1997, Clarke College, Dubuque, p. 34.

#### Lower Kansas River Basin

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.

#### Ozark Plateaus

- 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.
- 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.
- 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.
- Femmer, Suzanne R., 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.

#### Red River of the North Basin

- 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.
- 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.
- 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.

# Rio Grande Valley

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

# South Platte River Basin

- 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.
- 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.
- 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.
- 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.

- 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.
- 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., and Bruce, B.W., 1997, Distribution of terminal electronaccepting processes in an aquifer having multiple contaminant sources: Applied Geochemistry, vol. 12, p. 507-516.
- 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 wastewatertreatment-plant effluents, South Platte River Basin: Water Resources Bulletin, vol.33, no.1, p. 205-214.
- 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, 2p.

#### Trinity River Basin

- 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)
- 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., 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., 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 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, 6p.
- 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.
- 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.
- 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.

- 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., 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)
- 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-Ouality Trends)
- Van Metre, P.C., and Callender, E., 1997, Identifying water-quality trends from 1912-94 using dated sediment cores from White Rock Lake Reservoir, Dallas, Texas: Journal of Paleolimnology, vol. 17, p. 239-249. (also listed under National Synthesis--Water-Quality Trends)

#### Upper Colorado River Basin

- 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.
- Spahr. N.E., and Wynn, K.H., 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.
- 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.

# Upper Mississippi River Basin

- 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.
- 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.

#### WESTERN REGION

#### Central Arizona Basins

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.

# Nevada Basin and Range

- 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.
- 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.
- 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.
- 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.

#### Puget Sound Basin

- 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 Judge Sound Basin: U.S. Geological Survey Fact Sheet 061-97, 4 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.

#### San Joaquin River Basin

- 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.
- 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.
- 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 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.

- Kratzer, Charles R., and Biagtan, Rhodora N., 1997, Determination of traveltimes 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., 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.
- 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.

# Upper Snake River Basin

- 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., 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.
- 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., 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.
- 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.
- 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.
- 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.

#### PROTOCOLS

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.

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.

# NATIONAL SYNTHESIS REPORTS

- Brachtl, 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.
- 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)
- 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.
- Goodbred, Steven L., Gilliom, Robert J., Gross, Timothy S., Denslow, Nancy P., Bryant, Wade B., and Schoeb, Trenton R., 1996, Reconnaissance of 17βestradiol, 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.
- 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 FS-218-96, 6 p.
- 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.
- Kolpin, Dana W., Kalkhoff, Stephen J., Goolsby, Donald A., Sneck-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. (also listed under Eastern Iowa Basins)
- Kolpin, Dana W., Sneck-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. (also listed under Eastern Iowa Basins)
- 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.
- 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., 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.

- 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., 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)
- 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, Identifying water-quality trends from 1912-94 using dated 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, 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.
- 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.

# NAWQA-RELATED PUBLICATIONS

- 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).
- 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: Journal of Society of Environmental Toxicology and Chemistry, vol. 16, no. 9, September 1997, (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.

# NORTHEASTERN REGION STUDY UNITS

# Allegheny and Monongahela Basins

# 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.

# Connecticut, Housatonic, and Thames River Basin

# 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.
- 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.
- Zimmerman, Stephen 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.

# Abstracts:

Grady, Stephen J., 1994, Relation of pesticides in ground water to land use in Connecticut, Massachusetts, and Vermont, [abs.], in Sorenson, Stephen K., ed., 1994, Proceedings abstracts American Water Resources Association's symposium on the National Water-Quality Assessment Program--November 7-9, 1994, Chicago, Illinois: U.S. Geological Survey Open-File Report 94-397, p. 11.

Trench, Elaine C. Todd, and Zimmerman, Marc J., 1994, Concentrations, trends, and loads of nitrogen and phosphorus in the Connecticut, Housatonic, and Thames River Basins, 1972-92, [abs.], in Sorenson, Stephen K., ed., 1994, Proceedings abstracts American Water Resources Association's symposium on the National Water-Quality Assessment Program--November 7-9, 1994, Chicago, Illinois: U.S. Geological Survey Open-File Report 94-397, p. 4.

#### 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.

# Articles and Papers:

- 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.
- 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 (CC13F and CC12F2) 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.
- Phillips, P.J., and Shedlock, R.J., 1991, Hydrology and chemistry of ground water and seasonal ponds in the Atlantic Coastal Plain in Delaware, USA:
  Article submitted to Journal of Hydrology--Special issue on the Hydrogeology of Wetlands, 10 p., (in press).
- Reilly, T.E., Plummer, L.N., Phillips, P.J., Busenburg, Eurybiades, 1994, The use os 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, Findings from a National Water-Quality Assessment pilot study have important implications for environmental policy-makers:

  Geotimes, December 1993, vol. 38, no. 12, p. 12-14.
- 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.

#### Abstracts:

- Bachman, L.J., Denver, J.M., and Hamilton, P.A., 1992, Triazine and acetanilide herbicides in low flows of streams of the Delmarva Peninsula, [abs.]: Beltsville Symposium XVIII, Agricultural Research Service, Surface Water Quality Oral Presentations, p. 59.
- Bachman, L.J., Denver, J.M., and Hamilton, P.A., 1991, Multivariate statistical analysis of geochemical processes in shallow ground water in the Delmarva Peninsula, Delaware, Maryland, and Virginia, [abs.]: EOS, Transactions, American Geophysical Union, Program with Abstracts, p. 134.
- Bachman, L.J., Shedlock, R.J., Koterba, M.T., Banks, W.S., Hayes, M.A., Hamilton, P.A., Denver, J.M., and Phillips, P.J., 1993, Major findings and dissemination of results of a regional water-quality assessment of the Delmarva Peninsula, Delaware, Maryland, and Virginia [abs.]: EOS, Transactions, American Geophysical Union, Program with Abstracts, p. 139.
- Banks, W.S., and Koterba, M.T., 1992, Analysis of cropping practices and pesticide use from a regional database and a field survey in the Delmarva Peninsula, [abs.]: Beltsville Symposium XVIII, Agricultural Research Service, Surface Water Quality Oral Presentations, p. 60.
- Bohlke, J.K., Denver, J.M., Phillips, P.J., Gwinn, C.J., Plummer, L.N., Busenberg, E., and Dunkle, S.A., 1992, Combined use of nitrogen isotopes and ground-water dating to document nitrate fluxes and transformation in small agricultural watersheds, Delmarva Peninsula, [abs.]: EOS Transactions, American Geophysical Union, vol. 73, no. 14, Spring Meeting Supplement, p. 140.
- Denver, J.M., 1991, Hydrogeology and water chemistry associated with riparian zones and wetland, Delmarva Peninsula, [abs.]: Saturated Forested Wetland in the Middle Atlantic Region--The State of the Science, Annapolis, MD, January 1991.
- Denver, J.M., Bohlke, J.K., Phillips, P.J., and Bachman, L.J., 1993, Major-ion chemical signatures as tracers of sources of water to streams on the Delmarva Peninsula [abs.]: EOS, Transactions, American Geophysical Union, Spring Meeting Supplement, p.141.
- Denver, J.M., and Hamilton, P.A., 1991, Variations in the quality of ground water inflow to streams of the Delmarva Peninsula, [abs.]: Proceedings of the 11th International Estuarine Research Conference, San Francisco, California, November 1991, p. 33.
- Denver, J.M. and Sandstrom, M.W., 1991, Distribution of dissolved atrazine and two metabolites in the unconfined aquifer, southeastern Delaware [abs.]: U.S. Geological Survey, Toxic Substances Hydrology Program, Proceedings of the Technical Meeting, Monterey, California, U.S. Geological Survey Water-Resources Investigations Report 91-4034, p 314-318.
- Denver, J.M., Shedlock, R.J., and Bohlke, J.K., 1993, Application of ground-water dating to water-quality assessment of the Delmarva Peninsula, Delaware, Maryland and Virginia, United States, [abs.]: Geological Society of America, Abstracts with Programs, vol. 25, 1993.
- Hamilton, P.A., 1988, Objectives and approaches used in the ground-water-quality assessment of the Delmarva Peninsula, Virginia's waters--Current developments: Virginia Water Resources Research Center, Virginia Polytechnic Institute and State University, Blacksburg, Virginia, p. 48.

- Hamilton, P.A., 1990, Relations between land use and nitrate concentrations in shallow ground water, Delmarva Peninsula, [abs.], in Collected abstracts of the Virginia Water Resources Conference: Virginia Water Resources Research Center, Blacksburg, Virginia, p. 30.
- Hamilton, P.A., and Denver, J.M., 1990, Effects of land use and ground-water flow on shallow ground-water quality, Delmarva Peninsula, Delaware, Maryland, and Virginia, [abs.]: Ground Water, vol. 28, no. 5, p. 789.
- Koterba, M.T., Bachman, L.J., Banks, W.S., and Conner, B.F., 1990, Quality assurance in regional ground-water-quality assessment of the Delmarva Peninsula, Delaware, Maryland, and Virginia [abs.] in Proceedings, Urban Non-Point Source Pollution and Stormwater Management Symposium: University of Kentucky, Lexington, Kentucky, p 221.
- Koterba, M.T., Banks, W.S., and Shedlock, R.J., 1992, Pesticides in shallow ground water in the Delmarva Peninsula, [abs.]: Beltsville Symposium XVIII, Surface Water Quality Oral Presentation, p. 22.
- Koterba, M.T., and Shedlock, R.J., 1989, Regional assessment of agricultural chemicals in groundwater in the Delmarva Peninsula of Delaware, Maryland, and Virginia --Pesticides in Terrestrial and Aquatic Environments, [abs.], in Weigmann, D.L., ed., Proceedings of a National Research Conference: Virginia Water Resources Research Center, Virginia Polytechnic Institute and State University, Blacksburg, 1989, p. 79.
- Koterba, M.T. and Shedlock, R.J., 1990, Regional and local ground-water-quality networks in the Delmarva Peninsula [abs.]: American Chemical Society, Division of Agrochemicals, National Meeting, Boston, Mass., Monday morning, Section A no. 9.
- Phillips, P.J., 1992, Characterization of forested wetlands and hydrogeomorphic regions on the Delmarva Peninsula, [abs.]: Saturated Forested Wetlands in the Middle Atlantic Region--State of the Science, Annapolis, MD, January 1992, delivered lecture.
- Phillips, P.J., Bachman, J.L., Blomquist, J.D., and Carpenter, D.H., 1991, Relations among basin characteristics and stream hydrochemistry on the Delmarva Peninsula, Maryland, and Delaware, [abs.]: Gordon Conference on Hydrogeochemistry of Forested Catchments.
- Phillips, P.J., and Blomquist, J.D., Relations among basin characteristics and stream-water quality on the Delmarva Peninsula, Maryland and Delaware, [abs.]: EOS, Transactions, American Geophysical Union, Program and Abstracts, Program and Abstracts, p. 161.
- Phillips, P.J., Kendall, Carol, and Bachman, J.L., 1993, Use of deuterium and oxygen-18 to trace ground-water/surface-water interaction in a seasonal pond setting [abs.]: EOS, Transactions, American Geophysical Union, Program and Abstracts, p. 140.
- Phillips, P.J., Plummer, L.N., Busenberg, E., and Dunkle, S.A., 1992, Use of chlorofluorocarbon dating to determine age of shallow ground water in a sandy surficial aquifer, [abs.]: EOS, Transactions, American Geophysical Union, Spring Meeting Supplement, Program and Abstracts, vol. 73, no. 14, p. 130.
- Phillips, P.J., and Shedlock, R.J., 1988, The hydrology of freshwater wetlands of the Delmarva Peninsula--Implications for regional ground-water-quality assessment, [abs.]: Society of Wetland Scientists, Ninth Annual Meeting, Washington, D.C., June, 1988.

- Phillips, P.J., and Shedlock, R.J., 1989, Recharge-discharge relations and hydrochemistry of a forested watershed in the Atlantic Coastal Plain of northern Delaware, [abs.]: Chapmen Conference on Hydrogeochemical Responses of Forested Catchments, Bar Harbor, Maine.
- Shedlock, R.J., Hamilton, P.A., Denver, J.M., and Phillips, P.J., 1992, Multiscale approach to ground-water-quality assessment of the Delmarva Peninsula of Maryland, Delaware, and Virginia, [abs.]: EOS, Transactions, American Geophysical Union, Spring Meeting Supplement, vol. 73, no. 14, p. 126.
- Shedlock, R.J., Koterba, M.T., Denver, J.M., and Banks, W.S., 1991, Occurrence and distribution of pesticides in the ground-water system of the Delmarva Peninsula, Delaware, Maryland, and Virginia, 1988-1990, [abs.]: American Water Resource Association Meeting, New Orleans, p. 345.
- Shedlock, R.J., Phillips, P.J., and Bachman, L.J., 1989, Strategy for ground water-quality assessment of the Delmarva Peninsula Delaware, Maryland, and Virginia, [abs.]: AWRA Meeting on Water--Laws and Management, p. 5A-7.
- Shedlock, R.J., Phillips, P.J., Bachman, L.J., and Hamilton, P.A., 1989, Strategy for ground-water quality assessment of the Delmarva Peninsula, Delaware, Maryland, and Virginia, [abs.]: U.S. Geological Survey Second National Symposium on Water Quality, Abstracts of the Technical Sessions, Orlando, Florida, p. 88.
- Shedlock, R.J. Phillips, P.J., Bachman, L.J., Hamilton, P.A., and Denver, J.M., 1991, Effects of wetlands on regional water-quality patterns in the Delmarva Peninsula of Delaware, Maryland, and Virginia, [abs.]: Society of Wetland Scientists, Ann Arbor, Michigan, p. 49.
- Shedlock, R.J., Phillips, P.J., Wilcox, D.A., and Thompson, T.A., 1989, Importance of both regional and local patterns of flow and chemistry in hydrogeologic investigations of freshwater wetlands, [abs.]: 28th International Geological Congress, vol. 3, p. 93.

# 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.

#### Hudson River Basin

#### 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.

#### 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., 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.

# Abstracts:

- Hanchar, D.W., and Grady, S.J., 1994, Effects of urban land use on shallow ground-water quality in stratified-drift aquifers-comparison of data from the Hudson River Basin, New York, and the Connecticut River Basin, Connecticut and Massachusetts, [abs.]: American Geophysical Union 1994 Spring Meeting, EOS 75(16), p. 150.
- Phillips, P.J., 1994, Transport rates of nutrients at surface-water sites in the Hudson River Basin, [abs.]: American Geophysical Union 1994 Spring Meeting, EOS 75(16), p. 177.
- Phillips, P.J., 1994, Chloride concentrations as indicators of point source sewage discharges in the Hudson River Basin, New York, [abs.]: American Geophysical Union 1994 Fall Meeting, December 5-9, 1994, San Francisco, California, p. 229.
- Ryan, Christopher M., Wall, Gary R., and Hanchar, Dorothea W., 1994, Use of lithologic and gamma logs to define the areal extent of a clay confining unit overlying a glacial-drift aquifer, Montgomery County, New York, [abs.]: Geological Society of America 1994, Abstracts with Programs, 26(3), p. A70.

#### Kanawha-New River Basin

# 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.
- 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.

# Water-Resources Investigations Report:

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.

# Articles and Papers:

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

# 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.

# Abstracts:

- Hagg, Kim H., and Porter, Stephen D., 1994, Effects of land use on the occurrence and distribution of selected trace elements in the Kentucky River Basin, Kentucky, [abs.], in Sorenson, Stephen K., ed., 1994, Proceedings abstracts American Water Resources Association's symposium on the National Water-Quality Assessment Program--November 7-9, 1994, Chicago, Illinois: U.S. Geological Survey Open-File Report 94-397, p. 14.
- Hagg, Kim H., and Porter, Stephen D., 1994, Effects of land use on the occurrence and distribution of selected trace elements in the Kentucky River Basin, Kentucky, [abs.], in Sorenson, Stephen K., ed., 1994, Proceedings abstracts American Water Resources Association's symposium on the National Water-Quality Assessment Program--November 7-9, 1994, Chicago, Illinois: U.S. Geological Survey Open-File Report 94-397, p. 14.

# Lake Erie-Lake Saint Clair Drainage

# 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.

# Articles and Papers:

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

# Long Island & New Jersey Coastal Drainages

#### 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.
- 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.
- 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.

# Lower Illinois River Basin

# 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.

# Lower Susquehanna River Basin

#### 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.

#### 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.
- 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.
- 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.
- Risser, Dennis W., and Siwiec, 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.

#### Abstracts:

- Breen, Kevin J., Hainly, Robert A., Lindsey, Bruce D., Siwiec, Steven F., and Bilger, Michael D., 1994, Design and implementation of the National Water-Quality Assessment program in the Lower Susquehanna River Basin, Pennsylvania and Maryland, [abs.]: Mid-Atlantic Highlands Area Environmental Monitoring and Assessment Conference, Hershey, Pennsylvania, February 23-25, 1994, Abstract Booklet, p. 64-65.
- Hainly, Robert A., Bilger, Michael D., and Siwiec, Steven F., 1994, Trace elements in bed sediment of streams in the Ridge and Valley Physiographic Province of Pennsylvania, Lower Susquehanna River Basin study unit of the U.S. Geological Survey's National Water-Quality Assessment (NAWQA) Program: A comparison of sampling methods and results for selected element concentrations from the NAWQA and National Uranium Resources Evaluation (NURE) Programs, {abs.]: Mid-Atlantic Highlands Area Environmental Monitoring and Assessment Conference, Hershey, Pennsylvania, February 23-25, 1994, Abstract Booklet, p. 46-47.

- Hainly, Robert A., and Siwiec, Steven F., 1994, Nitrogen sources and measured nitrogen loads in streams in the Lower Susquehanna River Basin, Pennsylvania, and Maryland, [abs.]: American Geophysical Union 1994 Fall Meeting, December 5-9, 1994, San Francisco, California, p. 247.
- Lindsey, Bruce D., and Siwiec, Steven F., 1994, Well selection for assessing ground-water in carbonate valleys in the ridge and valley physiographic province of Pennsylvania, Lower Susquehanna River Basin study unit, National Water-Quality Assessment Program, [abs.]: Mid-Atlantic Highlands Area Environmental Monitoring and Assessment Conference, Hershey, Pennsylvania, February 23-25, 1994, Abstract Booklet, p. 73.
- Siwiec, Steven F., and Southers, Kim L., 1994, Incorporating electronic maps into U.S. Geological Survey reports: U.S. Geological Survey Open-File Report 94-52, [abs.]: U.S. Geological Survey National Computer Technology Meeting: Program and Abstracts, New Orleans, Louisiana, April 10-15, 1994, p. 49.

# 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-97-027, 2 p.

#### Potomac River Basin

#### 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:

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.
- 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.
- 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.

#### Abstracts:

Ator, S.W., and Lindsey, B.D., 1996, Radon in ground water of the Lower Susquehanna and Potomac River Basins, [abs.]: EOS, Transactions of the American Geophysical Union, Supplement with Abstracts for the 1996 Spring Meeting, Baltimore, Maryland.

- Blomquist, Joel D., 1994, Occurrence of pesticides in nested watersheds in Virginia and West Virginia, [abs.], in Sorenson, Stephen K., ed., 1994, Proceedings abstracts American Water Resources Association's symposium on the National Water-Quality Assessment Program--November 7-9, 1994, Chicago, Illinois: U.S. Geological Survey Open-File Report 94-397, p. 10.
- Blomquist, J.D., and Fisher, G.T., 1994, Nitrogen sources and nitrate loads in major watersheds of the Upper Potomac River Basin, [abs.]: EOS, Transactions of the American Geophysical Union, Supplement with Abstracts for the 1994 Spring Meeting, Baltimore, Maryland, vol. 75, no. 16, p. 165.
- Brakebill, J.W., 1994, Applications of a geographic information system in water-quality assessment of the Potomac River Basin Study Unit, National Water-Quality Assessment Program, [abs.]: Abstract Booklet, Mid-Atlantic Highlands Area Environmental Monitoring and Assessment Conference, Hershey, Pennsylvania, February 23-25, 1994, p. 63.
- Ferrari, M.J., 1994, Assessment of ground=water quality in the Great Valley carbonate subunit, Potomac River Basin Study Unit, National Water-Quality Assessment Program, [abs.]: EOS, Transactions of the American Geophysical Union, Supplement with Abstracts for the 1994 Spring Meeting, Baltimore, Maryland, vol. 75, no. 16, p. 166.
- Ferrari, M.J., 1994, Assessment of ground=water quality in the Great Valley carbonate subunit, Potomac River Basin Study Unit, National Water-Quality Assessment Program, [abs.]: Abstract Booklet, Mid-Atlantic Highlands Area Environmental Monitoring and Assessment Conference, Hershey, Pennsylvania, February 23-25, 1994, p. 50.
- Fisher, G.T., 1994, Assessment of surface=water quality in the Great Valley carbonate subunit, Potomac River Basin Study Unit, National Water-Quality Assessment Program, [abs.]: Abstract Booklet, Mid-Atlantic Highlands Area Environmental Monitoring and Assessment Conference, Hershey, Pennsylvania, February 23-25, 1994, p. 44.
- Gerhart, J.M., 1994, Study design for assessing the occurrence and distribution of water-quality conditions in the Potomac River Basin Study Unit, National Water-Quality Assessment Program, [abs.]: Abstract Booklet, Mid-Atlantic Highlands Area Environmental Monitoring and Assessment Conference, Hershey, Pennsylvania, February 23-25, 1994, p. 39.
- Gerhart, J.M., and Brakebill, J.W., 1993, Design of a multi-scale water-quality assessment for the Potomac River Basin, [abs.]: EOS, Transactions of the American Geophysical Union, Supplement with Abstracts for the 1993 Spring Meeting, Baltimore, Maryland.
- Miller, C.V., Ator, S.W., Denis, J.M., Brakebill, J.W., and Blomquist, J.D., 1996, A multiscale study of water quality in the Potomac River Basin, Northeastern United States, [abs.]: EOS, Transactions of the American Geophysical Union, Supplement with Abstracts for the 1996 Spring Meeting, Baltimore, Maryland.
- Zappa, Humbert, and Sorenson, Stephen K., 1994, Benthic-macroinvertebrate communities and water quality in agricultural and urban subbasins in the Great Valley carbonate subunit of the Potomac River Basin, [abs.], in Sorenson, Stephen K., ed., 1994, Proceedings abstracts American Water Resources Association's symposium on the National Water-Quality Assessment Program--November 7-9, 1994, Chicago, Illinois: U.S. Geological Survey Open-File Report 94-397, p. 18.
- Zappia, Humbert, 1994, Ecological surveys at fixed water-quality monitoring stations, Potomac River Basin Study Unit, National Water-Quality Assessment Program, [abs.]: Abstract Booklet, Mid-Atlantic Highlands Area Environmental Monitoring and Assessment Conference, Hershey, Pennsylvania, February 23-25, 1994, p. 42.

# Upper Illinois River Basin

#### Open-File Reports:

- 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.

- 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.

- 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, 2 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.
- 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.

- Colman, John A., and Sanzolone, Richard F., 1994, Geochemical characterization of streambed sediment in the Upper Illinois River Basin, [abs.], in Sorenson, Stephen K., ed., 1994, Proceedings abstracts American Water Resources Association's symposium on the National Water-Quality Assessment Program--November 7-9, 1994, Chicago, Illinois: U.S. Geological Survey Open-File Report 94-397, p. 15.
- Ruhl, Peter M., 1994, Multivariate analysis of relations between fish community structure and environmental conditions in selected Illinois Basins, 1982-1984, [abs.], in Sorenson, Stephen K., ed., 1994, Proceedings abstracts American Water Resources Association's symposium on the National Water-Quality Assessment Program--November 7-9, 1994, Chicago, Illinois: U.S. Geological Survey Open-File Report 94-397, p. 21.

# Western Lake Michigan Drainage Basin

#### 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., 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., complier., 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.

- 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.
- Rheaume, 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.
- Rheaume, 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.

- 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., 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.
- 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.
- 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:

- 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, January 1995, vol. 1, no. 1, 6 p.
- NAWQA News, National Water-Quality Assessment Program --Western Lake Michigan Drainage Basin, April 1997, no. 4, 4p.
- 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, 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.

- Kammerer, P.A., and Rovertson, D.M., 1995, A comparison of sample-collection methods used by the U.S. Geological Survey and the Wisconsin Department of Natural Resources to monitor stream-water quality, [abs.]: American Water Resources Association - Wisconsin Section Annual Meeting, p. 10.
- Mason, G.W., McIntosh, T.H., and Robertson, D.M., 1995, Bottom sediment behavior and composition in the upper reaches of the East River Watershed, Brown County, Wisconsin, [abs.]: Geological Society of America North Central/ South Central Sections Meeting.
- Peters, C.A., 1995, National Water-Quality Assessment (NAWQA) Program: Scope of the Western Lake Michigan Drainage Basin Study-Unit investigation, [abs.]: American Water Resources Association - Wisconsin Section Annual Meeting, p. 25.
- Robertson, D.M., 1995, Regionalized estimates of total phosphorus and suspended sediment loads to Lakes Michigan and Superior, [abs.]: International Association of Great Lakes Research.
- Robertson, D.M., 1995, Influence of land use, surficial deposits, and bedrock on the concentration and load of nutrients and suspended sediment in tributaries to Lake Michigan, [abs.]: American Water Resources Association Wisconsin Section Annual Meeting, p. 54.
- Robertson, D.M., 1995, Inputs of phosphorus and suspended-sediment into Lake Michigan and the United States part of Lake Superior, [abs.]: American Water Resources Association Wisconsin Section Annual Meeting, p. 35.
- Robertson, D.M., 1994, Nutrient loss from forest and agricultural areas, [abs.]:
  American Water Resources Association Wisconsin Section Annual Meeting,
  p. 6.
- Robertson, Dale M., 1994, Influence of surficial soils, land use, and stream gradient on suspended-sediment and phosphorus loads in streams entering the Great Lakes, [abs.]: American Geophysical Union 1994 Fall Meeting, December 5-9, 1994, San Francisco, California, p. 229.
- Robertson, D. M., 1992, National water-quality assessment: An integrative approach to assess water quality in the Western Lake Michigan Drainage Basins, [abs.]: American Water Resources Association Wisconsin Section Annual Meeting, p. 34.
- Saad, D.A., 1995, Nutrients and pesticides in ground water of two agricultural land use areas in the Western Lake Michigan Drainages NAWQA Study Unit, [abs.]: American Water Resources Association - Wisconsin Section Annual Meeting, p. 32.
- Saad, D.A., 1994, A comparison of nitrate concentrations in ground water and surface water of the Western Lake Michigan Drainages Study Unit, [abs.]: American Water Resources Association - Wisconsin Section Annual Meeting, p. 16.
- Scudder, Barbara C., Fitzpatrick, Faith A., Rheaume, Stephen J., and Sullivan, Daniel J., 1995, Trace elements in caddisflies and streambed sediments from streams in the Western Lake Michigan Drainage, [abs.]: Bulletin of the North American Benthological Society, Spring 1995, Keystone Resort, Colorado, p. 159.
- Scudder, B.C., Fitzpatrick, F.A., Rheaume, S.J., and Sullivan, D.J., 1993,
  Biological assessments in the National Water-Quality Assessment Program Western Lake Michigan Drainages Study Unit, [abs.]: Society of
  Environmental Toxicology and Contamination Annual Meeting, p. 239.

- Scudder, B.C., Fitzpatrick, F.A., Rheaume, S.J., and Sullivan, D.J., 1993, Biology as a component of the National Water-Quality Assessment Program of the U.S. Geological Survey, [abs.]: Midwest Environmental Indicators and Biocriteria Conference, p. 24.
- Sullivan, D.J., 1995, Pesticides in the surface waters of the Western Lake Michigan Drainages NAWQA Study Unit, [abs.]: American Water Resources Association Wisconsin Section Annual Meeting, p. 33.

#### White River Basins

#### 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 91169, 2 p.

- 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.

#### 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.
- 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.

- Crawford, Charles G., and Martin, Jeffrey D., 1994, Influence of land use, weather, and watershed characteristics on pesticide concentrations in the White River Basin, Indiana, [abs.], in Sorenson, Stephen K., ed., 1994, Proceedings abstracts American Water Resources Association's symposium on the National Water-Quality Assessment Program--November 7-9, 1994, Chicago, Illinois: U.S. Geological Survey Open-File Report 94-397, p. 9.
- Martin, Jeffrey D., Frey, Jeffrey W., and Crawford, Charles G., 1994, Factors affecting nutrient concentrations in the White River Basin, Indiana, [abs.], in Sorenson, Stephen K., ed., 1994, Proceedings abstracts American Water Resources Association's symposium on the National Water-Quality Assessment Program--November 7-9, 1994, Chicago, Illinois: U.S. Geological Survey Open-File Report 94-397, p. 5.

# SOUTHEASTERN REGION STUDY UNITS

# Albemarle-Pamlico Drainage

#### 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 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 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.

#### 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.

- Harned, D.A., 1994, A spatial characterization of nutrient concentrations for the Albemarle-Pamlico drainage area, North Carolina and Virginia, [abs.]: American Geophysical Union 1994 Fall Meeting, December 5-9, 1994, San Francisco, California, p. 247-248.
- McMahon, G., and Woodside, M.D., 1994, Nitrogen mass balance for major drainage
  areas of the Albemarle-Pamlico Drainage Basin, North Carolina and
  Virginia, [abs.]: American Geophysical Union 1994 Fall Meeting, December
  5-9, 1994, San Francisco, California, p. 229.
- Woodside, Michael D., and McMahon, Gerard, 1994, Assessment of triazine herbicides in North Carolina and Virginia streams by an enzyme-linked immunosorbent assay, [abs.], in Sorenson, Stephen K., ed., 1994, Proceedings abstracts American Water Resources Association's symposium on the National Water-Quality Assessment Program--November 7-9, 1994, Chicago, Illinois: U.S. Geological Survey Open-File Report 94-397, p. 9.

# Apalachicola-Chattahoochee-Flint River Basin

#### 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:

- 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.
- 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., and Couch, C.A., 1995, Environmental distribution of organochlorine compounds in the Apalachicola-Chattahoochee-Flint River Basin, 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. 13-19.
- Couch, Carol A., 1993, National Water-Quality Assessment Program: environmental setting of the Apalachicoa-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, 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 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.
- 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., 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.

- Couch, Carol A., 1994, Stream macroinvertebrate communities in watersheds with different land use characteristics in the Apalachicola-Chattahoochee-Flint Basin, [abs.], in Sorenson, Stephen K., ed., 1994, Proceedings abstracts American Water Resources Association's symposium on the National Water-Quality Assessment Program--November 7-9, 1994, Chicago, Illinois: U.S. Geological Survey Open-File Report 94-397, p. 18.
- Couch, Carol A., and Tate, Cathy M., 1995, Comparison of landscape influences on biological communities in western and eastern watersheds of the U.S. examples from the National Water-Quality Assessment (NAWQA) Program, [abs.]: Bulletin of the North American Benthological Society, Spring 1995, Keystone Resort, Colorado, p. 89.

#### 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.

# Georgia-Florida Coastal Plain

# 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.
- 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.

- 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., 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.

# Mississippi Embayment

# Fact Sheets:

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

# Santee Basin & Coastal Drainages

# 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.

# 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.

# 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.

# Upper Tennessee River

# 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:

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.

#### Abstracts:

Ahlstedt, Steven, and McDonough, Thomas., 1995, Summary of preoperational monitoring of the mussel fauna in Upper Chickamauga Reservoir (Tennessee River) in the vicinity of Watts Bar Nuclear Plant, 1983-1993, [abs.]: Bulletin of the North American Benthological Society, Spring 1995, Keystone Resort, Colorado, p. 98.

#### 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.

# Hydrologic Investigations Atlas:

Christenson, S.C., Morton, R.B., and Mesander, B.A., 1992, Hydrogeologic maps of the Central Oklahoma aquifer, Oklahoma: U.S. Geological Survey Hydrologic Investigations Atlas HA-724, 3 p.

### Articles and Papers:

Breit, G.N., (in press), The diagenetic history of Permian rocks in the Central Oklahoma aquifer, in Christenson, Scott, 1994, Ground-water quality assessment of the Central Oklahoma aquifer, Oklahoma: Results of investigations: U.S. Geological Survey Open-File Report 94-XXXX.

- Breit, G.N., 1992, Mineralogy and petrography of Permian rocks in the Central Oklahoma aquifer: Implications for ground-water quality, [abs.], in Christenson, Scott, and Carpenter, Lyn, 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, p. 12-13.
- Breit, G.N., Cast, M.E., and Stanton, M.R., 1992 Chromium redistribution with continental red beds: A function of porewater chemistry: Proceedings of the 7th International Symposium on Water-Rock Interaction, Park City, Utah, July 13-19, 1992.
- Breit, George N., Mosier, Elwin L., and Schlottmann, Jamie L., 1994, Sources of dissolved arsenic, chromium, selenium, and uranium in permian rocks of the Central Oklahoma aquifer, [abs.], in Sorenson, Stephen K., ed., 1994, Proceedings abstracts American Water Resources Association's symposium on the National Water-Quality Assessment Program--November 7-9, 1994, Chicago, Illinois: U.S. Geological Survey Open-File Report 94-397, p. 13.
- Breit, G.N., Mosier, E.L., Schlottmann, J.L., and Papp, C.S.E., 1990, Rock/water interactions and ground-water contamination in Permian rocks, Central Oklahoma aquifer, [abs.], in Gough, L.P., ed., 1990, Environmental forum 1990: Geoscience investigations that emphasize chemical, physical, and biological ecosystem processes: U.S. Geological Survey Open-File Report 90-288, p. 14.

- Busenberg, E., Plummer, N., 1992, Use of chlorofluorocarbons (CCI3F and CCI2F2) as hydrologic tracers and age-dating tools: The alluvium and terrace system of central Oklahoma: Water Resources Research, vol. 28, no. 9, 2257-2283 p.
- Christenson, S.C., and Rea, A.H., 1993, Ground-water quality in the Oklahoma City urban area, in Alley, W.M., ed., 1993, Regional Ground-Water Quality: New York, Van Nostrand Reinhold.
- Christenson, S.C., and Rea, A.H., 1991, Factors related to pesticide occurrence in ground water in the Oklahoma City urban area, [abs.]: American Water Resources Association, 27th Annual Conference and Symposium, New Orleans, 1991, p. 343-344.
- Christenson, S.C., 1992, Geohydrology and ground-water flow simulation of the Central Oklahoma aquifer, [abs.], in 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 Open-File Report 92-116, p. 12-13.
- 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., Regional Ground-Water Quality: New York, Van Nostrand Reinhold, p. 613-622.
- Mosier, E.L., Breit, G.N., Schlottman, J.L., and Papp, C.S.E., 1992, Processes responsible for large concentrations of As, Cr, Se, U, and V in water produced from the Central Oklahoma aquifer, [abs.]: Oklahoma Geology Notes, vol. 52, no. 1., p. 39-40.
- Mosier, E.L., and Schlottmann, J.L., 1992, Geochemical studies of solid-phase materials in the Central Oklahoma aquifer--Relation to water quality, [abs.], in Christenson, Scott, and Carpenter, Lyn, 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, p. 10-11.
- Parkhurst, D.L., 1992, The geochemical evolution of ground waters in the Central Oklahoma aquifer, [abs.], in 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, p. 7-9.
- Rea, A.H., 1993, Availability of digital data from use with geographic information systems, [abs.], in Oklahoma's water and sustainable development conference: Proceedings, February 17-18.
- Rea, A.H., and Scott, J.C., 1990, A computer program to determine map coordinates from public land-survey coordinates, [abs.], in Balthrop, B.H., and Baker, E.G., 1990, U.S. Geological Survey national computer technology meeting program and abstracts, May 7-11, 1990: U.S. Geological Survey Open-File Report 90-161, p. 33.
- Rea, Alan, and Christenson, S.C., 1992, Factors related to ground-water quality in the Oklahoma City urban area, [abs.], in 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, p. 21-22.
- Schlottmann, J.L. and Breit, J.N., 1992, Mobilization of A and U in the Central Oklahoma aquifer: Proceedings of the 7th International Symposium on Water-Rock Interaction, Park City Utah, 13-19 July 1992, A.A. Bakema, Rotterdam.

- Schlottmann, J.L., Breit, J.N. and Mosier, E.L., 1993, Arsenic and uranium in the Central Oklahoma aquifer, [abs.], in Oklahoma's Water and Sustainable Development Conference: Proceedings, February 17-18.
- Schlottmann, Jamie L., Mosier, Elwin L., and Breit, George N., 1994, Geochemical processes that favor mobilization of arsenic, chromium, selenium, and uranium in the Central Oklahoma aquifer, [abs.], in Sorenson, Stephen K., ed., 1994, Proceedings abstracts American Water Resources Association's symposium on the National Water-Quality Assessment Program--November 7-9, 1994, Chicago, Illinois: U.S. Geological Survey Open-File Report 94-397, p. 12.

### Central Nebraska River Basin

#### 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.
- 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.
- 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.
- 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, 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.
- 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.

# 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:

- 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, 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, November 1996, p. 79-87.

- Frenzel, S.A., 1993, Multivariate analysis of macroinvertebrate communities and environmental variables in central Nebraska stream, [abs.]: Platte River Basin Ecosystem Symposium, Grand Island, Nebraska, 1993, Program and Abstracts, p. 24.
- Frenzel, S.A., 1994, Application of multivariate techniques to environmental and macroinvertebrate data from streams in central Nebraska, [abs.]: Bulletin of the North American Benthological Society, vol. 11, no. 1, p. 104.
- Lee, Kathy E., 1995, Occurrence and degradation of herbicides in wetlands in central Nebraska, [abs.]: Bulletin of the North American Benthological Society, Spring 1995, Keystone Resort, Colorado, p. 160.
- Swanson, Robert B and Frenzel, Steven A., 1995, Methods for characterizing physical, chemical, and biological conditions of wetlands in central Nebraska, [abs.]: Bulletin of the North American Benthological Society, Spring 1995, Keystone Resort, Colorado, p. 202.
- Swanson, Robert B., and Frenzel, Steven A., 1994, Relation of fish communities to physical and chemical variables at nine stream sites in the Platte River Basin, [abs.], in Sorenson, Stephen K., ed., 1994, Proceedings abstracts American Water Resources Association's symposium on the National Water-Quality Assessment Program--November 7-9, 1994, Chicago, Illinois: U.S. Geological Survey Open-File Report 94-397, p. 19.
- Zelt, R.B., and Brown, J.F., 1993, National land-cover characteristics data--Refinement for the Platte River Basin, Nebraska [abs.]: Platte River Basin Ecosystem Symposium, Grand Island, Nebraska, 1993, Program and Abstracts, p. 6.

#### Eastern Iowa Basins

#### 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. (also listed under National Synthesis--Pesticides)
- 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 Trends, 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.

### Articles and Papers:

- Kolpin, Dana W., Kalkhoff, Stephen J., Goolsby, Donald A., Sneck-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. (also listed under National Synthesis--Pesticides)
- Kolpin, Dana W., Sneck-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. (also listed under National Synthesis--Pesticides)

- Kalkhoff, S.J., Van Metre, P.C., Callender, E., 1997, Organochlorine pesticides in a sediment core from Coralville Reservoir, Iowa, [abs.]: Abstracts with Programs, The Geological Society of America 31st Annual North-Central Section, vol. 29, no. 4, April 1997, p. 24.
- 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--Pesticides, NS--Nutrients, and NS--Trends)
- Roberts, L.R., 1997, Occurrence of selected organochlorine compounds in fish tissue from eastern Iowa streams, [abs]: 109th Session Iowa Academy of Sciences Meeting, April 25-26,1997, Clarke College, Dubuque, p. 25.
- Sadorf, E.M., 1997, Pesticides in ground water of the Iowa River corridor; an area of changing land use, [abs.]: 109th Session Iowa Academy of Sciences Meeting, April 25-26,1997, Clarke College, Dubuque, p. 34.
- Tobias, J.L., 1997, Nutrient concentrations and distribution within the Iowa River alluvial aquifer, Iowa County, Iowa, 1996, [abs.]: 109th Session Iowa Academy of Sciences Meeting, April 25-26,1997, Clarke College, Dubuque, p. 34.

#### 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., pending release as Water Supply Paper.
- 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.

- 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-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.
- 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.

- Leahy, P.P., and Stamer, J.K., 1994, Herbicides in the Lower Kansas River Basin-Policy relevant findings from the U.S. Geological Survey's National Water-Quality Assessment, [abs.]: The Geological Society of America, 1994 Annual Meeting, October 24-27, 1994, Seattle Washington, p. A-106.
- Stamer, J.K., 1991, Surface-water-quality of the lower Kansas River, [abs.]:
  Abstracts of the 46th Annual Conference of the Kansas Water Pollution
  Control Association: Manhattan, Kansas, p. 45.
- Stamer, J.K., Organonitrogen Herbicides in unregulated and regulated streams in the Lower Kansas River Basin, Kansas and Nebraska, [abs.]: Programs and Proceedings of Symposium on Agricultural Nonpoint Sources of Contaminants: A Focus on Herbicides, September 28-29, 1993, Lawrence, Kansas
- Stamer, J.K., Pope, L.M., and Zelt, R.B., 1991, An investigation summary concerning pesticides in the lower Kansas River Basin in Kansas and Nebraska, [abs.]: Poster Session presented at the Fall Festival and Environmental Conference, October 26-28, 1990, Junction City, Kansas.
- Stamer, J.K., Pope, L.M., and Zelt, R.B., 1990, Occurrence and distribution of pesticides in the inflows and outflows of reservoirs in northeast Kansas, [abs.]: Abstracts of the 122nd Annual Meeting of the Kansas Academy of Sciences March 29-30, 1990, Manhattan, Kansas, 72 p.
- Stamer, J.K., Pope, L.M., and Zelt, R.B., 1990, Occurrence and distribution of pesticides in the Lower Kansas River Basin in Kansas and Nebraska, [abs.]: Proceedings of the 7th Annual Water and the Future of Kansas Conference, March 7-8, 1990, Manhattan, Kansas, 45 p.
- Stamer, J.K., and Zelt, R.B., 1991, Areal and temporal distribution of nitrogencontaining herbicides in surface water in the Lower Kansas River Basin, Kansas and Nebraska, [abs.]: Proceedings of the American Water Resources Association Annual Meeting, September 8-13, 1991, New Orleans, p. 349.

Tanner, D.Q., and Stamer, J.K., 1990, U.S. Geological Survey's national water-quality assessment--Results of the Lower Kansas River pilot project, [abs.]: Program of the 32nd Rocky Mountain Conference on Analytical Chemistry, July 29-August 3, 1990, Denver.

# 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

# 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.

# Ozark Plateaus

#### 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.

# Open-File Reports:

- Femmer, Suzanne R., 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.

- 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., 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.

# Articles and Papers:

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.

- Adamski, James C., 1994, Occurrence and distribution of pesticides in the ground water of the Ozark Plateaus of Arkansas, Kansas, Missouri, and Oklahoma, [abs.], in Sorenson, Stephen K., ed., 1994, Proceedings abstracts American Water Resources Association's symposium on the National Water-Quality Assessment Program--November 7-9, 1994, Chicago, Illinois: U.S. Geological Survey Open-File Report 94-397, p. 11.
- Adamski, James C., and Pugh, Aaron L., Ground-water quality data-collection network-National Water-Quality Assessment Program-Ozark Plateaus Study Unit, [abs.]: Proceedings of the Symposium on Effluent Use Management and Abstracts AWRA 29th Annual Conference, August 20-September 2, 1993, Tucson, Arizona, AWRA Technical Publication Series, TPS-93-3, p. 223.

#### Red River of the North Basin

#### 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 17295, 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.

- 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.
- 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.
- 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.

### 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.
- 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.

- Brigham, M.E., 1996, Elemental chemistry of bottom sediments of the Red River of the North and its tributaries in North Dakota, Minnesota, and Manitoba, [abs.]: Geologic Association of Canada Program with Abstracts, vol. 21, May 27-29, 1996, Winnipeg, Manitoba, p. A-11.
- Brigham, M.E., Mayer, Tatiana, McCullough, G.K., and Tornes, L.H., 1996,
  Transport and speciation of nutrients in tributaries to southern Lake
  Winnipeg, Canada, [abs.]: 16th Annual International Symposium on Lake,
  Reservoir and Watershed Management, November 13-16, 1996, Minneapolis/
  St.Paul, Minnesota, North American Lake Management Society, p. 64.
- Brigham, M.E., Tornes, L.H., and Lorenz, D.L., 1994, Load estimates for pesticides in the Red River of the North Drainage Basin, [abs.]: American Geophysical Union 1994 Fall Meeting, December 5-9, 1994, San Francisco, California, p. 230.

- Cowdery, Tim K., 1994, Nutrient concentrations near the water table of the Sheyenne Delta aquifer beneath cropland areas--Preliminary results from the Red River of the North land-use study, [abs.], in Sorenson, Stephen K., ed., 1994, Proceedings abstracts American Water Resources Association's symposium on the National Water-Quality Assessment Program--November 7-9, 1994, Chicago, Illinois: U.S. Geological Survey Open-File Report 94-397, p. 7.
- Cowdery, T.K., and Brigham, M.E., 1992, Baseflow dissolved-solids loads to streams of the Red River of the North Basin, South Dakota, North Dakota, and Minnesota, [abs.]: 37th Annual Midwest Ground Water Conference Program with Abstracts, October 14-16, 1992, Sioux Falls, South Dakota, p. 38.
- 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, [abs.]: North Dakota Water '94 Conference Poster Session Abstracts, April 21-22, 1994, Minneapolis, Minnesota, p. 8-9.
- Cowdery, T.K., and Saylor, K.N., 1996, Contrasting water quality of two surficial aquifers in the Red River of the North Drainage Basin, North Dakota and Minnesota, [abs.]: North Dakota Water Quality Symposium Proceedings, March 20-21, 1996, Bismarck, North Dakota, North Dakota University Extension Service, p. 146, and also in Minnesota Water '96 collection of conference abstracts, May 20-21, 1996, Minneapolis, Minnesota, University of Minnesota Water Resources Research Center, p. 98.
- Cowdery, T.K., Stoner, J.D., and Lorenz, D.L., 1995, Distribution and movement of nitrate in a surficial outwash aquifer beneath irrigated cropland, northwestern Minnesota, [abs.]: American Geophysical Union, EOS Transactions, Abstracts for Fall Meeting--December 11-15, 1995, p. 195.
- Goldstein, R.M., and Brigham, M.E., 1995, Comparison of mercury concentrations in liver, fillet, tissue, and whole bodies of fish from the Red River of the North, [abs.]: Mercury Pollution in the Upper Great Lakes Region, June 9, 1995, Minneapolis, Minnesota, p. 14.
- Lorenz, D.L., 1992, Using a geographical information system to describe the environmental setting of the Red River of the North Basin, [abs.], in Balthrop, B.H., and Baker, E.G., compilers, U.S. Geological Survey National Computer Technology Meeting--Program and Abstracts, May 17-22, 1992, Norfolk, Virginia: U.S. Geological Survey Open-File Report 92-64, p. 21.
- Lorenz, D.L., 1994, Use of remotely sensed data to characterize vegetation in the Red River of the North Basin, Minnesota, North Dakota, and South Dakota, in Balthrop, B.H., and Baker, E.G., compilers, U.S. Geological Survey National Computer Technology Meeting--Program and Abstracts, April 10-15, 1994, New Orleans, Louisiana: U.S. Geological Survey Open-File Report 94-52, p. 27.
- 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, 1993-95, [abs.]: Minnesota GIS/LIS Consortium, September 25-27, 1996, St. Louis Park, Minnesota, 1996 Sixth Annual Conference and Workshops Abstracts, p. 47.
- Puckett, L.J., Tornes, L.H., Cowdery, T.K., Brigham, M.E., and Stoner, J.D., 1995, The role of wetlands in reducing nitrogen loadings to the Otter Tail River in Minnesota, [abs.]: American Geophysical Union, EOS Transactions, Abstracts for Fall Meeting--December 11-15, 1995, p. 186.

- Stoner, J.D., Brigham, M.E., and Cowdery, T.K., 1994, Water quality in sufficial glacial-deposit aquifers in the Red River of the North Drainage Basin, Minnesota, North Dakota, and South Dakota, [abs.]: 39th Annual Midwest Ground Water Conference Program and Abstracts, October 26-18, 1994, Bismarck, North Dakota, p. 14.
- Stoner, J.D., and Lorenz, D.L., 1992, Water quality assessment strategy for the Red River of the North Basin, North Dakota, South Dakota, and Minnesota [abs.]: North Dakota Water-Quality Symposium Program Abstracts, March 25-26, 1992, Bismarck, North Dakota, p. 24.
- Stoner, J.D., and Lorenz, D.L., 1994, Environmental setting of the Red River of the North Basin, Minnesota, North Dakota, and South Dakota--Framework for a regional water-quality assessment: Minnesota Water '94 Conference Oral Presentations Abstracts, April 21-22, 1994, Minneapolis, Minnesota, p. 2-3.
- Stoner, J.D., Stark, J.R., and Hines, J.W., 1996, Technical considerations for monitoring ground water ti assess water-quality trends in Minnesota, [abs.]: Minnesota Water '96 collection of conference abstracts, May 20-21, 1996, Minneapolis, Minnesota, University of Minnesota Water Resources Research Center, p. 36.
- Strobel, M.L., 1992, Hydrogeological restrictions to saline ground-water discharge in the Red River of the North Drainage Basin, North Dakota [abs.]: Geological Society of America Annual Meeting, Cincinnati, Ohio, 1992 Abstracts with Program, vol. 24, no. 7, p. 337.
- Strobel, M.L., and Cowdery, T.K., 1994, Effects of the 1993 flood on ground-water levels and quality in the Sheyenne Delta Aquifer, Southeastern North Dakota, [abs.]: Thirty-Ninth Annual Midwest Ground Water Conference, October 16-18, 1994, Bismark, North Dakota, p. 1-2.
- 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 hydrogeology [abs.]: North Dakota Water Quality Symposium, Program, and Abstracts, p. 12.
- Strobel, M.L., and Gerla, P.J., 1993, Hydrogeologic and anthropogenic influences on the occurrence of saline wetlands in the Red River of the North Valley, northeastern North Dakota [abs.]: Wetland Ecology, Management, and Restoration Symposium, Program and Abstracts, p. 44.
- 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, [abs.]: 1994 North Dakota Water Quality Symposium Proceedings, Program and Abstracts, p. 26.
- Strobel, M.L., Luther, M.R., and Boespflug, K.L., 1992. Correlation of texture and thickness of Pleistocene sediments to saline soils, wetlands, and surface-water quality in the Red River of the North Basin, North Dakota [abs.]: North Dakota Water Quality Symposium Proceedings, 1992, Bismarck, North Dakota, p. 248 (poster presentation), and Program and Abstracts, p. 21.
- Tornes, L.H., and Brigham, M.E., 1994, Agricultural chemicals in streams of the Red River of the North Drainage Basin, [abs.]: Minnesota Water '94 conference Oral Presentations Abstracts, April 21-22, 1994, Minneapolis, Minnesota, p. 3.

- Tornes, L.H., Brigham, M.E., and Goldstein, R.M., 1996, Organic chemicals and trace elements in bottom sediments and fish tissues from streams of the Red River of the North Basin, 1992-94, [abs.]: Minnesota Water '96 collection of conference abstracts, May 20-21, 1996, Minneapolis, Minnesota, University of Minnesota Water Resources Research Center, p. 99-100.
- Tornes, L.H., Lorenz, D.L., Brigham, M.E., and Stoner, J.D., 1992, Plans for a water-quality assessment of the Red River of the North Basin, Minnesota, North Dakota, and South Dakota, [abs.], in Minnesota Water '92: Sustaining Water Resources in the '90s and Beyond--Abstracts, February 13-14, 1992, Bismarck, North Dakota, p. 24.
- Tornes, L.H., Puckett, L.J., Porter, S.D., and Stoner, J.D., 1995, Variations of nitrate beneath a riparian wetland in Minnesota and its relation to stream biota, [abs.]: American Geophysical Union, EOS Transactions, Abstracts for Fall Meeting--December 11-15, 1995, p. 186.
- Tornes, L.H., Puckett, L.J., Stoner, J.D., and Brigham, M.E., 1994, The effect of riparian wetlands in reducing nitrate-nitrogen from a sand and gravel aquifer to a stream, [abs.]: American Geophysical Union, EOS Transactions, Abstracts for Fall Meeting--December 5-9, 1994, p. 261.

# Rio Grande Valley

### 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.
- 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.
- 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)

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

## Articles and Papers:

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.

## Abstracts:

Levings, Gary W., 1994, Pesticides in shallow ground water underlying agricultural areas of the San Luis Valley, Colorado, [abs.], in Sorenson, Stephen K., ed., 1994, Proceedings abstracts American Water Resources Association's symposium on the National Water-Quality Assessment Program-November 7-9, 1994, Chicago, Illinois: U.S. Geological Survey Open-File Report 94-397, p. 12.

# South Central Texas

# 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.

# 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

### 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, 2p.
- 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 waterrelated 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.

## Water-Resources Investigations Reports:

- 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.
- 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.
- McMahon, Peter B., Lull, Kenneth J., Dennehy, Kevin F., and Collins, Jim A., 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., 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., 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.
- 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.

#### **Abstracts**

- Bruce, Breton, W., Litke, David W., Kimbrough, Robert A., and McMahon, P.B., 1994, Comparison of surface- and ground-water nutrient concentrations between urban and agricultural land-use settings, South Platte River Basin, Colorado, [abs.], in Sorenson, Stephen K., ed., 1994, Proceedings abstracts American Water Resources Association's symposium on the National Water-Quality Assessment Program--November 7-9, 1994, Chicago, Illinois: U.S. Geological Survey Open-File Report 94-397, p. 6.
- Bruce, Bret W., and McMahon, Peter B., 1994, Comparison of shallow ground-water quality between urban and agricultural land-use settings, South Platte River Basin, Colorado and Nebraska, [abs.], in Klein, K.C., ed., Integrated watershed management in the South Platte Basin: Status and practical implementation: Proceedings of the 1994 South Platte Forum, October 26-27, 1994, Greeley, Colorado, p. 23.
- Frankforter, Jill D., and Frenzel, Steven A., 1995, Wetland water quality:
  Effect of local land use in the Platte River Basin, Nebraska, [abs.]:
  Bulletin of the North American Benthological Society, Spring 1995,
  Keystone Resort, Colorado, p. 161.
- Frenzel, Steven A., 1995, Fish community composition: A tool for regional waterquality assessment in the Platte River Basin, Nebraska, [abs.]: Bulletin of the North American Benthological Society, Spring 1995, Keystone Resort, Colorado, p. 157.
- Heiny, J.S., and Tate, C.M., 1992, Effects of stream habitat characteristics on biological communities in the South Platte River Basin, [abs.]: Proceedings of the 1992 South Platte River Basin Conference, October 27-28, 1992, Fort Collins, Colorado, p. 71.
- Heiny, Janet S., 1994, Relation of trace-element concentrations in bed sediment and fish tissue to land use in the South Platte River Basin, [abs.], in Klein, K.C., ed., Integrated watershed management in the South Platte Basin: Status and practical implementation: Proceedings of the 1994 South Platte Forum, October 26-27, 1994, Greeley, Colorado, p. 20.
- Kimbrough, Robert A., and Litke, David W., 1994, Pesticide occurrence in a small urban and a small agricultural Basin, South Platte River Basin, April through December 1993, [abs.], in Klein, K.C., ed., Integrated watershed management in the South Platte Basin: Status and practical implementation: Proceedings of the 1994 South Platte Forum, October 26-27, 1994, Greeley, Colorado, p. 28.
- Litke, David W., 1994, Nutrient loads from wastewater-treatment plants in South Platte River Basin, [abs.], in Klein, K.C., ed., Integrated watershed management in the South Platte Basin: Status and practical implementation: Proceedings of the 1994 South Platte Forum, October 26-27, 1994, Greeley, Colorado, p. 30.
- Martin, Lori M., Tate, Cathy M., and Woodling, John D., 1994, Fish communities of the South Platte River Basin, [abs.], in Klein, K.C., ed., Integrated watershed management in the South Platte Basin: Status and practical implementation: Proceedings of the 1994 South Platte Forum, October 26-27, 1994, Greeley, Colorado, p. 26.
- McMahon, P.B., Hydrologic and geochemical effects on sediment-oxygen demand in a sewage-effluent dominated river [abs]: 1993 Fall Meeting American Geophysical Union, Dec. 6-10, San Francisco, California, vol.74, no. 43, October 26, 1993 supplement, p. 278.

- McMahon, P.B., Crowfoot, R., and Wydoski, D., 1994, Effect of fuel oxidants on the degradation of gasoline components in sediments of the South Platte River alluvial aquifer, [abs.], in Klein, K.C., ed., Integrated watershed management in the South Platte Basin: Status and practical implementation: Proceedings of the 1994 South Platte Forum, October 26-27, 1994, Greeley, Colorado, p. 25.
- McMahon, P.B., Dennehy, K.F., and Lull, K., 1992, Effect of ground-water discharge on dissolved-oxygen concentrations in the South Platte River at low flow, [abs.]: Proceedings of the 1992 South Platte River Basin Conference, October 27-28, 1992, Fort Collins, Colorado, p. 79.
- Minter, Jill B., 1995, Comparison of macroinvertebrate communities from three substrates in low-gradient reaches of the South Platte River, [abs.]:
  Bulletin of the North American Benthological Society, Spring 1995,
  Keystone Resort, Colorado, p. 156.
- Peterson, R.C., Averett, R.C., 1992, Beyond biodiversity: Towards a third generation of tools for ecological assessment, [abs.]: Proceedings of the 1992 South Platte River Conference October 27-28, Fort Collins, Colorado, p. 69-70.
- Tate, Cathy M., and Heiny, Janet S., 1994, Using multiple lines of evidence to assess water quality in the South Platte River Basin, [abs.], in Sorenson, Stephen K., ed., 1994, Proceedings abstracts American Water Resources Association's symposium on the National Water-Quality Assessment Program-November 7-9, 1994, Chicago, Illinois: U.S. Geological Survey Open-File Report 94-397, p. 19.
- Swanson, Robert B., and Frenzel, Steven A., 1994, Relation of fish communities to physical and chemical variables at nine stream sites in the Platte River Basin, [abs.], in Sorenson, Stephen K., ed., 1994, Proceedings abstracts American Water Resources Association's symposium on the National Water-Quality Assessment Program--November 7-9, 1994, Chicago, Illinois: U.S. Geological Survey Open-File Report 94-397, p. 19.
- Zelt, Ronald B., and Frenzel, Steven A., 1995, Reach surveys and GIS analysis of stream habitat in the Lower Platte River Basin, Nebraska, [abs.]:
  Bulletin of the North American Benthological Society, Spring 1995,
  Keystone Resort, Colorado, p. 203.

# Trinity River Basin

#### 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, 6p.
- 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, 6p.
- 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.
- 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, Identifying water-quality trends from 1912-94 using dated sediment cores from White Rock Lake Reservoir, Dallas, Texas: Journal of Paleolimnology, vol. 17, p. 239-249. (also listed under National Synthesis--Water-Quality Trends)

#### Abstracts:

- Land, Larry F., 1994, Integrated assessment of pesticides in a suburban watershed, Arlington, Texas, [abs.], in Sorenson, Stephen K., ed., 1994, Proceedings abstracts American Water Resources Association's symposium on the National Water-Quality Assessment Program--November 7-9, 1994, Chicago, Illinois: U.S. Geological Survey Open-File Report 94-397, p. 10.
- Moring, J. Bruce, 1994, Physical habitat and fish community structure in the Trinity River Basin, Texas, [abs.], in Sorenson, Stephen K., ed., 1994, Proceedings abstracts American Water Resources Association's symposium on the National Water-Quality Assessment Program--November 7-9, 1994, Chicago, Illinois: U.S. Geological Survey Open-File Report 94-397, p. 20.
- Van Metre, P.C., 1994, Identification of water-quality trends in the Trinity River from 1969-92 using sediment cores from Lake Livingston, Texas, [abs.]: American Geophysical Union 1994 Fall Meeting, December 5-9, 1994, San Francisco, California, p. 230.

# Upper Colorado River Basin

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

#### Articles and Papers:

Spahr. N.E., and Wynn, K.H., 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.

### Abstracts:

Driver, Nancy E., 1994, Effects of mining on water quality in the Upper Colorado River Basin, [abs.], in Sorenson, Stephen K., ed., 1994, Proceedings abstracts American Water Resources Association's symposium on the National Water-Quality Assessment Program--November 7-9, 1994, Chicago, Illinois: U.S. Geological Survey Open-File Report 94-397, p. 16.

## Upper Mississippi River Basin

#### 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.
- 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.

### 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.
- 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.

## Articles and Papers:

- 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.

### Abstracts:

Andrews, W.J., 1995, Volatile organic compounds in surface and ground water in the Upper Mississippi River Basin, Minnesota and Wisconsin, 1978-94 [abs.]: Programs and Abstracts of the 40th Annual Midwest Groundwater Conference, Columbia, MO, October 16-18, 1995, p 24.

## 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.

#### Abstracts:

- Hughes, J.L., Lico, M.S., and Welch, A.H., 1989, Hydrogeologic controls on the occurrence of radon-222 in ground water in west-central Nevada, [abs.], in Pederson, G.L., and Smith, M.M., compilers, U.S. Geological Survey Second National Symposium on Water Quality--Abstracts of the Technical Sessions, Orlando, Florida, November 12-17, 1989: U.S. Geological Survey Open-File Report 89-409, p. 40-41.
- Lawrence, S.J., and Whitney, Rita, 1990, Shallow ground-water quality in the vicinity of a small urban area in west-central Nevada, in Nevada decision point--Which water course to the future? [abs.]: Annual Conference, Nevada Water Resources Association, Las Vegas, Nevada, February 1990, Program Information and Abstracts, unpaginated.
- Sertic, K.A., 1989, Chlorofluorocarbon compounds in ground water-A possible management tool, [abs.], in Pederson, G.L., and Smith, M.M., compilers, U.S. Geological Survey Second National Symposium on Water Quality-Abstracts of the Technical Sessions, Orlando, Florida, November 12-17, 1989,: U.S. Geological Survey Open-File Report 89-409, p. 87.
- Thomas, J.T., Welch, A.H., and Gunderson, L.S., 1990, Distribution and sources of radon-222 in ground water in the Carson River Basin, western Nevada and eastern California, USA, [abs.]: EOS, American Geophysical Union Transactions, vol. 71, no. 43, p. 1305.
- Thomas, James M., Welch, Alan H., and Gunderson, Linda S., 1994, Distribution and sources of uranium in ground water in the Carson River Basin, Western Nevada and Eastern California, USA, [abs.], in Sorenson, Stephen K., ed., 1994, Proceedings abstracts American Water Resources Association's symposium on the National Water-Quality Assessment Program--November 7-9, 1994, Chicago, Illinois: U.S. Geological Survey Open-File Report 94-397, p. 13.
- Welch, A.H., Thomas, J.T., and Gunderson, L.S., 1990, Distribution and sources of uranium in ground water in the Carson River Basin, western Nevada and eastern California, USA: EOS, American Geophysical Union Transactions, vol. 71, no. 43, p. 1305.

- Welch, A.H., and Lico, M.S., 1988, Aqueous geochemistry of ground water with high concentrations of arsenic and uranium, Carson River Basin, Nevada, [abs.]: Chemical Geology, vol. 70, no. 1-2, p. 19.
- Welch, A.H., Szabo, Z., Parkhurst, D.L., Van Metre, P.C., Mullin, Ann.H., 1993, A limitation of gross-beta activity in studies of naturally occurring beta-emitting radionuclides in ground water, [abs.]: 1993 Fall Meeting American Geophysical Union, AGU 1993 Fall Meeting, Dec. 6-10, San Francisco, California, p. 298.

# Central Arizona Basins

#### 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.

## Central Columbia Plateau

#### 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, 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.
- 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.
- 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.
- 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)

## 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.
- 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., 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.

#### Abstracts:

- Ebbert, James C., 1995, Inputs of nitrogen and changes of nitrate concentrations in ground water underlying irrigated cropland in parts of eastern Washington. [abs.], in Nitrogen Environment and People Conference, Everett, Washington, February 1995, p. 52.
- Ebbert, James C, and Moon, H. Kim, 1996, The effect of irrigation method on runoff losses of soil, pesticides, and nitrogen from cropland in the Quincy-Pasco Basins, Washington, [abs.]: Agriculture and Water Quality in the Pacific Northwest Conference Proceedings October 22-23, 1996, Yakima, Washington, p. 52.
- Hallock, David, and Ebbert, James C., 1996, Long-term trends in concentrations of suspended sediment and differences in sediment loads (1960-1995) in the Palouse River, [abs.]: Agriculture and Water Quality in the Pacific Northwest Conference Proceedings October 22-23, 1996, Yakima, Washington, p. 10.
- Jones, J.L., and Ebbert, J.C., 1994, Comparison of water-quality information from shallow piezometers and domestic wells, [abs.], in Pederson, Gary L., ed., American Water Resources Association, National Symposium on Water Quality, p. 249.
- Jones, J.L., and Ebbert, J.C., 1995, Comparison of pesticide and nitrate data from shallow piezometers and domestic wells near irrigated fields in the Central Columbia Plateau, Washington, [abs.]: Washington State Conference, August 28-30, 1995, p. 101.
- Jones, J.L., Ebbert, J.C., Williamson, A.K., 1994, Water quality under potato rotations: Columbia Basin Irrigation Project, [abs.]: 34th Annual Washington Potato Conference and Trade Show, Moses Lake, Washington, February 7-9, 1995, p. 13.
- Jones, J.L., and Roberts, Lonna M., 1996, Agricultural pesticides in shallow ground water of the Quincy and Pasco Basins, Washington, [abs.]:
  Agriculture and Water Quality in the Pacific Northwest Conference
  Proceedings October 22-23, 1996, Yakima, Washington, p. 18.
- Munn, Mark, Gruber, Steve, Waite, Ian, Maret, Terry, and Wentz, Dennis, 1996, Organochlorine pesticides in bed sediment and fish in the Pacific Northwest, [abs.]: Agriculture and Water Quality in the Pacific Northwest Conference Proceedings October 22-23, 1996, Yakima, Washington, p. 11.
- Ryker, Sarah J., and Williamson, Alex K., 1996, Pesticides in public supply wells of Washington State, [abs.]: Agriculture and Water Quality in the Pacific Northwest Conference Proceedings October 22-23, 1996, Yakima, Washington, p. 19.
- Williamson, A.K., 1991, National water-quality assessment (NAWQA), Central Columbia Plateau Study Unit--Overview, [abs.], in Jones M.E., and Laenen, Antonius, American Institute of Hydrology Proceedings, October 18-20, 1993, p. 338-349.

### 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)

## Great Salt Lake Basins

# Fact Sheets:

Waddell, Kidd M., and Baskin, Robert L., 1994, Great Salt Lake Basins Study Unit: U.S. Geological Survey Fact Sheet 94-046, 2 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

### 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.
- 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.

### 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.
- 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.

### Water-Supply Papers:

Bevans, Hugh E., Fromm, Carla Hyde, and Watkins, Sharon A., 1995, The occurrence and transport of agricultural pesticides in the Tuttle Creek Lake-Stream system, Kansas and Nebraska: U.S. Geological Survey Water-Supply Paper 2419, 34 p.

#### Abstracts:

- Bevans, Hugh E., Goodbred, S., and Miesner, J., 1996, Assessment of synthetic organic compounds, and endocrinology and histology of carp in Lake Mead, [abs.]: Society of Environmental Toxicology and Chemistry (SETAC) 17th Annual Meeting, Washington, D.C., November 17-21, 1996, p. 214-125.
- Lawrence, S., 1995, Trace elements in bed sediments and aquatic invertebrates from three streams in Nevada, [abs.]: Society of Environmental Toxicology and Chemistry (SETAC) Second World Congress, 16th Annual Meeting, Vancouver, British Columbia, Canada, November 5-9, 1995, p. 312.
- Lawrence, Stephen J., and Bevans, Hugh E., 1994, Mercury in bottom sediment and aquatic invertebrates, Carson and Truckee River Basins, Nevada and California, [abs.]: Society of Environmental Toxicology and Chemistry (SETAC) 15th Annual Meeting, Denver, Colorado, October 30-November 3, 1994, p. 19.
- Welch, A.H., and Lico, M.S., 1997, Factors controlling arsenic and uranium in shallow groundwater, southern Carson Desert, Nevada, [abs.]: Seventh annual V.M. Goldschmidt Conference, June 2-6, 1997, Tucan, Arizona, p. 216-217.

## Puget Sound Basin

### 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.

# 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:

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.

### Sacramento River Basin

# 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.

## Articles and Papers:

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.

### Abstracts:

Domagalski, J.L., 1994, A synoptic study of agricultural pesticides and pesticide degradation products: Sacramento River Basin, California, National Water-Quality Assessment Program, [abs.]: American Geophysical Union 1994 Fall Meeting, December 5-9, 1994, San Francisco, California, p. 230.

# San Joaquin-Tulare Basins

#### 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:

- 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.
- 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.

## Water-Resources Investigations Reports:

Kratzer, Charles R., and Biagtan, Rhodora N., 1997, Determination of traveltimes 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.

### 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.

### Articles and Papers:

- 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., 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.
- Domagalski, Joseph, 1996, Occurrence of dicofol in San Joaquin River, California: Bulletin of Environmental Contamination and Toxicology, vol. 57, 1996, p. 284-291.
- 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.

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.

#### Abstracts:

- Brown, Larry R., 1994, Responses of fish and macroinvertebrate communities to variations in habitat and water quality in streams of the San Joaquin Valley, California, [abs.], in Sorenson, Stephen K., ed., 1994, Proceedings abstracts American Water Resources Association's symposium on the National Water-Quality Assessment Program--November 7-9, 1994, Chicago, Illinois: U.S. Geological Survey Open-File Report 94-397, p. 20.
- Domagalski, Joseph L., and Dubrovsky, Neil M., 1994, Inputs of the dormant orchard pesticide, diazinon, to the San Joaquin River, California, [abs.], in Sorenson, Stephen K., ed., 1994, Proceedings abstracts American Water Resources Association's symposium on the National Water-Quality Assessment Program--November 7-9, 1994, Chicago, Illinois: U.S. Geological Survey Open-File Report 94-397, p. 8.
- Dubrovsky, Neil M., and Neil, John M. 1994, Multiscale approaches to evaluating regional chemical processes and trace-element distribution, [abs.], in Sorenson, Stephen K., ed., 1994, Proceedings abstracts American Water Resources Association's symposium on the National Water-Quality Assessment Program--November 7-9, 1994, Chicago, Illinois: U.S. Geological Survey Open-File Report 94-397, p. 14.
- Kratzer, Charles R., 1994, An assessment of the increasing nitrate trend in the Lower San Joaquin River, California, [abs.], in Sorenson, Stephen K., ed., 1994, Proceedings abstracts American Water Resources Association's symposium on the National Water-Quality Assessment Program--November 7-9, 1994, Chicago, Illinois: U.S. Geological Survey Open-File Report 94-397, p. 5.
- Panshin, S.Y., Domagalski, J.L., and Dubrovsky, Neil M., 1994, Pesticide concentrations in surface water as a function of agricultural land use in five small watersheds, western San Joaquin Valley, California, [abs.]: American Geophysical Union 1994 Fall Meeting, November 1, 1994.
- Dubrovsky, Neil M., and Neil, John M., 1994, Multiscale approaches to evaluating regional chemical processes and trace element distribution, [abs.], in Sorenson, Stephen K., ed., 1994, Proceedings abstracts American Water Resources Association's symposium on the National Water-Quality Assessment Program--November 7-9, 1994, Chicago, Illinois: U.S. Geological Survey Open-File Report 94-397, p. 14.
- Kratzer, Charles R., 1994, An assessment of the increasing nitrate trend in the lower San Joaquin River, California, [abs.], in Sorenson, Stephen K., ed., 1994, Proceedings abstracts American Water Resources Association's symposium on the National Water-Quality Assessment Program--November 7-9, 1994, Chicago, Illinois: U.S. Geological Survey Open-File Report 94-397, p. 5.
- Panshin, S.Y., Domagalski, J.L., and Dubrovsky, N.M., 1994, Pesticide concentrations in surface water as a function of agricultural land use in five small watersheds, Western San Joaquin Valley, California, [abs.]: American Geophysical Union 1994 Fall Meeting, December 5-9, 1994, San Francisco, California, p. 246.

## Upper Snake River Basin

### 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., 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.

### 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, 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 Open-File 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., 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.

#### Abstracts:

Maret, Terry R., 1995, The U.S. Geological Survey's National Water Quality Assessment (NAWQA) Program: Aquatic biological activities in the Upper Snake River Basin, Idaho, and western Wyoming, [abs.]: Bulletin of the North American Benthological Society, Spring 1995, Keystone Resort, Colorado, p. 173.

### Willamette River Basin

### 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:

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.

### Articles and Papers:

Oregon Water Resources Research Institute, January 1995, The cutting edge of water research: Current research Reports: vol. 1, no. 1, 4 p.

## Abstracts:

- Wentz, D.A., Rinella, F.A., and Kelly, V.J., 1993, Study design to detect impacts of land use on trace-element concentrations in stream-bottom sediment of the Willamette and Sandy River Basins, Oregon, [abs.]: EOS, Transactions, American Geophysical Union, vol. 74, no. 16, Spring Meeting Supplement, p. 137.
- Wentz, Dennis A., Rinella, Frank A., and Kelly, Valerie J., 1994, Relationships between land use and trace-element concentrations in bed sediment of the Willamette Basin, Oregon, 1992-93, [abs.], in Sorenson, Stephen K., ed., 1994, Proceedings abstracts American Water Resources Association's symposium on the National Water-Quality Assessment Program--November 7-9, 1994, Chicago, Illinois: U.S. Geological Survey Open-File Report 94-397, p. 16.

## 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.
- 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.

### Articles and Papers:

- 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, 1990, vol. 41, p. 105-117.
- 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.

### Abstracts:

- Fuhrer, Gregory J., Cain, Daniel J., McKenzie, Stuart W., and Rinella, Joseph F., (1994), Effect of geology and human activities on the distribution of trace elements in water, sediment, and aquatic biota, Yakima River Basin, Washington, 1987-91, [abs.], in Sorenson, Stephen K., ed., 1994, Proceedings abstracts American Water Resources Association's symposium on the National Water-Quality Assessment Program--November 7-9, 1994, Chicago, Illinois: U.S. Geological Survey Open-File Report 94-397, p. 15.
- Leland, Harry V., 1994, Distribution of benthic algae in Yakima River Basin, Washington, in relation to geology, land use, and other environmental factors, [abs.], in Sorenson, Stephen K., ed., 1994, Proceedings abstracts American Water Resources Association's symposium on the National Water-Quality Assessment Program--November 7-9, 1994, Chicago, Illinois: U.S. Geological Survey Open-File Report 94-397, p. 21.
- Leland, Harry V., and Stallard, Robert F., 1995, Distribution of benthic algae in the Yakima River Basin, Washington, in relation to geology and weathering environment, [abs.]: Bulletin of the North American Benthological Society, Spring 1995, Keystone Resort, Colorado, p. 145.

# 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:

- 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, Qualitycontrol design for surface-water sampling in the National Water-Quality Assessment Program: U.S. Geological Survey Open-File Report 97-223, 17 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 -- Nutrients and Sediments

### 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.
- 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.

#### Water-Resources Investigations Reports:

- 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:

- 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)
- 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.
- 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.

# Abstracts:

- Hamilton, Pixie A., and Helsel, Dennis, R., 1994, Effects of agricultural activities on ground-water quality in five regions of the United States, [abs.]: Proceedings AWRA 1994 Annual Summer Symposium of the American Water Resources Association, Effects of human-induced change on hydrologic systems, June 26-29, 1994, Jackson Hole, Wyoming p. 1163.
- Helsel, Dennis R., 1995, Nitrate in the Nation's waters: A summary of recent studies: Water Resources Update, no. 101, Autumn 1995, p. 12-17.

- Mueller, David K., Ruddy, Barbara C., and Battaglin, William A., 1994, Nitrate and atrazine in surface waters of the Upper-Midwestern United States: An example of regional synthesis, [abs.], in Sorenson, Stephen K., ed., 1994, Proceedings abstracts American Water Resources Association's symposium on the National Water-Quality Assessment Program--November 7-9, 1994, Chicago, Illinois: U.S. Geological Survey Open-File Report 94-397, p. 7.
- Puckett, Larry J., 1994, Estimates of Nonpoint- and point source loadings of nutrients in NAWQA basins: What can they tell us? [abs.], in Sorenson, Stephen K., ed., 1994, Proceedings abstracts American Water Resources Association's symposium on the National Water-Quality Assessment Program-November 7-9, 1994, Chicago, Illinois: U.S. Geological Survey Open-File Report 94-397, p. 6.
- Puckett, L.J., 1994, Nonpoint-and point-source contributions of nitrogen and phosphorus in large watersheds, [abs.]: American Geophysical Union 1994 Fall Meeting, December 5-9, 1994, San Francisco, California, p. 228.
- Tornes, L.H., Puckett, L.J., Stoner, J.D., and Brigham, M.E., 1994, The effect of riparian wetlands in reducing nitrate-nitrogen from a sand and gravel aquifer to a stream, [abs.] poster: American Geophysical Union 1994 Fall Meeting, December 5-9, 1994, San Francisco, California, p. 261.

## 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 -- 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, NS--Nutrients, and NS--Trends)
- 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.

## Open-File Reports:

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.

#### 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.

## Articles and Papers:

- 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, 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.

- 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. (also listed under Eastern Iowa Basins)
- 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., Kalkhoff, Stephen J., Goolsby, Donald A., Sneck-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. (also listed under Eastern Iowa Basins)
- 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., Sneck-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. (also listed under Eastern Iowa Basins)
- 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.
- 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, Auguat 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, 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.

# Abstracts:

Barbash, J.E., 1994, Problems associated with the use of solute-transport models and vulnerability assessments for predicting the behavior of pesticides in the subsurface, [abs.]: Abstracts of Papers, 208th Meeting of the American Chemical Society National Meeting, Washington, D.C., Part 1.

- Barbash, J.E., 1995, Pesticides in ground water: An overview of current understanding, [abs.]: The Rubin Symposium on Soil Science, Solute Transport, and National-Scale Water Quality Assessments, American Geophysical Union Spring Meeting, Baltimore, Maryland, June 1995, EOS vol. 76, no. 17, p. S142.
- Foreman, W.T., Goolsby, D.A., Majewski, M.S., Nations, B.K., Coupe, R.H., Larson, W.W., Battaglin, W.A., 1995, Pesticides in air and rain at urban and agricultural sites in the midwestern United States [abs.]: Society of Environmental Toxicology and Chemistry Abstracts Book, Second SETAC World Congress, 5-9 November, 1995, Vancouver, B.C., abstract no. PM 260, p. 156.
- Gilliom, Robert J., 1995, Pesticides in agricultural and urban streams of the United States, [abs.]: Society of Environmental Toxicology and Chemistry Abstract Book, Second SETAC World Congress, November 5-9, 1995, Vancouver, B.C., abstracts no. PT 259, p. 155.
- Gilliom, Robert J., 1994, National study design for assessing pesticides in streams and ground water, [abs.], in Sorenson, Stephen K., ed., 1994, Proceedings abstracts American Water Resources Association's symposium on the National Water-Quality Assessment Program--November 7-9, 1994, Chicago, Illinois: U.S. Geological Survey Open-File Report 94-397, p. 8.
- Goodbred, S., Gilliom, R.J., and Gross, T., 1995, Reconnaissance of 17B-estradiol and 11-ketotestosterone levels in fish of United States streams, [abs.]: Society of Environmental Toxicology and Chemistry Abstract Book, Second SETAC World Congress, November 5-9, 1995, Vancouver, B.C., abstracts no. 322, p. 60.
- Larson, Steven J., and Capel, Paul D., 1995, Pesticides in surface waters of the United States: A review of occurrence and geographic distribution, [abs.]: Society of Environmental Toxicology and Chemistry Abstract Book, Second SETAC World Congress, November 5-9, 1995, Vancouver, B.C., abstracts no. PT 262, p. 156.
- Nowell, Lisa H., Dileanis, Peter D., and Capel, Paul D., 1995, Pesticides in sediment and aquatic biota of the United States rivers: Occurrence, geographic distribution, and trends, [abs.]: Society of Environmental Toxicology and Chemistry Abstract Book, Second SETAC World Congress, November 5-9, 1995, Vancouver, B.C., abstracts no. PT 267, p. 218.
- Majewski, M.S., Capel, P.D., 1995, Pesticides in the atmosphere of the United States: A review of occurrence and geographic distribution [abs.]: Society of Environmental Toxicology and Chemistry Abstracts Book, Second SETAC World Congress, 5-9 November, 1995, Vancouver, B.C., abstract no. PM263, p. 156.
- Majewski, M.S., Foreman, W.T., Goolsby, D.A., 1995, Airborne pesticide residues along the Mississippi River [abs.]: Society of Environmental Toxicology and Chemistry Abstracts Book, Second SETAC World Congress, 5-9 November, 1995, Vancouver, B.C., abstract no. 167, p. 31.
- Majewski, M.S., Woodrow, J.E., and Seiber, J.N., 1995, Methyl bromide volatility measurements from treated fields [abs.]: American Chemical Society Abstracts of papers, 210th National Meeting, August 20-24, 1995, Chicago, Ill., abstract no. 90, unnumbered pages.

# NATIONAL SYNTHESIS -- Volatile Organic Compounds (VOCs)

#### Fact Sheets:

- 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.

## Open-File Reports:

- Brachtl, 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.
- 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.
- 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.

## 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.

## Articles and Papers:

- 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)
- Lopes, Thomas J. and Bender, David A., 1997, Nonpoint sources of volatile organic compounds in urban areas--Relative importance of land surfaces and air: Environmental Science and Technology, vol., p. (in press).
- 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).
- 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. 4, 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., 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., 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 -- Special Topics

## Water-Quality Trends

#### Fact Sheets:

- 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., 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)

### 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)
- 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--Nutrients, and NS--Pesticides)
- 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, Identifying water-quality trends from 1912-94 using dated 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, 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.

# **Endocrine Disruption**

Goodbred, Steven L., Gilliom, Robert J., Gross, Timothy S., Denslow, Nancy P., Bryant, Wade B., and Schoeb, Trenton R., 1996, Reconnaissance of 17β-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.

### PROTOCOLS

### 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, 66p.
- 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, Franceska 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, Franceska 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, 48p.
- 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.

### 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.

### Abstracts:

Gurtz, Martin E., 1994, Biological Components of the National Water-Quality Assessment (NAWQA) Program, [abs.], in Sorenson, Stephen K., ed., 1994, Proceedings abstracts American Water Resources Association's symposium on the National Water-Quality Assessment Program--November 7-9, 1994, Chicago, Illinois: U.S. Geological Survey Open-File Report 94-397, p. 17.

## 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.

### 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.
- 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, Abstracts, 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.
- Choquette, A.F., Katz, B.G., Pendexter, W.S., and Orona, M.A., 1989, Delineation of factors related to the occurrence of 1,2-dibromoethane in ground water, central Florida, in Pederson, G.L., and Smith, M.N., compilers, U.S. Geological Survey Second National Symposium on Water Quality, Abstracts of the Technical Sessions, Orlando, Florida, November 12-17, 1989: U.S. Geological Survey Open-File Report 89-409, p.11
- 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.

- Helsel, Dennis R., 1994, Regional assessment of water quality: Breaking the scale barrier, [abs.]: Proceedings AWRA 1994 Annual Summer Symposium of the American Water Resources Association, Effects of human-induced change on hydrologic systems, June 26-29, 1994, Jackson Hole, Wyoming p. 999.
- Helsel, D.R., and Slack, J.R., 1992, Diamond in the rough: Enhancements to piper diagrams, [abs.]: American Geophysical Union, 1992 Fall Meeting, 157 p.
- 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.
- Katz, B.G., and Choquette, A.F., 1989, An interim assessment of regional and local factors affecting the occurrence, movement, and fate of 1,2-dibromoethane (EDB) in the subsurface, central Florida, in Mallard, G., and Ragone, S.E., eds., U.S. Geological Survey Toxic Substances Hydrology Program-- Proceedings of the Technical Meeting, Phoenix, Arizona, September 26-30, 1988: U.S. Geological Survey Water-Resources Investigations Report 88-4224, p. 637.
- Katz, B.G., Choquete, A.F., Pendexter, W.S., and Orona, M.A., 1989, Relations between the occurrence of 1,2-debromoethane in ground water and selected hydrogeologic, climatic, and land-use factors, central Florida, [abs.]: American Water Resources Association National Meeting, Tampa, Florida.
- Katz, B.G., Choquette, A.F., Orona, M.A., and Pendexter, W.S., 1990, Ethylene dibromide contamination in ground water and its implications for network design, in Games, M.D., compiler, American Association for the Advancement of Science Annual Meeting Abstracts of Papers, February 15-20, 1990: New Orleans, Louisiana, p. 30
- Katz, B.G., 1991, Persistence of a soil fumigant (1,2-dibromoethane) in ground water, Florida: A mass-balance approach: First USA/USSR Joint Conference on Environmental Hydrology and Hydrogeology, June, 1990, Leningrad, USSR.
- Katz, B.G., 1992, Modeling the transport and fate of 1,2-dibromoethane (EDB) in the subsurface, [abs.]: EOS, Transactions, American Geophysical Union, vol. 73, no. 14, Spring Meeting Supplement, p. 126.
- 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. Patrick, Ryan, Barbara J., and Johnson, A. Ivan, 1993, An Introduction to the U.S. Geological Survey's National Water-Quality Assessment Program, in Sorenson, Stephen K., ed., 1994, Proceedings abstracts American Water Resources Association's symposium on the National Water-Quality Assessment Program--November 7-9, 1994, Chicago, Illinois: U.S. Geological Survey Open-File Report 94-397, p. 1.
- 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.
- Short, Terry M., Goodbred, Steven L., Brown, Larry R., Lawrence, Stephen J., Munn, Mark D., Waite, Ian R., and Maret, Terry R., 1994, Occurrence of mercury in bed sediments and aquatic biota in western region NAWQA study units, [abs.], in Sorenson, Stephen K., ed., 1994, Proceedings abstracts American Water Resources Association's symposium on the National Water-Quality Assessment Program--November 7-9, 1994, Chicago, Illinois: U.S. Geological Survey Open-File Report 94-397, p. 17.
- Wilber, W.G., 1991, National Water-Quality Assessment Program, [abs.], in Bioindicators of rural nonpoint source pollution in Lake Erie tributaries: Measuring responses to improved management technologies, p. 61-64.
- Wilber, William G., and Leahy, P. Patrick, 1994, Overview of the National Water-Quality Assessment Program, [abs.], in Sorenson, Stephen K., ed., 1994, Proceedings abstracts American Water Resources Association's symposium on the National Water-Quality Assessment Program--November 7-9, 1994, Chicago, Illinois: U.S. Geological Survey Open-File Report 94-397, p. 2.

### 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.

### 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.

### 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.

- Environmental and Energy Study Institute (EESI), 1995, Identifying threats to water-quality, 6 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.