

**A COMPLETE LIST OF  
DIVISION OF WATER  
INFORMATION AND  
PUBLICATIONS**

**1997**

**Ohio Department of Natural Resources, Division of Water**

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COMPLETE LIST OF INFORMATION AND PUBLICATIONS

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## COMPLETE LIST OF INFORMATION AND PUBLICATIONS

# THE DIVISION OF WATER

The Division of Water has been charged under Ohio law with the wise stewardship of the state's water resources. This includes the collection and analysis of data concerning the availability and management of the water resources of Ohio. Such management consists of ensuring the safety of dams through their proper construction and periodic inspection; mapping and interpreting the state's surface and ground water resources; developing long range water plans to ensure adequate supply, protection, and use of water; and providing information and advice on flooding and floodplain management. To carry out its assigned tasks, the Division of Water has been organized into three sections. The following is a summary of the primary functions of each section.

### WATER ENGINEERING GROUP

The Water Engineering Group has responsibilities in three major areas: (1) permitting construction of new dams, dikes and levees, (2) inspection of existing structures, and (3) the hydraulic operation and maintenance of Ohio's historic canal system. The Columbus office of the Water Engineering Group can be reached at (614) 265-6731.

Ohio law requires that before building a dam, dike, or levee the owner must obtain a construction permit from the Division of Water. The intent of the law is to protect life, health, and property by ensuring that dams and spillways, dikes, and levees are properly designed and constructed. No permit is required for dams where: (1) the height is 6 feet or less regardless of total storage, (2) the height is less than 10 feet and total storage capacity is not more than 50 acre-feet, or (3) the storage is not more than 15 acre-feet regardless of height (heights are measured from the dam crest to the streambed at the downstream or outside toe of the dam and storage volume is calculated to the top of the dam). Certain other dams, dikes, and levees may be exempted by the Chief of the Division of Water. A permit may be required for modifying a dam, dike, or levee if the modification raises the level of the impounded water or the top of the dike or levee.

The section is also responsible for making periodic safety inspections of existing dams, dikes, and levees in Ohio. Ohio law requires that existing dams be inspected at least once every five years to ensure that they are properly maintained and that their continued operation and use does not pose a hazard to downstream life, health and property. The intent is to avoid catastrophic dam failures similar to those which have occurred in other states. There are over 2600 dams in Ohio subject to the inspection law, which requires that owners be notified of deficiencies in their dams and be given reasonable periods of time in which to make repairs. The Water Engineering Group works with the owners to implement recommendations of the reports. The law also requires that dam owners, except for political subdivisions, pay an annual fee based on the height and classification of their dam.

The maintenance and operation of the Miami & Erie and Ohio & Erie canal systems is another section responsibility. Field operations offices are located at Grand Lake State Park on the Miami & Erie Canal system and in the City of Akron on the Ohio & Erie Canal system. The canals and associated hydraulic structures are operated for water supply and flood control purposes. In Akron, the levels of the Portage Lakes, a system of seven lakes, are controlled in conjunction with the Ohio & Erie Canal.

The section also works with the Office of Chief Engineer, other divisions, and other state agencies in improving the safety of all state-owned dams. All federal and state inspection reports are on file in the office. A large inspection inventory of dams exists including most dams in the state over ten feet high.

## ODNR, DIVISION OF WATER

### **THE DIVISION OF WATER**--continued

#### **WATER RESOURCES SECTION**

The Water Resources Section collects, interprets and disseminates information regarding water resources in Ohio, including well logs and various ground water, water withdrawal, precipitation, and other hydrologic data. The section is responsible for maintaining the Division's cooperative agreements with the U.S. Geological Survey for stream gauging statewide. It conducts ground water mapping and related technical investigations, ground water conflict investigations, and related reports. The section can be reached at (614) 265-6740.

Ground water information is collected through interpretation of over 800,000 well logs which are on file, the most detailed source of ground water data for the state. The section responds to over 12,000 requests per year for well log data to assist state and local agencies, consulting companies, industries, drillers, and homeowners with ground water information needs. It maintains a network of ground water observation wells in 57 counties representing most of the major aquifer systems. Unpublished ground water information, in the form of test drilling and pumping data, theses, and dissertations, is also available.

Ground water data are collected and used in the production of both ground water resource and ground water pollution potential maps. Ground water resource maps provide information on available ground water supplies and aquifer characteristics. The ground water pollution potential mapping program, recently implemented to provide maps to state and local agencies, identifies areas of relative vulnerability to contamination. Both mapping programs are implemented on a county-wide basis at a scale of 1:62,500.

The state's Water Withdrawal Facility Registration law requires registration of all water withdrawal facilities in Ohio that have the capacity to withdraw more than 100,000 gallons per day. Annual reports are prepared describing the status of surface and ground water withdrawals by major use categories. Over 1,800 facilities are registered to date.

The Water Resources Section publishes two technical periodicals, the "Monthly Water Inventory Report" and "The Downhole View". Hydrologic data related to current weather conditions and past weather trends are disseminated in the "Monthly Water Inventory Report." It provides information on precipitation, streamflow, reservoir storage, Lake Erie levels, and ground water storage as related to water supply. "The Downhole View" is an informative, biannual newsletter distributed to the drilling industry in Ohio to provide technical information and related industry news.

#### **WATER PLANNING & MANAGEMENT SECTION**

The Water Planning & Management Section provides water planning and management assistance to communities and individuals. Primary emphasis is placed on floodplain management, coordination of the National Flood Insurance Program, public water supply planning, water leasing from canal lakes and other state-owned water supply allocations, stream management, and Lake Erie/Ohio River Basin boundary issues. The phone number for this section is (614) 265-6750.

The section is responsible for providing technical and planning assistance to local governments and private citizens in order to reduce flood losses in Ohio. This responsibility includes: (1) promoting floodplain management in Ohio; (2) developing and disseminating technical information to support floodplain management programs; (3) assisting

## COMPLETE LIST OF INFORMATION AND PUBLICATIONS

### **THE DIVISION OF WATER**--continued

#### **WATER PLANNING & MANAGEMENT SECTION**--continued

local units of government in establishing floodplain management programs; (4) coordinating the efforts of federal, state and local agencies involved in flood loss reduction programs in Ohio; and (5) assisting communities to become eligible for flood insurance.

The section prepares community, county-wide, and watershed area water supply analyses which serve to update the regional water plans which have been completed for the entire state. The water plans provide analysis for each community showing existing system capability, projected future needs, and alternative and recommended project solutions. The section provides contract administration for cooperative reservoir projects, including operation and maintenance and water sales. Contracts are executed for the leasing of water from ODNR-administered and certain Corps of Engineer reservoirs, and the state canal system. The section also provides technical assistance and coordinates permit requirements involving Lake Erie and Ohio River Basin diversions and consumptive water uses.

The section coordinates Division activities with regard to flood control, drainage, and stream management, cooperating with the US Army Corps of Engineers, the USDA Natural Resource Conservation Service, Ohio's Conservancy Districts, and local officials. Preparation and updating of water bulletins describing hydrologic characteristics and analysis of Ohio streams and drainage basins are part of the section's ongoing activities.

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## **ORGANIZATION OF THIS DIRECTORY**

This report is divided into two parts: Part One lists Division of Water publications according to subject, and Part Two lists them according to geographical area.

Part One, the subject listing, is divided into ten categories, including: (1) Dam Safety, (2) Floods & Floodplain Management, (3) General Hydrologic Information, (4) Ground Water, (5) Lake Erie, (6) Public Water Supply, (7) Surface Water, (8) Water Resources Inventories, (9) Water Rights & Institutions, and (10) Water Use & Conservation. Within these categories, publications are listed by type (i.e., brochures & booklets, fact sheets, water bulletins, etc.). Within each type, publications are ordered by publication number.

Part Two, the geographical listing, is divided into three categories, including: (1) County-Specific Publications, (2) Publications of Regional Interest, and (3) Publications of Statewide Interest. Within these categories, publications are listed by type (i.e., brochures & booklets, fact sheets, water bulletins, etc.). Within each type, publications are in order by publication number.

There is also an index by publication number at the end of the report. If the publication number of a report is known, the index can be consulted to determine on what page in the subject listing the publication can be found.

## HOW TO OBTAIN PUBLICATIONS

To order publications, including additional copies of this list, address your request to:

Ohio Department of Natural Resources, Division of Water  
1939 Fountain Square Court, Building E-3  
Columbus, Ohio 43224

In your request, be sure to include: (1) the title and publication number [if assigned] of each publication you are requesting, (2) the quantity of each publication you are requesting, (3) a cost summary reflecting the price or photocopying cost of each publication you are requesting, the total cost of the order, and the amount added to cover sales tax and shipping charges, (4) a check or money order for the correct amount made payable to "Ohio Department of Natural Resources, Division of Water". Orders which are to be delivered in Ohio (except to exempt institutions) are subject to a 5.75% state and local sales tax. This should be calculated on the total cost of the publications and/or photocopying costs (not including shipping charges). Shipping charges should be added to the cost of the order as follows:

If the total cost (not including sales tax) is

less than or equal to \$10.00	add \$ 2.50
more than \$10.00 and less than or equal to \$20.00	add \$ 3.75
more than \$20.00 and less than or equal to \$50.00	add \$ 6.00
more than \$50.00 and less than or equal to \$100.00	add \$ 8.50
more than \$100.00	add \$10.00

If the price or photocopying cost of a publication or unpublished report is not listed herein, please telephone the Division of Water at (614) 265-6717 to obtain the information. Please allow 2-3 weeks for delivery of orders made by mail. Orders may be picked up in person at the Division of Water so long as a prior appointment for this purpose has been made. Orders picked up in person are not subject to shipping charges.

All Division of Water publications and unpublished documents may be viewed at the offices of the Ohio Department of Natural Resources, Division of Water. Some publications may be available for loan through the State Library of Ohio.

## COMPLETE LIST OF INFORMATION AND PUBLICATIONS

# PART ONE: PUBLICATIONS LISTED BY SUBJECT

## DAM SAFETY

### BROCHURES & BOOKLETS

Dam Safety in Ohio, 1989; tri-fold; no charge.

Ohio Laws and Administrative Rules for Issuing Construction Permits for and Making Periodic Inspections of Dams, Dikes, and Levees, 1987; 17 pages; out of print; photocopies are \$4.25 plus sales tax and shipping charges.

### DAM SAFETY REPORTS

DSR 1. Operation, Maintenance and Inspection of Dams, by George E. Mills, 1983; 71 pages; out of print; photocopies are \$17.75 plus sales tax and shipping charges.

DSR 2. Suggested Procedures for Safety Inspections of Dams, by Joel A. Reed, 1987; 80 pages; prepared for and available from the Federal Emergency Management Agency, William Bivens, Project Development Branch.

### FACT SHEETS

FS 26. Dam Safety: Lake Drains (Definition, Types, Use, Maintenance), by Rodney Tornes, 1993; 2 pages; no charge for single photocopies, additional photocopies are \$.50 each plus sales tax and shipping charges.

## ODNR, DIVISION OF WATER

### **DAM SAFETY**--continued

#### **FACT SHEETS**--continued

- FS 27. Dam Safety: Rodent Control (Rodent damage to dams and control measures), by Beth Bailik, 1994; 2 pages; no charge for single photocopies, additional photocopies are \$.50 each plus sales tax and shipping charges.
- FS 28. Dam Safety: Trees and Brush (Damage to dams from trees and brush, proper maintenance), by Scot Hindall, 1994; 2 pages; no charge for single photocopies, additional photocopies are \$.50 each plus sales tax and shipping charges.
- FS 29. Dam Safety: Classification (Classification of dams in Ohio), by Beth Pratt, 1994; 2 pages; no charge for single photocopies, additional photocopies are \$.50 each plus sales tax and shipping charges.
- FS 30. Dam Safety: Failures (Causes of earthen dam failures), by Mark Ogden, 1994; 2 pages; no charge for single photocopies, additional photocopies are \$.50 each plus sales tax and shipping charges.
- FS 31. Dam Safety: Seepage (Detection, control, and monitoring of seepage through dams), by Mark Ogden, 1994; 2 pages; no charge for single photocopies, additional photocopies are \$.50 each plus sales tax and shipping charges.
- FS 32. Dam Safety: Concrete Repair Techniques (Techniques for repair of deteriorated concrete structures), by Rick Archer, 1994; 2 pages; no charge for single photocopies, additional photocopies are \$.50 each plus sales tax and shipping charges.
- FS 33. Dam Safety: Inspection of Concrete Structures (Inspection of concrete structures for dams), by Rick Archer, 1994; 2 pages; no charge for single photocopies, additional photocopies are \$.50 each plus sales tax and shipping charges.
- FS 34. Dam Safety: Construction Permits for Dams (What structures require permits and how to apply), by Rick Archer, 1994; 2 pages; no charge for single photocopies, additional photocopies are \$.50 each plus sales tax and shipping charges.
- FS 37. Dam Safety: Probable Maximum Flood (Estimate methodology and implications of floods on dam design), by Deidre Comrie, 1995; 2 pages; no charge for single photocopies, additional photocopies are \$.50 each plus sales tax and shipping charges.
- FS 38. Dam Safety: Design and Maintenance of Trashracks for Pipe and Riser Spillways (Trashrack design considerations for pipe and riser spillways), by Mike Krabacher, 1995; 2 pages; no charge for single photocopies, additional photocopies are \$.50 each plus sales tax and shipping charges.
- FS 39. Dam Safety: Annual Fee (Explanation of the dam safety annual fee requirements), by Deidre Comrie, 1996; 2 pages; no charge for single photocopies, additional photocopies are \$.50 each plus sales tax and shipping charges.

## **FLOODS & FLOODPLAIN MANAGEMENT**

## COMPLETE LIST OF INFORMATION AND PUBLICATIONS

### **BROCHURES & BOOKLETS**

Ohio Floodplain Regulation Criteria, Recommendations for Floodplain Management, revised by Diana L. Simms, 1988; 30 pages; out of print; photocopies are \$7.50 plus sales tax and shipping charges.

### **FACT SHEETS**

- FS 12. Floods and Flood Damage Prevention (Ohio flood history, regulatory goals, floodplain definitions), by Peter Finke, 1992; 2 pages; no charge for single photocopies, additional photocopies are \$.50 each plus sales tax and shipping charges.
- FS 13. Facts About Flood Insurance (National Flood Insurance Program benefits/participation), by Peter Finke, 1992; 2 pages; no charge for single photocopies, additional photocopies are \$.50 each plus sales tax and shipping charges.
- FS 21. How to Obtain Flood Maps (Producers, distributors, types of, IDs of, costs, how to pay), by Peter Finke, 1993; 2 pages; no charge for single photocopies, additional photocopies are \$.50 each plus sales tax and shipping charges.
- FS 40. Post-Disaster Floodplain Management (NFIP post-disaster floodplain regulations), by Chad Berginnis and Mike Gease, 1996; 2 pages; no charge for single photocopies, additional photocopies are \$.50 each plus sales tax and shipping charges.

### **FLOODPLAIN INFORMATION STUDIES**

- FPIS 1. Flood Plain Information Study for Baldwin Creek, Cities of Berea and Middleburg Heights, 1974; 28 pages; out of print; photocopies are \$7.00 plus sales tax and shipping charges.
- FPIS 2. Flood Plain Information Study Report for Hellbranch Run and Scioto Big Run, Franklin County, 1974; 10 pages; out of print; photocopies are \$2.50 plus sales tax and shipping charges.
- FPIS 3. Flood Plain Information Study for Lytle Creek, City of Wilmington and Vicinity, 1975; 22 pages; out of print; photocopies are \$5.50 plus sales tax and shipping charges.
- FPIS 4. Flood Plain Information Study for Big Run, Franklin County, 1975; 7 pages; out of print; photocopies are \$1.75 plus sales tax and shipping charges.
- FPIS 5. Flood Plain Information Study for Rocky Fork Creek and Tributaries, City of Gahanna, 1975; 28 pages; out of print; photocopies are \$7.00 plus sales tax and shipping charges.

## **FLOODS & FLOODPLAIN MANAGEMENT**--continued

### **FLOODPLAIN INFORMATION STUDIES**--continued

## ODNR, DIVISION OF WATER

- FPIS 6. Flood Plain Information Study for Sycamore Creek and Tributaries, Violet Township, Fairfield County, 1975; 28 pages; out of print; photocopies are \$7.00 plus sales tax and shipping charges.
- FPIS 7. Flood Plain Management Study, Indian Creek, Ross County, 1994; 47 pages, 2 figures, 2 tables, 3 exhibits, 2 maps, 1 appendix; out of print; photocopies are \$11.75 plus sales tax and shipping charges; maps cannot be photocopied.

### FLOOD PROFILE CHARTS

- FPC 1. Flood Profile of Big Walnut Creek from Junction with Scioto River to Hoover Reservoir, 1959 Flood; 1 sheet; \$4.00 plus sales tax and shipping charges.
- FPC 2. Flood Profile of Alum Creek from Junction with Big Walnut Creek to Delaware-Morrow County Line, 1959 Flood; 2 sheets; \$8.00 plus sales tax and shipping charges.
- FPC 3. Flood Profile of the Blanchard River from Ottawa, Ohio Through Findlay, Ohio to Outlet, 1959 Flood; 1 sheet; \$4.00 plus sales tax and shipping charges.
- FPC 4. Flood Profile of Eagle Creek, Lye Creek, The Outlet, and the Blanchard River at Findlay, Ohio, 1959 Flood; 1 sheet; \$4.00 plus sales tax and shipping charges.
- FPC 5. Flood Profile of the Licking River, North Fork Licking River, and Raccoon Creek from 5 Miles Above Outlet (Stadden Bridge) to State Route 157, 1959 Flood; 2 sheets; \$8.00 plus sales tax and shipping charges.
- FPC 6. Flood Profile of the St. Marys River from the Junction with Six Mile Creek to State Route 66, Beaver Creek from the Junction with the Wabash River to Lake St. Marys, and the Auglaize River from Wapakoneta, Ohio to Hengstler Road, 1959 Flood; 1 sheet; \$4.00 plus sales tax and shipping charges.
- FPC 7. Flood Profile of Buck Creek from the Junction with the Mad River, through Springfield, Ohio to County Road 236 in Champaign County, 1959 Flood; 1 sheet; \$4.00 plus sales tax and shipping charges.
- FPC 8. Flood Profile of the Mad River from the Junction with the Miami River to Zanesfield, Ohio, 1959 Flood; 2 sheets; \$8.00 plus sales tax and shipping charges.
- FPC 9. Flood Profile of the Kokosing River and the North Branch Kokosing River from Mt. Vernon, Ohio to County Road 68, and Dry Creek from the Junction with the Kokosing River to State Route 229, 1959 Flood; 2 sheets; \$8.00 plus sales tax and shipping charges.
- FPC 10. Flood Profile of Wolf Creek and Pigeon Creek, Barberton, Ohio Area, 1959 Flood; 1 sheet; \$4.00 plus sales tax and shipping charges.

## FLOODS & FLOODPLAIN MANAGEMENT--continued

### FLOOD PROFILE CHARTS--continued

- FPC 11. Flood Profile of the Tuscarawas River from U.S. 21 at Clinton, Ohio to Massillon Road, Barberton, Ohio, 1959 Flood; 1 sheet; \$4.00 plus sales tax and shipping charges.

## COMPLETE LIST OF INFORMATION AND PUBLICATIONS

- FPC 12. Flood Profile of Mill Creek and Mill Creek Tributaries from the Junction with the Scioto River to 6 Miles Above Marysville, Ohio, 1959 Flood; 2 sheets; \$8.00 plus sales tax and shipping charges.
- FPC 13. Flood Profile of Mill Creek, East Fork Mill Creek, and West Fork Mill Creek, Cincinnati, Ohio Area, and the Whitewater River from the Junction with the Miami River to 3 Miles Above the Ohio-Indiana State Line, 1959 Flood; 2 sheets; \$8.00 plus sales tax and shipping charges.
- FPC 14. Flood Profile of East Branch Nimishillen Creek, Nimishillen Creek, West Branch and Middle Branch Nimishillen Creek, Canton, Ohio Area, 1959 Flood; 2 sheets; \$8.00 plus sales tax and shipping charges.
- FPC 15. Flood Profile of the Kokosing River, Center Run, and Dry Creek, Mt. Vernon, Ohio Area, 1959 Flood; 2 sheets; \$8.00 plus sales tax and shipping charges.
- FPC 16. Flood Profile of the North and South Forks of the Licking River and Raccoon Creek, Newark, Ohio Area, 1959 Flood; 2 sheets; \$8.00 plus sales tax and shipping charges.
- FPC 17. Flood Profile of the Scioto River, Lucasville, Ohio to Columbus, Ohio, 1959 Flood; 4 sheets; \$16.00 plus sales tax and shipping charges.
- FPC 18. Flood Profile of the Scioto River, Columbus, Ohio Area, 1959 Flood; 1 sheet; \$4.00 plus sales tax and shipping charges.
- FPC 19. Flood Profile of the Olentangy River, Columbus, Ohio Area, Wilson Bridge Road to Mouth, 1959 Flood; 1 sheet; \$4.00 plus sales tax and shipping charges.
- FPC 20. Flood Profile of the Little Miami River, Milford, Ohio to Xenia, Ohio, 1959 Flood; 4 sheets; \$16.00 plus sales tax and shipping charges.
- FPC 21. Flood Profile of the East Fork Little Miami River, Milford, Ohio to Fayetteville, Ohio, 1959 Flood; 2 sheets; \$8.00 plus sales tax and shipping charges.
- FPC 22. Flood Profile of the Miami River, Ohio River to Russells Point, Ohio, 1959 Flood; 5 sheets; \$20.00 plus sales tax and shipping charges.
- FPC 23. Flood Profile of the Mahoning River, Youngstown, Ohio Area, 1959 Flood; 3 sheets; \$12.00 plus sales tax and shipping charges.
- FPC 24. Flood Profile of the Hocking River and Rush Creek, Athens and Logan, Ohio Area, 1963 and 1964 Floods; 2 sheets; \$8.00 plus sales tax and shipping charges.
- FPC 25. Flood Profile of the Chagrin River, Willoughby, Ohio Area, 1959 Flood; 1 sheet; \$4.00 plus sales tax and shipping charges.

## **FLOODS & FLOODPLAIN MANAGEMENT**--continued

### **FLOOD PROFILE CHARTS**--continued

- FPC 26. Flood Profile of the Cuyahoga River, Cleveland, Ohio Area, 1959 Flood; 1 sheet; \$4.00 plus sales tax and shipping charges.

## ODNR, DIVISION OF WATER

- FPC 27. Flood Profile of the Mohican River Upstream from Brinkhaven, Ohio, Black Fork, Muddy Fork, Jerome Fork, Leidigh Mill Creek, and Lang Creek, 1969 Flood; 4 sheets; \$16.00 plus sales tax and shipping charges.
- FPC 28. Flood Profile of Killbuck Creek North of Wooster, Ohio, Little Killbuck Creek, Salt Creek, North Branch Salt Creek, Doughty Creek, Buck's Run, Military Run, Apple Creek, Clear Creek, Camel Creek, and Little Apple Creek, 1969 Flood; 3 sheets; \$12.00 plus sales tax and shipping charges.
- FPC 29. Flood Profile of the East Branch Black River, Grafton, Ohio to Lodi, Ohio, West Fork East Branch Black River, 1969 Flood; 1 sheet; \$4.00 plus sales tax and shipping charges.
- FPC 30. Flood Profile of the East Branch Huron River, Cole Creek, West Branch Huron River, Tributary to East Branch Huron River, Tributary to Norwalk Creek, All South of Norwalk, Ohio, 1969 Flood; 1 sheet; \$4.00 plus sales tax and shipping charges.
- FPC 31. Flood Profile of Whetstone Creek, Mt. Gilead, 1989 Flood; 1 sheet, \$4.00 plus sales tax and shipping charges.

### **FLOOD INSURANCE STUDIES & FLOODPLAIN MANAGEMENT REPORTS**

Maps and studies identifying flood hazard areas can be viewed at the Division of Water office. The Federal Emergency Management Agency (FEMA) has completed maps and Flood Insurance Studies for over 710 Ohio communities, including all 88 counties, under the National Flood Insurance Program. Maps may be ordered from FEMA by calling 1-800-358-9616.

Other flood maps and studies have been completed by the U.S. Army Corps of Engineers and the USDA, Natural Resource Conservation Service. These studies can also be viewed at the Division of Water office.

### **WATER BULLETINS**

- WB 7. Floods In Ohio, Magnitude and Frequency, by William P. Cross, 1946; 154 pages, 44 tables, 46 figures; out of print; photocopies are \$38.50 plus sales tax and shipping charges.
- WB 9. The Flood of June 1946 in Wayne and Holmes Counties, by William P. Cross, 1947; 44 pages, 5 tables, 10 figures, 8 plates; out of print; photocopies are \$11.00 plus sales tax and shipping charges; some plates cannot be photocopied.

### **FLOODS & FLOODPLAIN MANAGEMENT--continued**

#### **WATER BULLETINS--continued**

- WB 14. Local Floods in Ohio During 1947, by William P. Cross, 1948; 66 pages, 29 tables, 31 figures, 7 plates; out of print; photocopies are \$16.50 plus sales tax and shipping charges; some plates cannot be photocopied.

## COMPLETE LIST OF INFORMATION AND PUBLICATIONS

- WB 18. Local Floods in Ohio During 1948, by William P. Cross, 1949; 47 pages, 11 tables, 17 figures, 8 plates; out of print; photocopies are \$11.75 plus sales tax and shipping charges; some plates cannot be photocopied.
- WB 32. Floods in Ohio, Magnitude and Frequency, by William P. Cross and Earl E. Webber, 1959; (same as WIR 4); 325 pages, 2 tables, 41 plates; out of print; photocopies are \$81.25 plus sales tax and shipping charges; some plates cannot be photocopied.
- WB 35. Floods of January-February 1959 in Ohio, Summary of Flood Stages and Discharges, by William P. Cross, 1961; 76 pages, 6 tables, 27 figures; out of print; photocopies are \$19.00 plus sales tax and shipping charges.
- WB 38. Floods in March 1963 in Ohio and the Flash Flood of June 1963 in the Vicinity of Cambridge, by William P. Cross, 1963; 82 pages, 9 tables, 23 plates; out of print; photocopies are \$20.50 plus sales tax and shipping charges; some plates cannot be photocopied.
- WB 39. Floods of March 1964 in Ohio, by William P. Cross, 1964; 58 pages, 7 tables, 16 plates; out of print; photocopies are \$14.50 plus sales tax and shipping charges; some plates cannot be photocopied.
- WB 43. Floods in Ohio, Magnitude and Frequency, A Supplement to Bulletin 32, by William P. Cross and R. I. Mayo, 1969; 230 pages, 3 tables, 5 plates; out of print; photocopies are \$57.50 plus sales tax and shipping charges; some plates cannot be photocopied.
- WB 45. Floods in Ohio, Magnitude and Frequency, by Earl E. Webber, 1977; 74 pages, 7 tables, 4 figures; out of print; photocopies are \$18.50 plus sales tax and shipping charges. Superseded by USGS publication: USGS Water Resources Investigation Report 89-4126, Techniques for Estimating Flood Peak Discharges of Rural Unregulated Streams in Ohio, available from the U.S. Geological Survey, which can be reached at (614) 469-5553.

### WATER INVENTORY REPORTS

- WIR 4. Floods in Ohio, Magnitude and Frequency, by William P. Cross and Earl E. Webber, 1959; (same as WB 32); 325 pages, 2 tables, 41 plates; out of print; photocopies are \$81.25 plus sales tax and shipping charges; some plates cannot be photocopied.
- WIR 5. Flood Control in Ohio, by Miles M. Dawson, 1959; 130 pages; out of print; photocopies are \$32.50 plus sales tax and shipping charges.

## FLOODS & FLOODPLAIN MANAGEMENT--continued

### WATER MISCELLANEOUS REPORTS

- WMR 3. The Crooksville Area Flood of June 16-17, 1950, by William P. Cross, 1950; 12 pages, 4 tables, 7 plates; out of print; photocopies are \$3.00 plus sales tax and shipping charges; some plates cannot be photocopied.
- WMR 5. Preliminary Report of Floods in Ohio, January 1959, February 1959, 1959; 125 pages, 11 tables, 18 figures; out of print; photocopies are \$31.25 plus sales tax and shipping charges.

## ODNR, DIVISION OF WATER

- WMR 6. Meteorology of Floods in Ohio, January 1959, February 1959, by Paul Kaser, 1959; 55 pages, 8 tables, 20 figures; out of print; photocopies are \$13.75 plus sales tax and shipping charges.
- WMR 16. Flood of July 23, 1965 in the Vicinity of Hillsboro, by William P. Cross, 1966; 10 pages, 2 tables, 4 plates; out of print; photocopies are \$2.50 plus sales tax and shipping charges.

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# GENERAL HYDROLOGIC INFORMATION

## FACT SHEETS

- FS 11. Precipitation in Ohio (Historic precipitation, data collection, dissemination), by David Cashell, 1992; 2 pages; no charge for single photocopies, additional photocopies are \$.50 each plus sales tax and shipping charges.
- FS 18. The Hydrologic Cycle (Earth's water movement through sea, land & air), by David Cashell, 1993; 2 pages; no charge for single photocopies, additional photocopies are \$.50 each plus sales tax and shipping charges.

## WATER BULLETINS

- WB 15. The Climatic Factors of Ohio's Water Resources, by Earl E. Sanderson, 1950; 427 pages, 19 tables, 77 plates; out of print; photocopies are \$106.75 plus sales tax and shipping charges; some plates cannot be photocopied.

## GENERAL HYDROLOGIC INFORMATION--continued

### WATER INVENTORY REPORTS

- WIR 13. Hydrologic Atlas of Average Annual Precipitation, Temperature, Streamflow, and Water Loss in Ohio, 1962; (superseded by WIR 28); 4 maps; out of print; cannot be photocopied.
- WIR 28. Hydrologic Atlas for Ohio, Average Annual Precipitation, Temperature, Streamflow, and Water Loss for the 50 Year Period 1931-1980, by Leonard J. Harstine, 1991; 13 pages, 4 plates; \$5.00 plus sales tax and shipping charges.

## COMPLETE LIST OF INFORMATION AND PUBLICATIONS

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### GROUND WATER

#### BROCHURES & BOOKLETS

1996 Ohio Directory of Drilling Contractors, by Katherine H. Sprowls, 1996; 49 pages; no charge.

Ground Water for Heating and Cooling, 1977; tri-fold; out of print; no charge for single photocopies, additional photocopies are \$.50 each plus sales tax and shipping charges.

State Ground Water Resources Map, 1978; 1 page; no charge.

#### FACT SHEETS

FS 3. Water Efficiency for Private Well Owners (Private well construction, management, and maintenance), by Rebecca Petty, 1992; 2 pages; no charge for single photocopies, additional photocopies are \$.50 each plus sales tax and shipping charges.

FS 5. Well Abandonment Regulations ODH and Ohio EPA (Well abandonment regulations), by Doug Barber, 1992; 2 pages; no charge for single photocopies, additional photocopies are \$.50 each plus sales tax and shipping charges.

FS 6. Properly Sealing Unused Wells (Well sealing benefits and methods) by Doug Barber, 1992; 2 pages; no charge for single photocopies, additional photocopies are \$.50 each plus sales tax and shipping charges.

### GROUND WATER--continued

#### FACT SHEETS--continued

FS 7. What Is a Well Screen? (Well screen defined, use, benefits, selection), by Bill Haiker, 1993; 2 pages; no charge for single photocopies, additional photocopies are \$.50 each plus sales tax and shipping charges.

FS 8. Well Log Computerization (Electronic storage & retrieval of well log data & images), by Rebecca Petty, 1992; 2 pages; no charge for single photocopies, additional photocopies are \$.50 each plus sales tax and shipping charges.

## ODNR, DIVISION OF WATER

- FS 9. Evaluating Ground Water Pollution Potential in Ohio (GWPP mapping program, methods, uses, status), by Rebecca Petty, 1992, revised 1994; 2 pages; no charge for single photocopies, additional photocopies are \$.50 each plus sales tax and shipping charges.
- FS 10. Ground Water Resources Mapping in Ohio (GWR mapping methods, uses, description of program, status), by Mike Hallfrisch, 1992, revised 1994; 2 pages; no charge for single photocopies, additional photocopies are \$.50 each plus sales tax and shipping charges.
- FS 14. Well Construction Materials and Techniques (Casing types, depth, regulations, geologic considerations), by Bill Haiker, 1992; 2 pages; no charge for single photocopies, additional photocopies are \$.50 each plus sales tax and shipping charges.
- FS 15. Before You Have a Well Drilled (Geologic, construction & contractor considerations), by Jim Raab, 1992; 2 pages; no charge for single photocopies, additional photocopies are \$.50 each plus sales tax and shipping charges.
- FS 16. How to Read Well Log and Drilling Reports (Detailed explanation of well log elements), by Tim Jackson, 1993; 2 pages; no charge for single photocopies, additional photocopies are \$.50 each plus sales tax and shipping charges.
- FS 17. Services of the Ground Water Resources Section (Description of publications and technical assistance), by Jim Raab, 1993; 2 pages; no charge for single photocopies, additional photocopies are \$.50 each plus sales tax and shipping charges.
- FS 19. Dry Driven Grout Method (Methods of grouting cable tool drilled wells), by B. Ulery, 1993; 2 pages; no charge for single photocopies, additional photocopies are \$.50 each plus sales tax and shipping charges.
- FS 20. Ground Water Level Monitoring in Ohio (Well network history, uses; annual cycles, influences on), by David Cashell, 1993; 2 pages; no charge for single photocopies, additional photocopies are \$.50 each plus sales tax and shipping charges.
- FS 23. When Does a Well Log Need to be Filed? (Well defined, types of wells, info required, laws, penalties), by Jim Raab, 1993; 2 pages; no charge for single photocopies, additional photocopies are \$.50 each plus sales tax and shipping charges.
- FS 24. What's Ground Water? (Terms defined, ground water occurrence, aquifer differences in Ohio), by Mike Hallfrisch, 1993; 2 pages; no charge for single photocopies, additional photocopies are \$.50 each plus sales tax and shipping charges.

## **GROUND WATER**--continued

### **FACT SHEETS**--continued

- FS 35. Low Yielding Wells (Household water needs & how to meet them with low-yield wells), by Jim Raab, 1995; 2 pages; no charge for single photocopies, additional photocopies are \$.50 each plus sales tax and shipping charges.

## COMPLETE LIST OF INFORMATION AND PUBLICATIONS

### COUNTY GROUND WATER POLLUTION POTENTIAL MAPS

- GWPP 1. Ground Water Pollution Potential of Madison County, Ohio, by Mike Hallfrisch and John Voytek, 1987; 1 map plus report; \$10.00 plus sales tax and shipping charges.
- GWPP 2. Ground Water Pollution Potential of Lorain County, Ohio, by Douglas J Barber, 1988; 1 map plus report; \$10.00 plus sales tax and shipping charges.
- GWPP 3. Ground Water Pollution Potential of Pickaway County, Ohio, by David J. Sugar, 1990; 1 map plus report; \$10.00 plus sales tax and shipping charges.
- GWPP 4. Ground Water Pollution Potential of Cuyahoga County, Ohio, by the Douglas J. Barber, 1994; 1 map plus report; \$10.00 plus sales tax and shipping charges.
- GWPP 5. Ground Water Pollution Potential of Mercer County, Ohio, by David J. Sugar, 1989; 1 map plus report; \$10.00 plus sales tax and shipping charges.
- GWPP 6. Ground Water Pollution Potential of Stark County, Ohio, by Steven Williams, 1991; 1 map plus report; \$10.00 plus sales tax and shipping charges.
- GWPP 7. Ground Water Pollution Potential of Hamilton County, Ohio, by the University of Cincinnati, 1989; 1 map plus report; \$10.00 plus sales tax and shipping charges.
- GWPP 8. Ground Water Pollution Potential of Lake County, Ohio, by Linda Aller and Karen Ballou, 1989; 1 map plus report; \$10.00 plus sales tax and shipping charges.
- GWPP 9. Ground Water Pollution Potential of Seneca County, Ohio, by Kelly C. Smith and John Voytek, 1994; 1 map plus report; \$10.00 plus sales tax and shipping charges.
- GWPP 10. Ground Water Pollution Potential of Ashtabula County, Ohio, by Linda Aller and Karen Ballou, 1991, 1 map plus report; \$10.00 plus sales tax and shipping charges.
- GWPP 12. Ground Water Pollution Potential of Geauga County, Ohio, by Linda Aller and Karen Ballou, 1994, 1 map plus report; \$10.00 plus sales tax and shipping charges.
- GWPP 13. Ground Water Pollution Potential of Medina County, Ohio, by Michael P. Angle, 1994, 1 map plus report; \$10.00 plus sales tax and shipping charges.
- GWPP 14. Ground Water Pollution Potential of Hancock County, Ohio, by Kelly C. Smith, 1994, 1 map plus report; \$10.00 plus sales tax and shipping charges.

### **GROUND WATER**--continued

#### COUNTY GROUND WATER POLLUTION POTENTIAL MAPS--continued

- GWPP 16. Ground Water Pollution Potential of Erie County, Ohio, by Kelly C. Smith, 1994, 1 map plus report; \$10.00 plus sales tax and shipping charges.
- GWPP 17. Ground Water Pollution Potential of Warren County, Ohio, by the Center for Ground Water Management and ODNR, Division of Water, 1992, 1 map plus report; \$10.00 plus sales tax and shipping charges.

## ODNR, DIVISION OF WATER

- GWPP 19. Ground Water Pollution Potential of Sandusky County, Ohio, by Michael P. Angle, 1991, 1 map plus report; \$10.00 plus sales tax and shipping charges.
- GWPP 20. Ground Water Pollution Potential of Ottawa County, Ohio, by Kelly C. Smith, 1994, 1 map plus report; \$10.00 plus sales tax and shipping charges.
- GWPP 21. Ground Water Pollution Potential of Ashtabula County, Ohio, by Kelly C. Smith and Thomas C. Sabol, 1994, 1 map plus report; \$10.00 plus sales tax and shipping charges.
- GWPP 22. Ground Water Pollution Potential of Portage County, Ohio, by Michael P. Angle, 1991, 1 map plus report; \$10.00 plus sales tax and shipping charges.
- GWPP 23. Ground Water Pollution Potential of Knox County, Ohio, by Linda Aller and Karen Ballou, 1991, 1 map plus report; \$10.00 plus sales tax and shipping charges.
- GWPP 24. Ground Water Pollution Potential of Ross County, Ohio, by Carrie L. Frederick, 1991, 1 map plus report; \$10.00 plus sales tax and shipping charges.
- GWPP 25. Ground Water Pollution Potential of Darke County, Ohio, by Paul Spahr, 1991, 1 map plus report; \$10.00 plus sales tax and shipping charges.
- GWPP 26. Ground Water Pollution Potential of Preble County, Ohio, by A. Wayne Jones, 1992, 1 map plus report; \$10.00 plus sales tax and shipping charges.
- GWPP 28. Ground Water Pollution Potential of Montgomery County, Ohio, by Mike Hallfrisch and Michael P. Angle, 1991, 1 map plus report; \$10.00 plus sales tax and shipping charges.
- GWPP 30. Ground Water Pollution Potential of Greene County, Ohio, by A. Wayne Jones, 1995, 1 map plus report; \$10.00 plus sales tax and shipping charges.
- GWPP 32. Ground Water Pollution Potential of Coshocton County, Ohio, by Paul Spahr, 1995, 1 map plus report; \$10.00 plus sales tax and shipping charges.
- GWPP 34. Ground Water Pollution Potential of Clinton County, Ohio, by James J. Schmidt, 1995, 1 map plus report; \$10.00 plus sales tax and shipping charges.
- GWPP 35. Ground Water Pollution Potential of Columbiana County, Ohio, by Michael P. Angle, 1994, 1 map plus report; \$10.00 plus sales tax and shipping charges.

## **GROUND WATER**--continued

### **COUNTY GROUND WATER POLLUTION POTENTIAL MAPS**--continued

- GWPP 36. Ground Water Pollution Potential of Logan County, Ohio, by Katherine M. Sprowls, 1995, 1 map plus report; \$10.00 plus sales tax and shipping charges.
- GWPP 38. Ground Water Pollution Potential of Clark County, Ohio, by Joel Vormelker, Michael P. Angle, and A. Wayne Jones, 1995, 1 map plus report; \$10.00 plus sales tax and shipping charges.
- GWPP 39. Ground Water Pollution Potential of Champaign County, Ohio, by A. Wayne Jones, 1995, 1 map plus report; \$10.00 plus sales tax and shipping charges.

## COMPLETE LIST OF INFORMATION AND PUBLICATIONS

- GWPP 40. Ground Water Pollution Potential of Franklin County, Ohio, by Michael P. Angle, 1995, 1 map plus report; \$10.00 plus sales tax and shipping charges.

### COUNTY GROUND WATER RESOURCE MAPS

- GWR 1. Ground Water Resources of Franklin County, by James J. Schmidt, 1958, revised in 1993; \$8.00 plus sales tax and shipping charges.
- GWR 2. Ground Water Resources of Columbiana County, by Katie Crowell, 1978, reprinted in 1993; 1 map; \$8.00 plus sales tax and shipping charges.
- GWR 3. Ground Water Resources of Geauga County, by Alfred C. Walker, 1978, reprinted in 1990; 1 map; \$8.00 plus sales tax and shipping charges.
- GWR 4. Ground Water Resources of Medina County, by James J. Schmidt, 1978; 1 map; out of print; map cannot be photocopied.
- GWR 5. Ground Water Resources of Ashtabula County, by Glenn W. Hartzell, 1978, reprinted in 1990; 1 map; \$8.00 plus sales tax and shipping charges.
- GWR 6. Ground Water Resources of Ashland County, by James J. Schmidt, 1979; 1 map; \$8.00 plus sales tax and shipping charges.
- GWR 7. Ground Water Resources of Cuyahoga County, by Katie Crowell, 1979, reprinted in 1992; 1 map; \$8.00 plus sales tax and shipping charges.
- GWR 8. Ground Water Resources of Delaware County, by James J. Schmidt, 1979, revised in 1994; 1 map; \$8.00 plus sales tax and shipping charges.
- GWR 9. Ground Water Resources of Holmes County, by Katie Crowell, 1979; 1 map; \$8.00 plus sales tax and shipping charges.
- GWR 10. Ground Water Resources of Lake County, by James J. Schmidt, 1979, revised in 1994; 1 map; \$8.00 plus sales tax and shipping charges.

### GROUND WATER--continued

#### COUNTY GROUND WATER RESOURCES MAPS--continued

- GWR 11. Ground Water Resources of Mahoning County, by Katie Crowell, 1979, revision in progress; 1 map; out of print; map cannot be photocopied.
- GWR 12. Ground Water Resources of Portage County, by Alfred C. Walker, 1979; 1 map; out of print; map cannot be photocopied.
- GWR 13. Ground Water Resources of Stark County, by Alfred C. Walker, 1979, reprinted 1988; 1 map; \$8.00 plus sales tax and shipping charges.

## ODNR, DIVISION OF WATER

- GWR 14. Ground Water Resources of Summit County, by James J. Schmidt, 1979, revised in 1994; 1 map; \$8.00 plus sales tax and shipping charges.
- GWR 15. Ground Water Resources of Trumbull County, by Katie Crowell, 1979, revised in 1994; 1 map; \$8.00 plus sales tax and shipping charges.
- GWR 16. Ground Water Resources of Wayne County, by Katie Crowell, 1979; 1 map; \$8.00 plus sales tax and shipping charges.
- GWR 17. Ground Water Resources of Marion County, by Katie Crowell, 1980; 1 map; \$8.00 plus sales tax and shipping charges.
- GWR 18. Ground Water Resources of Richland County, by James J. Schmidt, 1980, revised 1996; 1 map; \$8.00 plus sales tax and shipping charges.
- GWR 19. Ground Water Resources of Harrison County, by Katie Crowell, 1980; 1 map; \$8.00 plus sales tax and shipping charges.
- GWR 20. Ground Water Resources of Knox County, by James J. Schmidt, 1980; 1 map; out of print; map cannot be photocopied.
- GWR 21. Ground Water Resources of Lorain County, by Glenn W. Hartzell, 1980, reprinted in 1994; 1 map; \$8.00 plus sales tax and shipping charges.
- GWR 22. Ground Water Resources of Pickaway County, by James J. Schmidt, 1980, reprinted in 1991; 1 map; \$8.00 plus sales tax and shipping charges.
- GWR 23. Ground Water Resources of Ross County, by James J. Schmidt, 1980; 1 map; out of print; map cannot be photocopied.
- GWR 24. Ground Water Resources of Sandusky County, by James J. Schmidt, 1980; 1 map; \$8.00 plus sales tax and shipping charges.
- GWR 25. Ground Water Resources of Allen County, by Richard J. Kostelnick, 1981; 1 map; out of print; map cannot be photocopied.
- GWR 26. Ground Water Resources of Crawford County, by James J. Schmidt, 1981; 1 map; \$8.00 plus sales tax and shipping charges.

## **GROUND WATER**--continued

### **COUNTY GROUND WATER RESOURCES MAPS**--continued

- GWR 27. Ground Water Resources of Fairfield County, by James J. Schmidt, 1981, reprinted 1992; 1 map; \$8.00 plus sales tax and shipping charges.
- GWR 28. Ground Water Resources of Hancock County, by James J. Schmidt, 1981; 1 map; \$8.00 plus sales tax and shipping charges.
- GWR 29. Ground Water Resources of Morrow County, by Richard J. Kostelnick, 1981; 1 map; \$8.00 plus sales tax and shipping charges.

## COMPLETE LIST OF INFORMATION AND PUBLICATIONS

- GWR 30. Ground Water Resources of Clark County, by James J. Schmidt, 1982, revision in progress; 1 map; out of print; map cannot be photocopied.
- GWR 31. Ground Water Resources of Defiance County, by James J. Schmidt, 1982; 1 map; \$8.00 plus sales tax and shipping charges.
- GWR 32. Ground Water Resources of Henry County, by James J. Schmidt, 1982; 1 map; \$8.00 plus sales tax and shipping charges.
- GWR 33. Ground Water Resources of Licking County, Glenn W. Hartzell, 1982, reprinted in 1992; 1 map; \$8.00 plus sales tax and shipping charges.
- GWR 34. Ground Water Resources of Mercer County, by Richard J. Kostelnick, 1982; 1 map; \$8.00 plus sales tax and shipping charges.
- GWR 35. Ground Water Resources of Seneca County, by James J. Schmidt, 1982; 1 map; \$8.00 plus sales tax and shipping charges.
- GWR 36. Ground Water Resources of Van Wert County, by James J. Schmidt, 1982; 1 map; \$8.00 plus sales tax and shipping charges.
- GWR 37. Ground Water Resources of Hardin County, by James J. Schmidt, 1983; 1 map; \$8.00 plus sales tax and shipping charges.
- GWR 38. Ground Water Resources of Auglaize County, by Richard J. Kostelnick, 1983; 1 map; \$8.00 plus sales tax and shipping charges.
- GWR 39. Ground Water Resources of Logan County, by James J. Schmidt, 1983; 1 map; \$8.00 plus sales tax and shipping charges.
- GWR 40. Ground Water Resources of Shelby County, by Richard J. Kostelnick, 1983; 1 map; \$8.00 plus sales tax and shipping charges.
- GWR 41. Ground Water Resources of Wyandot County, by James J. Schmidt, 1983; 1 map; \$8.00 plus sales tax and shipping charges.
- GWR 42. Ground Water Resources of Miami County, by James J. Schmidt, 1984; 1 map; \$8.00 plus sales tax and shipping charges.

### **GROUND WATER**--continued

#### **COUNTY GROUND WATER RESOURCES MAPS**--continued

- GWR 43. Ground Water Resources of Morgan and Washington Counties, by Alfred C. Walker, 1984; 1 map; \$8.00 plus sales tax and shipping charges.
- GWR 44. Ground Water Resources of Athens and Meigs Counties, by James J. Schmidt, 1985; 1 map; \$8.00 plus sales tax and shipping charges.
- GWR 45. Ground Water Resources of Champaign County, by James J. Schmidt, 1985; 1 map; \$8.00 plus sales tax and shipping charges.

## ODNR, DIVISION OF WATER

- GWR 46. Ground Water Resources of Gallia and Lawrence Counties, by James J. Schmidt, 1985; 1 map; \$8.00 plus sales tax and shipping charges.
- GWR 47. Ground Water Resources of Jackson and Vinton Counties, by Alfred C. Walker, 1985; 1 map; \$8.00 plus sales tax and shipping charges.
- GWR 48. Ground Water Resources of Butler County, by James J. Schmidt, 1986, reprinted in 1993; 1 map; \$8.00 plus sales tax and shipping charges.
- GWR 49. Ground Water Resources of Clermont County, by Alfred C. Walker, 1986; 1 map; \$8.00 plus sales tax and shipping charges.
- GWR 50. Ground Water Resources of Erie County, by Alfred C. Walker, 1986; 1 map; \$8.00 plus sales tax and shipping charges.
- GWR 51. Ground Water Resources of Hamilton County, by Alfred C. Walker, 1986; 1 map; out of print; map cannot be photocopied.
- GWR 52. Ground Water Resources of Huron County, by Glenn W. Hartzell, 1986; 1 map; \$8.00 plus sales tax and shipping charges.
- GWR 53. Ground Water Resources of Lucas County, by Mike Hallfrisch, 1986; 1 map; \$8.00 plus sales tax and shipping charges.
- GWR 54. Ground Water Resources of Montgomery County, by James J. Schmidt, 1986, reprinted in 1994; \$8.00 plus sales tax and shipping charges.
- GWR 55. Ground Water Resources of Ottawa County, by James J. Schmidt, 1986; 1 map; \$8.00 plus sales tax and shipping charges.
- GWR 56. Ground Water Resources of Paulding County, by James M. Raab, 1986; 1 map; \$8.00 plus sales tax and shipping charges.
- GWR 57. Ground Water Resources of Preble County, by Alfred C. Walker, 1986; 1 map; \$8.00 plus sales tax and shipping charges.
- GWR 58. Ground Water Resources of Warren County, by Alfred C. Walker, 1986; 1 map; out of print; map cannot be photocopied.

## **GROUND WATER**--continued

### **COUNTY GROUND WATER RESOURCES MAPS**--continued

- GWR 59. Ground Water Resources of Wood County, by Mike Hallfrisch, 1986; 1 map; \$8.00 plus sales tax and shipping charges.
- GWR 60. Ground Water Resources of Union County, by James J. Schmidt, 1987; 1 map; \$8.00 plus sales tax and shipping charges.
- GWR 61. Ground Water Resources of Coshocton County, by David J. Sugar, 1988; 1 map; \$8.00 plus sales tax and shipping charges.

## COMPLETE LIST OF INFORMATION AND PUBLICATIONS

- GWR 62. Ground Water Resources of Adams County, by James M. Raab, 1989; 1 map; \$8.00 plus sales tax and shipping charges.
- GWR 63. Ground Water Resources of Brown County, by David J. Sugar, 1989; 1 map; \$8.00 plus sales tax and shipping charges.
- GWR 64. Ground Water Resources of Pike County, by James M. Raab, 1989; 1 map; \$8.00 plus sales tax and shipping charges.
- GWR 65. Ground Water Resources of Scioto County, by James M. Raab, 1989; 1 map; \$8.00 plus sales tax and shipping charges.
- GWR 66. Ground Water Resources of Tuscarawas County, by Douglas J. Barber, 1989; 1 map; \$8.00 plus sales tax and shipping charges.
- GWR 67. Ground Water Resources of Fayette County, by James J. Schmidt, 1990; 1 map; \$8.00 plus sales tax and shipping charges.
- GWR 68. Ground Water Resources of Jefferson County, by Alfred C. Walker, 1990; 1 map; \$8.00 plus sales tax and shipping charges.
- GWR 69. Ground Water Resources of Belmont and Guernsey Counties, by Alfred C. Walker, 1991; 1 map; \$8.00 plus sales tax and shipping charges.
- GWR 70. Ground Water Resources of Carroll County, by Alfred C. Walker, 1991; 1 map; \$8.00 plus sales tax and shipping charges.
- GWR 71. Ground Water Resources of Fulton County, by Alfred C. Walker, 1991; 1 map; \$8.00 plus sales tax and shipping charges.
- GWR 72. Ground Water Resources of Greene County, by James J. Schmidt, 1991; 1 map; \$8.00 plus sales tax and shipping charges.
- GWR 73. Ground Water Resources of Highland County, by James J. Schmidt, 1991; 1 map; \$8.00 plus sales tax and shipping charges.
- GWR 74. Ground Water Resources of Hocking County, by Alfred C. Walker, 1991; 1 map; \$8.00 plus sales tax and shipping charges.

### **GROUND WATER**--continued

#### **COUNTY GROUND WATER RESOURCES MAPS**--continued

- GWR 75. Ground Water Resources of Monroe and Noble Counties, by Alfred C. Walker, 1991; 1 map; \$8.00 plus sales tax and shipping charges.
- GWR 76. Ground Water Resources of Putnam County, by Donald E. Calhoun III, 1991; 1 map; \$8.00 plus sales tax and shipping charges.
- GWR 77. Ground Water Resources of Muskingum County, by Alfred C. Walker, 1992; 1 map; \$8.00 plus sales tax and shipping charges.

## ODNR, DIVISION OF WATER

- GWR 78. Ground Water Resources of Darke County, by James M. Raab, 1993; 1 map; \$8.00 plus sales tax and shipping charges.
- GWR 79. Ground Water Resources of Madison County, by Mike Hallfrisch, 1994; 1 map; \$8.00 plus sales tax and shipping charges.
- GWR 80. Ground Water Resources of Clinton County, by James J. Schmidt, 1994; 1 map; \$8.00 plus sales tax and shipping charges.
- GWR 81. Ground Water Resources of Williams County, by William C. Haiker, 1996; 1 map; \$8.00 plus sales tax and shipping charges.
- GWR 82. Ground Water Resources of Perry County, by Paul N. Spahr, 1996; 1 map; \$8.00 plus sales tax and shipping charges.

### **RIVER BASIN GROUND WATER RESOURCE MAPS**

- A- 1. St. Marys River Basin Underground Water Resources, by Alfred C. Walker, 1959; 1 map with accompanying text on back; no charge.
- A- 2. Little Auglaize River Basin Underground Water Resources, by Alfred C. Walker, 1959; 1 map with accompanying text on back; no charge.
- A- 3. Upper Auglaize River Basin Underground Water Resources, by Alfred C. Walker, 1959; 1 map with accompanying text on back; no charge.
- A- 4. Ottawa River Basin Underground Water Resources, by Alfred C. Walker, 1959; 1 map with accompanying text on back; no charge.
- A- 5. Blanchard River Basin (Lower Portion) Underground Water Resources, by Alfred C. Walker, 1959; 1 map with accompanying text on back; no charge.
- A- 6. Blanchard River Basin (Upper Portion) Underground Water Resources, by Alfred C. Walker, 1959; 1 map with accompanying text on back; no charge.

## **GROUND WATER**--continued

### **RIVER BASIN GROUND WATER RESOURCES MAPS**--continued

- A- 7. Upper Maumee and Lower Auglaize River Basins Underground Water Resources, by Alfred C. Walker, 1959; 1 map with accompanying text on back; out of print; map cannot be photocopied.
- A- 8. Tiffin River Basin Underground Water Resources, by Alfred C. Walker, 1959; 1 map with accompanying text on back; no charge.
- A- 9. St. Joseph River Basin Underground Water Resources, by Alfred C. Walker, 1959; 1 map with accompanying text on back; no charge.

## COMPLETE LIST OF INFORMATION AND PUBLICATIONS

- A-10. Maumee River Basin (Middle Portion) Underground Water Resources, by Alfred C. Walker, 1959; 1 map with accompanying text on back; no charge.
- A-11. Maumee River Basin (Part Lower Portion) Underground Water Resources, by Alfred C. Walker, 1959; 1 map with accompanying text on back; no charge.
- A-12. Maumee River (Lower Portion) and Tencile Creek Basins Underground Water Resources, by Alfred C. Walker, 1959; 1 map with accompanying text on back; out of print; map cannot be photocopied.
- B- 1. Upper Portage River Basin Underground Water Resources, by Russell B. Stein, 1962; 1 map with accompanying text on back; no charge.
- B- 2. Lower Portage River and Muddy Creek Basins Underground Water Resources, by Russell B. Stein, 1962; 1 map with accompanying text on back; no charge.
- B- 3. Toussaint Creek Basin and Adjacent Lake Erie Tributaries Underground Water Resources, by Russell B. Stein, 1962; 1 map with accompanying text on back; no charge.
- C- 1. Tymochtee Creek Basin Underground Water Resources, by Russell B. Stein, 1962; 1 map with accompanying text on back; no charge.
- C- 2. Sandusky River Basin (Upper Portion) Underground Water Resources, by Russell B. Stein, 1962; 1 map with accompanying text on back; no charge.
- C- 3. Sandusky River Basin (Middle Portion) Underground Water Resources, by Russell B. Stein, 1962; 1 map with accompanying text on back; no charge.
- C- 4. Sandusky River Basin (Lower Portion) Underground Water Resources, by Russell B. Stein, 1962; 1 map with accompanying text on back; no charge.
- D- 1. Pickereel Creek-Pipe Creek Area and Adjacent Lake Erie Tributaries Underground Water Resources, by Alfred C. Walker, 1962; 1 map with accompanying text on back; out of print; map cannot be photocopied.
- D- 2. Huron River Basin Underground Water Resources, by Russell B. Stein, 1962; 1 map with accompanying text on back; no charge.
- D- 3. Vermilion River Basin and Adjacent Lake Erie Tributaries Underground Water Resources, by Russell B. Stein, 1962; 1 map with accompanying text on back; no charge.

## **GROUND WATER**--continued

### **RIVER BASIN GROUND WATER RESOURCES MAPS**--continued

- D- 4. Black River Basin Underground Water Resources, by Henry L. Pree, 1962; 1 map with accompanying text on back; no charge.
- D- 5. Rocky River Basin Underground Water Resources, by Henry L. Pree, 1962; 1 map with accompanying text on back; no charge.
- E- 1. Upper Cuyahoga River Basin Underground Water Resources, by Alfred C. Walker, 1962; 1 map with accompanying text on back; no charge.

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- E- 2. Lower Cuyahoga River Basin and Adjacent Lake Erie Tributaries Underground Water Resources, by Alfred C. Walker, 1962; 1 map with accompanying text on back; no charge.
- E- 3. Chagrin River Basin Underground Water Resources, by Alfred C. Walker, 1962; 1 map with accompanying text on back; out of print; map cannot be photocopied.
- F- 1. Grand River Basin (Upper Portion) Underground Water Resources, by Henry L. Pree, 1960; 1 map with accompanying text on back; no charge.
- F- 2. Grand River Basin (Lower Portion) Underground Water Resources, Henry L. Pree, 1960; 1 map with accompanying text on back; out of print; map cannot be photocopied.
- F- 3. Ashtabula River and Conneaut Creek Basins and Adjacent Lake Erie Tributaries Underground Water Resources, by Henry L. Pree, 1960; 1 map with accompanying text on back; out of print; map cannot be photocopied.
- G . Wabash River Basin Underground Water Resources, by Alfred C. Walker, 1961; 1 map with accompanying text on back; no charge.
- H- 1. Upper Miami River Basin Underground Water Resources, by Alfred C. Walker, 1960; 1 map with accompanying text on back; out of print; map cannot be photocopied.
- H- 2. A Portion of the Little Miami River Basin (Loramie and Mosquito Creek Area) Underground Water Resources, by Alfred C. Walker, 1960; 1 map with accompanying text on back; out of print; map cannot be photocopied.
- H- 3. Upper Mad River Basin Underground Water Resources, by Alfred C. Walker, 1960; 1 map with accompanying text on back; out of print; map cannot be photocopied.
- H-4,5. Miami River Basin (Part of Middle Portion) and Lower Mad River Basin Underground Water Resources, by Alfred C. Walker, 1960; 1 map with accompanying text on back; no charge.
- H-6,7. Stillwater River Basin Underground Water Resources, by Alfred C. Walker, 1960; 1 map with accompanying text on back; out of print; map cannot be photocopied.
- H- 8, 11A. Twin Creek Basin and Ohio Portion of East Fork of Whitewater River Basin Underground Water Resources, by Alfred C. Walker, 1961; 1 map with accompanying text on back; no charge.

## **GROUND WATER**--continued

### **RIVER BASIN GROUND WATER RESOURCES MAPS**--continued

- H- 9. Miami River Basin (Lower Part of Middle Portion) Underground Water Resources, by Alfred C. Walker, 1960; 1 map with accompanying text on back; out of print; map cannot be photocopied.
- H-10. Fourmile Creek Basin Underground Water Resources, by Alfred C. Walker, 1961; 1 map with accompanying text on back; out of print; map cannot be photocopied.
- H-11. Lower Miami River Basin Underground Water Resources, by Alfred C. Walker, 1960; 1 map with accompanying text on back; no charge.

## COMPLETE LIST OF INFORMATION AND PUBLICATIONS

- J . Mill Creek Basin and Adjacent Ohio River Tributaries Underground Water Resources, by James J. Schmidt, 1959; 1 map with accompanying text on back; no charge.
- K- 1. Upper Little Miami River Basin Underground Water Resources, by Alfred C. Walker, 1960; 1 map with accompanying text on back; out of print; map cannot be photocopied.
- K- 2. Caesar Creek Basin Underground Water Resources, by Alfred C. Walker, 1960; 1 map with accompanying text on back; out of print; map cannot be photocopied.
- K- 3. Todd Fork Basin Underground Water Resources, by Alfred C. Walker, 1960; 1 map with accompanying text on back; out of print; map cannot be photocopied.
- K- 4. East Fork Little Miami River Basin Underground Water Resources, by Alfred C. Walker, 1960; 1 map with accompanying text on back; out of print; map cannot be photocopied.
- K- 5. A Portion of the Lower Little Miami River Basin Underground Water Resources, by Alfred C. Walker, 1960; 1 map with accompanying text on back; out of print; map cannot be photocopied.
- K- 6. Indian Creek Basin Underground Water Resources, by Alfred C. Walker, 1960; 1 map with accompanying text on back; out of print; map cannot be photocopied.
- L- 1. Whiteoak Creek Basin Underground Water Resources, by Henry L. Pree, 1960; 1 map with accompanying text on back; no charge.
- L- 2. Ohio Brush Creek Basin Underground Water Resources, by Henry L. Pree, 1960; 1 map with accompanying text on back; no charge.
- L- 3. Eagle and Straight Creek Basins Underground Water Resources, by Henry L. Pree, 1960; 1 map with accompanying text on back; no charge.
- M- 1. Scioto River Basin (Part Upper Portion) Underground Water Resources, by James J. Schmidt, 1960; 1 map with accompanying text on back; no charge.
- M- 2. Scioto River Basin (Part Upper Portion) Underground Water Resources, by James J. Schmidt, 1960; 1 map with accompanying text on back; out of print; map cannot be photocopied.
- M- 3. Olentangy River Basin Underground Water Resources, by James J. Schmidt, 1960; 1 map with accompanying text on back; out of print; map cannot be photocopied.

### **GROUND WATER**--continued

#### **RIVER BASIN GROUND WATER RESOURCES MAPS**--continued

- M- 4. Big Walnut Creek Basin Underground Water Resources, by James J. Schmidt, 1960; 1 map with accompanying text on back; no charge.
- M- 5. Mill Creek Basin and a Portion of the Middle Scioto River Basin Underground Water Resources, by James J. Schmidt, 1960; 1 map with accompanying text on back; out of print; map cannot be photocopied.
- M- 6. Upper Darby Creek Basin Underground Water Resources, by James J. Schmidt, 1960; 1 map with accompanying text on back; out of print; map cannot be photocopied.

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- M- 7. Deer Creek Basin Underground Water Resources, by James J. Schmidt, 1961; 1 map with accompanying text on back; out of print; map cannot be photocopied.
- M- 8. Scioto River Basin (Middle Portion) Underground Water Resources, by James J. Schmidt, 1961; 1 map with accompanying text on back; out of print; map cannot be photocopied.
- M- 9. Walnut Creek Basin Underground Water Resources, by James J. Schmidt, 1961; 1 map with accompanying text on back; out of print; map cannot be photocopied.
- M-10. Salt Creek Basin Underground Water Resources, by James J. Schmidt, 1961; 1 map with accompanying text on back; out of print; map cannot be photocopied.
- M-11. Scioto River Basin (Lower Portion) Underground Water Resources, by James J. Schmidt, 1961; 1 map with accompanying text on back; out of print; map cannot be photocopied.
- M-12. Lower Paint Creek Basin Underground Water Resources, by James J. Schmidt, 1961; 1 map with accompanying text on back; no charge.
- M-13, 14. Upper Paint Creek Basin Underground Water Resources, by James J. Schmidt, 1962; 1 map with accompanying text on back; out of print; map cannot be photocopied.
- M-15. Scioto River Basin (Lower Portion) Underground Water Resources, by James J. Schmidt, 1962; 1 map with accompanying text on back; out of print; map cannot be photocopied.
- M-16. Little Salt Creek Basin Underground Water Resources, by James J. Schmidt, 1962; 1 map with accompanying text on back; no charge.
- M-17. Scioto Brush Creek Basin and Adjacent Ohio River Tributaries Underground Water Resources, by James J. Schmidt, 1962; 1 map with accompanying text on back; no charge.
- N- 1. Upper Raccoon Creek Basin Underground Water Resources, by Henry L. Pree, 1962; 1 map with accompanying text on back; no charge.
- N- 2. Lower Raccoon Creek Basin Underground Water Resources, by Henry L. Pree, 1962; 1 map with accompanying text on back; no charge.
- N-3,5. Symmes Creek, Ice Creek, and Indian Guyan Creek Basins and Adjacent Lake Erie Tributaries Underground Water Resources, by Henry L. Pree, 1962; 1 map with accompanying text on back; no charge.

## **GROUND WATER**--continued

### **RIVER BASIN GROUND WATER RESOURCES MAPS**--continued

- N- 4. Little Scioto River and Pine Creek Basins and Adjacent Ohio River Tributaries Underground Water Resources, by Henry L. Pree, 1962; 1 map with accompanying text on back; no charge.
- O- 1. Hocking River Basin (Upper Portion) Underground Water Resources, by Alfred C. Walker, 1958; 1 map with accompanying text on back; out of print; map cannot be photocopied.
- O- 2. Hocking River Basin (Middle Portion) Underground Water Resources, by Alfred C. Walker, 1958; 1 map with accompanying text on back; no charge.

## COMPLETE LIST OF INFORMATION AND PUBLICATIONS

- O- 3. Hocking River Basin (Lower Portion) Underground Water Resources, by Alfred C. Walker, 1958; 1 map with accompanying text on back; no charge.
- O- 4. Shade River and Leading Creek Basins Underground Water Resources, by Alfred C. Walker, 1958; 1 map with accompanying text on back; no charge.
- P- 1. Black and Clear Fork Basins Underground Water Resources, by Henry L. Pree, 1962; 1 map with accompanying text on back; out of print; map cannot be photocopied.
- P- 2. Lower Mohican River Basin Underground Water Resources, by Henry L. Pree, 1962; 1 map with accompanying text on back; no charge.
- P- 3. Upper Killbuck Creek Basin Underground Water Resources, by Henry L. Pree, 1962; 1 map with accompanying text on back; no charge.
- P- 4. A Part of the Walhonding River Basin Underground Water Resources, by Henry L. Pree, 1962; 1 map with accompanying text on back; no charge.
- P- 5. Middle Tuscarawas River and Sugar Creek Basins Underground Water Resources, by James J. Schmidt, 1962; 1 map with accompanying text on back; out of print; map cannot be photocopied.
- P- 6. Tuscarawas River Basin (Upper Portion) Underground Water Resources, by Alfred C. Walker, 1959; 1 map with accompanying text on back; out of print; map cannot be photocopied.
- P- 7. Sandy Creek Basin Underground Water Resources, by Henry L. Pree, 1962; 1 map with accompanying text on back; no charge.
- P- 8. Conotton Creek Basin Underground Water Resources, by James J. Schmidt, 1962; 1 map with accompanying text on back; no charge.
- P- 9. Stillwater Creek Basin Underground Water Resources, by Alfred C. Walker, 1962; 1 map with accompanying text on back; no charge.
- P-10. A Part of the Lower Portion Tuscarawas River Basin Underground Water Resources, by Alfred C. Walker, 1962; 1 map with accompanying text on back; no charge.
- P-11. A Part of the Upper Portion Muskingum River Basin Underground Water Resources, by James J. Schmidt, 1962; 1 map with accompanying text on back; no charge.

### **GROUND WATER**--continued

#### **RIVER BASIN GROUND WATER RESOURCES MAPS**--continued

- P-12. Kokosing River Basin Underground Water Resources, by Henry L. Pree, 1962; 1 map with accompanying text on back; no charge.
- P-13. A Portion of the Licking River Basin Underground Water Resources, by James J. Schmidt, 1962; 1 map with accompanying text on back; out of print; map cannot be photocopied.
- P-14. South Fork Licking River Basin Underground Water Resources, by James J. Schmidt, 1962; 1 map with accompanying text on back; out of print; map cannot be photocopied.

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- P-15. Moxahala Creek Basin Underground Water Resources, by Alfred C. Walker, 1962; 1 map with accompanying text on back; no charge.
- P-16. A Portion of the Middle Muskingum River Basin Underground Water Resources, by Alfred C. Walker, 1962; 1 map with accompanying text on back; no charge.
- P-17. Lower Wills Creek Basin Underground Water Resources, by Alfred C. Walker, 1962; 1 map with accompanying text on back; out of print; map cannot be photocopied.
- P-18. Upper Wills Creek Basin Underground Water Resources, by Alfred C. Walker, 1962; 1 map with accompanying text on back; no charge.
- P-19. Lower Portion of the Muskingum River Basin and Adjacent Ohio River Tributaries Underground Water Resources, by Alfred C. Walker, 1962; 1 map with accompanying text on back; no charge.
- R-1,2. Little Muskingum River and Duck Creek Basins Underground Water Resources, by James J. Schmidt, 1959; 1 map with accompanying text on back; no charge.
- S- 1. Little Beaver Creek Basin and Adjacent Ohio River Tributaries Underground Water Resources, by James J. Schmidt, 1959; 1 map with accompanying text on back; no charge.
- S- 2. Yellow Creek, Cross Creek, and McIntyre Creek Basins Underground Water Resources, by James J. Schmidt, 1959; 1 map with accompanying text on back; no charge.
- S- 3. Short Creek and Wheeling Creek Basins Underground Water Resources, by James J. Schmidt, 1959; 1 map with accompanying text on back; no charge.
- S- 4. McMahon Creek, Captina Creek, and Sunfish Creek Basins Underground Water Resources, by James J. Schmidt, 1959; 1 map with accompanying text on back; no charge.
- T- 1. Mahoning River Basin (Upper Portion) Underground Water Resources, by James W. Cummins, 1960; 1 map with accompanying text on back; out of print; map cannot be photocopied.
- T- 2. Mahoning River Basin (Middle Portion) Underground Water Resources, by James W. Cummins, 1960; 1 map with accompanying text on back; no charge.
- T- 3. Mahoning River Basin (Lower Portion) Underground Water Resources, by James W. Cummins, 1960; 1 map with accompanying text on back; out of print; map cannot be photocopied.

## **GROUND WATER**--continued

### **RIVER BASIN GROUND WATER RESOURCES MAPS**--continued

- T- 4. Pymatuning Creek and Yankee Creek Basins Underground Water Resources, by James W. Cummins, 1960; 1 map with accompanying text on back; no charge.

## **NON-POINT SOURCE POLLUTION REPORTS**