Water Resources Data for Ohio

Volume 3. Coal Areas

U.S. GEOLOGICAL SURVEY WATER-DATA REPORT OH-79-3

WATER YEAR 1979

CALENDAR FOR WATER YEAR 1979

1978

OCTOBER

S	M	T	W	T	F	S
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1979

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AUGUST

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SEPTEMBER

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Water Resources Data for Ohio

Volume 3. Coal Areas

U.S. GEOLOGICAL SURVEY WATER-DATA REPORT OH-79-3

WATER YEAR 1979

UNITED STATES DEPARTMENT OF THE INTERIOR

CECIL D. ANDRUS, Secretary

GEOLOGICAL SURVEY

H. William Menard, Director

For information on the water program in Ohio write to
District Chief, Water Resources Division
U.S. Geological Survey
975 West Third Avenue
Columbus, Ohio 43212

1980

PREFACE

This report was prepared by personnel of the Ohio district of the Water Resources Division of the U.S. Geological Survey under the supervision of S.M. Hindall, District Chief, and J.E. Biesecker, Regional Hydrologist, Northeastern Region. It was done in cooperation with the State of Ohio and with other agencies.

This report is one of a series issued State by State under the general direction of P. Cohen, Chief Hydrologist, U.S. Geological Survey, and S. Lang, Acting Assistant Chief Hydrologist for Scientific Publications and Data Management.

Data for Ohio are in three volumes as follows:

Volume 1. Ohio River basin
Volume 2. St. Lawrence River basin
Volume 3. Coal Hydrology

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16. Abstract (Limit: 200 words)

Water resources data for the 1979 water year for Ohio consist of records of stage, discharge, and water quality of streams; stage, contents, and water quality of lakes and reservoirs; and water levels and water quality of ground-water wells. This report in three volumes contains records for water discharge at 197 gaging stations; stage and contents at 32 lakes and reservoirs; water quality at 54 gaging stations and 49 wells; and water levels at 157 observation wells. Also included are data for 58 crest-stage partial-record stations; 26 low-flow partial-record stations, and 311 coal hydrology synoptic sites. Additional water data were collected at various sites not involved in the systematic data-collection program and are published as miscellaneous measurements and analyses. These data represent that part of the National Water Data System collected by the U.S. Geological Survey and cooperating State and Federal agencies in Ohio.

17. Document Analysis a. Descriptors

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b. Identifiers/Open-Ended Terms

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Department of Commerce

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WATER RESOURCES DATA FOR OHIO, 1979

INTRODUCTION

Water resources data for the 1979 water year for Ohio are presented in three volumes. Volumes I and II consist of records of stage, discharge, and water quality of streams; stage, contents, and water quality of lakes and reservoirs; and water levels and water quality of ground water. Volume III was specifically designed to present data gathered for coal-hydrology studies. It includes data collected at synoptic sites (partial record) in the coal mining region of eastern Ohio. The data collected consists of discharge of streams at low and high stages, water quality of streams, suspended sediment, chemical and physical analysis of bottom materials and abundance and diversity of benthic invertebrates.

The three volumes of this report contain discharge records for 197 gaging stations; stage and contents for 32 lakes and reservoirs; water quality for 54 gaging stations, and 49 wells; and water levels for 157 observation wells. Also included are 58 crest-stage partial-record stations, 26 low-flow partial-record stations, and 311 coal hydrclogy synoptic sites. Additional water data were collected at various sites, not involved in the systematic data collection program, and are published as miscellaneous measurements. These data represent that part of the National Water Data System collected by the U.S. Geological Survey and cooperating State and Federal agencies in Ohio.

Beginning with the 1975 water year, water data for streamflow, water quality, and ground water were published as an official Survey report on a State-boundary basis. The official Survey reports carry an identification number consisting of the two letter State abbreviation, the last two digits of the water year, and the volume number. For example, this volume is identified as U.S. Geological Survey Water-Data Report OH-79-3." Water-Data reports are for sale by the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22161.

HYDROLOGIC CONDITIONS

At the start of the 1979 water year, streamflow was excessive throughout most of the State. The only exception was northwestern Ohio, where it was normal. The heavy rains in the middle of the month accounted for the greater than normal run-off. The month of November was normal throughout the State, except central Ohio where it was excessive. December streamflow was excessive except in northwest Ohio where it was normal. January streamflow was normal except the northeast, where it was excessive. The rains of December 9 produced high water and the heavy rains of December 31 and January 1, 1979 produced excessive flows during the first week of January. After the first week, flows were near normal. A sizable amount of runoff remained frozen on the ground at the end of the month.

Streamflow for February was normal throughout the State during the first three weeks of the month and excessive during the last week due to increased run-off from heavy rains and snow melt. Minor flooding was observed in many areas of the State and serious flooding occurred in the southern portion of the State and the Ohio River valley. The snow melt continued into March creating excessive runoff during the first and second weeks around most of the State, the exception being the northeast, where it was normal. The rest of March and through April was normal throughout the State, except for the central area which was moderately excessive for April.

Streamflow for May was below normal throughout most of the State and only slightly deficient for the northeastern part of the State.

June streamflow was normal throughout the State except eastern Ohio, where it was deficient, with the flow sustained by the excessive precipitation during the last week of May. Streamflow for July was above normal throughout most of the State and excessive in the western portion. Generally, flows in the central and western portions of the State were excessive during the first half of the month and normal the last.

Streamflow for August was excessive throughout the State, except the eastern section which was normal. Flash flooding was reported throughout the State. Butler and Gallia Counties reported a shopping center, 300 homes, and an apartment complex were flooded. The reported precipitation in these areas was about 3 inches in one hour.

Streamflow for September was excessive throughout the State as the result of above normal precipitation for August and September. Heavy rains from the tail end of Hurricane Fredrick on September 13th and 14th caused major flooding of many streams in the State, with some major damage in low-lying areas and the loss of three lives in central Ohio.

Streamflow was generally normal to excessive throughout most of the State during the 1979 water year. The only exception was in the Maumee River basin, where streamflow was within the lower range of normal flow. Although streamflow was noticeably excessive in many areas throughout the year, there was only a few occurrences of major flooding or serious flood damage this year.

Source: Ohio Department of Natural Resources Monthly Water Inventory Report for Ohio and U.S. Geological Survey Water Resources Data reports.

DEFINITION OF TERMS

Terms related to streamflow, water quality, and other hydrologic data as used in Volume III are defined below.

Bed material is the unconsolidated material of which a streambed, lake, pond, reservoir, or estuary bottom is composed.

Benthic invertebrates are animals without backbones that inhabit the bottom of streams, lakes, ponds, reservoirs, and estuaries. The organisms are frequently used as biological indicators of environmental quality. Fauna retained on a U.S. Standard Sieve No. 70 (210-um mesh opening) are identified, counted, and reported.

Cfs is the volume of water represented by flow of 1 cubic foot per second.

Coal is the part of a bottom material sample that can be separated by floating in on a bromoform-acetone solution with a specific gravity of 1.65. The material containing coal is filtered, dried, weighed, and corrected for moisture.

Dendrogram is a diagrammatic representation showing the taxonomic similarity among organisms in samples.

Discharge is the volume of water (or more broadly, volume of fluid plus suspended sediment), that passes a given point within a given period of time.

Instantaneous discharge is the discharge at a particular instant of time.

Dissolved.--That material in a representative water sample which passes through a 0.45-micrometer membrane filter. This is a convenient operational definition used by Federal agencies that collect water data. Determinations of "dissolved" constituents are made on subsamples of the filtrate.

Drainage area of a stream at a specific location is that area, measured in a horizontal plane, enclosed by a topographic divide from which direct surface runoff from precipitation normally drains by gravity into the river above the specified point. Figures of drainage area given herein include all closed basins, or noncontribution area, within the area unless otherwise noted.

Drainage basin is a part of the surface of the earth that is occupied by a drainage system, which consists of a surface stream or a body of impounded surface water together with all tributary surface stream and bodies of impounded surface water.

Event sites is a particular site where limited streamflow and water-quality data are collected once during a low flow and a high flow over a period of two years for use in hydrologic analyses of coal mining areas in eastern Ohio. Sediment data are collected during high streamflow peak periods. The data are 10 percent of total collection at peak time.

Gaging station is a particular site on a stream, canal, lake, or reservoir where systematic observations of hydrologic data are obtained.

Hydrologic unit is a geographic area representing part or all of a surface drainage basin or distinct hydrologic feature as delineated by the Office of Water Data Coordination on the State Hydrologic Unit Maps; each hydrologic unit is identified by an 8-digit number.

Micrograms per gram (UG/G, µg/g) is a unit expressing the concentration of a chemical element as the mass (micrograms) of the element sorbed per unit mass (gram) of sediment.

Microgram per kilogram (UG/KG, µg/kg) is a unit expressing the concentration of a chemical element as the mass (micrograms) of the element sorbed per unit mass (kilogram) of bottom material.

Micrograms per liter (UG/L, µg/L) is a unit expressing the concentration of chemical constituents in solution as mass (micrograms) of solute per unit volume (liter) of water. One thousand micrograms per liter is equivalent to one milligram per liter.

Milligrams per liter (MG/L, mg/L) is a unit for expressing the concentration of chemical constituents in solution. Milligrams per liter represent the mass of solute per unit volume (liter) of water. Concentration of suspended sediment also is expressed in mg/L, and is based on the mass of sediment per liter of water-sediment mixture.

Organism is any living entity, such as an insect.

Organism count/area in this report refers to the number of benthic invertebrates collected and enumerated in a sample and adjusted to the number per area habitat, usually square meters (m^2).

Total organism count is the total number of organisms collected and enumerated in any particular sample.

Partial-record station is a particular site where limited streamflow and/or water-quality data are collected systematically over a period of years for use in hydrologic analyses.

Particle-size is the diameter, in millimeters (mm), of suspended sediment or bed material determined by either sieve or sedimentation methods. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube) determine fall diameter of particles in either distilled water (chemically dispersed) or in native water (the river water at the time and point of sampling).

Particle-size classification used in this report agrees with recommendations made by the American Geophysical Union Subcommittee on Sediment Terminology.

The classification is as follows:

Classification	Size (mm)	Method of analysis
Clay.....	0.00024 - 0.004	Sedimentation.
Silt.....	.004 - .062	Sedimentation.
Sand.....	.062 - 2.0	Sedimentation or sieve.
Gravel.....	2.0 - 64.0	Sieve.

The particle-size distributions given in this volume are not necessarily representative of all particles in transport in the stream. Most of the organic material is removed and the sample is subjected to mechanical and chemical dispersion before analysis in distilled water. Chemical dispersion is not used for native water analysis.

Percent composition is a unit for expressing the ratio of a particular part of a sample or population to the total sample or population, in terms of types, number, mass or volume.

Recoverable from bottom material.--The amount of a given constituent that is in solution after a representative sample of bottom material has been digested by a method (usually using an acid or mixture of acids) that results in dissolution of only readily soluble substances. Complete dissolution of all bottom material is not achieved by the digestion treatment and thus the determination represents less than the total amount (that is, less than 95 percent) of the constituent in the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Sediment is solid material that originates mostly from disintegrated rocks and is transported by, suspended in, or deposited from water; it includes chemical and biochemical precipitates and decomposed organic material, such as humus. The quantity, characteristics, and cause of the occurrence of sediment in streams are influenced by environmental factors. Some major factors are degree of slope, length of slope, soil characteristics, land usage, and quantity and intensity of precipitation.

Suspended sediment is the sediment that at any given time is maintained in suspension by the upward components of turbulent currents or that exists in suspension as a colloid.

Suspended-Sediment concentration is the velocity-weighted concentration of suspended sediment in the sampled zone (from the water surface to a point approximately 0.3 ft above the bed) expressed as milligrams of dry sediment per liter of water-sediment mixture (mg/L).

Suspended-sediment discharge (tons/day) is the rate at which dry weight of sediment passes a section of a stream or is the quantity of sediment, as measured by dry weight or volume, that passes a section in a given time. It is computed by multiplying discharge times mg/L times 0.0027.

Suspended-sediment load is the quantity of suspended sediment passing a section in a specified period.

Total sediment discharge (tons/day) is the sum of the suspended-sediment discharge and the bed-load discharge. It is the total quantity of sediment, as measured by dry weight or volume, that passes a section during a given time.

Mean concentration is the time-weighted concentration of suspended sediment passing a stream section during a 24-hour day.

Solute is any substance derived from the atmosphere, vegetation, soil, or rocks that is dissolved in water.

Specific conductance is a measure of the ability of a water to conduct an electrical current. It is expressed in micromhos per centimeter at 25°C. Specific conductance is related to the type and concentration of ions in solution and can be used for approximating the dissolved-solids content of the water. Commonly, the concentration of dissolved solids (in milligrams per liter) is about 65 percent of the specific conductance (in micromhos). This relation is not constant from stream to stream, and it may vary in the same source with changes in the composition of the water.

Streamflow is the discharge in a natural channel. Although the term "discharge" can be applied to the flow of a canal, the word "streamflow" uniquely describes the discharge in a surface stream course. The term "streamflow" is more general than "runoff" as streamflow may be applied to discharge whether or not it is affected by diversion or regulation.

Suspended (as used in tables of chemical analyses) refers to the amount (concentration) of the total concentration in a water-sediment mixture. The water-sediment mixture is associated with (or sorbed on) that material retained on a 0.45-micrometer filter.

Suspended, recoverable.--The amount of a given constituent that is in solution after the part of a representative water-suspended sediment sample that is retained on a 0.45-micrometer membrane filter has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily scluble substances. Complete dissolution of all the particulate matter is not achieved by the digestion treatment and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Determinations of "suspended, recoverable" constituents are made either by analyzing portions of the material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total recoverable concentrations of the constituent.

Suspended, total.--The total amount of a given constituent in the part of a representative water-suspended sediment sample that is retained on a 0.45-micrometer membrane filter. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to determine when the results should be reported as "suspended, total."

Determinations of "suspended, total" constituents are made either by analyzing portions of the material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total concentrations of the constituent.

Synoptic site.--A particular site where limited streamflow and water-quality data are collected once during a low flow and a high flow over a period of two years for use in hydrologic analyses of coal mining areas in eastern Ohio. Sediment data are not collected.

Total.--The total amount of a given constituent in a representative water-suspended sediment sample, regardless of the constituent's physical or chemical form. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent present in both the dissolved and suspended phases of the sample. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total." (Note that the word "total" does double duty here, indicating both that the sample consists of a water-suspended sediment mixture and that the analytical method determines all of the constituent in the sample.)

Total in bottom material.--The total amount of a given constituent in a representative sample of bottom material. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total in bottom material."

Total recoverable.-- The amount of a given constituent that is in solution after a representative water-suspended sediment sample has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all particulate matter is not achieved by the digestion treatment, and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the dissolved and suspended phases of the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

NUMBERING SYSTEM FOR COAL HYDROLOGY SYNOPTIC SITES

The numbering system for coal hydrology synoptic sites is the same as the numbering system of the U.S. Geological Survey miscellaneous sites where random measurements are taken. The sytem provides the geographic location of the site and a unique number of each site. The number consists of 15 digits. The first 6 digits denote the degrees, minutes, and seconds of latitude, the next 7 digits denote degrees, minutes, and seconds of longitude, and the last 2 digits (assigned sequentially) identify the sites within a 1-second grid. See figure 1.

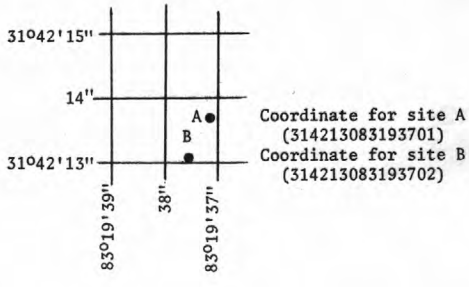

Figure 1.--System for numbering coal hydrology synoptic sites (latitude and longitude).

EXPLANATION OF WATER-DISCHARGE

Collection and computation of data

Measurements of discharge are made with a current meter, using the general methods adopted by the Geological Survey. These methods are described in standard text-books, in Water-Supply Paper 888, and in U.S. Geological Survey Techniques of Water Resources Investigations, book 3, chapter A6.

Data collected at the synoptic sites are presented in table form.

EXPLANATION OF WATER-QUALITY RECORDS

Collection and examination of data

Water analysis

Most methods for collecting and analyzing water samples are described in the U.S. Geological Survey Techniques of Water-Resources Investigations listed on a following page.

One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, the concentration of solutes at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled through several vertical sections to obtain a representative sample needed for an accurate mean concentration and for use in calculating load.

Chemical-quality data published in this report are considered to be the most representative values available for the sites listed. The values reported represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. In the rare case where an apparent inconsistency exists between a reported pH value and the relative abundance of carbon dioxide species (carbonate and bicarbonate), the inconsistency is the result of a slight uptake of carbon dioxide from the air by the sample between measurement of pH in the field and determination of carbonate and bicarbonate in the laboratory.

Sediment

Suspended-sediment concentrations are determined from samples collected by using depth-integrating samplers. Samples usually are obtained at several verticals in the cross section, or a single sample may be obtained at a fixed point and a coefficient applied to determine the mean concentration in the cross sections.

Although data collected periodically may represent conditions only at the time of observations, such data are useful in establishing seasonal relations between quality and streamflow in predicting long-term sediment-discharge characteristics of the stream.

EXPLANATION OF BENTHIC INVERTEBRATE RECORDS

Collection and examination of data

Uniform sampling schedules for water-quality studies in the Northeast Appalachian Coal Province were established on January 22, 1979. The method for collecting and analyzing water samples for microbiological and biological characteristics in the eastern Ohio coal hydrology monitoring program are described in U.S. Geological Survey Techniques of Water-Resources Investigations, M. J. Engelke, Jr. and Janet Hren, (1979, unpublished report, "Animal Life in Eastern Ohio Fresh-Water Streams -- an Introduction to Selected Aquatic Animal Types," on file in Columbus, OH office of the U.S. Geological Survey, 62 p.), and other references listed on page 6.

The purpose of measurements made at the Ohio sites is to determine the composition of the benthic community within: (1) streams unaffected by coal mining activity; (2) streams affected by current coal mining activity; and (3) streams affected by past coal mining activity. The ten rock method which indicates the presence or absence of specific benthic invertebrates was selected as the method for the biological survey. This sampling method involves lifting 10 individual rocks in a stream cross section, washing the rocks in a suber sampler, and collecting the associated organisms for identification. This method is based on the fact that many benthic invertebrates of shallow streams live on or under rocks.

PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS

Thirty-four manuals by the U.S. Geological Survey have been published to date in the series on techniques describing procedures for planning and executing specialized work in water-resources investigations. The material is grouped under major subject headings called books and is further divided into sections and chapters. For example, Section A of Book 3 (Applications of Hydraulics) is on surface water. The chapter, the unit of publication, is limited to a narrow field of subject matter. This format permits flexibility in revision and publication as the need arises. The reports listed below are for sale by the U.S. Geological Survey, Branch of Distribution, 1200 South Eads Street, Arlington, VA 22202 (authorized agent of the Superintendent of Documents, Government Printing Office).

NOTE: When ordering any of these publications, please give the title, book number, chapter number, and "U.S. Geological Survey Techniques of Water-Resources Investigations".

1-D1. *Water temperature--influential factors, field measurement, and data presentation,* by H. H. Stevens, Jr., J. F. Ficke, and G. F. Smoot: USGS--TWRI Book 1, Chapter D1. 1975. 65 pages.
1-D2. *Guidelines for collection and field analysis of ground-water samples for selected unstable constituents,* by W. W. Wood: USGS--TWRI Book 1, Chapter D2. 1976. 24 pages.
2-D1. *Application of surface geophysics to ground-water investigations,* by A. A. R. Zohdy, G. P. Eaton, and D. R. Mabey: USGS--TWRI Book 2, Chapter D1. 1974. 116 pages.
2-E1. *Application of borehole geophysics to water-resources investigations,* by W. S. Keys and L. M. MacCary: USGS--TWRI Book 2, Chapter E1. 1971. 126 pages.
3-A1. *General field and office procedures for indirect discharge measurements,* by M. A. Benson and Tate Dalrymple: USGS--TWRI Book 3, Chapter A1. 1967. 30 pages.
3-A2. *Measurement of peak discharge by the slope-area method,* by Tate Dalrymple and M. A. Benson: USGS--TWRI Book 3, Chapter A2. 1967. 12 pages.
3-A3. *Measurement of peak discharge at culverts by indirect methods,* by G. L. Bodhaine: USGS--TWRI Book 3, Chapter A3. 1968. 60 pages.
3-A4. *Measurement of peak discharge at width contractions by indirect methods,* by H. F. Matthai: USGS--TWRI Book 3, Chapter A4. 1967. 44 pages.
3-A5. *Measurement of peak discharge at dams by indirect methods,* by Harry Hulsing: USGS--TWRI Book 3, Chapter A5. 1967. 29 pages.
3-A6. *General procedure for gaging streams,* by R. W. Carter and Jacob Davidian: USGS--TWRI Book 3, Chapter A6. 1968. 13 pages.
3-A7. *Stage measurements at gaging stations,* by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A7. 1968. 28 pages.
3-A8. *Discharge measurements at gaging stations,* by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A8. 1969. 65 pages.
3-A11. *Measurement of discharge by moving-boat method,* by G. F. Smoot and C. E. Novak: USGS--TWRI Book 3, Chapter A11. 1969. 22 pages.
3-B1. *Aquifer-test design, observation, and data analysis,* by R. W. Stallman: USGS--TWRI Book 3, Chapter B1. 1971. 26 pages.
3-B2. *Introduction to ground-water hydraulics, a programed text for self-instruction,* by G. D. Bennett: USGS--TWRI Book 3, Chapter B2. 1976. 172 pages.
3-C1. *Fluvial sediment concepts,* by H. P. Guy: USGS--TWRI Book 3, Chapter C1. 1970. 55 pages.
3-C2. *Field methods for measurement of fluvial sediment,* by H. P. Guy and V. W. Norman: USGS--TWRI Book 3, Chapter C2. 1970. 59 pages.
3-C3. *Computation of fluvial-sediment discharge,* by George Porterfield: USGS--TWRI Book 3, Chapter C3. 1972. 66 pages.
4-A1. *Some statistical tools in hydrology,* by H. C. Riggs: USGS--TWRI Book 4, Chapter A1. 1968. 39 pages.
4-A2. *Frequency curves,* by H. C. Riggs: USGS--TWRI Book 4, Chapter A2. 1968. 15 pages.
4-B1. *Low-flow investigations,* by H. C. Riggs: USGS--TWRI Book 4, Chapter B1. 1972. 18 pages.
4-B2. *Storage analyses for water supply,* by H. C. Riggs and C. H. Hardison: USGS--TWRI Book 4, Chapter B2. 1973. 20 pages.
4-B3. *Regional analyses of streamflow characteristics,* by H. C. Riggs: USGS--TWRI Book 4, Chapter B3. 1973. 15 pages.
4-D1. *Computation of rate and volume of stream depletion by wells,* by C. T. Jenkins: USGS--TWRI Book 4, Chapter D1. 1970. 17 pages.
5-A1. *Methods for determination of inorganic substances in water and fluvial sediments,* by M. W. Skougstad and others, editors: USGS--TWRI Book 5, Chapter A1. 1979. 626 pages.
5-A2. *Determination of minor elements in water by emission spectroscopy,* by P. R. Barnett and E. C. Mallory, Jr.: USGS--TWRI Book 5, Chapter A2. 1971. 31 pages.
5-A3. *Methods for analysis of organic substances in water,* by D. F. Goerlitz and Eugene Brown: USGS--TWRI Book 5, Chapter A3. 1972. 40 pages.
5-A4. *Methods for collection and analysis of aquatic biological and microbiological samples,* edited by P. E. Greeson, T. A. Ehlke, G. A. Irwin, B. W. Lium, and K. V. Slack: USGS--TWRI Book 5, Chapter A4. 1977. 332 pages.
5-A5. *Methods for determination of radioactive substances in water and fluvial sediments,* by L. L. Thatcher, V. J. Janzer, and K. W. Edwards: USGS--TWRI Book 5, Chapter A5. 1977. 95 pages.
5-C1. *Laboratory theory and methods for sediment analysis,* by H. P. Guy: USGS--TWRI Book 5, Chapter C1. 1969. 58 pages.

PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS--Continued

7-C1. *Finite difference model for aquifer simulation in two dimensions with results of numerical experiments*, by P. C. Trescott, G. F. Pinder, and S. P. Larson: USGS--TWRI Book 7, Chapter C1. 1976. 116 pages.
7-C2. *Computer model of two-dimensional solute transport and dispersion in ground water*, by L. F. Konikow and J. D. Bredehoeft: USGS--TWRI Book 7, Chapter C2. 1978. 90 pages.
8-A1. *Methods of measuring water levels in deep wells*, by M. S. Garber and F. C. Koopman: USGS--TWRI Book 8, Chapter A1. 1968. 23 pages.
8-B2. *Calibration and maintenance of vertical-axis type current meters*, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 8, Chapter B2. 1968. 15 pages.

Figure 2.--Location of data collection sites.

TABLE 1.--LISTING OF HYDROLOGICAL SITES FOR WHICH DATA ARE PUBLISHED
(Station number also denotes, latitude and longitude; first 6 digits show latitude; next 7 digits show longitude.)

STATION NUMBER	STATION NAME	COUNTY NAME	DRAINAGE AREA (MI^2)
382842082235300	INDIAN GUYAN C NR PROCTORVILLE OH	LAWRENCE	18.81
382945082291700	LEATHERWOOD C NR CHESAPEAKE OH	LAWRENCE	3.97
382958082372400	L ICE C NR COAL GROVE OH	LAWRENCE	1.60
383353082330600	DOG F AT KITTS HILL OH	LAWRENCE	2.75
383640082352700	PADDLE C NR KITTS HILL OH	LAWRENCE	2.25
383644082313900	SHARPS C NR KITTS HILL OH	LAWRENCE	2.32
383657082124900	SWAN C NR CROWN CITY OH	GALLIA	14.72
383726082500200	GINAT C NR FRANKLIN FURNACE OH	SCIOTO	8.64
383750082435400	L PINE C NR PEDRO OH	LAWRENCE	29.22
383842082272700	LONG C NR WATERLOO OH	LAWRENCE	13.99
383944082292600	AARON C NR WATERLOO OH	LAWRENCE	8.21
384149082315400	BUCKEYE C NR WATERLOO OH	LAWRENCE	6.67
384312082481700	LICK RN NR WHEELERSBURG OH	SCIOTO	4.43
384401082145000	BULLSKIN C NR GALLIPOLIS OH	GALLIA	14.38
384452082181400	CLAYLICK RN NR NORTHUP OH	GALLIA	4.75
384454082223500	SAND F SYMMES C NR WATERLOO OH	GALLIA	37.11
384603082503400	WARDS RN NR MINFORD OH	SCIOTO	7.36
384817082391600	BRADY RN NR S WEBSTER OH	SCIOTO	6.06
384841082464000	FREDERICK C NR MINFORD OH	SCIOTO	9.38
385007082305100	DIRTY FACE C NR GALLIA OH	GALLIA	13.13
385027082131800	CHICKAMAUGA C NR GALLIPOLIS OH	GALLIA	19.42
385117082500900	LONG RN NR MINFORD OH	SCIOTO	17.94
385316082521200	MCCONNEL C NR STOCKDALE OH	SCIOTO	10.18
385334082225800	L INDIAN C NR RIO GRANDE OH	GALLIA	10.29
385405082431000	HOLLAND F TR NR S WEBSTER OH	JACKSON	8.33
385406082450600	BUCKLICK C NR STOCKDALE OH	JACKSON	6.71
385412082191300	BARREN C NR HARRISBURG OH	GALLIA	7.21
385418082131000	CHAMPAIGN C NR ADDISON OH	GALLIA	32.25
385740082430200	SUGARCAMP C NR STOCKDALE OH	JACKSON	3.68
385809082474400	MCDOWELL C NR STOCKDALE OH	JACKSON	6.54
385916082090200	JESSIE C NR RUTLAND OH	GALLIA	2.69
390010082370800	FOURMILE C NR JACKSON OH	JACKSON	10.26
390024082281200	DICKASON RN NR THURMAN OH	JACKSON	22.50
390053082201000	STRONGS RN NR EWINGTON OH	GALLIA	15.69
390150082081800	L LEADING C NR RUTLAND OH	MEIGS	24.15
390221082515600	BUCKHOLLOW C NR BEAVER OH	PIKE	4.59
390239082030800	E B THOMAS F NR POMEROY OH	MEIGS	10.81
390254082442400	BUCKEYE C TR NR JACKSON OH	JACKSON	2.27
390345082372300	SUGAR RN NR JACKSON OH	JACKSON	3.53
390346081540100	HORSE CAVE C NR CHESTER OH	MEIGS	18.33
390611081514400	E B SHADE R NR LONG BOTTOM OH	MEIGS	39.32
390622082131000	MUD F LEADING C NR DEXTER OH	MEIGS	12.22
390634082313600	MEADOW RN AT WELLSTON OH	JACKSON	8.63
390648082005600	KINGSBURY C NR POMEROY OH	MEIGS	13.48
390711081482400	FORKED RN NR LONG BOTTOM OH	MEIGS	3.98
390828082224900	PIERCE RN NR RADCLIFF OH	VINTON	9.70
391148081583000	PRATT F M B SHADE R NR SHADE OH	ATHENS	10.73
391241082425300	M F SALT C NR RICHMOND DALE OH	VINTON	56.35
391435082281800	PUNCHEON F AT MCARTHUR OH	VINTON	9.44
391453082430100	NO NAME C NR LONDONDERRY OH	VINTON	1.99
391604082022300	LONG RN NR ATHENS OH	ATHENS	4.96
391720082463800	POE RN AT LONDONDERRY OH	ROSS	5.84
391743082100100	W B MARGARET C NR NEW MARSHFIELD OH	ATHENS	9.40
391805081434200	L W B L HOCKING R NR LITTLE HOCKING OH	WASHINGTON	4.59
391810081453000	W B L HOCKING R NR CUTLER OH	WASHINGTON	30.36
391903082164200	HEWETT F NR ALBANY OH	ATHENS	27.79
391915082274600	BRUSHY F NR CREOLA OH	VINTON	25.44
391950082390200	PRETTY RN NR LONDONDERRY OH	VINTON	13.58
391951082082400	FACTORY C NR THE PLAINS OH	ATHENS	8.89
392001082195601	SANDY RN NR ZALESKI OH	VINTON	4.98
392010081371600	E B L HOCKING R NR BELPRE OH	WASHINGTON	12.00
392108082432100	PIKE RN NR LONDONDERRY OH	VINTON	8.06
392205081524800	MARIETTA RN NR STEWART OH	ATHENS	10.11
392224081391400	TUPPER C AT VINCENT OH	WASHINGTON	5.24
392250081592900	MUSH RN NR AMESVILLE OH	ATHENS	13.09
392324081350000	BROWNS RN NR BARLOW OH	WASHINGTON	3.71
392348082220200	E B RACCOON C NR NEW PLYMOUTH OH	HOCKING	14.46
392350082255200	HONEY F NR NEW PLYMOUTH OH	HOCKING	9.46
392355082331700	E F QUEER C NR S BLOOMINGVILLE OH	HOCKING	9.98
392503081351300	HORSE RN NR BARLOW OH	WASHINGTON	13.04

TABLE 1.--LISTING OF HYDROLOGICAL SITES FOR WHICH DATA ARE PUBLISHED.--Continued

STATION NUMBER		COUNTY NAME	DRAINAGE AREA (MI^2)
392557081384900	S F WOLF C NR WATERTOWN OH	WASHINGTON	7.54
392611081544600	OPOSSUM RN NR AMESVILLE OH	ATHENS	8.97
392623082354900	PINE C NR S BLOOMINGVILLE OH	HOCKING	21.10
392710081592600	MINERS F NR AMESVILLE OH	ATHENS	9.88
392713081085800	LEITH RN NR NEWPORT OH	WASHINGTON	9.50
392750082101500	SNOW F MONDAY C AT BUCHTEL OH	ATHENS	24.25
392756081512000	N B COAL RN AT CHESTERHILL OH	MORGAN	2.60
392814081135000	ARCHERS F L MUSKINGUM R NR NEWPORT OH	WASHINGTON	15.45
392840081174000	FIFTEENMILE C AT DART OH	WASHINGTON	20.20
392914081474200	ALDRIDGE RN NR CHESTERHILL OH	WASHINGTON	11.23
392947081314000	RAINBOW C NR DEVOLA OH	WASHINGTON	13.68
393052082252700	SCOTT C NR CARBON HILL OH	HOCKING	13.26
393101081523700	GOSHEN C NR CHESTERHILL OH	MORGAN	6.94
393112081245600	WHIPPLE RN AT WHIPPLE OH	WASHINGTON	9.50
393112082300800	DUCK C NR ROCKBRIDGE OH	HOCKING	2.32
393129081281800	BEAR C NR WHIPPLE OH	WASHINGTON	5.55
393211082232900	OLDTOWN C AT LOGAN OH	HOCKING	21.92
393226082163400	L MONDAY C NR CARBON HILL OH	HOCKING	25.13
393235081225500	PAW PAW C AT LOWER SALEM OH	WASHINGTON	21.44
393240081310500	CAT C AT LOWELL OH	WASHINGTON	10.91
393317081475100	BALD EAGLE RN AT STOCKPORT OH	MORGAN	10.15
393343081554600	UNNAMED C L WOLF C NR PENNSVILLE OH	MORGAN	7.87
393400081252100	W F DUCK C AT WARNER OH	WASHINGTON	30.55
393534082071500	NO NAME TR W B SUNDAY C NR CORNING OH	PERRY	7.78
393554082041500	DOTSON C NR CORNING OH	PERRY	5.99
393556082000000	E B SUNDAY C NR CORNING OH	MORGAN	8.15
393609081094600	CLEAR F NR RINARD MILLS OH	MONROE	197.80
393620081554200	BUCK RN NR PENNSVILLE OH	MORGAN	5.51
393657081091500	STRAIGHT F NR RINARD MILLS OH	MONROE	11.36
393707081441400	FOURMILE RN NR MCCONNELSVILLE OH	MORGAN	12.16
393720081212100	M F DUCK C NR GERMANTOWN OH	NOBLE	26.48
393729081382200	L OLIVE GREEN C NR MCCONNELSVILLE OH	MORGAN	15.18
393840081360300	KEITH F NR CALDWELL OH	MORGAN	14.87
393950081361700	SHARON F NR CALDWELL OH	MORGAN	19.60
394101080555800	OPOSSUM C NR HANNIBAL OH	MONROE	7.38
394125081481500	MANS F NR MCCONNELSVILLE OH	MORGAN	11.82
394129082334300	PLEASANT RN NR LANCASTER OH	FAIRFIELD	14.78
394232081091900	TOWN F NR GRAYSVILLE OH	MONROE	9.66
394238082205900	NO NAME C NR BREMAN OH	PERRY	6.14
394310081215200	SCHWAB RN NR SUMMERFIELD OH	NOBLE	3.74
394310081570000	ISLAND RN NR MCCONNELSVILLE OH	MORGAN	5.57
394311081425700	HORSE RN NR MCCONNELSVILLE OH	MORGAN	4.50
394331082021000	OGG C NR NEW LEXINGTON OH	MORGAN	8.15
394456082195600	CENTER B NR SOMERSET OH	PERRY	18.60
394508082092800	MC LUNEY C NR NEW LEXINGTON OH	PERRY	2.28
394624080563600	ACKERSON RN NR CAMERON OH	MONROE	6.47
394627080561900	PAINE RN NR CAMERON OH	MONROE	7.90
394645081004100	PINEY F NR WOODSFIELD OH	MONROE	15.27
394706081082000	WHEELER RN NR WOODSFIELD OH	MONROE	6.95
394716082273400	UNNAMED TR L RUSH C NR RUSHVILLE OH	FAIRFIELD	13.40
394735081545600	BLUE ROCK C NR PHILO OH	MUSKINGUM	9.88
394827081065300	BAKER F NR WOODSFIELD OH	MONROE	8.09
394836082081600	BUCKEYE FK NR FULTONHAM OH	PERRY	8.62
394953081182800	SKIN C NR SUMMERFIELD OH	MONROE	7.10
395029081590700	BRUSH C NR PHILO OH	MUSKINGUM	18.57
395115081163800	SENECA F WILLS C NR BARNSVILLE OH	MONROE	17.78
395128082121600	TURKEY RN NR SOMERSET OH	PERRY	11.73
395140081504600	KENT RN NR CHANDLERSVILLE OH	MUSKINGUM	7.43
395201080514000	CAT RN NR POWHATTAN POINT OH	BELMONT	12.18
395210082165600	PAINTER C NR SOMERSET OH	PERRY	17.96
395217082055300	KENT RN AT WHITE COTTAGE OH	MUSKINGUM	22.82
395255082040900	THOMPSON RN NR WHITE COTTAGE OH	MUSKINGUM	15.32
395313081324300	BUFFALO C NR PLEASANT CITY OH	NOBLE	42.15
395320081401200	YOKER C NR CUMBERLAND OH	GUERNSEY	12.00
395329081530800	BOGGS C NR DUNCAN FALLS OH	MUSKINGUM	17.90
395333080541300	PEA VINE C NR ARMSTRONGS MILLS OH	BELMONT	9.79
395411081492500	WILLIAMS F AT CHANDLERSVILLE OH	MUSKINGUM	6.47
395419081044800	S F CAPTINA C NR SOMERTON OH	BELMONT	33.38
395419082184400	VALLEY RN NR GLENFORD OH	PERRY	28.71
395441081000000	PINEY C NR ARMSTRONGS MILLS OH	BELMONT	9.92

TABLE 1.--LISTING OF HYDROLOGICAL SITES FOR WHICH DATA ARE PUBLISHED.--Continued

STATION NUMBER	STATION NAME	COUNTY NAME	DRAINAGE AREA (MI^2)
395444081273400	OPOSSUM RN NR SENECAVILLE OH	NOBLE	10.72
395522081514100	WHITE EYES C NR CHANDLERSVILLE OH	MUSKINGUM	12.37
395550080505900	PIPE C NR JACOBSBURG OH	BELMONT	8.06
395618080592700	BEND F NR ARMSTRONGS MILLS OH	BELMONT	19.88
395639081083200	UNNAMED STR NR BARNESVILLE OH	BELMONT	2.89
395659081522700	L SALT C NR NORWICH OH	MUSKINGUM	13.19
395709081062900	LONG RN NR BARNESVILLE OH	BELMONT	6.53
395727080461400	WEGEE C NR SHADYSIDE OH	BELMONT	9.91
395801081350200	CHAPMAN RN NR BYESVILLE OH	GUERNSEY	11.36
395903082031300	BARTLETT RN NR ZANESVILLE OH	MUSKINGUM	8.90
395908081273400	LEATHERWOOD C AT LORE CITY OH	GUERNSEY	57.45
395941081432900	N CROOKED C AT NEW CONCORD OH	GUERNSEY	8.81
400013080533000	WILLIAMS C AT GLENCO OH	BELMONT	12.35
400037081392700	PETERS C NR NEW CONCORD OH	GUERNSEY	10.36
400224081093300	SPENCER C NR HENDRYSBURG OH	BELMONT	8.75
400225080504100	L MCMAHON C NR NEFFS OH	BELMONT	11.10
400233082153400	BRUSHY F NR NEWARK OH	LICKING	16.34
400329082171800	CLAYLICK C NR NEWARK OH	LICKING	20.72
400402080460200	WHEELING C NR LANSING OH	BELMONT	104.75
400429082034500	BIG RN NR DRESDEN OH	MUSKINGUM	6.30
400520081411700	INDIAN CAMP RN NR NEW CONCORD OH	GUERNSEY	6.65
400601081573600	N B SYMMES C NR ADAMSVILLE OH	MUSKINGUM	12.22
400710080430900	GLENNS RN NR MARTINS FERRY OH	BELMONT	8.82
400748081191700	LOST RN NR NEWARK OH	LICKING	21.75
400817082120400	BRUSHY F WAKATOMIKA C NR FRAZEYSBURG OH	LICKING	14.76
400932081265100	CLEAR F NR BIRMINGHAM OH	GUERNSEY	11.23
400945082094600	NICKEL VALLEY RN NR FRAZEYSBURG OH	MUSKINGUM	4.10
401005082001700	MILL F WAKATOMIKA C NR TRINWAY OH	COSHOCTON	23.17
401028081294100	ROCKY F NR BIRMINGHAM OH	GUERNSEY	12.26
401100082015200	SAND F WAKATOMIKA C NR TRINWAY OH	COSHOCTON	8.79
401104080423000	L SHORT C NR TILTONSVILLE OH	JEFFERSON	17.60
401106081500500	NO NAME TR WILLS C NR CONESVILLE OH	COSHOCTON	3.00
401211080462100	PINEY F AT DILLONVALE OH	JEFFERSON	22.24
401227080551201	S F SHORT C AT GEORGETOWN OH	HARRISON	9.64
401247080532800	M F SHORT C NR ADENA OH	HARRISON	24.32
401247081172700	CRABORCHARD C NR FREEPORT OH	HARRISON	11.47
401313080401800	RUSH RN NR TILTONSVILLE OH	JEFFERSON	12.30
401314080522300	N F SHORT C AT ADENA OH	JEFFERSON	22.13
401314081191700	ATKINSON C NR FREEPORT OH	HARRISON	8.55
401342081343200	POSTBOY C NR KIMBOLTON OH	TUSCARAWAS	5.00
401357081435800	CENTER C NR PLAINFIELD OH	COSHOCTON	5.50
401417082085000	WINDING F WAKATOMIKA C NR WALHONDING OH	COSHOCTON	16.90
401505081061800	BRUSHY F NR CADIZ OH	HARRISON	18.54
401645081215300	FALLEN TIMBER C NR TIPPECANOE OH	TUSCARAWAS	7.60
401756081050800	STANDING STONE F NR CADIZ OH	HARRISON	9.45
401803080410400	MC INTYRE C NR MINGO JUNCTION OH	JEFFERSON	24.20
401805081394500	EVANS C NR W LAFAYETTE OH	COSHOCTON	21.02
401812081362400	LICK RN AT NEWCOMERSTOWN OH	TUSCARAWAS	1.90
401829081192601	CROOKED C NR TIPPECANOE OH	TUSCARAWAS	47.50
401914082042600	MOHAWK C NR WALHONDING OH	COSHOCTON	22.25
401936081504900	SPOON C NR COSHOCTON OH	COSHOCTON	7.70
401940081441400	E F WHITE EYES C NR FRESNO OH	COSHOCTON	12.41
401953081163100	SKULL F NR FREEPORT OH	HARRISON	38.83
402011081450500	W F WHITE EYES C NR FRESNO OH	COSHOCTON	20.00
402012081051200	CLEAR F NR JEWETT OH	HARRISON	21.53
402023081553800	BUCKLEW RN NR COSHOCTON OH	COSHOCTON	5.90
402058082004800	BEAVER RN NR WARSAW OH	COSHOCTON	12.90
402137081505300	L MILL C NR KEENE OH	COSHOCTON	7.43
402150082203700	INDIANFIELD RN NR HOWARD OH	KNOX	10.64
402214080474600	SALEM C NR BLOOMINGDALE OH	JEFFERSON	15.27
402245080532300	N B CROSS C NR HOPEDALE OH	HARRISON	5.00
402258080455800	CEDAR LICK C NR RICHMOND OH	JEFFERSON	5.56
402309080401000	WILLS C AT STEUBENVILLE OH	JEFFERSON	5.46
402415081025500	IRISH C NR SCIO OH	HARRISON	16.02
402431081234300	MUD RN AT TUSCARAWAS OH	TUSCARAWAS	9.20
402520081050600	DINING F NR SCIO OH	HARRISON	12.70
402548081560600	DOUGHTY C NR CLARK OH	COSHOCTON	55.75
402559081592100	BIG RN NR KILLBUCK OH	COSHOCTON	10.46
402610080375700	ISLAND C NR TORONTO OH	JEFFERSON	22.50
402705080565600	ELK LICK NR AMSTERDAM OH	CARROLL	5.01

TABLE 1.--LISTING OF HYDROLOGICAL SITES FOR WHICH DATA ARE PUBLISHED.--Continued

STATION NUMBER	STATION NAME	COUNTY NAME	DRAINAGE AREA (MI^2)
402738081262300	OLD TOWN C AT NEW PHILADELPHIA OH	TUSCARAWAS	18.60
402757082171800	SAPPS RN NR DANVILLE OH	KNOX	3.69
402803082201200	L JELLOWAY C NR HOWARD OH	KNOX	11.85
402835082163700	DOWD C NR DANVILLE OH	KNOX	5.78
402843082012600	WOLF C NR KILLBUCK OH	HOLMES	23.13
402859081290700	CROOKED RN AT NEW PHILADELPHIA OH	TUSCARAWAS	7.70
403001080474700	LONG RN NR EAST SPRINGFIELD OH	JEFFERSON	6.51
403041082062900	BLACK C TR AT GLENMONT OH	HOLMES	5.40
403047081064700	N F MCGUIRE C NR CARROLLTON OH	CARROLL	11.24
403102080435200	TOWN F NR HAMMONDSVILLE OH	JEFFERSON	25.91
403108081364900	E BRANCH AT SUGARCREEK OH	TUSCARAWAS	28.20
403133080560800	STRAWCAMP RN NR BERGHOLZ OH	CARROLL	4.98
403144080585500	CENTER F NR HARLEM SPRINGS OH	CARROLL	10.23
403150080531200	UPPER N F AT BERGHOLZ OH	JEFFERSON	18.70
403242081413800	GOOSE C NR WALNUT CREEK OH	HOLMES	6.09
403257080430600	BRUSH C AT HAMMONDSVILLE OH	JEFFERSON	15.31
403440081113400	WILLOW RN NR DELLROY OH	CARROLL	7.85
403445081313200	BROAD RN AT STRASBURG OH	TUSCARAWAS	19.50
403550081213400	HUFF RN AT MINERAL CITY OH	TUSCARAWAS	12.10
403555081393700	INDIAN TRAIL C NR WINESBURG OH	TUSCARAWAS	13.50
403641081565100	PAINT C NR HOLMESVILLE OH	HOLMES	27.20
403655081550200	MARTINS C NR HOLMESVILLE OH	HOLMES	22.88
403715080391400	L YELLOW C NR WELLSVILLE OH	COLUMBIANA	22.04
403724080500700	RILEY RN AT SALINEVILLE OH	COLUMBIANA	16.71
403755081022200	PIPES F NR CARROLLTON OH	CARROLL	6.12
403807081552700	SALT C AT HOLMESVILLE OH	HOLMES	7.99
403851081414500	CRABAPPLE C NR MOUNT EATON OH	HOLMES	10.77
403925082080700	CRAB RN AT LAKEVILLE OH	HOLMES	31.14
404023081161200	INDIAN RN NR WAYNESBURG OH	STARK	8.57
404026081174100	PLEASANT VALLEY RN NR WAYNESBURG OH	STARK	9.98
404052081281900	UNNAMED C NR BOLIVAR OH	STARK	8.58
404136082001800	SHREVE C NR SHREVE OH	WAYNE	10.58
404140080351100	LONGS RN NR CALCUTTA OH	COLUMBIANA	13.10
404155081241400	BEAR RN NR CANTON OH	STARK	5.07
404206080520000	WILLIARD RN NR LISBON OH	COLUMBIANA	6.31
404210081023700	MUDDY F NR MINERVA OH	CARROLL	11.81
404229081352300	ELM RN AT BREWSTER OH	STARK	6.25
404254080324000	N F L BEAVER C AT FREDERICKTOWN OH	COLUMBIANA	193.03
404300081395000	NORTH FORK NR W LEBANON OH	WAYNE	16.83
404310081090800	HUGLE RN NR MALVERN OH	CARROLL	21.00
404423080502900	COLD RN NR LISBON OH	COLUMBIANA	31.77
404434081315500	PIGEON RN NR NAVARRE OH	STARK	9.52
404444081142700	BLACK RN NR ROBERTSVILLE OH	STARK	16.39
404505081041100	M B SANDY C NR MINERVA OH	COLUMBIANA	20.31
404507081022000	CONSER RN NR MINERVA OH	COLUMBIANA	15.44
404512081584800	UNNAMED C NR SHREVE OH	WAYNE	5.79
404544080415400	ELK RN AT ELKTON OH	COLUMBIANA	11.27
404554080301700	BRUSH RN NR NEGLEY OH		
404629080453500	LISBON C AT LISBON OH	COLUMBIANA	6.61
404655080455301	LISBON C AT LISBON OH	COLUMBIANA	6.18
404722080325700	LESLIE RN NR NEGLEY OH	COLUMBIANA	13.74
404756080355800	L BULL C NR ROGERS OH	COLUMBIANA	15.04
404808081302600	SIPPO C AT MASSILLON OH	STARK	17.27
404818081331700	W B SIPPO C AT MASSILLON OH	STARK	9.78
404831081301000	SIPPO C AT MASSILLON OH	STARK	16.16
404858081464900	L SUGAR C NR ORRVILLE OH	WAYNE	17.93
404909081163100	UNNAMED C NR LOUISVILLE OH	STARK	13.17
404922081330601	NEWMAN C NR MASSILLON OH	STARK	38.28
405022081242200	UNNAMED C AT AVONDALE OH	STARK	15.52
405027081554200	L APPLE C NR WOOSTER OH	WAYNE	9.07
405035080592300	UNNAMED C AT N GEORGETOWN OH	COLUMBIANA	9.44
405116080593900	UNNAMED C NR N GEORGETOWN OH	COLUMBIANA	10.25
405120081345100	FOX RN NR MASSILLON OH	STARK	13.17
405128081011500	BEAVER RN NR HOMEWORTH OH	COLUMBIANA	4.91
405233080452401	CHERRY VALLEY RN AT LEETONIA OH	COLUMBIANA	11.85
405322081004400	NAYLOR D NR SEBRING OH	COLUMBIANA	3.96
405405080583200	NAYLOR D NR DAMASCUS OH	COLUMBIANA	4.83
405432081294900	NIMISILA C NR N CANTON OH	STARK	8.26
405457081334301	NIMISILA C NR CANAL FULTON OH	SUMMIT	23.14
405606081082200	BEECH C NR ALLIANCE OH	STARK	17.74

TABLE 1.--LISTING OF HYDROLOGICAL SITES FOR WHICH DATA ARE PUBLISHED.--Continued

STATION NUMBER	STATION NAME	COUNTY NAME	DRAINAGE AREA (MI^2)
405610081403300	SILVER C NR CLINTON OH	WAYNE	8.39
405620081171300	SWARTZ D NR HARTVILLE OH	STARK	9.74
405645081484300	L CHIPPEWA C NR RITTMAN OH	WAYNE	26.55
405709081440300	MILL C AT EASTON OH	WAYNE	7.18
405758081485600	TOMMY RN NR RITTMAN OH	WAYNE	6.30
405823081004700	ISLAND C NR N BENTON OH	MAHONING	4.89
405830081462000	RIVER STYX AT RITTMAN OH	WAYNE	28.37
405843081094600	DEER C NR LIMAVILLE OH	STARK	32.54
405919081261300	UNNAMED C NR UNIONTOWN OH	SUMMIT	12.97
405926080345800	BURGESS RN NR NEW MIDDLETOWN OH	MAHONING	2.34
410001080580701	MILL C NR BERLIN CENTER OH	MAHONING	19.01
410010080363700	BURGESS RN AT POLAND OH	MAHONING	7.32
410024081380400	HUDSON RN AT BARBERTON OH	SUMMIT	11.78
410049080512800	W B MEANDER C AT ELLSWORTH OH	MAHONING	7.09
410128080415700	INDIAN RN NR BOARDMAN OH	MAHONING	14.34
410128080571600	TURKEY BROTH C AT BERLIN CENTER OH	MAHONING	5.45
410132081394400	HUDSON RN NR NORTON OH	SUMMIT	4.83
410318081363200	WOLF C NR BARBERTON OH	SUMMIT	28.80
410424081290400	L CUYAHOGA R AT AKRON OH	SUMMIT	48.33
410517081411500	WOLF C NR COPLEY OH	SUMMIT	20.67
410554081111500	BARREL RN NR ROOTSTOWN OH	PORTAGE	9.53
410644081365300	SCHOCALOG RN NR FAIRLAWN OH	SUMMIT	3.20
410705080512000	MORRISON RN NR N JACKSON OH	MAHONING	5.46
410715080440500	FOURMILE RN AT WICKLIFFE OH	MAHONING	2.59
410720080380801	CRAB C AT YOUNGSTOWN OH	MAHONING	14.00
410823080594301	KALE C NR NEWTON FALLS OH	TRUMBULL	21.90
410916081085101	HINKLEY C AT CHARLESTOWN OH	PORTAGE	7.85
411034080481800	MUD C NR NILES OH	TRUMBULL	13.36
411249080525100	L DUCK C NR LEAVITTSBURG OH	TRUMBULL	4.09
411738081072700	SILVER C NR GARRETTSVILLE OH	PORTAGE	9.00
411807081032600	TINKER C NR GARRETTSVILLE OH	PORTAGE	4.35
411836081055000	CAMP C NR GARRETTSVILLE OH	PORTAGE	3.96

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES

ANALYSES OF MISCELLANEOUS STATIONS

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	ACIDITY TOTAL HEATED (MG/L AS H)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)
382842082235300 - 041 INDIAN GUYAN C NR PROCTORVILLE OH (LAT 38 28 42 LONG 082 23 53)												
APR , 1979												
24...	1630	28	365	7.4	18.5	--	74	0	110	--	--	--
SEP												
13...	1045	8.8	375	7.1	19.5	--	101	0	79	0	<10	<10
382945082291700 - 041 LEATHERWOOD C NR CHESAPEAKE OH (LAT 38 29 45 LONG 082 29 17)												
APR , 1979												
24...	0930	1.4	380	8.0	15.0	--	106	0	86	--	--	--
SEP												
13...	1145	E.25	385	7.4	21.0	--	140	0	56	0	<10	<10
382958082372400 - 041 L ICE C NR COAL GROVE OH (LAT 38 29 58 LONG 082 37 24)												
APR , 1979												
23...	0810	5.7	430	7.4	14.5	--	92	0	110	--	--	--
383353082330600 - 041 DOG F AT KITTS HILL OH (LAT 38 33 53 LONG 082 33 06)												
APR , 1979												
23...	1545	1.1	370	8.8	18.5	--	66	12	93	--	--	--
SEP												
13...	1645	.26	435	7.4	21.0	--	137	0	71	0	<10	<10
383640082352700 - 041 PADDLE C NR KITTS HILL OH (LAT 38 36 40 LONG 082 35 27)												
APR , 1979												
23...	1245	.67	320	7.7	16.0	--	78	0	92	--	--	--
SEP												
13...	1430	E.10	335	7.2	21.0	--	122	0	59	0	<10	10
383644082313900 - 041 SHARPS C NR KITTS HILL OH (LAT 38 36 44 LONG 082 31 39)												
APR , 1979												
23...	1445	.90	340	8.1	18.0	--	75	0	100	--	--	--
SEP												
13...	1545	E.15	385	7.3	21.5	--	111	0	89	0	<10	10
383657082124900 - 041 SWAN C NR CROWN CITY OH (LAT 38 36 57 LONG 082 12 49)												
APR , 1979												
25...	0845	6.0	320	7.4	19.0	--	104	0	71	--	--	--
SEP												
13...	0845	1.1	325	7.2	20.0	--	110	0	68	0	<10	20
383842082272700 - 041 LONG C NR WATERLOO OH (LAT 38 38 42 LONG 082 27 27)												
APR , 1979												
24...	1400	4.0	330	7.6	19.0	--	85	0	86	--	--	--
SEP												
12...	1145	.52	390	7.2	20.0	--	127	0	62	0	<10	<10
383944082292600 - 041 AARON C NR WATERLOO OH (LAT 38 39 44 LONG 082 29 26)												
APR , 1979												
24...	1300	2.6	420	7.6	18.0	--	102	0	130	--	--	--
SEP												
12...	1345	.45	475	7.4	22.0	--	131	0	130	0	<10	10
384149082315400 - 041 BUCKEYE C NR WATERLOO OH (LAT 38 41 49 LONG 082 31 54)												
APR , 1979												
24...	1115	2.6	215	7.2	15.5	--	54	0	54	--	--	--
SEP												
12...	1545	.14	250	7.2	25.0	--	95	0	42	0	<10	10

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

ANALYSES OF MISCELLANEOUS STATIONS

DATE	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN)
382842082235300 - 041 INDIAN GUYAN C NR PROCTORVILLE OH (LAT 38 28 42 LONG 082 23 53)												
APR , 1979												
24...	--	--	590	60	--	--	190	190	--	--	--	--
SEP												
13...	10	<10	860	100	7900	<10	500	460	710	.00	0	20
382945082291700 - 041 LEATHERWOOD C NR CHESAPEAKE OH (LAT 38 29 45 LONG 082 29 17)												
APR , 1979												
24...	--	--	110	0	--	--	30	30	--	--	--	--
SEP												
13...	<10	<10	130	30	19000	20	80	80	690	.00	0	40
382958082372400 - 041 L ICE C NR COAL GROVE OH (LAT 38 29 58 LONG 082 37 24)												
APR , 1979												
23...	--	--	300	20	--	--	140	130	--	--	--	--
383353082330600 - 041 DOG F AT KITTS HILL OH (LAT 38 33 53 LONG 082 33 06)												
APR , 1979												
23...	--	--	130	20	--	--	10	0	--	--	--	--
SEP												
13...	10	<10	110	30	15000	10	50	40	510	.00	0	30
383640082352700 - 041 PADDLE C NR KITTS HILL OH (LAT 38 36 40 LONG 082 35 27)												
APR , 1979												
23...	--	--	90	40	--	--	30	30	--	--	--	--
SEP												
13...	20	10	280	10	28000	20	100	90	730	.00	0	60
383644082313900 - 041 SHARPS C NR KITTS HILL OH (LAT 38 36 44 LONG 082 31 39)												
APR , 1979												
23...	--	--	130	130	--	--	20	10	--	--	--	--
SEP												
13...	<10	<10	80	0	23000	20	20	10	600	.00	0	40
383657082124900 - 041 SWAN C NR CROWN CITY OH (LAT 38 36 57 LONG 082 12 49)												
APR , 1979												
25...	--	--	490	60	--	--	140	130	--	--	--	--
SEP												
13...	20	10	400	40	110000	20	190	190	650	.00	0	40
383842082272700 - 041 LONG C NR WATERLOO OH (LAT 38 38 42 LONG 082 27 27)												
APR , 1979												
24...	--	--	160	40	--	--	130	120	--	--	--	--
SEP												
12...	10	<10	350	70	11000	10	340	340	670	.00	0	80
383944082292600 - 041 AARON C NR WATERLOO OH (LAT 38 39 44 LONG 082 29 26)												
APR , 1979												
24...	--	--	320	0	--	--	140	140	--	--	--	--
SEP												
12...	20	10	550	70	15000	20	250	250	1200	.00	0	10
384149082315400 - 041 BUCKEYE C NR WATERLOO OH (LAT 38 41 49 LONG 082 31 54)												
APR , 1979												
24...	--	--	120	70	--	--	130	130	--	--	--	--
SEP												
12...	20	<10	730	160	15000	20	570	530	650	.00	0	10

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

--TABLE OF BENTHIC INVERTEBRATES--

	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER
	382842082235300	382945082291700	382958082372400	383353082330600	383640082352700
	79/09/13	79/09/13	79/09/10	79/09/13	79/09/13
BENTHIC INVERTEBRATES	-STATUS-	-STATUS-	-STATUS-	-STATUS-	-STATUS-
AQUATIC EARTHWORMS	--	--	--	COMMON	--
BEETLES ADULT	--	--	--	--	--
BEETLES LARVAE	--	--	--	--	--
BLACK FLIES	--	COMMON	--	--	PRESENT
CADDISFLIES CASES	--	COMMON	--	COMMON	COMMON
CADDISFLIES FREE-LIVING	--	COMMON	--	COMMON	COMMON
CLAM	--	--	--	--	--
CRAYFISH	--	COMMON	--	COMMON	COMMON
CYCLOPS	--	--	--	--	--
DAMSELFLIES	--	--	--	--	--
DRAGONFLIES	--	--	--	--	--
FISH	PRESENT	COMMON	--	COMMON	COMMON
FLAT WORMS	--	--	--	--	--
FROGS	--	--	--	--	--
HELLGRAMMITES	--	--	--	--	--
HORSE HAIR WORMS	--	--	--	--	--
ISOPOD	--	--	--	--	--
LEECHES	--	--	--	--	--
MAYFLIES	COMMON	COMMON	--	PRESENT	COMMON
MIDGES	PRESENT	COMMON	--	PRESENT	PRESENT
SALAMANDERS	--	--	--	--	--
SCUDS	--	--	--	--	--
SEED SHRIMP	--	--	--	--	--
SNAILS	--	--	--	--	--
STONEFLIES	--	--	--	--	--
WATER BOATMAN	--	--	--	--	--
WATER FLEA	--	--	--	--	--
WATER MITES	--	--	--	--	--
WATER SNAKE	--	--	--	--	--
WATER STRIDERS	--	COMMON	--	COMMON	COMMON

EXPLANATION

-- - 0 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
PRESENT - 20 OR LESS OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
COMMON - MORE THAN 20 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

--TABLE OF BENTHIC INVERTEBRATES--

	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER
	383644082313900	383657082124900	383842082272700	383944082292600	384149082315400
	79/09/13	79/09/13	79/09/12	79/09/12	79/09/12
BENTHIC INVERTEBRATES	-STATUS-	-STATUS-	-STATUS-	-STATUS-	-STATUS-
AQUATIC EARTHWORMS	--	--	--	PRESENT	--
BEETLES ADULT	--	--	--	--	--
BEETLES LARVAE	--	PRESENT	--	PRESENT	--
BLACK FLIES	PRESENT	COMMON	--	COMMON	PRESENT
CADDISFLIES CASES	COMMON	PRESENT	--	--	--
CADDISFLIES FREE-LIVING	COMMON	--	--	--	--
CLAM	--	--	--	--	--
CRAYFISH	COMMON	COMMON	--	PRESENT	PRESENT
CYCLOPS	--	--	--	--	--
DAMSELFLIES	--	--	--	--	--
DRAGONFLIES	--	--	--	--	--
FISH	COMMON	COMMON	COMMON	COMMON	COMMON
FLAT WORMS	--	--	--	--	--
FROGS	--	--	--	--	--
HELLGRAMMITES	--	--	--	--	--
HORSE HAIR WORMS	--	--	--	--	--
ISOPOD	--	--	--	--	--
LEECHES	--	--	--	--	--
MAYFLIES	COMMON	COMMON	PRESENT	COMMON	PRESENT
MIDGES	PRESENT	--	PRESENT	PRESENT	PRESENT
SALAMANDERS	--	--	--	--	--
SCUDS	--	--	--	--	--
SEED SHRIMP	--	--	--	--	--
SNAILS	PRESENT	--	--	--	--
STONEFLIES	--	--	--	--	--
WATER BOATMAN	--	--	--	--	--
WATER FLEA	--	--	--	--	--
WATER MITES	--	--	--	--	--
WATER SNAKE	--	--	--	--	--
WATER STRIDERS	COMMON	COMMON	COMMON	--	COMMON

EXPLANATION

-- - 0 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
PRESENT - 20 OR LESS OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
COMMON - MORE THAN 20 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

ANALYSES OF MISCELLANEOUS STATIONS

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	ACIDITY TOTAL HEATED (MG/L AS H)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	SULFATE DISSOLVED (MG/L AS SO4)	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G)
384312082481700 - 041 LICK RN NR WHEELERSBURG OH (LAT 38 43 12 LONG 082 48 17)												
APR , 1979												
25...	1330	2.6	207	7.9	20.0	--	36	0	57	--	--	--
SEP												
12...	1430	.38	350	7.4	24.5	--	110	0	49	0	<10	30
384401082145000 - 041 BULLSKIN C NR GALLIPOLIS OH (LAT 38 44 01 LONG 082 14 50)												
APR , 1979												
25...	1030	6.3	815	7.2	18.0	--	66	0	400	--	--	--
SEP												
12...	0815	3.3	910	7.2	18.0	--	77	0	390	0	<10	10
384452082181400 - 041 CLAYLICK RN NR NORTHUP OH (LAT 38 44 52 LONG 082 18 14)												
APR , 1979												
25...	1230	1.5	600	7.8	21.0	--	103	0	240	--	--	--
SEP												
12...	0945	.31	620	7.4	20.0	--	136	0	190	0	<10	30
384454082223500 - 041 SAND F SYMMES C NR WATERLOO OH (LAT 38 44 54 LONG 082 22 35)												
APR , 1979												
27...	0850	40	250	7.0	13.5	--	46	0	73	--	--	--
SEP												
11...	1820	4.6	305	7.3	21.0	--	68	0	80	0	<10	10
384603082503400 - 041 WARDS RN NR MINFORD OH (LAT 38 46 03 LONG 082 50 34)												
APR , 1979												
25...	1230	3.0	308	8.7	19.5	--	48	--	68	--	--	--
SEP												
12...	1230	1.4	290	7.3	21.0	--	77	0	54	0	<10	20
384817082391600 - 041 BRADY RN NR S WEBSTER OH (LAT 38 48 17 LONG 082 39 16)												
APR , 1979												
25...	1500	3.7	290	7.1	21.0	--	106	0	87	--	--	--
SEP												
12...	0930	.56	300	6.7	18.0	.2	65	0	110	0	<10	<10
384841082464000 - 041 FREDERICK C NR MINFORD OH (LAT 38 48 41 LONG 082 46 40)												
APR , 1979												
25...	1615	5.0	305	8.4	20.5	--	54	--	88	--	--	--
SEP												
12...	1100	1.0	375	7.2	19.5	--	74	0	90	0	<10	10
385007082305100 - 041 DIRTY FACE C NR GALLIA OH (LAT 38 50 07 LONG 082 30 51)												
APR , 1979												
27...	1045	10	125	6.9	13.5	.1	33	0	29	--	--	--
SEP												
11...	1545	E.85	165	6.7	19.5	.2	70	0	12	0	<10	<10
385027082131800 - 041 CHICKAMAUGA C NR GALLIPOLIS OH (LAT 38 50 27 LONG 082 13 18)												
APR , 1979												
25...	1545	3.7	440	8.4	23.0	--	113	9	110	--	--	--
SEP												
10...	1730	1.1	420	7.7	21.5	--	149	0	59	0	<10	<10

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

ANALYSES OF MISCELLANEOUS STATIONS

DATE	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN)
384312082481700 - 041 LICK RN NR WHEELERSBURG OH (LAT 38 43 12 LONG 082 48 17)												
APR , 1979												
25...	--	--	450	140	--	--	90	90	--	--	--	--
SEP												
12...	<10	<10	370	120	18000	20	240	240	570	.00	0	60
384401082145000 - 041 BULLSKIN C NR GALLIPOLIS OH (LAT 38 44 01 LONG 082 14 50)												
APR , 1979												
25...	--	--	550	0	--	--	1300	1200	--	--	--	--
SEP												
12...	20	<10	140	40	21000	20	590	570	680	.00	0	30
384452082181400 - 041 CLAYLICK RN NR NORTHUP OH (LAT 38 44 52 LONG 082 18 14)												
APR , 1979												
25...	--	--	250	30	--	--	80	50	--	--	--	--
SEP												
12...	30	20	60	10	4100	30	40	20	2200	.00	0	70
384454082223500 - 041 SAND F SYMMES C NR WATERLOO OH (LAT 38 44 54 LONG 082 22 35)												
APR , 1979												
27...	--	--	4800	30	--	--	440	250	--	--	--	--
SEP												
11...	40	<10	450	20	20000	20	290	270	1900	.00	0	100
384603082503400 - 041 WARDS RN NR MINFORD OH (LAT 38 46 03 LONG 082 50 34)												
APR , 1979												
25...	--	--	340	120	--	--	100	90	--	--	--	--
SEP												
12...	<10	<10	460	130	23000	10	140	140	380	.00	0	30
384817082391600 - 041 BRADY RN NR S WEBSTER OH (LAT 38 48 17 LONG 082 39 16)												
APR , 1979												
25...	--	--	1700	150	--	--	440	430	--	--	--	--
SEP												
12...	<10	<10	2100	220	19000	10	1000	1000	290	.00	0	30
384841082464000 - 041 FREDERICK C NR MINFORD OH (LAT 38 48 41 LONG 082 46 40)												
APR , 1979												
25...	--	--	260	80	--	--	70	70	--	--	--	--
SEP												
12...	10	10	340	200	25000	10	190	190	650	.00	0	60
385007082305100 - 041 DIRTY FACE C NR GALLIA OH (LAT 38 50 07 LONG 082 30 51)												
APR , 1979												
27...	--	--	680	30	--	--	120	120	--	--	--	--
SEP												
11...	<10	<10	1100	430	3800	<10	320	320	140	.00	0	10
385027082131800 - 041 CHICKAMAUGA C NR GALLIPOLIS OH (LAT 38 50 27 LONG 082 13 18)												
APR , 1979												
25...	--	--	770	20	--	--	150	110	--	--	--	--
SEP												
10...	20	<10	470	40	14000	20	140	130	790	.00	0	20

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

--TABLE OF BENTHIC INVERTEBRATES--

	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER
	384312082481700	384401082145000	384452082181400	384454082223500	384603082503400
	79/09/12	79/09/10	79/09/12	79/09/11	79/09/12
BENTHIC INVERTEBRATES	-STATUS-	-STATUS-	-STATUS-	-STATUS-	-STATUS-
AQUATIC EARTHWORMS	--	--	--	--	--
BEETLES ADULT	--	--	--	--	--
BEETLES LARVAE	--	--	PRESENT	--	--
BLACK FLIES	COMMON	PRESENT	--	--	COMMON
CADDISFLIES CASES	PRESENT	--	COMMON	--	COMMON
CADDISFLIES FREE-LIVING	PRESENT	--	--	--	COMMON
CLAM	--	--	--	--	--
CRAYFISH	--	--	COMMON	PRESENT	COMMON
CYCLOPS	--	--	--	--	--
DAMSELFLIES	--	--	--	--	--
DRAGONFLIES	PRESENT	--	--	--	PRESENT
FISH	PRESENT	--	COMMON	--	--
FLAT WORMS	--	--	--	--	--
FROGS	--	--	--	--	--
HELLGRAMMITES	--	--	--	--	--
HORSE HAIR WORMS	--	--	--	--	--
ISOPOD	--	--	--	--	PRESENT
LEECHES	--	--	--	--	--
MAYFLIES	--	PRESENT	COMMON	COMMON	COMMON
MIDGES	COMMON	PRESENT	COMMON	--	COMMON
SALAMANDERS	--	--	--	--	--
SCUDS	--	--	--	--	--
SEED SHRIMP	--	--	--	--	--
SNAILS	--	--	--	--	--
STONEFLIES	--	--	--	--	PRESENT
WATER BOATMAN	--	--	--	--	--
WATER FLEA	--	--	--	--	--
WATER MITES	--	--	--	--	--
WATER SNAKE	--	--	--	--	--
WATER STRIDERS	--	--	COMMON	--	PRESENT

EXPLANATION

-- - 0 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
PRESENT - 20 OR LESS OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
COMMON - MORE THAN 20 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

--TABLE OF BENTHIC INVERTEBRATES--

	SITE ID NUMBER 384817082391600 79/09/12	SITE ID NUMBER 384841082464000 79/09/12	SITE ID NUMBER 385007082305100 79/09/11	SITE ID NUMBER 385027082131800 79/09/10
BENTHIC INVERTEBRATES	-STATUS-	-STATUS-	-STATUS-	-STATUS-
AQUATIC EARTHWORMS	--	PRESENT	--	--
BEETLES ADULT	--	PRESENT	--	PRESENT
BEETLES LARVAE	--	--	PRESENT	--
BLACK FLIES	COMMON	COMMON	PRESENT	COMMON
CADDISFLIES CASES	PRESENT	PRESENT	--	PRESENT
CADDISFLIES FREE-LIVING	PRESENT	--	--	--
CLAM	--	--	--	--
CRAYFISH	--	--	PRESENT	PRESENT
CYCLOPS	--	--	--	--
DAMSELFLIES	PRESENT	--	--	--
DRAGONFLIES	PRESENT	PRESENT	--	--
FISH	--	--	COMMON	COMMON
FLAT WORMS	--	--	--	--
FROGS	--	--	--	--
HELLGRAMMITES	--	--	--	--
HORSE HAIR WORMS	--	--	--	--
ISOPOD	--	--	--	--
LEECHES	--	--	--	--
MAYFLIES	COMMON	COMMON	COMMON	COMMON
MIDGES	PRESENT	COMMON	PRESENT	COMMON
SALAMANDERS	--	--	--	--
SCUDS	--	--	--	--
SEED SHRIMP	--	--	--	--
SNAILS	--	--	--	--
STONEFLIES	--	--	--	--
WATER BOATMAN	--	--	--	--
WATER FLEA	--	--	--	--
WATER MITES	--	--	--	--
WATER SNAKE	--	--	--	--
WATER STRIDERS	COMMON	PRESENT	--	--

EXPLANATION

-- - 0 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
PRESENT - 20 OR LESS OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
COMMON - MORE THAN 20 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

ANALYSES OF MISCELLANEOUS STATIONS

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	ACIDITY TOTAL HEATED (MG/L AS H)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	SULFATE DISSOLVED (MG/L AS SO4)	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G)
385117082500900 - 041 LONG RN NR MINFORD OH (LAT 38 51 17 LONG 082 50 09)												
APR , 1979												
26...	0830	8.3	190	7.3	16.5	--	44	0	39	--	--	--
SEP												
12...	1600	2.1	255	7.3	23.0	--	68	0	36	0	<10	30
385316082521200 - 041 MCCONNEL C NR STOCKDALE OH (LAT 38 53 16 LONG 082 52 12)												
APR , 1979												
26...	1200	3.1	165	7.4	17.5	--	31	0	28	--	--	--
SEP												
13...	0900	.63	155	6.6	18.5	.1	40	0	19	0	<10	<10
385334082225800 - 041 L INDIAN C NR RIO GRANDE OH (LAT 38 53 34 LONG 082 22 58)												
APR , 1979												
26...	1750	6.0	125	7.0	17.5	--	29	0	29	--	--	--
SEP												
11...	1115	1.1	175	6.8	17.0	.1	52	0	21	0	<10	<10
385405082431000 - 041 HOLLAND F TR NR S WEBSTER OH (LAT 38 54 05 LONG 082 43 10)												
APR , 1979												
26...	1100	4.9	185	7.1	16.5	--	23	0	46	--	--	--
SEP												
11...	1430	.86	190	7.0	22.5	--	41	0	39	0	<10	<10
385406082450600 - 041 BUCKLICK C NR STOCKDALE OH (LAT 38 54 06 LONG 082 45 06)												
APR , 1979												
26...	1000	3.0	175	7.1	16.0	--	25	0	43	--	--	--
SEP												
12...	1730	.61	155	6.6	23.0	.2	42	0	28	0	<10	20
385412082191300 - 041 BARREN C NR HARRISBURG OH (LAT 38 54 12 LONG 082 19 13)												
APR , 1979												
26...	1645	2.3	315	7.3	18.5	--	108	0	49	--	--	--
SEP												
11...	0900	.62	350	7.2	17.5	--	129	0	34	0	<10	20
385418082131000 - 041 CHAMPAIGN C NR ADDISON OH (LAT 38 54 18 LONG 082 13 10)												
APR , 1979												
25...	1430	8.3	640	7.0	22.5	--	47	0	290	--	--	--
SEP												
09...	0830	1.8	580	7.3	16.0	--	108	0	150	0	<10	20
385740082430200 - 041 SUGARCAMP C NR STOCKDALE OH (LAT 38 57 40 LONG 082 43 02)												
APR , 1979												
25...	0800	1.8	182	6.7	14.0	.1	23	0	67	--	--	--
SEP												
11...	1800	.26	155	6.6	23.5	.2	36	0	40	0	<10	30
385809082474400 - 041 MCDOWELL C NR STOCKDALE OH (LAT 38 58 09 LONG 082 47 44)												
APR , 1979												
25...	0930	4.2	95	7.1	15.5	--	16	0	24	--	--	--
SEP												
13...	1000	.61	120	6.6	19.5	.1	28	0	21	0	<10	<10

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

ANALYSES OF MISCELLANEOUS STATIONS

DATE	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN)
385117082500900 - 041 LONG RN NR MINFORD OH (LAT 38 51 17 LONG 082 50 09)												
APR , 1979												
26...	--	--	310	130	--	--	80	80	--	--	--	--
SEP												
12...	10	<10	390	170	30000	30	40	40	890	.00	0	70
385316082521200 - 041 MCCONNEL C NR STOCKDALE OH (LAT 38 53 16 LONG 082 52 12)												
APR , 1979												
26...	--	--	800	290	--	--	120	120	--	--	--	--
SEP												
13...	<10	<10	1400	230	4600	<10	210	70	220	.00	0	10
385334082225800 - 041 L INDIAN C NR RIO GRANDE OH (LAT 38 53 34 LONG 082 22 58)												
APR , 1979												
26...	--	--	590	110	--	--	110	90	--	--	--	--
SEP												
11...	<10	<10	600	320	39000	20	340	340	760	.00	0	10
385405082431000 - 041 HOLLAND F TR NR S WEBSTER OH (LAT 38 54 05 LONG 082 43 10)												
APR , 1979												
26...	--	--	340	100	--	--	290	290	--	--	--	--
SEP												
11...	<10	<10	310	200	19000	10	120	120	270	.00	0	30
385406082450600 - 041 BUCKLICK C NR STOCKDALE OH (LAT 38 54 06 LONG 082 45 06)												
APR , 1979												
26...	--	--	380	80	--	--	260	250	--	--	--	--
SEP												
12...	10	<10	640	220	28000	10	290	270	540	.00	0	30
385412082191300 - 041 BARREN C NR HARRISBURG OH (LAT 38 54 12 LONG 082 19 13)												
APR , 1979												
26...	--	--	1000	270	--	--	380	380	--	--	--	--
SEP												
11...	20	20	710	140	20000	4200	190	160	1800	.00	0	30
385418082131000 - 041 CHAMPAIGN C NR ADDISON OH (LAT 38 54 18 LONG 082 13 10)												
APR , 1979												
25...	--	--	550	0	--	--	4700	4300	--	--	--	--
SEP												
09...	30	10	290	30	27000	10	2800	2600	2400	.00	0	80
385740082430200 - 041 SUGARCAMP C NR STOCKDALE OH (LAT 38 57 40 LONG 082 43 02)												
APR , 1979												
25...	--	--	460	150	--	--	120	100	--	--	--	--
SEP												
11...	10	10	800	80	59000	10	240	220	1500	.00	0	60
385809082474400 - 041 MCDOWELL C NR STOCKDALE OH (LAT 38 58 09 LONG 082 47 44)												
APR , 1979												
25...	--	--	250	70	--	--	20	20	--	--	--	--
SEP												
13...	10	<10	480	70	7100	10	90	90	150	.00	0	10

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

--TABLE OF BENTHIC INVERTEBRATES--

	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER
	385117082500900	385315082521200	385334082225800	385405082431000	385406082450600
	79/09/12	79/09/13	79/09/11	79/09/11	79/09/12
BENTHIC INVERTEBRATES	-STATUS-	-STATUS-	-STATUS-	-STATUS-	-STATUS-
AQUATIC EARTHWORMS	--	--	--	--	--
BEETLES ADULT	--	--	--	--	PRESENT
BEETLES LARVAE	PRESENT	PRESENT	PRESENT	--	--
BLACK FLIES	PRESENT	COMMON	--	PRESENT	--
CADDISFLIES CASES	COMMON	PRESENT	--	COMMON	COMMON
CADDISFLIES FREE-LIVING	COMMON	COMMON	--	PRESENT	COMMON
CLAM	--	--	--	--	--
CRAYFISH	COMMON	COMMON	COMMON	PRESENT	COMMON
CYCLOPS	--	--	--	--	--
DAMSELFLIES	--	--	--	PRESENT	--
DRAGONFLIES	--	--	--	PRESENT	COMMON
FISH	COMMON	--	COMMON	PRESENT	COMMON
FLAT WORMS	--	--	--	--	--
FROGS	--	--	--	--	--
HELLGRAMMITES	--	--	--	--	--
HORSE HAIR WORMS	--	--	--	--	--
ISOPOD	--	--	--	--	--
LEECHES	--	--	--	--	--
MAYFLIES	COMMON	COMMON	COMMON	COMMON	COMMON
MIDGES	COMMON	COMMON	PRESENT	COMMON	COMMON
SALAMANDERS	--	--	--	--	--
SCUDS	--	--	--	--	--
SEED SHRIMP	--	--	--	--	--
SNAILS	PRESENT	--	--	PRESENT	--
STONEFLIES	--	PRESENT	--	--	--
WATER BOATMAN	--	--	--	--	--
WATER FLEA	--	--	--	--	--
WATER MITES	--	--	--	--	--
WATER SNAKE	--	--	--	--	--
WATER STRIDERS	PRESENT	--	--	COMMON	--

EXPLANATION

-- - 0 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
PRESENT - 20 OR LESS OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
COMMON - MORE THAN 20 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

--TABLE OF BENTHIC INVERTEBRATES--

	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER
	385412082191300	385418082131000	385740082430200	385809082474400
	79/09/11	79/09/09	79/09/11	79/09/13
BENTHIC INVERTEBRATES	-STATUS-	-STATUS-	-STATUS-	-STATUS-
AQUATIC EARTHWORMS	--	--	--	--
BEETLES ADULT	--	--	PRESENT	PRESENT
BEETLES LARVAE	--	PRESENT	--	PRESENT
BLACK FLIES	COMMON	PRESENT	PRESENT	PRESENT
CADDISFLIES CASES	COMMON	COMMON	COMMON	PRESENT
CADDISFLIES FREE-LIVING	--	--	COMMON	PRESENT
CLAM	--	PRESENT	--	--
CRAYFISH	--	COMMON	COMMON	COMMON
CYCLOPS	--	--	--	--
DAMSELFLIES	--	--	--	--
DRAGONFLIES	--	--	PRESENT	COMMON
FISH	COMMON	COMMON	PRESENT	COMMON
FLAT WORMS	--	--	--	--
FROGS	--	--	--	--
HELLGRAMMITES	--	--	--	--
HORSE HAIR WORMS	--	--	--	--
ISOPOD	--	--	--	--
LEECHES	--	--	--	--
MAYFLIES	COMMON	PRESENT	COMMON	COMMON
MIDGES	COMMON	PRESENT	PRESENT	PRESENT
SALAMANDERS	--	--	--	--
SCUDS	--	--	--	--
SEED SHRIMP	--	--	--	--
SNAILS	--	--	PRESENT	--
STONEFLIES	--	--	PRESENT	--
WATER BOATMAN	--	--	--	--
WATER FLEA	--	--	--	--
WATER MITES	--	--	--	--
WATER SNAKE	--	--	--	--
WATER STRIDERS	COMMON	COMMON	--	--

EXPLANATION

-- - 0 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
PRESENT - 20 OR LESS OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
COMMON - MORE THAN 20 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

ANALYSES OF MISCELLANEOUS STATIONS

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	ACIDITY TOTAL HEATED (MG/L AS H)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)
385916082090200 - 041 JESSIE C NR RUTLAND OH (LAT 38 59 16 LONG 082 09 02)												
APR , 1979												
26...	1215	1.7	595	6.2	18.0	.2	8	0	280	--	--	--
SEP												
10...	1130	.46	705	5.1	20.5	.2	3	0	240	0	<10	<10
390010082370800 - 041 FOURMILE C NR JACKSON OH (LAT 39 00 10 LONG 082 37 08)												
APR , 1979												
24...	1315	3.8	200	7.2	15.5	--	29	0	52	--	--	--
SEP												
11...	1630	.53	180	7.0	20.0	--	57	0	38	0	<10	10
390024082281200 - 041 DICKASON RN NR THURMAN OH (LAT 39 00 24 LONG 082 28 12)												
APR , 1979												
24...	1115	13	350	5.3	15.0	.3	4	0	130	--	--	--
SEP												
13...	1230	3.2	360	6.2	20.0	.3	16	0	160	0	<10	10
390053082201000 - 041 STRONGS RN NR EWINGTON OH (LAT 39 00 53 LONG 082 20 10)												
APR , 1979												
26...	1545	8.1	160	7.1	17.5	--	37	0	35	--	--	--
SEP												
11...	1350	1.5	185	6.7	19.0	.3	69	0	21	0	<10	10
390150082081800 - 041 L LEADING C NR RUTLAND OH (LAT 39 01 50 LONG 082 08 18)												
APR , 1979												
26...	1400	11	565	6.8	17.5	.6	44	0	230	--	--	--
SEP												
10...	1415	1.7	590	6.9	18.0	.8	92	0	140	0	<10	<10
390221082515600 - 041 BUCKHOLLOW C NR BEAVER OH (LAT 39 02 21 LONG 082 51 56)												
APR , 1979												
24...	1430	2.7	160	7.1	19.0	--	15	0	44	--	--	--
SEP												
13...	1530	.43	205	6.1	21.5	.2	20	0	51	0	<10	20
390239082030800 - 041 E B THOMAS F NR POMEROY OH (LAT 39 02 39 LONG 082 03 08)												
APR , 1979												
25...	1500	5.3	700	6.6	21.0	.4	50	0	260	--	--	--
SEP												
27...	1425	5.1	690	6.6	17.0	.4	47	0	230	0	<10	<10
390254082442400 - 041 BUCKEYE C TR NR JACKSON OH (LAT 39 02 54 LONG 082 44 24)												
APR , 1979												
24...	1600	1.8	55	7.2	18.5	--	14	0	11	--	--	--
SEP												
13...	1400	.70	60	6.7	19.0	.1	26	0	7.1	0	<10	<10
390345082372300 - 041 SUGAR RN NR JACKSON OH (LAT 39 03 45 LONG 082 37 23)												
APR , 1979												
24...	1700	1.8	250	7.3	17.5	--	46	0	72	--	--	--
SEP												
11...	1230	.47	315	7.2	17.5	--	98	0	57	0	<10	<10

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

ANALYSES OF MISCELLANEOUS STATIONS

DATE	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN)
385916082090200 - 041 JESSIE C NR RUTLAND OH (LAT 38 59 16 LONG 082 09 02)												
APR , 1979												
26...	--	--	3200	70	--	--	5300	4900	--	--	--	--
SEP												
10...	<10	<10	200	130	7200	10	6600	6400	100	.00	0	60
390010082370800 - 041 FOURMILE C NR JACKSON OH (LAT 39 00 10 LONG 082 37 08)												
APR , 1979												
24...	--	--	--	70	--	--	--	290	--	--	--	--
SEP												
11...	10	<10	870	170	24000	10	310	310	600	.00	0	30
390024082281200 - 041 DICKASON RN NR THURMAN OH (LAT 39 00 24 LONG 082 28 12)												
APR , 1979												
24...	--	--	1400	1100	--	--	2200	2100	--	--	--	--
SEP												
13...	<10	20	1000	960	23000	20	3000	3000	190	.00	0	60
390053082201000 - 041 STRONGS RN NR EWINGTON OH (LAT 39 00 53 LONG 082 20 10)												
APR , 1979												
26...	--	--	800	130	--	--	200	200	--	--	--	--
SEP												
11...	<10	10	1300	280	24000	20	540	500	700	.00	0	70
390150082081800 - 041 L LEADING C NR RUTLAND OH (LAT 39 01 50 LONG 082 08 18)												
APR , 1979												
26...	--	--	690	60	--	--	940	920	--	--	--	--
SEP												
10...	20	<10	410	70	16000	20	1000	990	1000	.00	0	50
390221082515600 - 041 BUCKHOLLOW C NR BEAVER OH (LAT 39 02 21 LONG 082 51 56)												
APR , 1979												
24...	--	--	70	10	--	--	10	10	--	--	--	--
SEP												
13...	<10	<10	100	80	36000	10	20	20	330	.00	0	30
390239082030800 - 041 E B THOMAS F NR POMEROY OH (LAT 39 02 39 LONG 082 03 08)												
APR , 1979												
25...	--	--	1800	330	--	--	1900	1800	--	--	--	--
SEP												
27...	10	<10	2000	460	17000	10	2200	1900	220	.00	0	50
390254082442400 - 041 BUCKEYE C TR NR JACKSON OH (LAT 39 02 54 LONG 082 44 24)												
APR , 1979												
24...	--	--	470	150	--	--	120	120	--	--	--	--
SEP												
13...	<10	<10	670	150	2400	<10	180	180	30	.00	0	10
390345082372300 - 041 SUGAR RN NR JACKSON OH (LAT 39 03 45 LONG 082 37 23)												
APR , 1979												
24...	--	--	430	140	--	--	190	190	--	--	--	--
SEP												
11...	10	10	630	90	31000	10	340	330	790	.00	0	50

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

--TABLE OF BENTHIC INVERTEBRATES--

	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER
	385916082090200	390010082370800	390024082281200	390053082201000	390150082081800
	79/09/10	79/09/11	79/09/13	79/09/11	79/09/10
BENTHIC INVERTEBRATES	-STATUS-	-STATUS-	-STATUS-	-STATUS-	-STATUS-
AQUATIC EARTHWORMS	--	--	--	--	--
BEETLES ADULT	PRESENT	--	--	PRESENT	--
BEETLES LARVAE	--	--	--	--	PRESENT
BLACK FLIES	--	COMMON	PRESENT	PRESENT	--
CADDISFLIES CASES	--	PRESENT	COMMON	--	--
CADDISFLIES FREE-LIVING	--	PRESENT	COMMON	--	--
CLAM	--	--	--	--	--
CRAYFISH	--	PRESENT	--	--	PRESENT
CYCLOPS	--	--	--	--	--
DAMSELFLIES	--	PRESENT	--	--	--
DRAGONFLIES	--	PRESENT	PRESENT	--	--
FISH	--	--	--	COMMON	COMMON
FLAT WORMS	--	--	--	--	--
FROGS	--	--	PRESENT	--	--
HELLGRAMMITES	--	--	--	--	--
HORSE HAIR WORMS	--	--	--	--	--
ISOPOD	--	--	--	--	--
LEECHES	--	--	--	--	--
MAYFLIES	--	COMMON	--	COMMON	PRESENT
MIDGES	--	PRESENT	COMMON	PRESENT	--
SALAMANDERS	--	--	--	--	--
SCUDS	--	--	--	--	--
SEED SHRIMP	--	--	--	--	--
SNAILS	--	--	--	PRESENT	--
STONEFLIES	PRESENT	--	--	--	--
WATER BOATMAN	--	--	--	--	--
WATER FLEA	--	--	--	--	--
WATER MITES	--	--	--	--	--
WATER SNAKE	--	--	--	--	--
WATER STRIDERS	--	COMMON	--	COMMON	COMMON

EXPLANATION

-- - 0 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
PRESENT - 20 OR LESS OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
COMMON - MORE THAN 20 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

--TABLE OF BENTHIC INVERTEBRATES--

	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER
	390221082515600	390239082030800	390254082442400	390345082372300
	79/09/13	79/09/27	79/09/13	79/09/11
BENTHIC INVERTEBRATES	-STATUS-	-STATUS-	-STATUS-	-STATUS-
AQUATIC EARTHWORMS	--	--	--	--
BEETLES ADULT	PRESENT	--	PRESENT	--
BEETLES LARVAE	--	PRESENT	PRESENT	PRESENT
BLACK FLIES	--	--	COMMON	--
CADDISFLIES CASES	PRESENT	--	COMMON	--
CADDISFLIES FREE-LIVING	PRESENT	--	PRESENT	--
CLAM	--	--	--	--
CRAYFISH	--	--	COMMON	PRESENT
CYCLOPS	--	--	--	--
DAMSELFLIES	PRESENT	--	--	COMMON
DRAGONFLIES	--	--	PRESENT	PRESENT
FISH	PRESENT	--	--	COMMON
FLAT WORMS	--	--	--	--
FROGS	--	--	--	--
HELLGRAMMITES	--	--	--	--
HORSE HAIR WORMS	--	--	--	--
ISOPOD	--	--	--	--
LEECHES	--	--	--	--
MAYFLIES	COMMON	--	COMMON	COMMON
MIDGES	COMMON	--	COMMON	PRESENT
SALAMANDERS	--	--	--	--
SCUDS	--	--	--	--
SEED SHRIMP	--	--	--	--
SNAILS	PRESENT	--	PRESENT	--
STONEFLIES	--	--	--	--
WATER BOATMAN	--	--	--	--
WATER FLEA	PRESENT	--	--	--
WATER MITES	--	--	--	--
WATER SNAKE	--	--	--	--
WATER STRIDERS	PRESENT	COMMON	COMMON	--

EXPLANATION

-- - 0 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
PRESENT - 20 OR LESS OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
COMMON - MORE THAN 20 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

ANALYSES OF MISCELLANEOUS STATIONS

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	ACIDITY TOTAL HEATED (MG/L AS H)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)
390611081514400 - 041 E B SHADE R NR LONG BOTTOM OH (LAT 39 06 11 LONG 081 51 44)												
APR , 1979												
25...	1815	23	330	7.8	19.0	--	150	0	43	--	--	--
SEP												
13...	1545	6.5	385	8.0	20.5	--	208	0	28	0	<10	<10
390622082131000 - 041 MUD F LEADING C NR DEXTER OH (LAT 39 06 22 LONG 082 13 10)												
APR , 1979												
26...	1300	4.3	470	7.6	19.0	--	93	0	160	--	--	--
390634082313600 - 041 MEADOW RN AT WELLSTON OH (LAT 39 06 34 LONG 082 31 36)												
APR , 1979												
24...	0945	2.9	340	6.8	14.5	.2	23	0	120	--	--	--
SEP												
11...	1030	.68	310	7.1	17.0	--	88	0	64	0	<10	10
390648082005600 - 041 KINGSBURY C NR POMEROY OH (LAT 39 06 48 LONG 082 00 56)												
APR , 1979												
25...	1400	6.9	320	7.4	20.0	--	58	0	96	--	--	--
SEP												
13...	1800	2.0	370	8.0	21.0	--	96	0	97	0	<10	10
390711081482400 - 041 FORKED RN NR LONG BOTTOM OH (LAT 39 07 11 LONG 081 48 24)												
APR , 1979												
26...	1045	1.3	260	7.6	16.5	--	75	0	32	--	--	--
SEP												
13...	1400	.08	260	7.6	21.0	--	94	0	21	0	<10	20
390828082224900 - 041 PIERCE RN NR RADCLIFF OH (LAT 39 08 28 LONG 082 22 49)												
APR , 1979												
24...	0800	5.5	340	5.7	14.5	.3	5	0	140	--	--	--
SEP												
11...	0900	1.9	450	6.2	17.0	.3	15	0	170	0	<10	<10
391148081583000 - 041 PRATT F M B SHADE R NR SHADE OH (LAT 39 11 48 LONG 081 58 30)												
APR , 1979												
25...	1230	4.6	510	8.0	20.0	--	147	0	80	--	--	--
SEP												
27...	1020	4.7	450	7.8	15.5	--	146	0	60	0	<10	<10
391241082425300 - 041 M F SALT C NR RICHMOND DALE OH (LAT 39 12 41 LONG 082 42 53)												
APR , 1979												
23...	1545	31	150	7.0	14.5	--	24	0	33	--	--	--
SEP												
10...	1630	9.8	165	7.1	20.0	--	50	0	27	0	<10	<10
391435082281800 - 041 PUNCHEON F AT MCARTHUR OH (LAT 39 14 35 LONG 082 28 18)												
APR , 1979												
23...	1720	5.1	320	6.6	15.5	.2	18	0	100	--	--	--
SEP												
10...	1900	1.6	370	6.8	20.0	.4	48	0	110	0	<10	10
391453082430100 - 041 NO NAME C NR LONDONDERRY OH (LAT 39 14 53 LONG 082 43 01)												
APR , 1979												
23...	1430	1.4	109	6.9	13.0	.1	2	0	26	--	--	--
SEP												
10...	1530	.29	90	7.1	22.0	--	36	0	24	0	<10	20

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

ANALYSES OF MISCELLANEOUS STATIONS

DATE	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN)
390611081514400 - 041 E B SHADE R NR LONG BOTTOM OH (LAT 39 06 11 LONG 081 51 44)												
APR , 1979												
25...	--	--	1000	30	--	--	160	130	--	--	--	--
SEP												
13...	10	<10	620	50	11000	<10	180	170	460	.00	0	60
390622082131000 - 041 MUD F LEADING C NR DEXTER OH (LAT 39 06 22 LONG 082 13 10)												
APR , 1979												
26...	--	--	850	10	--	--	290	270	--	--	--	--
390634082313600 - 041 MEADOW RN AT WELLSTON OH (LAT 39 06 34 LONG 082 31 36)												
APR , 1979												
24...	--	--	110	50	--	--	300	300	--	--	--	--
SEP												
11...	<10	20	590	100	16000	20	740	740	410	.00	0	40
390648082005600 - 041 KINGSBURY C NR POMEROY OH (LAT 39 06 48 LONG 082 00 56)												
APR , 1979												
25...	--	--	540	40	--	--	460	460	--	--	--	--
SEP												
13...	<10	<10	620	100	10000	10	490	460	290	.00	0	70
390711081482400 - 041 FORKED RN NR LONG BOTTOM OH (LAT 39 07 11 LONG 081 48 24)												
APR , 1979												
26...	--	--	750	30	--	--	180	180	--	--	--	--
SEP												
13...	10	10	510	70	23000	10	270	220	800	.00	0	70
390828082224900 - 041 PIERCE RN NR RADCLIFF OH (LAT 39 08 28 LONG 082 22 49)												
APR , 1979												
24...	--	--	2000	2000	--	--	2400	2300	--	--	--	--
SEP												
11...	<10	<10	1600	1300	11000	<10	4000	4000	100	.00	0	20
391148081583000 - 041 PRATT F M B SHADE R NR SHADE OH (LAT 39 11 48 LONG 081 58 30)												
APR , 1979												
25...	--	--	770	20	--	--	170	160	--	--	--	--
SEP												
27...	10	<10	730	30	13000	<10	150	130	350	.00	0	30
391241082425300 - 041 M F SALT C NR RICHMOND DALE OH (LAT 39 12 41 LONG 082 42 53)												
APR , 1979												
23...	--	--	790	150	--	--	200	180	--	--	--	--
SEP												
10...	<10	<10	1400	390	3400	<10	250	250	180	.00	0	10
391435082281800 - 041 PUNCHEON F AT MCARTHUR OH (LAT 39 14 35 LONG 082 28 18)												
APR , 1979												
23...	--	--	550	330	--	--	1500	1500	--	--	--	--
SEP												
10...	20	20	2600	150	59000	20	1900	1900	450	.00	0	60
391453082430100 - 041 NO NAME C NR LONDONDERRY OH (LAT 39 14 53 LONG 082 43 01)												
APR , 1979												
23...	--	--	100	100	--	--	10	10	--	--	--	--
SEP												
10...	10	<10	210	60	34000	10	70	70	760	.00	0	50

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

--TABLE OF BENTHIC INVERTEBRATES--

	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER
	390611081514400	390622082131000	390634082313600	390648082005600	390711081482400
	79/09/13	79/09/10	79/09/11	79/09/13	79/09/13
BENTHIC INVERTEBRATES	-STATUS-	-STATUS-	-STATUS-	-STATUS-	-STATUS-
AQUATIC EARTHWORMS	--	--	--	--	--
BEETLES ADULT	--	--	--	COMMON	--
BEETLES LARVAE	--	--	--	--	--
BLACK FLIES	COMMON	--	COMMON	--	PRESENT
CADDISFLIES CASES	COMMON	--	COMMON	--	COMMON
CADDISFLIES FREE-LIVING	COMMON	PRESENT	COMMON	--	--
CLAM	--	--	--	--	--
CRAYFISH	PRESENT	--	COMMON	COMMON	PRESENT
CYCLOPS	--	--	--	--	--
DAMSELFLIES	--	--	--	--	--
DRAGONFLIES	PRESENT	PRESENT	PRESENT	--	--
FISH	COMMON	--	--	--	COMMON
FLAT WORMS	COMMON	--	--	--	--
FROGS	--	--	--	--	--
HELLGRAMMITES	--	--	--	--	--
HORSE HAIR WORMS	--	--	--	--	--
ISOPOD	--	--	--	--	--
LEECHES	--	--	PRESENT	--	--
MAYFLIES	COMMON	PRESENT	PRESENT	COMMON	COMMON
MIDGES	COMMON	COMMON	COMMON	--	COMMON
SALAMANDERS	--	--	--	--	--
SCUDS	--	PRESENT	--	--	--
SEED SHRIMP	--	--	--	--	--
SNAILS	--	--	--	--	--
STONEFLIES	COMMON	--	--	--	COMMON
WATER BOATMAN	--	--	--	--	--
WATER FLEA	--	--	PRESENT	--	--
WATER MITES	--	--	--	--	--
WATER SNAKE	--	--	--	--	--
WATER STRIDERS	--	--	COMMON	--	--

EXPLANATION

-- - 0 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
PRESENT - 20 OR LESS OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
COMMON - MORE THAN 20 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

--TABLE OF BENTHIC INVERTEBRATES--

	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER
	390828082224900	391148081583000	391241082425300	391435082281800	391453082430100
	79/09/11	79/09/27	79/09/10	79/09/10	79/09/10
BENTHIC INVERTEBRATES	-STATUS-	-STATUS-	-STATUS-	-STATUS-	-STATUS-
AQUATIC EARTHWORMS	--	--	--	--	--
BEETLES ADULT	PRESENT	--	--	--	--
BEETLES LARVAE	--	PRESENT	--	--	PRESENT
BLACK FLIES	--	--	PRESENT	--	--
CADDISFLIES CASES	COMMON	COMMON	PRESENT	--	COMMON
CADDISFLIES FREE-LIVING	--	--	--	PRESENT	COMMON
CLAM	--	--	PRESENT	--	--
CRAYFISH	COMMON	--	--	PRESENT	COMMON
CYCLOPS	--	--	--	--	--
DAMSELFLIES	COMMON	--	--	--	--
DRAGONFLIES	PRESENT	--	--	--	PRESENT
FISH	--	--	--	--	COMMON
FLAT WORMS	--	--	--	--	--
FROGS	--	--	--	--	--
HELLGRAMMITES	--	--	--	--	--
HORSE HAIR WORMS	--	--	--	--	--
ISOPOD	--	--	--	--	--
LEECHES	--	--	--	--	--
MAYFLIES	--	--	COMMON	--	COMMON
MIDGES	--	--	PRESENT	PRESENT	PRESENT
SALAMANDERS	--	--	--	--	--
SCUDS	--	--	--	--	--
SEED SHRIMP	--	--	--	--	--
SNAILS	--	--	--	COMMON	PRESENT
STONEFLIES	--	--	--	--	--
WATER BOATMAN	--	--	--	--	--
WATER FLEA	--	--	--	--	--
WATER MITES	--	--	--	--	--
WATER SNAKE	--	--	--	--	--
WATER STRIDERS	--	PRESENT	--	--	--

EXPLANATION

-- - 0 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
PRESENT - 20 OR LESS OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
COMMON - MORE THAN 20 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

ANALYSES OF MISCELLANEOUS STATIONS

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	ACIDITY TOTAL HEATED (MG/L AS H)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)
391604082022300 - 041 LONG RN NR ATHENS OH (LAT 39 16 04 LONG 082 02 23)												
APR , 1979												
25...	1100	2.2	640	7.9	18.0	--	156	0	210	--	--	--
SEP												
13...	1930	2.1	680	7.6	19.5	--	150	0	220	0	<10	30
391720082463800 - 041 POE RN AT LONDONDERRY OH (LAT 39 17 20 LONG 082 46 38)												
APR , 1979												
23...	1000	5.3	172	7.0	11.0	--	20	0	56	--	--	--
SEP												
10...	1130	.74	230	7.2	16.0	--	44	0	71	0	<10	30
391743082100100 - 041 W B MARGARET C NR NEW MARSHFIELD OH (LAT 39 17 43 LONG 082 10 01)												
APR , 1979												
25...	0915	4.7	235	7.3	17.5	--	72	0	45	--	--	--
SEP												
12...	1800	.79	220	7.2	25.5	--	88	0	28	0	<10	30
391805081434200 - 041 L W B L HOCKING R NR LITTLE HOCKING OH (LAT 39 18 05 LONG 081 43 42)												
APR , 1979												
24...	1245	1.5	350	8.0	16.0	--	100	0	92	--	--	--
SEP												
12...	1445	.24	360	7.4	20.5	--	114	0	59	0	<10	10
391810081453000 - 041 W B L HOCKING R NR CUTLER OH (LAT 39 18 10 LONG 081 45 30)												
APR , 1979												
24...	1335	12	270	7.6	17.5	--	87	0	56	--	--	--
SEP												
13...	1200	1.9	310	7.2	19.0	--	120	0	39	0	<10	30
391903082164200 - 041 HEWETT F NR ALBANY OH (LAT 39 19 03 LONG 082 16 42)												
APR , 1979												
26...	0855	18	570	3.7	17.5	1.2	0	0	260	--	--	--
SEP												
13...	0915	4.8	780	3.5	18.5	3.5	0	0	370	0	<10	10
391915082274600 - 041 BRUSHY F NR CREOLA OH (LAT 39 19 15 LONG 082 27 46)												
APR , 1979												
26...	1255	15	315	4.2	16.0	.9	0	0	120	--	--	--
SEP												
13...	1345	2.4	480	3.6	19.5	1.6	0	0	180	0	<10	10
391950082390200 - 041 PRETTY RN NR LONDONDERRY OH (LAT 39 19 50 LONG 082 39 02)												
APR , 1979												
23...	1120	10	108	7.0	11.5	--	12	0	27	--	--	--
SEP												
10...	1400	3.1	120	7.2	20.5	--	24	0	24	--	--	--
391951082082400 - 041 FACTORY C NR THE PLAINS OH (LAT 39 19 51 LONG 082 08 24)												
APR , 1979												
25...	0815	3.5	290	7.5	16.5	--	78	0	70	--	--	--
SEP												
12...	1930	.41	310	7.1	20.0	--	108	0	56	0	<10	20

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

ANALYSES OF MISCELLANEOUS STATIONS

DATE	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN)
391604082022300 - 041 LONG RN NR ATHENS OH (LAT 39 16 04 LONG 082 02 23)												
APR , 1979												
25...	--	--	200	30	--	--	120	110	--	--	--	--
SEP												
13...	20	20	180	60	31000	20	60	60	1200	.00	0	60
391720082463800 - 041 POE RN AT LONDONDERRY OH (LAT 39 17 20 LONG 082 46 38)												
APR , 1979												
23...	--	--	90	10	--	--	30	30	--	--	--	--
SEP												
10...	10	10	170	70	69000	30	120	120	1400	.00	0	70
391743082100100 - 041 W B MARGARET C NR NEW MARSHFIELD OH (LAT 39 17 43 LONG 082 10 01)												
APR , 1979												
25...	--	--	510	40	--	--	260	240	--	--	--	--
SEP												
12...	30	20	720	290	58000	50	210	160	3100	.00	0	110
391805081434200 - 041 L W B L HOCKING R NR LITTLE HOCKING OH (LAT 39 18 05 LONG 081 43 42)												
APR , 1979												
24...	--	--	180	10	--	--	60	60	--	--	--	--
SEP												
12...	10	<10	180	30	13000	10	140	140	600	.00	0	20
391810081453000 - 041 W B L HOCKING R NR CUTLER OH (LAT 39 18 10 LONG 081 45 30)												
APR , 1979												
24...	--	--	280	40	--	--	80	60	--	--	--	--
SEP												
13...	20	40	290	60	20000	290	100	90	1800	.00	0	210
391903082164200 - 041 HEWETT F NR ALBANY OH (LAT 39 19 03 LONG 082 16 42)												
APR , 1979												
26...	--	--	2200	1700	--	--	2100	2100	--	--	--	--
SEP												
13...	<10	<10	1700	1100	48000	10	3800	3800	70	.00	0	20
391915082274600 - 041 BRUSHY F NR CREOLA OH (LAT 39 19 15 LONG 082 27 46)												
APR , 1979												
26...	--	--	6300	2300	--	--	2500	2500	--	--	--	--
SEP												
13...	10	<10	8900	1800	37000	10	4500	4400	120	.00	0	30
391950082390200 - 041 PRETTY RN NR LONDONDERRY OH (LAT 39 19 50 LONG 082 39 02)												
APR , 1979												
23...	--	--	60	20	--	--	0	0	--	--	--	--
SEP												
10...	--	--	160	50	--	--	20	20	--	--	--	--
391951082082400 - 041 FACTORY C NR THE PLAINS OH (LAT 39 19 51 LONG 082 08 24)												
APR , 1979												
25...	--	--	370	40	--	--	110	100	--	--	--	--
SEP												
12...	10	<10	340	140	29000	10	120	100	720	.00	0	40

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

--TABLE OF BENTHIC INVERTEBRATES--

	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER
	391604082022300	391720082463800	391743082100100	391805081434200	391810081453000
	79/09/11	79/09/10	79/09/12	79/09/12	79/09/13
BENTHIC INVERTEBRATES	-STATUS-	-STATUS-	-STATUS-	-STATUS-	-STATUS-
AQUATIC EARTHWORMS	--	--	--	--	PRESENT
BEETLES ADULT	PRESENT	--	--	--	--
BEETLES LARVAE	--	PRESENT	PRESENT	--	--
BLACK FLIES	PRESENT	PRESENT	COMMON	--	--
CADDISFLIES CASES	--	--	--	COMMON	COMMON
CADDISFLIES FREE-LIVING	PRESENT	PRESENT	--	--	--
CLAM	--	--	PRESENT	--	PRESENT
CRAYFISH	--	COMMON	COMMON	COMMON	COMMON
CYCLOPS	--	--	--	--	--
DAMSELFLIES	--	PRESENT	PRESENT	--	--
DRAGONFLIES	--	PRESENT	PRESENT	--	--
FISH	--	--	--	COMMON	COMMON
FLAT WORMS	--	--	PRESENT	--	--
FROGS	--	--	--	--	--
HELLGRAMMITES	--	--	--	--	--
HORSE HAIR WORMS	--	--	--	--	--
ISOPOD	--	--	--	--	--
LEECHES	--	--	--	--	--
MAYFLIES	PRESENT	PRESENT	COMMON	COMMON	COMMON
MIDGES	PRESENT	PRESENT	COMMON	--	COMMON
SALAMANDERS	--	--	--	--	--
SCUDS	--	--	--	--	--
SEED SHRIMP	--	--	--	--	--
SNAILS	--	PRESENT	--	--	--
STONEFLIES	--	PRESENT	--	COMMON	PRESENT
WATER BOATMAN	--	--	--	--	--
WATER FLEA	--	--	--	--	--
WATER MITES	--	--	--	--	--
WATER SNAKE	--	--	--	--	--
WATER STRIDERS	--	COMMON	--	COMMON	--

EXPLANATION

-- - 0 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
PRESENT - 20 OR LESS OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
COMMON - MORE THAN 20 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

--TABLE OF BENTHIC INVERTEBRATES--

	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER
	391903082164200	391915082274600	391950082390200	391951082082400
	79/09/13	79/09/11	79/09/10	79/09/12
BENTHIC INVERTEBRATES	-STATUS-	-STATUS-	-STATUS-	-STATUS-
AQUATIC EARTHWORMS	--	--	--	--
BEETLES ADULT	--	PRESENT	PRESENT	--
BEETLES LARVAE	--	--	--	PRESENT
BLACK FLIES	--	PRESENT	--	COMMON
CADDISFLIES CASES	--	PRESENT	PRESENT	COMMON
CADDISFLIES FREE-LIVING	COMMON	--	PRESENT	--
CLAM	--	--	--	PRESENT
CRAYFISH	--	--	COMMON	PRESENT
CYCLOPS	--	--	--	--
DAMSELFLIES	--	--	--	PRESENT
DRAGONFLIES	COMMON	--	--	PRESENT
FISH	--	--	COMMON	COMMON
FLAT WORMS	--	--	--	--
FROGS	--	--	--	--
HELLGRAMMITES	PRESENT	--	--	--
HORSE HAIR WORMS	--	--	--	--
ISOPOD	--	--	--	--
LEECHES	--	--	--	--
MAYFLIES	--	--	COMMON	COMMON
MIDGES	COMMON	PRESENT	COMMON	COMMON
SALAMANDERS	--	--	--	--
SCUDS	--	--	--	--
SEED SHRIMP	--	--	--	--
SNAILS	--	--	--	--
STONEFLIES	--	--	--	PRESENT
WATER BOATMAN	--	--	--	--
WATER FLEA	--	--	--	--
WATER MITES	--	--	PRESENT	--
WATER SNAKE	--	--	PRESENT	--
WATER STRIDERS	COMMON	--	--	--

EXPLANATION

-- - 0 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
PRESENT - 20 OR LESS OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
COMMON - MORE THAN 20 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

ANALYSES OF MISCELLANEOUS STATIONS

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	ACIDITY TOTAL HEATED (MG/L AS H)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)
392001082195601 - 041 SANDY RN NR ZALESKI OH (LAT 39 20 01 LONG 082 19 56.01)												
APR , 1979												
26...	1025	2.9	290	4.1	14.5	.4	0	0	120	--	--	--
SEP												
13...	1100	.50	710	3.7	18.0	3.7	0	0	250	0	<10	<10
392010081371600 - 041 E B L HOCKING R NR BELPRE OH (LAT 39 20 10 LONG 081 37 16)												
APR , 1979												
24...	0950	3.9	370	7.8	15.5	--	140	0	72	--	--	--
SEP												
12...	1200	.33	430	7.5	23.0	--	155	0	42	0	<10	30
392108082432100 - 041 PIKE RN NR LONDONDERRY OH (LAT 39 21 08 LONG 082 43 21)												
APR , 1979												
23...	1230	6.2	112	6.9	12.5	.1	17	0	27	--	--	--
SEP												
10...	1300	.88	140	7.1	19.0	--	31	0	24	0	<10	20
392205081524800 - 041 MARIETTA RN NR STEWART OH (LAT 39 22 05 LONG 081 52 48)												
APR , 1979												
24...	1530	7.0	420	7.5	18.0	--	162	0	95	--	--	--
SEP												
11...	1030	1.6	590	7.7	17.5	--	198	0	130	0	<10	10
392224081391400 - 041 TUPPER C AT VINCENT OH (LAT 39 22 24 LONG 081 39 14)												
APR , 1979												
24...	1110	1.8	385	8.0	16.0	--	120	0	83	--	--	--
SEP												
12...	1030	.09	450	7.3	18.5	--	148	0	60	0	<10	30
392250081592900 - 041 MUSH RN NR AMESVILLE OH (LAT 39 22 50 LONG 081 59 29)												
APR , 1979												
24...	1800	6.8	435	8.0	19.0	--	200	0	53	--	--	--
SEP												
10...	1200	2.0	475	7.4	16.0	--	226	0	34	0	<10	10
392324081350000 - 041 BROWNS RN NR BARLOW OH (LAT 39 23 24 LONG 081 35 00)												
APR , 1979												
23...	1215	.90	460	8.3	15.5	--	147	--	88	--	--	--
SEP												
11...	1615	.20	560	7.6	20.0	--	196	0	70	0	<10	60
392348082220200 - 041 E B RACCOON C NR NEW PLYMOUTH OH (LAT 39 23 48 LONG 082 22 02)												
APR , 1979												
26...	1550	11	1150	3.5	15.0	3.6	0	0	620	--	--	--
SEP												
25...	1330	16	870	3.6	14.5	2.8	0	0	400	0	<10	10
392350082255200 - 041 HONEY F NR NEW PLYMOUTH OH (LAT 39 23 50 LONG 082 25 52)												
APR , 1979												
26...	1430	4.6	210	7.3	15.5	--	26	0	56	--	--	--
SEP												
13...	1500	1.6	225	7.5	19.0	--	48	0	45	0	<10	20

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

ANALYSES OF MISCELLANEOUS STATIONS

DATE	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN)
392001082195601 - 041 SANDY RN NR ZALESKI OH (LAT 39 20 01 LONG 082 19 56.01)												
APR , 1979												
26...	--	--	650	360	--	--	920	920	--	--	--	--
SEP												
13...	<10	<10	1000	830	15000	10	3800	3800	120	.00	0	20
392010081371600 - 041 E B L HOCKING R NR BELPRE OH (LAT 39 20 10 LONG 081 37 16)												
APR , 1979												
24...	--	--	200	30	--	--	60	40	--	--	--	--
SEP												
12...	10	10	250	30	27000	20	140	100	1200	.00	0	80
392108082432100 - 041 PIKE RN NR LONDONDERRY OH (LAT 39 21 08 LONG 082 43 21)												
APR , 1979												
23...	--	--	120	10	--	--	10	10	--	--	--	--
SEP												
10...	<10	<10	200	70	44000	20	50	50	500	.00	0	40
392205081524800 - 041 MARIETTA RN NR STEWART OH (LAT 39 22 05 LONG 081 52 48)												
APR , 1979												
24...	--	--	1800	20	--	--	800	800	--	--	--	--
SEP												
11...	<10	<10	1600	30	13000	<10	1800	1600	400	.00	0	30
392224081391400 - 041 TUPPER C AT VINCENT OH (LAT 39 22 24 LONG 081 39 14)												
APR , 1979												
24...	--	--	370	20	--	--	170	110	--	--	--	--
SEP												
12...	30	20	210	20	34000	30	350	350	2900	.00	0	120
392250081592900 - 041 MUSH RN NR AMESVILLE OH (LAT 39 22 50 LONG 081 59 29)												
APR , 1979												
24...	--	--	210	0	--	--	60	60	--	--	--	--
SEP												
10...	10	10	170	70	30000	10	80	80	1100	.00	0	50
392324081350000 - 041 BROWNS RN NR BARLOW OH (LAT 39 23 24 LONG 081 35 00)												
APR , 1979												
23...	--	--	120	30	--	--	60	40	--	--	--	--
SEP												
11...	20	20	120	20	32000	20	160	160	2600	.00	0	50
392348082220200 - 041 E B RACCOON C NR NEW PLYMOUTH OH (LAT 39 23 48 LONG 082 22 02)												
APR , 1979												
26...	--	--	6700	3000	--	--	13000	13000	--	--	--	--
SEP												
25...	10	20	4000	3300	57000	10	9300	1000	150	.00	0	40
392350082255200 - 041 HONEY F NR NEW PLYMOUTH OH (LAT 39 23 50 LONG 082 25 52)												
APR , 1979												
26...	--	--	480	90	--	--	110	100	--	--	--	--
SEP												
13...	20	10	1700	90	22000	20	320	40	910	.00	0	50

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

--TABLE OF BENTHIC INVERTEBRATES--

	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER
	392001082195601	392010081371600	392108082432100	392205081524800	392224081391400
	79/09/13	79/09/12	79/09/10	79/09/11	79/09/12
BENTHIC INVERTEBRATES	-STATUS-	-STATUS-	-STATUS-	-STATUS-	-STATUS-
AQUATIC EARTHWORMS	--	PRESENT	--	--	PRESENT
BEETLES ADULT	--	--	--	PRESENT	PRESENT
BEETLES LARVAE	--	--	--	PRESENT	COMMON
BLACK FLIES	--	--	--	--	--
CADDISFLIES CASES	--	--	--	--	PRESENT
CADDISFLIES FREE-LIVING	--	--	--	--	--
CLAM	--	PRESENT	--	--	COMMON
CRAYFISH	--	COMMON	COMMON	COMMON	COMMON
CYCLOPS	--	--	--	--	--
DAMSELFLIES	--	PRESENT	--	--	PRESENT
DRAGONFLIES	--	PRESENT	--	--	PRESENT
FISH	--	COMMON	COMMON	--	COMMON
FLAT WORMS	--	--	--	--	--
FROGS	--	--	--	--	--
HELLGRAMMITES	COMMON	--	--	--	--
HORSE HAIR WORMS	--	--	--	--	--
ISOPOD	--	--	--	--	--
LEECHES	--	--	--	--	--
MAYFLIES	--	COMMON	COMMON	--	COMMON
MIDGES	COMMON	PRESENT	COMMON	PRESENT	COMMON
SALAMANDERS	--	--	--	--	--
SCUDS	--	--	--	--	PRESENT
SEED SHRIMP	--	--	--	--	--
SNAILS	--	--	PRESENT	--	--
STONEFLIES	--	--	--	--	--
WATER BOATMAN	--	--	--	--	--
WATER FLEA	--	--	--	--	--
WATER MITES	--	--	PRESENT	--	--
WATER SNAKE	PRESENT	--	--	--	--
WATER STRIDERS	COMMON	--	--	--	COMMON

EXPLANATION

-- - 0 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
PRESENT - 20 OR LESS OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
COMMON - MORE THAN 20 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

--TABLE OF BENTHIC INVERTEBRATES--

	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER
	392250081592900	392324081350000	392348082220200	392350082255200
	79/09/10	79/09/11	79/09/11	79/09/12
BENTHIC INVERTEBRATES	-STATUS-	-STATUS-	-STATUS-	-STATUS-
AQUATIC EARTHWORMS	--	PRESENT	--	--
BEETLES ADULT	--	--	--	--
BEETLES LARVAE	--	PRESENT	--	COMMON
BLACK FLIES	--	COMMON	--	--
CADDISFLIES CASES	--	--	--	--
CADDISFLIES FREE-LIVING	PRESENT	--	--	--
CLAM	--	--	--	--
CRAYFISH	COMMON	COMMON	--	--
CYCLOPS	--	--	--	--
DAMSELFLIES	PRESENT	PRESENT	--	--
DRAGONFLIES	PRESENT	--	--	--
FISH	COMMON	COMMON	--	--
FLAT WORMS	--	--	--	--
FROGS	--	--	--	PRESENT
HELLGRAMMITES	--	--	--	COMMON
HORSE HAIR WORMS	--	--	--	--
ISOPOD	--	--	--	--
LEECHES	--	--	--	--
MAYFLIES	COMMON	COMMON	--	COMMON
MIDGES	PRESENT	COMMON	--	COMMON
SALAMANDERS	--	--	--	--
SCUDS	--	--	--	--
SEED SHRIMP	--	--	--	--
SNAILS	PRESENT	--	--	--
STONEFLIES	--	--	--	--
WATER BOATMAN	--	--	--	--
WATER FLEA	--	--	--	--
WATER MITES	--	--	--	--
WATER SNAKE	--	--	--	--
WATER STRIDERS	COMMON	--	--	COMMON

EXPLANATION

-- - 0 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
PRESENT - 20 OR LESS OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
COMMON - MORE THAN 20 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

ANALYSES OF MISCELLANEOUS STATIONS

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	ACIDITY TOTAL HEATED (MG/L AS H)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)
392355082331700 - 041 E F QUEER C NR S BLOOMINGVILLE OH (LAT 39 23 55 LONG 082 33 17)												
APR , 1979												
27...	1410	5.2	145	6.5	13.5	.0	10	0	35	--	--	--
SEP												
25...	1445	13	130	7.2	16.0	--	20	0	31	0	<10	10
392503081351300 - 041 HORSE RN NR BARLOW OH (LAT 39 25 03 LONG 081 35 13)												
APR , 1979												
23...	1330	3.9	332	7.7	16.0	--	128	0	48	--	--	--
SEP												
11...	1730	.39	390	7.5	20.0	--	172	0	31	0	<10	10
392557081384900 - 041 S F WOLF C NR WATERTOWN OH (LAT 39 25 57 LONG 081 38 49)												
APR , 1979												
23...	1515	1.7	390	7.8	16.5	--	130	0	81	--	--	--
SEP												
11...	1500	.22	450	7.8	23.0	--	174	0	58	0	<10	10
392611081544600 - 041 OPOSSUM RN NR AMESVILLE OH (LAT 39 26 11 LONG 081 54 46)												
APR , 1979												
23...	1730	7.7	545	7.9	14.5	--	222	0	100	--	--	--
SEP												
10...	1545	2.1	615	7.7	21.5	--	264	0	110	0	<10	10
392623082354900 - 041 PINE C NR S BLOOMINGVILLE OH (LAT 39 26 23 LONG 082 35 49)												
APR , 1979												
27...	1550	16	135	6.9	15.5	.0	20	0	31	--	--	--
SEP												
25...	1615	21	130	7.0	15.0	--	24	0	30	0	<10	<10
392710081592600 - 041 MINERS F NR AMESVILLE OH (LAT 39 27 10 LONG 081 59 26)												
APR , 1979												
24...	1645	4.3	570	7.8	20.0	--	117	0	190	--	--	--
SEP												
10...	1415	.56	550	7.4	17.5	--	124	0	180	0	<10	110
392713081085800 - 041 LEITH RN NR NEWPORT OH (LAT 39 27 13 LONG 081 08 58)												
APR , 1979												
23...	0945	5.3	216	7.8	14.5	--	80	0	36	--	--	--
SEP												
12...	0915	.67	260	7.3	15.5	--	130	0	29	0	<10	<10
392750082101500 - 041 SNOW F MONDAY C AT BUCHTEL OH (LAT 39 27 50 LONG 082 10 15)												
APR , 1979												
25...	1520	22	1350	3.2	20.0	5.2	0	0	730	--	--	--
SEP												
12...	1640	10	1500	2.9	20.5	6.4	0	0	660	0	<10	20
392756081512000 - 041 N B COAL RN AT CHESTERHILL OH (LAT 39 27 56 LONG 081 51 20)												
APR , 1979												
23...	1630	1.6	350	8.3	13.5	--	162	--	45	--	--	--
SEP												
11...	1230	.64	450	7.7	18.0	--	224	0	31	0	<10	30

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

ANALYSES OF MISCELLANEOUS STATIONS

DATE	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN)
392355082331700 - 041 E F QUEER C NR S BLOOMINGVILLE OH (LAT 39 23 55 LONG 082 33 17)												
APR , 1979												
27...	--	--	200	130	--	--	50	50	--	--	--	--
SEP												
25...	<10	<10	290	110	17000	<10	200	200	330	.00	0	20
392503081351300 - 041 HORSE RN NR BARLOW OH (LAT 39 25 03 LONG 081 35 13)												
APR , 1979												
23...	--	--	250	10	--	--	160	160	--	--	--	--
SEP												
11...	20	10	2600	60	18000	20	400	400	2000	.00	0	100
392557081384900 - 041 S F WOLF C NR WATERTOWN OH (LAT 39 25 57 LONG 081 38 49)												
APR , 1979												
23...	--	--	250	20	--	--	90	80	--	--	--	--
SEP												
11...	30	20	380	80	43000	1100	210	180	1500	.24	0	60
392611081544600 - 041 OPOSSUM RN NR AMESVILLE OH (LAT 39 26 11 LONG 081 54 46)												
APR , 1979												
23...	--	--	390	10	--	--	250	250	--	--	--	--
SEP												
10...	10	<10	260	50	16000	10	290	270	930	.00	0	90
392623082354900 - 041 PINE C NR S BLOOMINGVILLE OH (LAT 39 26 23 LONG 082 35 49)												
APR , 1979												
27...	--	--	520	230	--	--	160	160	--	--	--	--
SEP												
25...	<10	<10	600	210	2500	<10	180	140	160	.00	0	10
392710081592600 - 041 MINERS F NR AMESVILLE OH (LAT 39 27 10 LONG 081 59 26)												
APR , 1979												
24...	--	--	80	10	--	--	290	290	--	--	--	--
SEP												
10...	50	10	100	60	23000	20	50	50	2900	.00	0	120
392713081085800 - 041 LEITH RN NR NEWPORT OH (LAT 39 27 13 LONG 081 08 58)												
APR , 1979												
23...	--	--	120	10	--	--	10	10	--	--	--	--
SEP												
12...	<10	<10	110	70	14000	10	10	10	350	.00	0	30
392750082101500 - 041 SNOW F MONDAY C AT BUCHTEL OH (LAT 39 27 50 LONG 082 10 15)												
APR , 1979												
25...	--	--	25000	23000	--	--	5300	5200	--	--	--	--
SEP												
12...	10	10	18000	13000	73000	10	6100	6100	95	.00	0	50
392756081512000 - 041 N B COAL RN AT CHESTERHILL OH (LAT 39 27 56 LONG 081 51 20)												
APR , 1979												
23...	--	--	230	20	--	--	50	40	--	--	--	--
SEP												
11...	10	10	170	20	28000	20	50	50	1100	.00	0	70

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

--TABLE OF BENTHIC INVERTEBRATES--

	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER
	392355082331700	392503081351300	392557081384900	392611081544600	392623082354900
	79/09/25	79/09/11	79/09/11	79/09/10	79/09/25
BENTHIC INVERTEBRATES	-STATUS-	-STATUS-	-STATUS-	-STATUS-	-STATUS-
AQUATIC EARTHWORMS	--	PRESENT	--	--	--
BEETLES ADULT	--	PRESENT	--	--	PRESENT
BEETLES LARVAE	--	PRESENT	COMMON	--	--
BLACK FLIES	--	PRESENT	--	PRESENT	--
CADDISFLIES CASES	COMMON	--	COMMON	--	--
CADDISFLIES FREE-LIVING	COMMON	--	--	--	--
CLAM	--	COMMON	PRESENT	--	--
CRAYFISH	PRESENT	PRESENT	COMMON	PRESENT	PRESENT
CYCLOPS	--	--	--	--	--
DAMSELFLIES	--	PRESENT	PRESENT	--	--
DRAGONFLIES	--	--	--	--	--
FISH	PRESENT	--	PRESENT	COMMON	PRESENT
FLAT WORMS	--	--	--	--	--
FROGS	--	--	--	--	--
HELLGRAMMITES	--	--	--	--	--
HORSE HAIR WORMS	--	--	--	--	--
ISOPOD	--	--	--	--	--
LEECHES	--	--	--	--	--
MAYFLIES	COMMON	COMMON	COMMON	PRESENT	COMMON
MIDGES	COMMON	--	COMMON	PRESENT	--
SALAMANDERS	--	--	--	--	--
SCUDS	--	--	--	--	--
SEED SHRIMP	--	--	--	--	--
SNAILS	--	--	--	--	--
STONEFLIES	--	--	--	--	--
WATER BOATMAN	--	--	--	--	--
WATER FLEA	--	--	--	--	--
WATER MITES	--	--	--	--	--
WATER SNAKE	--	--	--	--	--
WATER STRIDERS	--	--	--	PRESENT	--

EXPLANATION

-- - 0 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
PRESENT - 20 OR LESS OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
COMMON - MORE THAN 20 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

--TABLE OF BENTHIC INVERTEBRATES--

	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER
	392710081592600	392713081085800	392750082101500	392756081512000
	79/09/10	79/09/12	79/09/12	79/09/11
BENTHIC INVERTEBRATES	-STATUS-	-STATUS-	-STATUS-	-STATUS-
AQUATIC EARTHWORMS	--	--	--	--
BEETLES ADULT	--	PRESENT	--	PRESENT
BEETLES LARVAE	--	PRESENT	--	PRESENT
BLACK FLIES	--	--	--	--
CADDISFLIES CASES	--	--	--	COMMON
CADDISFLIES FREE-LIVING	--	--	COMMON	PRESENT
CLAM	--	--	--	--
CRAYFISH	PRESENT	COMMON	--	COMMON
CYCLOPS	--	--	--	--
DAMSELFLIES	PRESENT	--	--	--
DRAGONFLIES	PRESENT	--	--	PRESENT
FISH	COMMON	COMMON	--	COMMON
FLAT WORMS	--	--	--	--
FROGS	--	--	--	--
HELLGRAMMITES	--	--	--	--
HORSE HAIR WORMS	--	--	--	--
ISOPOD	--	--	--	--
LEECHES	--	--	--	--
MAYFLIES	PRESENT	COMMON	COMMON	COMMON
MIDGES	--	--	COMMON	PRESENT
SALAMANDERS	--	--	--	--
SCUDS	--	--	--	--
SEED SHRIMP	--	--	--	--
SNAILS	--	--	--	--
STONEFLIES	--	--	--	--
WATER BOATMAN	--	--	--	--
WATER FLEA	--	--	--	--
WATER MITES	--	COMMON	--	--
WATER SNAKE	PRESENT	--	--	--
WATER STRIDERS	COMMON	--	--	COMMON

EXPLANATION

-- - 0 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
PRESENT - 20 OR LESS OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
COMMON - MORE THAN 20 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

ANALYSES OF MISCELLANEOUS STATIONS

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	ACIDITY TOTAL HEATED (MG/L AS H)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)
392814081135000 - 041 ARCHERS F L MUSKINGUM R NR NEWPORT OH (LAT 39 28 14 LONG 081 13 50)												
APR , 1979												
23...	1130	7.6	225	7.7	15.0	--	84	0	38	--	--	--
SEP												
11...	1600	.88	265	7.5	20.0	--	130	0	30	0	<10	<10
392840081174000 - 041 FIFTEENMILE C AT DART OH (LAT 39 28 40 LONG 081 17 40)												
APR , 1979												
23...	1300	12	300	8.0	15.0	--	102	0	49	--	--	--
SEP												
11...	1735	2.7	445	7.4	22.0	--	150	0	44	0	<10	10
392914081474200 - 041 ALDRIDGE RN NR CHESTERHILL OH (LAT 39 29 14 LONG 081 47 42)												
APR , 1979												
25...	1830	6.8	435	8.2	20.5	--	209	0	52	--	--	--
SEP												
24...	1700	16	400	7.8	16.5	--	212	0	40	0	<10	20
392947081314000 - 041 RAINBOW C NR DEVOLA OH (LAT 39 29 47 LONG 081 31 40)												
APR , 1979												
24...	1030	.61	378	8.5	16.5	--	140	6	71	--	--	--
SEP												
10...	1400	.52	430	7.8	18.0	--	190	0	51	0	<10	30
393052082252700 - 041 SCOTT C NR CARBON HILL OH (LAT 39 30 52 LONG 082 25 27)												
APR , 1979												
27...	0950	21	270	7.2	13.0	--	32	0	72	--	--	--
SEP												
25...	1115	21	360	7.0	14.5	--	28	0	68	0	<10	10
393101081523700 - 041 GOSHEN C NR CHESTERHILL OH (LAT 39 31 01 LONG 081 52 37)												
APR , 1979												
25...	1745	4.7	395	8.4	22.0	--	193	7	33	--	--	--
SEP												
24...	1600	10	380	7.9	16.5	--	226	0	30	0	<10	20
393112081245600 - 041 WHIPPLE RN AT WHIPPLE OH (LAT 39 31 12 LONG 081 24 56)												
APR , 1979												
23...	1500	5.4	430	8.1	15.5	--	182	0	81	--	--	--
SEP												
10...	1600	1.9	475	7.8	19.5	--	240	0	63	0	<10	30
393112082300800 - 041 DUCK C NR ROCKBRIDGE OH (LAT 39 31 12 LONG 082 30 08)												
APR , 1979												
27...	1115	1.2	143	6.5	11.5	.1	26	0	30	--	--	--
SEP												
25...	1730	1.4	160	7.1	17.5	--	50	0	29	0	<10	20
393129081281800 - 041 BEAR C NR WHIPPLE OH (LAT 39 31 29 LONG 081 28 18)												
APR , 1979												
24...	0915	3.3	520	8.2	14.5	--	220	0	99	--	--	--
SEP												
10...	1055	.92	600	7.8	14.0	--	240	0	97	0	<10	50

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

ANALYSES OF MISCELLANEOUS STATIONS

DATE	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN)
392814081135000 - 041 ARCHERS F L MUSKINGUM R NR NEWPORT OH (LAT 39 28 14 LONG 081 13 50)												
APR , 1979												
23...	--	--	160	10	--	--	20	20	--	--	--	--
SEP												
11...	<10	<10	380	100	13000	20	40	30	320	.00	0	20
392840081174000 - 041 FIFTEENMILE C AT DART OH (LAT 39 28 40 LONG 081 17 40)												
APR , 1979												
23...	--	--	200	30	--	--	20	20	--	--	--	--
SEP												
11...	10	10	500	40	24000	10	40	10	650	.00	0	40
392914081474200 - 041 ALDRIDGE RN NR CHESTERHILL OH (LAT 39 29 14 LONG 081 47 42)												
APR , 1979												
25...	--	--	330	0	--	--	30	20	--	--	--	--
SEP												
24...	20	20	340	210	27000	20	20	0	880	.00	0	40
392947081314000 - 041 RAINBOW C NR DEVOLA OH (LAT 39 29 47 LONG 081 31 40)												
APR , 1979												
24...	--	--	220	20	--	--	20	0	--	--	--	--
SEP												
10...	10	20	170	40	42000	10	20	0	1600	.00	0	60
393052082252700 - 041 SCOTT C NR CARBON HILL OH (LAT 39 30 52 LONG 082 25 27)												
APR , 1979												
27...	--	--	650	100	--	--	270	270	--	--	--	--
SEP												
25...	10	<10	570	120	22000	10	660	660	590	.00	0	50
393101081523700 - 041 GOSHEN C NR CHESTERHILL OH (LAT 39 31 01 LONG 081 52 37)												
APR , 1979												
25...	--	--	320	10	--	--	20	20	--	--	--	--
SEP												
24...	30	20	210	20	29000	20	20	0	1500	.00	0	60
393112081245600 - 041 WHIPPLE RN AT WHIPPLE OH (LAT 39 31 12 LONG 081 24 56)												
APR , 1979												
23...	--	--	180	20	--	--	60	60	--	--	--	--
SEP												
10...	20	20	1100	70	44000	20	310	220	1500	.00	0	80
393112082300800 - 041 DUCK C NR ROCKBRIDGE OH (LAT 39 31 12 LONG 082 30 08)												
APR , 1979												
27...	--	--	410	30	--	--	20	20	--	--	--	--
SEP												
25...	10	<10	120	70	27000	30	10	0	630	.00	0	30
393129081281800 - 041 BEAR C NR WHIPPLE OH (LAT 39 31 29 LONG 081 28 18)												
APR , 1979												
24...	--	--	80	0	--	--	0	0	--	--	--	--
SEP												
10...	10	20	50	50	35000	10	10	10	1100	.00	0	60

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

--TABLE OF BENTHIC INVERTEBRATES--

	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER
	392814081135000	392840081174000	392914081474200	392947081314000	393052082252700
	79/09/11	79/09/11	79/09/24	79/09/10	79/09/25
BENTHIC INVERTEBRATES	-STATUS-	-STATUS-	-STATUS-	-STATUS-	-STATUS-
AQUATIC EARTHWORMS	--	--	--	--	--
BEETLES ADULT	--	--	PRESENT	--	--
BEETLES LARVAE	--	--	PRESENT	PRESENT	--
BLACK FLIES	PRESENT	--	--	PRESENT	--
CADDISFLIES CASES	--	--	PRESENT	--	COMMON
CADDISFLIES FREE-LIVING	--	--	PRESENT	--	COMMON
CLAM	--	PRESENT	--	--	--
CRAYFISH	COMMON	COMMON	PRESENT	COMMON	--
CYCLOPS	--	--	--	--	--
DAMSELFLIES	--	--	--	--	--
DRAGONFLIES	--	--	--	--	--
FISH	COMMON	COMMON	PRESENT	COMMON	PRESENT
FLAT WORMS	--	--	--	--	--
FROGS	--	--	--	--	PRESENT
HELLGRAMMITES	--	--	PRESENT	--	--
HORSE HAIR WORMS	--	--	--	--	--
ISOPOD	--	--	--	--	--
LEECHES	--	--	--	--	--
MAYFLIES	COMMON	PRESENT	COMMON	COMMON	COMMON
MIDGES	PRESENT	PRESENT	PRESENT	COMMON	--
SALAMANDERS	--	--	--	PRESENT	--
SCUDS	--	--	--	--	--
SEED SHRIMP	--	--	--	--	--
SNAILS	--	--	--	--	--
STONEFLIES	COMMON	COMMON	COMMON	--	--
WATER BOATMAN	--	--	--	--	--
WATER FLEA	--	--	--	--	--
WATER MITES	--	--	--	--	--
WATER SNAKE	--	--	--	--	--
WATER STRIDERS	--	COMMON	--	COMMON	--

EXPLANATION

-- - 0 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
PRESENT - 20 OR LESS OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
COMMON - MORE THAN 20 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

--TABLE OF BENTHIC INVERTEBRATES--

	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER
	393101081523700	393112081245600	393112082300800	393129081281800
	79/09/24	79/09/10	79/09/25	79/09/10
BENTHIC INVERTEBRATES	-STATUS-	-STATUS-	-STATUS-	-STATUS-
AQUATIC EARTHWORMS	--	--	--	--
BEETLES ADULT	PRESENT	--	--	--
BEETLES LARVAE	PRESENT	--	--	--
BLACK FLIES	PRESENT	PRESENT	--	PRESENT
CADDISFLIES CASES	COMMON	--	PRESENT	--
CADDISFLIES FREE-LIVING	COMMON	--	PRESENT	--
CLAM	--	--	--	--
CRAYFISH	COMMON	COMMON	--	COMMON
CYCLOPS	--	--	--	--
DAMSELFLIES	--	--	--	--
DRAGONFLIES	--	--	--	--
FISH	COMMON	COMMON	PRESENT	COMMON
FLAT WORMS	--	--	--	--
FROGS	--	--	--	--
HELLGRAMMITES	--	--	--	--
HORSE HAIR WORMS	--	--	--	--
ISOPOD	--	--	--	--
LEECHES	--	--	--	--
MAYFLIES	COMMON	COMMON	COMMON	COMMON
MIDGES	PRESENT	--	PRESENT	PRESENT
SALAMANDERS	--	--	--	--
SCUDS	--	--	--	--
SEED SHRIMP	--	--	--	--
SNAILS	--	--	--	--
STONEFLIES	--	--	--	PRESENT
WATER BOATMAN	--	--	--	--
WATER FLEA	--	--	--	--
WATER MITES	--	--	--	--
WATER SNAKE	--	--	--	--
WATER STRIDERS	--	COMMON	--	COMMON

EXPLANATION

-- - 0 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
PRESENT - 20 OR LESS OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
COMMON - MORE THAN 20 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

ANALYSES OF MISCELLANEOUS STATIONS

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	ACIDITY TOTAL HEATED (MG/L AS H)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)
393211082232900 - 041 OLDTOWN C AT LOGAN OH (LAT 39 32 11 LONG 082 23 29)												
APR , 1979												
27...	0845	10	861	7.6	13.0	--	60	0	68	--	--	--
SEP												
25...	0845	12	730	7.1	14.5	--	64	0	57	0	<10	<10
393226082163400 - 041 L MONDAY C NR CARBON HILL OH (LAT 39 32 26 LONG 082 16 34)												
APR , 1979												
25...	1730	15	890	7.4	20.0	--	51	0	230	--	--	--
SEP												
25...	0945	24	790	7.1	14.0	--	68	0	150	0	<10	<10
393235081225500 - 041 PAW PAW C AT LOWER SALEM OH (LAT 39 32 35 LONG 081 22 55)												
APR , 1979												
23...	1630	12	350	7.9	16.0	--	120	0	76	--	--	--
SEP												
11...	0830	3.1	360	7.2	14.5	--	150	0	69	0	<10	10
393240081310500 - 041 CAT C AT LOWELL OH (LAT 39 32 40 LONG 081 31 05)												
APR , 1979												
24...	1200	7.0	530	8.3	16.5	--	216	--	110	--	--	--
SEP												
10...	1235	1.8	550	7.7	15.5	--	250	0	100	0	<10	30
393317081475100 - 041 BALD EAGLE RN AT STOCKPORT OH (LAT 39 33 17 LONG 081 47 51)												
APR , 1979												
25...	1430	7.8	495	8.3	20.0	--	244	8	49	--	--	--
SEP												
13...	1715	4.1	561	7.6	20.5	--	280	0	28	0	<10	30
393343081554600 - 041 UNNAMED C L WOLF C NR PENNSVILLE OH (LAT 39 33 43 LONG 081 55 46)												
APR , 1979												
25...	1630	4.2	420	8.1	21.0	--	176	0	62	--	--	--
SEP												
24...	1415	8.1	350	7.7	15.0	--	172	0	43	0	<10	20
393400081252100 - 041 W F DUCK C AT WARNER OH (LAT 39 34 00 LONG 081 25 21)												
APR , 1979												
24...	1315	69	785	7.2	17.5	--	108	0	310	--	--	--
SEP												
11...	0955	29	810	7.4	18.5	--	130	0	270	0	<10	<10
393534082071500 - 041 NO NAME TR W B SUNDAY C NR CORNING OH (LAT 39 35 34 LONG 082 07 15)												
APR , 1979												
25...	0920	6.2	741	6.8	16.0	.1	22	0	300	--	--	--
SEP												
12...	0830	4.7	795	6.2	17.5	.4	12	0	290	0	<10	20
393554082041500 - 041 DOTSON C NR CORNING OH (LAT 39 35 54 LONG 082 04 15)												
APR , 1979												
25...	1045	2.7	291	7.4	18.0	--	67	0	54	--	--	--
SEP												
12...	1100	.33	370	7.3	17.5	--	100	0	43	0	<10	20

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

ANALYSES OF MISCELLANEOUS STATIONS

DATE	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN)
393211082232900 - 041 OLDTOWN C AT LOGAN OH (LAT 39 32 11 LONG 082 23 29)												
APR , 1979												
27...	--	--	790	30	--	--	620	590	--	--	--	--
SEP												
25...	20	<10	560	60	14000	20	790	710	530	.00	0	40
393226082163400 - 041 L MONDAY C NR CARBON HILL OH (LAT 39 32 26 LONG 082 16 34)												
APR , 1979												
25...	--	--	540	80	--	--	2300	2300	--	--	--	--
SEP												
25...	30	10	490	60	17000	10	1800	1700	750	.00	0	80
393235081225500 - 041 PAW PAW C AT LOWER SALEM OH (LAT 39 32 35 LONG 081 22 55)												
APR , 1979												
23...	--	--	300	50	--	--	60	50	--	--	--	--
SEP												
11...	10	10	450	50	27000	30	120	110	820	.00	0	40
393240081310500 - 041 CAT C AT LOWELL OH (LAT 39 32 40 LONG 081 31 05)												
APR , 1979												
24...	--	--	120	10	--	--	20	10	--	--	--	--
SEP												
10...	30	20	170	60	48000	30	30	30	1800	.00	0	110
393317081475100 - 041 BALD EAGLE RN AT STOCKPORT OH (LAT 39 33 17 LONG 081 47 51)												
APR , 1979												
25...	--	--	200	10	--	--	40	40	--	--	--	--
SEP												
13...	20	20	420	100	41000	20	30	10	1600	.00	0	60
393343081554600 - 041 UNNAMED C L WOLF C NR PENNSVILLE OH (LAT 39 33 43 LONG 081 55 46)												
APR , 1979												
25...	--	--	460	0	--	--	70	60	--	--	--	--
SEP												
24...	20	<10	320	30	27000	20	50	20	860	.00	0	40
393400081252100 - 041 W F DUCK C AT WARNER OH (LAT 39 34 00 LONG 081 25 21)												
APR , 1979												
24...	--	--	640	30	--	--	1200	1200	--	--	--	--
SEP												
11...	10	<10	330	70	16000	10	1200	1100	590	.00	0	50
393534082071500 - 041 NO NAME TR W B SUNDAY C NR CORNING OH (LAT 39 35 34 LONG 082 07 15)												
APR , 1979												
25...	--	--	1100	830	--	--	1900	1900	--	--	--	--
SEP												
12...	60	20	520	300	45000	30	2200	2100	2900	.00	0	200
393554082041500 - 041 DOTSON C NR CORNING OH (LAT 39 35 54 LONG 082 04 15)												
APR , 1979												
25...	--	--	300	60	--	--	210	210	--	--	--	--
SEP												
12...	10	20	590	110	28000	30	330	330	710	.00	0	100

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

--TABLE OF BENTHIC INVERTEBRATES--

	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER
	393211082232900	393226082163400	393235081225500	393240081310500	393317081475100
	79/09/11	79/09/11	79/09/11	79/09/10	79/09/13
BENTHIC INVERTEBRATES	-STATUS-	-STATUS-	-STATUS-	-STATUS-	-STATUS-
AQUATIC EARTHWORMS	--	--	--	--	PRESENT
BEETLES ADULT	--	--	--	--	PRESENT
BEETLES LARVAE	--	--	--	COMMON	--
BLACK FLIES	--	PRESENT	--	--	--
CADDISFLIES CASES	--	--	--	--	COMMON
CADDISFLIES FREE-LIVING	--	PRESENT	--	PRESENT	COMMON
CLAM	--	--	--	--	--
CRAYFISH	--	PRESENT	PRESENT	COMMON	--
CYCLOPS	--	--	--	--	--
DAMSELFLIES	--	--	--	--	--
DRAGONFLIES	--	PRESENT	--	--	--
FISH	--	--	COMMON	COMMON	--
FLAT WORMS	--	--	--	--	--
FROGS	--	--	--	PRESENT	--
HELLGRAMMITES	--	--	--	--	--
HORSE HAIR WORMS	--	--	--	--	--
ISOPOD	--	--	--	--	--
LEECHES	--	--	--	--	--
MAYFLIES	--	PRESENT	COMMON	COMMON	PRESENT
MIDGES	PRESENT	COMMON	PRESENT	COMMON	--
SALAMANDERS	--	--	--	--	--
SCUDS	--	--	--	--	--
SEED SHRIMP	--	--	--	--	--
SNAILS	PRESENT	PRESENT	--	--	PRESENT
STONEFLIES	--	PRESENT	--	--	--
WATER BOATMAN	--	--	--	--	--
WATER FLEA	--	--	--	--	--
WATER MITES	--	--	--	--	--
WATER SNAKE	--	--	--	--	--
WATER STRIDERS	--	--	--	--	--

EXPLANATION

-- - 0 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
PRESENT - 20 OR LESS OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
COMMON - MORE THAN 20 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

--TABLE OF BENTHIC INVERTEBRATES--

	SITE ID NUMBER 393343081554600 79/09/24	SITE ID NUMBER 393400081252100 79/09/12	SITE ID NUMBER 393534082071500 79/09/12	SITE ID NUMBER 393554082041500 79/09/12
BENTHIC INVERTEBRATES	-STATUS-	-STATUS-	-STATUS-	-STATUS-
AQUATIC EARTHWORMS	--	--	--	COMMON
BEETLES ADULT	--	--	--	--
BEETLES LARVAE	PRESENT	--	--	--
BLACK FLIES	PRESENT	PRESENT	--	--
CADDISFLIES CASES	PRESENT	--	--	--
CADDISFLIES FREE-LIVING	PRESENT	PRESENT	--	--
CLAM	--	--	--	--
CRAYFISH	PRESENT	--	--	--
CYCLOPS	--	--	--	--
DAMSELFLIES	--	--	PRESENT	COMMON
DRAGONFLIES	--	--	--	COMMON
FISH	--	--	PRESENT	COMMON
FLAT WORMS	--	--	--	--
FROGS	--	--	COMMON	COMMON
HELLGRAMMITES	--	--	--	--
HORSE HAIR WORMS	--	--	--	--
ISOPOD	--	--	--	--
LEECHES	--	--	--	--
MAYFLIES	COMMON	PRESENT	--	COMMON
MIDGES	PRESENT	COMMON	PRESENT	COMMON
SALAMANDERS	--	--	--	--
SCUDS	--	--	--	--
SEED SHRIMP	--	--	--	--
SNAILS	--	--	--	--
STONEFLIES	COMMON	--	--	--
WATER BOATMAN	--	--	--	--
WATER FLEA	--	--	--	--
WATER MITES	--	--	--	COMMON
WATER SNAKE	--	--	--	--
WATER STRIDERS	--	--	PRESENT	COMMON

EXPLANATION

-- - 0 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
PRESENT - 20 OR LESS OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
COMMON - MORE THAN 20 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

ANALYSES OF MISCELLANEOUS STATIONS

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	ACIDITY TOTAL HEATED (MG/L AS H)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)
393556082000000 - 041 E B SUNDAY C NR CORNING OH (LAT 39 35 56 LONG 082 00 00)												
APR , 1979												
25...	1245	2.9	230	7.6	19.0	--	82	0	47	--	--	--
SEP												
12...	1420	.45	265	7.3	21.5	--	121	0	31	0	<10	30
393609081094600 - 041 CLEAR F NR RINARD MILLS OH (LAT 39 36 09 LONG 081 09 46)												
APR , 1979												
25...	0945	26	380	7.9	17.0	--	168	0	43	--	--	--
SEP												
12...	1125	11	340	7.7	18.5	--	220	0	35	0	<10	20
393620081554200 - 041 BUCK RN NR PENNSVILLE OH (LAT 39 36 20 LONG 081 55 42)												
APR , 1979												
25...	1545	2.3	370	8.3	22.5	--	146	2	61	--	--	--
SEP												
24...	1245	3.7	330	7.6	16.0	--	168	0	46	0	<10	30
393657081091500 - 041 STRAIGHT F NR RINARD MILLS OH (LAT 39 36 57 LONG 081 09 15)												
APR , 1979												
25...	1030	6.5	368	8.0	16.0	--	164	0	36	--	--	--
SEP												
12...	1300	1.8	430	7.6	18.0	--	220	0	28	0	<10	30
393707081441400 - 041 FOURMILE RN NR MCCONNELSVILLE OH (LAT 39 37 07 LONG 081 44 14)												
APR , 1979												
25...	1245	10	590	8.3	20.5	--	266	3	39	--	--	--
SEP												
24...	1015	16	530	8.0	12.5	--	308	0	38	0	<10	30
393720081212100 - 041 M F DUCK C NR GERMANTOWN OH (LAT 39 37 20 LONG 081 21 21)												
APR , 1979												
24...	1700	22	995	4.8	21.5	.8	0	0	200	--	--	--
SEP												
11...	1105	9.2	900	5.3	15.5	.7	7	0	590	0	<10	<10
393729081382200 - 041 L OLIVE GREEN C NR MCCONNELSVILLE OH (LAT 39 37 29 LONG 081 38 22)												
APR , 1979												
25...	1200	8.2	520	8.2	19.0	--	200	1	76	--	--	--
SEP												
13...	1530	2.5	650	7.8	21.5	--	240	0	65	0	<10	40
393840081360300 - 041 KEITH F NR CALDWELL OH (LAT 39 38 40 LONG 081 36 03)												
APR , 1979												
25...	1100	12	620	8.0	18.0	--	225	0	98	--	--	--
SEP												
13...	1415	4.3	715	8.0	23.5	--	240	0	95	0	<10	50
393950081361700 - 041 SHARON F NR CALDWELL OH (LAT 39 39 50 LONG 081 36 17)												
APR , 1979												
25...	1000	12	550	8.3	17.5	--	220	2	93	--	--	--
SEP												
13...	1245	6.4	605	8.0	20.5	--	260	0	92	0	<10	20

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

ANALYSES OF MISCELLANEOUS STATIONS

DATE	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN)
393556082000000 - 041 E B SUNDAY C NR CORNING OH (LAT 39 35 56 LONG 082 00 00)												
APR , 1979												
25...	--	--	640	10	--	--	110	90	--	--	--	--
SEP												
12...	30	20	430	60	55000	30	240	180	2000	.00	0	130
393609081094600 - 041 CLEAR F NR RINARD MILLS OH (LAT 39 36 09 LONG 081 09 46)												
APR , 1979												
25...	--	--	280	40	--	--	30	30	--	--	--	--
SEP												
12...	10	20	270	50	36000	10	50	40	760	.00	0	60
393620081054200 - 041 BUCK RN NR PENNSVILLE OH (LAT 39 36 20 LONG 081 55 42)												
APR , 1979												
25...	--	--	200	40	--	--	20	20	--	--	--	--
SEP												
24...	30	20	360	40	53000	30	30	0	1700	.00	0	80
393657081091500 - 041 STRAIGHT F NR RINARD MILLS OH (LAT 39 36 57 LONG 081 09 15)												
APR , 1979												
25...	--	--	160	10	--	--	30	30	--	--	--	--
SEP												
12...	20	20	350	60	49000	40	40	30	1600	.00	0	70
393707081441400 - 041 FOURMILE RN NR MCCONNELSVILLE OH (LAT 39 37 07 LONG 081 44 14)												
APR , 1979												
25...	--	--	190	0	--	--	20	0	--	--	--	--
SEP												
24...	40	30	310	20	57000	30	20	0	2400	.00	0	90
393720081212100 - 041 M F DUCK C NR GERMANTOWN OH (LAT 39 37 20 LONG 081 21 21)												
APR , 1979												
24...	--	--	4900	60	--	--	6000	5700	--	--	--	--
SEP												
11...	20	10	2600	180	19000	20	6700	70	310	.00	0	80
393729081382200 - 041 L OLIVE GREEN C NR MCCONNELSVILLE OH (LAT 39 37 29 LONG 081 38 22)												
APR , 1979												
25...	--	--	200	10	--	--	30	20	--	--	--	--
SEP												
13...	30	20	1000	80	62000	30	120	40	1800	.00	0	70
393840081360300 - 041 KEITH F NR CALDWELL OH (LAT 39 38 40 LONG 081 36 03)												
APR , 1979												
25...	--	--	190	0	--	--	50	30	--	--	--	--
SEP												
13...	20	20	190	60	50000	20	30	30	1500	.00	0	70
393950081361700 - 041 SHARON F NR CALDWELL OH (LAT 39 39 50 LONG 081 36 17)												
APR , 1979												
25...	--	--	200	20	--	--	30	20	--	--	--	--
SEP												
13...	20	20	350	60	40000	20	30	10	21000	.00	0	60

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

--TABLE OF BENTHIC INVERTEBRATES--

	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER
	393556082000000	393609081094600	393620081554200	393657081091500	393707081441400
	79/09/12	79/09/12	79/09/24	79/09/12	79/09/24
BENTHIC INVERTEBRATES	-STATUS-	-STATUS-	-STATUS-	-STATUS-	-STATUS-
AQUATIC EARTHWORMS	--	--	--	--	--
BEETLES ADULT	--	--	--	COMMON	--
BEETLES LARVAE	COMMON	COMMON	--	COMMON	PRESENT
BLACK FLIES	--	PRESENT	PRESENT	--	--
CADDISFLIES CASES	--	--	--	--	PRESENT
CADDISFLIES FREE-LIVING	COMMON	PRESENT	--	--	PRESENT
CLAM	--	PRESENT	--	--	--
CRAYFISH	--	COMMON	COMMON	COMMON	COMMON
CYCLOPS	--	--	--	--	--
DAMSELFLIES	COMMON	--	--	--	--
DRAGONFLIES	COMMON	--	--	--	--
FISH	COMMON	COMMON	COMMON	COMMON	--
FLAT WORMS	COMMON	--	--	--	--
FROGS	COMMON	--	--	--	COMMON
HELLGRAMMITES	--	--	--	--	--
HORSE HAIR WORMS	--	--	--	--	--
ISOPOD	--	--	--	--	--
LEECHES	--	--	--	--	--
MAYFLIES	COMMON	COMMON	COMMON	COMMON	COMMON
MIDGES	COMMON	COMMON	--	--	--
SALAMANDERS	--	--	--	--	--
SCUDS	--	--	--	--	--
SEED SHRIMP	--	--	--	--	--
SNAILS	--	--	--	--	--
STONEFLIES	--	COMMON	COMMON	COMMON	COMMON
WATER BOATMAN	--	--	--	--	--
WATER FLEA	--	--	--	--	--
WATER MITES	--	--	--	--	--
WATER SNAKE	--	--	--	--	--
WATER STRIDERS	COMMON	COMMON	--	COMMON	--

EXPLANATION

-- - 0 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
PRESENT - 20 OR LESS OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
COMMON - MORE THAN 20 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

--TABLE OF BENTHIC INVERTEBRATES--

	SITE ID NUMBER 393720081212100 79/09/11	SITE ID NUMBER 393729081382200 79/09/13	SITE ID NUMBER 393840081360300 79/09/13	SITE ID NUMBER 393950081361700 79/09/13
BENTHIC INVERTEBRATES	-STATUS-	-STATUS-	-STATUS-	-STATUS-
AQUATIC EARTHWORMS	--	--	PRESENT	--
BEETLES ADULT	--	PRESENT	--	--
BEETLES LARVAE	--	--	COMMON	--
BLACK FLIES	--	PRESENT	--	--
CADDISFLIES CASES	--	PRESENT	COMMON	COMMON
CADDISFLIES FREE-LIVING	--	PRESENT	PRESENT	COMMON
CLAM	--	--	--	--
CRAYFISH	--	COMMON	COMMON	PRESENT
CYCLOPS	--	--	--	--
DAMSELFLIES	--	--	--	--
DRAGONFLIES	--	--	--	--
FISH	--	--	COMMON	COMMON
FLAT WORMS	--	--	--	--
FROGS	--	--	--	--
HELLGRAMMITES	--	--	--	PRESENT
HORSE HAIR WORMS	--	--	--	--
ISOPOD	--	--	--	--
LEECHES	--	--	--	--
MAYFLIES	--	COMMON	COMMON	COMMON
MIDGES	--	--	--	--
SALAMANDERS	--	--	--	--
SCUDS	--	--	--	PRESENT
SEED SHRIMP	--	--	--	--
SNAILS	--	--	--	--
STONEFLIES	--	--	--	PRESENT
WATER BOATMAN	--	PRESENT	PRESENT	--
WATER FLEA	--	--	--	--
WATER MITES	--	--	--	--
WATER SNAKE	--	--	--	--
WATER STRIDERS	--	--	--	COMMON

EXPLANATION

-- - 0 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
PRESENT - 20 OR LESS OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
COMMON - MORE THAN 20 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

ANALYSES OF MISCELLANEOUS STATIONS

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	ACIDITY TOTAL HEATED (MG/L AS H)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)
394125081481500 - 041 MANS F NR MCCONNELSVILLE OH (LAT 39 41 25 LONG 081 48 15)												
APR , 1979												
24...	1700	13	545	8.4	18.5	--	225	6	78	--	--	--
SEP												
13...	0830	2.9	550	7.9	19.5	--	256	0	72	0	0	20
394129082334300 - 041 PLEASANT RN NR LANCASTER OH (LAT 39 41 29 LONG 082 33 43)												
APR , 1979												
23...	1030	14	460	8.0	12.0	--	234	0	48	--	--	--
SEP												
10...	0900	8.2	535	8.0	13.5	--	283	0	52	0	<10	<10
394232081091900 - 041 TOWN F NR GRAYSVILLE OH (LAT 39 42 32 LONG 081 09 19)												
APR , 1979												
25...	1145	5.3	315	8.2	17.5	--	146	0	41	--	--	--
SEP												
12...	1450	1.0	370	7.8	21.5	--	200	0	30	0	<10	20
394238082205900 - 041 NO NAME C NR BREMAN OH (LAT 39 42 38 LONG 082 20 59)												
APR , 1979												
23...	1520	5.3	460	7.7	17.0	--	39	0	86	--	--	--
SEP												
10...	1500	2.2	560	7.5	21.0	--	76	0	72	0	<10	<10
394310081215200 - 041 SCHWAB RN NR SUMMERFIELD OH (LAT 39 43 10 LONG 081 21 52)												
APR , 1979												
24...	1545	2.6	494	7.9	18.5	--	167	0	130	--	--	--
SEP												
11...	1310	1.5	563	7.8	21.5	--	220	0	130	0	<10	10
394310081570000 - 041 ISLAND RN NR MCCONNELSVILLE OH (LAT 39 43 10 LONG 081 57 00)												
APR , 1979												
24...	1530	2.9	410	9.3	21.5	--	32	26	63	--	--	--
SEP												
12...	1800	.39	590	8.0	23.5	--	150	0	50	1	<10	30
394311081425700 - 041 HORSE RN NR MCCONNELSVILLE OH (LAT 39 43 11 LONG 081 42 57)												
APR , 1979												
24...	1800	6.7	1300	8.0	19.0	--	210	0	530	--	--	--
SEP												
13...	1030	4.1	1100	7.7	21.5	--	210	0	460	0	<10	20
394331082021000 - 041 OGG C NR NEW LEXINGTON OH (LAT 39 43 31 LONG 082 02 10)												
APR , 1979												
24...	1700	3.0	302	8.5	17.5	--	97	--	42	--	--	--
SEP												
11...	1740	.58	375	7.7	20.0	--	124	0	26	0	<10	20
394456082195600 - 041 CENTER B NR SOMERSET OH (LAT 39 44 56 LONG 082 19 56)												
APR , 1979												
23...	1715	14	410	8.5	15.5	--	63	4	58	--	--	--
SEP												
10...	0500	5.7	490	7.6	19.0	--	94	0	43	0	<10	<10

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

ANALYSES OF MISCELLANEOUS STATIONS

DATE	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN)
394125081481500 - 041 MANS F NR MCCONNELSVILLE OH (LAT 39 41 25 LONG 081 48 15)												
APR , 1979												
24...	--	--	290	0	--	--	30	20	--	--	--	--
SEP												
13...	20	10	210	50	28000	20	20	20	760	.00	0	40
394129082334300 - 041 PLEASANT RN NR LANCASTER OH (LAT 39 41 29 LONG 082 33 43)												
APR , 1979												
23...	--	--	550	20	--	--	250	70	--	--	--	--
SEP												
10...	<10	<10	560	10	13000	20	100	90	190	.00	0	70
394232081091900 - 041 TOWN F NR GRAYSVILLE OH (LAT 39 42 32 LONG 081 09 19)												
APR , 1979												
25...	--	--	150	30	--	--	20	20	--	--	--	--
SEP												
12...	20	20	310	50	40000	30	20	10	1100	.00	0	60
394238082205900 - 041 NO NAME C NR BREMAN OH (LAT 39 42 38 LONG 082 20 59)												
APR , 1979												
23...	--	--	580	30	--	--	710	600	--	--	--	--
SEP												
10...	10	<10	630	90	12000	<10	1800	1600	870	.00	0	40
394310081215200 - 041 SCHWAB RN NR SUMMERFIELD OH (LAT 39 43 10 LONG 081 21 52)												
APR , 1979												
24...	--	--	200	10	--	--	130	130	--	--	--	--
SEP												
11...	10	20	220	40	24000	30	90	80	1100	.00	0	60
394310081570000 - 041 ISLAND RN NR MCCONNELSVILLE OH (LAT 39 43 10 LONG 081 57 00)												
APR , 1979												
24...	--	--	150	10	--	--	20	10	--	--	--	--
SEP												
12...	30	30	110	80	70000	20	10	10	1600	.00	0	80
394311081425700 - 041 HORSE RN NR MCCONNELSVILLE OH (LAT 39 43 11 LONG 081 42 57)												
APR , 1979												
24...	--	--	520	170	--	--	360	280	--	--	--	--
SEP												
13...	30	20	260	90	4900	30	310	10	3100	.00	0	60
394331082021000 - 041 OGG C NR NEW LEXINGTON OH (LAT 39 43 31 LONG 082 02 10)												
APR , 1979												
24...	--	--	430	10	--	--	20	10	--	--	--	--
SEP												
11...	30	20	80	20	40000	40	10	0	1600	.00	0	70
394456082195600 - 041 CENTER B NR SOMERSET OH (LAT 39 44 56 LONG 082 19 56)												
APR , 1979												
23...	--	--	550	30	--	--	280	260	--	--	--	--
SEP												
10...	<10	<10	500	150	56000	<10	180	50	120	.00	0	10

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

--TABLE OF BENTHIC INVERTEBRATES--

	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER
	394125081481500	394129082334300	394232081091900	394238082205900	394310081215200
	79/09/13	79/09/10	79/09/12	79/09/10	79/09/11
BENTHIC INVERTEBRATES	-STATUS-	-STATUS-	-STATUS-	-STATUS-	-STATUS-
AQUATIC EARTHWORMS	--	--	--	--	--
BEETLES ADULT	--	--	--	--	--
BEETLES LARVAE	--	COMMON	PRESENT	COMMON	--
BLACK FLIES	--	--	COMMON	--	--
CADDISFLIES CASES	COMMON	--	--	--	--
CADDISFLIES FREE-LIVING	COMMON	PRESENT	--	--	--
CLAM	--	--	--	--	--
CRAYFISH	COMMON	COMMON	COMMON	--	COMMON
CYCLOPS	--	--	--	--	--
DAMSELFLIES	--	--	--	COMMON	--
DRAGONFLIES	--	COMMON	--	COMMON	--
FISH	PRESENT	--	COMMON	COMMON	COMMON
FLAT WORMS	--	--	--	--	--
FROGS	--	--	--	--	--
HELLGRAMMITES	PRESENT	--	--	--	--
HORSE HAIR WORMS	--	--	PRESENT	--	--
ISOPOD	--	--	--	--	--
LEECHES	--	PRESENT	--	--	--
MAYFLIES	COMMON	COMMON	PRESENT	COMMON	COMMON
MIDGES	--	--	--	COMMON	PRESENT
SALAMANDERS	--	--	--	--	--
SCUDS	--	--	--	--	--
SEED SHRIMP	--	--	--	--	--
SNAILS	--	COMMON	--	--	--
STONEFLIES	PRESENT	PRESENT	COMMON	--	COMMON
WATER BOATMAN	--	--	--	--	--
WATER FLEA	--	--	--	--	--
WATER MITES	--	PRESENT	--	COMMON	--
WATER SNAKE	--	--	--	--	--
WATER STRIDERS	COMMON	--	--	COMMON	COMMON

EXPLANATION

-- - 0 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
PRESENT - 20 OR LESS OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
COMMON - MORE THAN 20 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

--TABLE OF BENTHIC INVERTEBRATES--

	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER
	394310081570000	394311081425700	394331082021000	394456082195600
	79/09/12	79/09/12	79/09/11	79/09/10
BENTHIC INVERTEBRATES	-STATUS-	-STATUS-	-STATUS-	-STATUS-
AQUATIC EARTHWORMS	--	--	--	--
BEETLES ADULT	--	PRESENT	--	--
BEETLES LARVAE	--	--	--	COMMON
BLACK FLIES	--	COMMON	--	--
CADDISFLIES CASES	COMMON	--	--	--
CADDISFLIES FREE-LIVING	COMMON	PRESENT	--	COMMON
CLAM	--	--	--	--
CRAYFISH	PRESENT	--	COMMON	COMMON
CYCLOPS	--	--	--	--
DAMSELFLIES	--	--	COMMON	--
DRAGONFLIES	--	--	--	COMMON
FISH	COMMON	--	COMMON	COMMON
FLAT WORMS	--	--	COMMON	COMMON
FROGS	--	--	--	--
HELLGRAMMITES	--	--	--	--
HORSE HAIR WORMS	--	--	--	--
ISOPOD	--	--	--	--
LEECHES	--	--	--	--
MAYFLIES	PRESENT	COMMON	COMMON	COMMON
MIDGES	--	COMMON	COMMON	COMMON
SALAMANDERS	--	--	--	--
SCUDS	--	--	--	--
SEED SHRIMP	--	--	--	--
SNAILS	--	PRESENT	--	--
STONEFLIES	PRESENT	--	--	COMMON
WATER BOATMAN	--	--	--	--
WATER FLEA	--	--	--	--
WATER MITES	--	--	--	--
WATER SNAKE	--	--	--	--
WATER STRIDERS	--	--	COMMON	COMMON

EXPLANATION

-- - 0 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
PRESENT - 20 OR LESS OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
COMMON - MORE THAN 20 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

ANALYSES OF MISCELLANEOUS STATIONS

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	ACIDITY TOTAL HEATED (MG/L AS H)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)
394508082092800 - 041 MC LUNEY C NR NEW LEXINGTON OH (LAT 39 45 08 LONG 082 09 28)												
APR , 1979												
24...	1520	4.3	2000	3.3	18.5	2.0	0	0	1200	--	--	--
SEP												
11...	1600	3.1	2120	3.0	20.0	3.2	0	0	1100	0	<10	10
394624080563600 - 041 ACKERSON RN NR CAMERON OH (LAT 39 46 24 LONG 080 56 36)												
APR , 1979												
26...	1130	3.2	339	8.3	16.5	--	144	--	68	--	--	--
SEP												
13...	1130	.56	378	8.0	19.5	--	200	0	57	0	<10	20
394627080561900 - 041 PAINE RN NR CAMERON OH (LAT 39 46 27 LONG 080 56 19)												
APR , 1979												
26...	1245	4.1	320	8.3	15.5	--	132	--	57	--	--	--
SEP												
13...	1010	.81	358	7.6	17.5	--	200	0	46	0	<10	10
394645081004100 - 041 PINEY F NR WOODSFIELD OH (LAT 39 46 45 LONG 081 00 41)												
APR , 1979												
26...	1415	6.0	240	8.6	17.5	--	96	4	36	--	--	--
SEP												
13...	1300	1.8	280	8.1	20.0	--	150	0	32	0	<10	10
394706081082000 - 041 WHEELER RN NR WOODSFIELD OH (LAT 39 47 06 LONG 081 08 20)												
APR , 1979												
25...	1345	2.5	312	8.2	22.0	--	88	0	36	--	--	--
SEP												
13...	1500	.70	462	7.7	24.0	--	130	0	27	0	<10	10
394716082273400 - 041 UNNAMED TR L RUSH C NR RUSHVILLE OH (LAT 39 47 16 LONG 082 27 34)												
APR , 1979												
23...	1215	9.1	515	8.2	12.0	--	229	0	53	--	--	--
SEP												
10...	1230	5.5	590	7.5	16.5	--	280	0	54	0	<10	10
394735081545600 - 041 BLUE ROCK C NR PHILO OH (LAT 39 47 35 LONG 081 54 56)												
APR , 1979												
24...	1415	6.2	360	8.3	19.0	--	102	4	63	--	--	--
SEP												
12...	1600	.98	400	8.0	24.0	--	140	0	53	0	<10	20
394827081065300 - 041 BAKER F NR WOODSFIELD OH (LAT 39 48 27 LONG 081 06 53)												
APR , 1979												
25...	1500	3.3	230	8.2	22.0	--	86	0	30	--	--	--
SEP												
13...	1655	.89	232	7.7	19.5	--	120	0	24	0	<10	20
394836082081600 - 041 BUCKEYE FK NR FULTONHAM OH (LAT 39 48 36 LONG 082 08 16)												
APR , 1979												
24...	1250	9.2	1850	3.2	17.5	3.8	0	0	1000	--	--	--
SEP												
11...	0810	6.3	2150	3.2	15.0	5.0	0	0	1200	0	<10	<10

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

ANALYSES OF MISCELLANEOUS STATIONS

DATE	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN)
394508082092800 - 041 MC LUNEY C NR NEW LEXINGTON OH (LAT 39 45 08 LONG 082 09 28)												
APR , 1979												
24...	--	--	4700	4300	--	--	8000	8000	--	--	--	--
SEP												
11...	10	20	5100	4200	71000	10	8400	8000	410	.00	0	50
394624080563600 - 041 ACKERSON RN NR CAMERON OH (LAT 39 46 24 LONG 080 56 36)												
APR , 1979												
26...	--	--	110	0	--	--	0	0	--	--	--	--
SEP												
13...	30	30	110	70	50000	30	0	0	1200	.00	0	90
394627080561900 - 041 PAINE RN NR CAMERON OH (LAT 39 46 27 LONG 080 56 19)												
APR , 1979												
26...	--	--	150	20	--	--	10	10	--	--	--	--
SEP												
13...	30	30	130	40	63000	40	10	0	1600	.00	0	90
394645081004100 - 041 PINEY F NR WOODSFIELD OH (LAT 39 46 45 LONG 081 00 41)												
APR , 1979												
26...	--	--	190	30	--	--	40	40	--	--	--	--
SEP												
13...	10	10	150	60	28000	10	0	0	800	.00	0	50
394706081082000 - 041 WHEELER RN NR WOODSFIELD OH (LAT 39 47 06 LONG 081 08 20)												
APR , 1979												
25...	--	--	120	10	--	--	10	10	--	--	--	--
SEP												
13...	20	20	170	50	47000	20	20	10	1500	.00	0	70
394716082273400 - 041 UNNAMED TR L RUSH C NR RUSHVILLE OH (LAT 39 47 16 LONG 082 27 34)												
APR , 1979												
23...	--	--	270	40	--	--	40	40	--	--	--	--
SEP												
10...	10	<10	390	30	11000	10	50	40	290	.00	0	90
394735081545600 - 041 BLUE ROCK C NR PHILO OH (LAT 39 47 35 LONG 081 54 56)												
APR , 1979												
24...	--	--	140	20	--	--	20	20	--	--	--	--
SEP												
12...	20	20	110	110	42000	20	50	50	1300	.00	0	70
394827081065300 - 041 BAKER F NR WOODSFIELD OH (LAT 39 48 27 LONG 081 06 53)												
APR , 1979												
25...	--	--	150	10	--	--	20	10	--	--	--	--
SEP												
13...	10	20	190	50	43000	30	30	10	1500	.00	0	80
394836082081600 - 041 BUCKEYE FK NR FULTONHAM OH (LAT 39 48 36 LONG 082 08 16)												
APR , 1979												
24...	--	--	8300	7700	--	--	21000	21000	--	--	--	--
SEP												
11...	20	20	6300	5300	77000	20	31000	31000	190	.00	0	50

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

--TABLE OF BENTHIC INVERTEBRATES--

	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER
	394508082092800	394624080563600	394627080561900	394645081004100	394706081082000
	79/09/11	79/09/13	79/09/13	79/09/13	79/09/13
BENTHIC INVERTEBRATES	-STATUS-	-STATUS-	-STATUS-	-STATUS-	-STATUS-
AQUATIC EARTHWORMS	--	--	PRESENT	--	--
BEETLES ADULT	PRESENT	--	--	PRESENT	PRESENT
BEETLES LARVAE	--	PRESENT	COMMON	COMMON	COMMON
BLACK FLIES	--	COMMON	--	COMMON	COMMON
CADDISFLIES CASES	--	COMMON	--	COMMON	PRESENT
CADDISFLIES FREE-LIVING	--	--	--	PRESENT	--
CLAM	--	--	--	--	--
CRAYFISH	--	PRESENT	--	--	COMMON
CYCLOPS	--	--	--	--	--
DAMSELFLIES	--	--	--	PRESENT	--
DRAGONFLIES	--	--	--	--	--
FISH	--	COMMON	COMMON	COMMON	PRESENT
FLAT WORMS	--	--	--	--	--
FROGS	--	--	--	--	--
HELLGRAMMITES	--	--	PRESENT	--	--
HORSE HAIR WORMS	--	PRESENT	--	--	--
ISOPOD	--	--	--	--	--
LEECHES	--	--	--	--	--
MAYFLIES	--	COMMON	COMMON	COMMON	COMMON
MIDGES	PRESENT	COMMON	PRESENT	COMMON	COMMON
SALAMANDERS	--	--	--	--	--
SCUDS	--	--	--	--	--
SEED SHRIMP	--	--	--	--	--
SNAILS	--	PRESENT	--	--	--
STONEFLIES	--	COMMON	--	--	--
WATER BOATMAN	--	--	COMMON	--	--
WATER FLEA	--	--	--	--	--
WATER MITES	--	--	--	--	--
WATER SNAKE	--	--	PRESENT	--	--
WATER STRIDERS	--	--	--	COMMON	COMMON

EXPLANATION

-- - 0 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
PRESENT - 20 OR LESS OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
COMMON - MORE THAN 20 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

--TABLE OF BENTHIC INVERTEBRATES--

	SITE ID NUMBER 394716082273400 79/09/10	SITE ID NUMBER 394735081545600 79/09/12	SITE ID NUMBER 394827081065300 79/09/13	SITE ID NUMBER 394836082081600 79/09/11
BENTHIC INVERTEBRATES	-STATUS-	-STATUS-	-STATUS-	-STATUS-
AQUATIC EARTHWORMS	--	--	--	--
BEETLES ADULT	--	--	PRESENT	--
BEETLES LARVAE	--	--	--	--
BLACK FLIES	--	--	COMMON	--
CADDISFLIES CASES	--	COMMON	PRESENT	--
CADDISFLIES FREE-LIVING	--	COMMON	COMMON	--
CLAM	--	--	--	--
CRAYFISH	COMMON	--	--	--
CYCLOPS	--	--	--	--
DAMSELFLIES	--	--	--	--
DRAGONFLIES	COMMON	--	--	--
FISH	COMMON	PRESENT	--	--
FLAT WORMS	--	--	--	--
FROGS	--	--	--	PRESENT
HELLGRAMMITES	--	--	--	--
HORSE HAIR WORMS	--	--	--	--
ISOPOD	--	--	--	--
LEECHES	--	--	--	--
MAYFLIES	COMMON	COMMON	COMMON	--
MIDGES	--	--	COMMON	COMMON
SALAMANDERS	--	--	--	--
SCUDS	--	--	--	--
SEED SHRIMP	--	--	--	--
SNAILS	COMMON	--	--	PRESENT
STONEFLIES	--	--	PRESENT	--
WATER BOATMAN	--	--	--	--
WATER FLEA	--	--	--	--
WATER MITES	COMMON	--	--	--
WATER SNAKE	--	--	--	--
WATER STRIDERS	COMMON	PRESENT	--	--

EXPLANATION

-- - 0 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
PRESENT - 20 OR LESS OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
COMMON - MORE THAN 20 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

ANALYSES OF MISCELLANEOUS STATIONS

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	ACIDITY TOTAL HEATED (MG/L AS H)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)
394953081182800 - 041 SKIN C NR SUMMERFIELD OH (LAT 39 49 53 LONG 081 18 28)												
APR , 1979												
26...	1630	5.0	440	8.0	17.0	--	246	0	50	--	--	--
SEP												
19...	1445	2.4	500	7.7	18.0	--	288	0	32	0	<10	30
395029081590700 - 041 BRUSH C NR PHILO OH (LAT 39 50 29 LONG 081 59 07)												
APR , 1979												
23...	1330	14	885	4.5	16.0	1.4	0	0	400	--	--	--
SEP												
12...	1430	5.6	1260	3.3	23.5	2.5	0	0	600	0	<10	10
395115081163800 - 041 SENECA F WILLS C NR BARNSVILLE OH (LAT 39 51 15 LONG 081 16 38)												
APR , 1979												
26...	1730	15	410	8.0	16.5	--	224	0	45	--	--	--
SEP												
19...	1325	6.9	445	7.8	17.5	--	268	0	39	0	<10	20
395128082121600 - 041 TURKEY RN NR SOMERSET OH (LAT 39 51 28 LONG 082 12 16)												
APR , 1979												
24...	1020	10	625	6.7	14.5	.1	13	0	250	--	--	--
SEP												
11...	1330	4.0	790	7.1	18.5	--	24	0	290	0	<10	10
395140081504600 - 041 KENT RN NR CHANDLERSVILLE OH (LAT 39 51 40 LONG 081 50 46)												
APR , 1979												
23...	1545	3.4	465	8.4	15.5	--	141	5	95	--	--	--
SEP												
12...	1115	.65	510	7.7	19.5	--	210	0	73	0	<10	20
395201080514000 - 041 CAT RN NR POWHATTAN POINT OH (LAT 39 52 01 LONG 080 51 40)												
APR , 1979												
24...	0845	7.9	420	8.2	12.5	--	178	0	76	--	--	--
SEP												
13...	1000	2.7	550	8.2	18.5	--	232	0	88	0	<10	20
395210082165600 - 041 PAINTER C NR SOMERSET OH (LAT 39 52 10 LONG 082 16 56)												
APR , 1979												
24...	0900	13	335	7.9	13.5	--	104	0	47	--	--	--
SEP												
11...	1120	5.7	420	8.1	18.0	--	140	0	36	0	<10	10
395217082055300 - 041 KENT RN AT WHITE COTTAGE OH (LAT 39 52 17 LONG 082 05 53)												
APR , 1979												
23...	1045	16	440	8.1	14.0	--	83	0	64	--	--	--
SEP												
10...	1115	7.3	539	7.7	16.5	--	140	0	59	0	<10	20
395255082040900 - 041 THOMPSON RN NR WHITE COTTAGE OH (LAT 39 52 55 LONG 082 04 09)												
APR , 1979												
23...	0930	12	528	7.6	13.5	--	72	0	140	--	--	--
SEP												
10...	1540	5.0	510	7.7	19.5	--	100	0	130	0	<10	20

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

ANALYSES OF MISCELLANEOUS STATIONS

DATE	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN)
394953081182800 - 041 SKIN C NR SUMMERFIELD OH (LAT 39 49 53 LONG 081 18 28)												
APR , 1979												
26...	--	--	210	40	--	--	60	60	--	--	--	--
SEP												
19...	30	40	270	0	52000	60	80	60	2900	.00	0	100
395029081590700 - 041 BRUSH C NR PHILO OH (LAT 39 50 29 LONG 081 59 07)												
APR , 1979												
23...	--	--	9500	5000	--	--	4200	4200	--	--	--	--
SEP												
12...	10	20	4600	3700	63000	10	7200	7100	270	.00	0	60
395115081163800 - 041 SENECA F WILLS C NR BARNSVILLE OH (LAT 39 51 15 LONG 081 16 38)												
APR , 1979												
26...	--	--	320	60	--	--	70	60	--	--	--	--
SEP												
19	10	10	1100	30	30000	30	150	70	1000	.00	0	40
395128082121600 - 041 TURKEY RN NR SOMERSET OH (LAT 39 51 28 LONG 082 12 16)												
APR , 1979												
24...	--	--	810	210	--	--	5100	5100	--	--	--	--
SEP												
11...	70	10	160	10	30000	10	6000	6000	2000	.00	0	90
395140081504600 - 041 KENT RN NR CHANDLERSVILLE OH (LAT 39 51 40 LONG 081 50 46)												
APR , 1979												
23...	--	--	130	10	--	--	20	20	--	--	--	--
SEP												
12...	30	20	110	70	44000	20	20	10	2300	.00	0	70
395201080514000 - 041 CAT RN NR POWHATTAN POINT OH (LAT 39 52 01 LONG 080 51 40)												
APR , 1979												
24...	--	--	180	30	--	--	20	10	--	--	--	--
SEP												
13...	20	30	200	50	49000	20	20	10	1400	.00	0	110
395210082165600 - 041 PAINTER C NR SOMERSET OH (LAT 39 52 10 LONG 082 16 56)												
APR , 1979												
24...	--	--	400	10	--	--	90	80	--	--	--	--
SEP												
11...	<10	<10	370	50	11000	20	60	50	470	.00	0	60
395217082055300 - 041 KENT RN AT WHITE COTTAGE OH (LAT 39 52 17 LONG 082 05 53)												
APR , 1979												
23...	--	--	650	30	--	--	50	40	--	--	--	--
SEP												
10...	30	440	200	100	8400	50	30	30	1200	.00	0	130
395255082040900 - 041 THOMPSON RN NR WHITE COTTAGE OH (LAT 39 52 55 LONG 082 04 09)												
APR , 1979												
23...	--	--	340	10	--	--	710	710	--	--	--	--
SEP												
10...	20	10	410	70	50000	10	450	440	710	.00	0	100

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

--TABLE OF BENTHIC INVERTEBRATES--

	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER
	394953081182800	395029081590700	395115081163800	395128082121600	395140081504600
	79/09/19	79/09/12	79/09/19	79/09/11	79/09/12
BENTHIC INVERTEBRATES	-STATUS-	-STATUS-	-STATUS-	-STATUS-	-STATUS-
AQUATIC EARTHWORMS	--	--	--	--	--
BEETLES ADULT	--	--	--	--	--
BEETLES LARVAE	COMMON	--	COMMON	--	--
BLACK FLIES	--	PRESENT	PRESENT	--	PRESENT
CADDISFLIES CASES	COMMON	--	PRESENT	--	PRESENT
CADDISFLIES FREE-LIVING	PRESENT	--	--	COMMON	PRESENT
CLAM	PRESENT	--	PRESENT	--	--
CRAYFISH	--	--	PRESENT	COMMON	--
CYCLOPS	--	--	--	--	--
DAMSELFLIES	COMMON	--	--	--	--
DRAGONFLIES	--	--	PRESENT	--	PRESENT
FISH	COMMON	--	COMMON	COMMON	COMMON
FLAT WORMS	--	--	PRESENT	--	--
FROGS	--	--	--	PRESENT	PRESENT
HELLGRAMMITES	--	--	--	--	--
HORSE HAIR WORMS	--	--	--	--	--
ISOPOD	--	--	--	--	--
LEECHES	--	--	--	--	--
MAYFLIES	COMMON	--	COMMON	COMMON	COMMON
MIDGES	COMMON	--	PRESENT	COMMON	--
SALAMANDERS	--	--	--	--	--
SCUDS	PRESENT	--	--	--	--
SEED SHRIMP	--	--	--	--	--
SNAILS	--	--	--	--	--
STONEFLIES	--	--	COMMON	--	--
WATER BOATMAN	--	--	--	--	--
WATER FLEA	--	--	--	--	--
WATER MITES	PRESENT	--	--	--	--
WATER SNAKE	--	--	--	--	--
WATER STRIDERS	COMMON	--	COMMON	COMMON	--

EXPLANATION

-- - 0 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
PRESENT - 20 OR LESS OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
COMMON - MORE THAN 20 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

--TABLE OF BENTHIC INVERTEBRATES--

	SITE ID NUMBER 395201080514000 79/09/13	SITE ID NUMBER 395210082165600 79/09/11	SITE ID NUMBER 395217082055300 79/09/10	SITE ID NUMBER 395255082040900 79/09/10
BENTHIC INVERTEBRATES	-STATUS-	-STATUS-	-STATUS-	-STATUS-
AQUATIC EARTHWORMS	--	--	--	--
BEETLES ADULT	--	--	--	--
BEETLES LARVAE	COMMON	--	PRESENT	PRESENT
BLACK FLIES	--	COMMON	--	--
CADDISFLIES CASES	PRESENT	COMMON	--	--
CADDISFLIES FREE-LIVING	--	--	--	--
CLAM	--	--	--	--
CRAYFISH	COMMON	COMMON	PRESENT	PRESENT
CYCLOPS	--	--	--	--
DAMSELFLIES	--	PRESENT	--	--
DRAGONFLIES	PRESENT	--	--	--
FISH	COMMON	COMMON	COMMON	PRESENT
FLAT WORMS	--	--	--	--
FROGS	--	PRESENT	--	--
HELLGRAMMITES	--	--	--	--
HORSE HAIR WORMS	--	--	--	--
ISOPOD	--	--	--	--
LEECHES	--	--	--	--
MAYFLIES	COMMON	COMMON	COMMON	COMMON
MIDGES	COMMON	COMMON	--	--
SALAMANDERS	--	--	--	--
SCUDS	--	--	--	--
SEED SHRIMP	--	--	--	--
SNAILS	--	--	--	--
STONEFLIES	PRESENT	--	--	--
WATER BOATMAN	--	--	--	--
WATER FLEA	--	--	--	--
WATER MITES	--	--	--	--
WATER SNAKE	--	--	--	--
WATER STRIDERS	COMMON	--	--	COMMON

EXPLANATION

-- - 0 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
PRESENT - 20 OR LESS OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
COMMON - MORE THAN 20 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

ANALYSES OF MISCELLANEOUS STATIONS

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	ACIDITY TOTAL HEATED (MG/L AS H)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)
395313081324300 - 041 BUFFALO C NR PLEASANT CITY OH (LAT 39 53 13 LONG 081 32 43)												
APR , 1979												
24...	0900	24	585	7.9	16.5	--	167	0	110	--	--	--
SEP												
11...	1625	7.1	544	7.9	20.5	--	210	0	94	0	<10	20
395320081401200 - 041 YOKER C NR CUMBERLAND OH (LAT 39 53 20 LONG 081 40 12)												
APR , 1979												
24...	1130	13	1100	7.8	15.5	--	154	0	510	--	--	--
SEP												
11...	1805	4.5	1490	7.8	20.0	--	200	0	780	0	<10	20
395329081530800 - 041 BOGGS C NR DUNCAN FALLS OH (LAT 39 53 29 LONG 081 53 08)												
APR , 1979												
23...	1445	12	485	8.5	16.5	--	78	8	120	--	--	--
SEP												
12...	0900	5.9	500	7.7	18.0	--	100	0	140	0	<10	<10
395333080541300 - 041 PEA VINE C NR ARMSTRONGS MILLS OH (LAT 39 53 33 LONG 080 54 13)												
APR , 1979												
24...	1050	6.1	370	8.5	14.5	--	160	4	57	--	--	--
SEP												
13...	1130	1.0	470	8.2	20.5	--	228	0	54	0	<10	20
395411081492500 - 041 WILLIAMS F AT CHANDLERSVILLE OH (LAT 39 54 11 LONG 081 49 25)												
APR , 1979												
23...	1645	4.1	395	9.1	16.5	--	104	16	69	--	--	--
SEP												
11...	1130	1.7	451	8.1	19.5	--	200	0	53	0	<10	10
395419081044800 - 041 S F CAPTINA C NR SOMERTON OH (LAT 39 54 19 LONG 081 04 48)												
APR , 1979												
24...	1450	18	270	8.8	20.5	--	94	8	33	--	--	--
SEP												
13...	1515	5.7	320	8.3	22.5	--	152	4	26	0	<10	10
395419082184400 - 041 VALLEY RN NR GLENFORD OH (LAT 39 54 19 LONG 082 18 44)												
APR , 1979												
26...	1420	30	342	7.7	16.0	--	106	0	46	--	--	--
SEP												
13...	0900	9.5	390	7.1	19.0	--	130	0	40	0	<10	<10
395441081000000 - 041 PINEY C NR ARMSTRONGS MILLS OH (LAT 39 54 41 LONG 081 00 00)												
APR , 1979												
24...	1145	5.6	360	8.2	17.5	--	140	0	67	--	--	--
SEP												
13...	1400	.92	740	8.2	23.5	--	168	0	190	--	<10	--
395444081273400 - 041 OPOSSUM RN NR SENECAVILLE OH (LAT 39 54 44 LONG 081 27 34)												
APR , 1979												
24...	0845	5.0	430	7.5	14.5	--	185	0	64	--	--	--
SEP												
11...	1445	1.6	431	7.7	20.5	--	240	0	49	0	<10	<10

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

ANALYSES OF MISCELLANEOUS STATIONS

DATE	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN)
395313081324300 - 041 BUFFALO C NR PLEASANT CITY OH (LAT 39 53 13 LONG 081 32 43)												
APR , 1979												
24...	--	--	980	0	--	--	180	140	--	--	--	--
SEP												
11...	40	20	1200	60	62000	20	210	120	3600	.00	0	80
395320081401200 - 041 YOKER C NR CUMBERLAND OH (LAT 39 53 20 LONG 081 40 12)												
APR , 1979												
24...	--	--	1100	10	--	--	2900	2800	--	--	--	--
SEP												
11...	60	10	220	60	30000	<10	4000	3800	3700	.00	0	80
395329081530800 - 041 BOGGS C NR DUNCAN FALLS OH (LAT 39 53 29 LONG 081 53 08)												
APR , 1979												
23...	--	--	470	30	--	--	410	400	--	--	--	--
SEP												
12...	<10	<10	450	50	9800	20	150	150	330	.00	0	20
395333080541300 - 041 PEA VINE C NR ARMSTRONGS MILLS OH (LAT 39 53 33 LONG 080 54 13)												
APR , 1979												
24...	--	--	60	10	--	--	10	0	--	--	--	--
SEP												
13...	30	30	100	0	64000	50	10	0	1500	.00	0	100
395411081492500 - 041 WILLIAMS F AT CHANDLERSVILLE OH (LAT 39 54 11 LONG 081 49 25)												
APR , 1979												
23...	--	--	120	0	--	--	30	20	--	--	--	--
SEP												
11...	30	20	170	50	54000	20	40	30	1800	.00	0	70
395419081044800 - 041 S F CAPTINA C NR SOMERTON OH (LAT 39 54 19 LONG 081 04 48)												
APR , 1979												
24...	--	--	80	0	--	--	10	10	--	--	--	--
SEP												
13...	10	10	390	30	20000	10	20	20	770	.00	0	550
395419082184400 - 041 VALLEY RN NR GLENFORD OH (LAT 39 54 19 LONG 082 18 44)												
APR , 1979												
26...	--	--	550	70	--	--	130	130	--	--	--	--
SEP												
13...	<10	<10	900	100	7400	<10	110	90	230	.00	0	20
395441081000000 - 041 PINEY C NR ARMSTRONGS MILLS OH (LAT 39 54 41 LONG 081 00 00)												
APR , 1979												
24...	--	--	170	10	--	--	20	0	--	--	--	--
SEP												
13...	--	--	310	30	32000	--	10	0	--	--	--	--
395444081273400 - 041 OPOSSUM RN NR SENECAVILLE OH (LAT 39 54 44 LONG 081 27 34)												
APR , 1979												
24...	--	--	650	0	--	--	130	110	--	--	--	--
SEP												
11...	30	10	6800	200	36000	10	510	110	1900	.00	0	40

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

--TABLE OF BENTHIC INVERTEBRATES--

	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER
	395313081324300	395320081401200	395329081530800	395333080541300	395411081492500
	79/09/11	79/09/12	79/09/12	79/09/13	79/09/11
BENTHIC INVERTEBRATES	-STATUS-	-STATUS-	-STATUS-	-STATUS-	-STATUS-
AQUATIC EARTHWORMS	--	--	--	--	--
BEETLES ADULT	PRESENT	PRESENT	--	--	--
BEETLES LARVAE	--	--	--	COMMON	--
BLACK FLIES	--	PRESENT	PRESENT	PRESENT	--
CADDISFLIES CASES	--	--	--	--	COMMON
CADDISFLIES FREE-LIVING	--	COMMON	--	--	COMMON
CLAM	--	PRESENT	--	--	--
CRAYFISH	PRESENT	--	PRESENT	COMMON	COMMON
CYCLOPS	--	--	--	--	--
DAMSELFLIES	--	--	--	--	PRESENT
DRAGONFLIES	PRESENT	--	--	--	--
FISH	--	--	PRESENT	COMMON	COMMON
FLAT WORMS	PRESENT	--	--	--	--
FROGS	PRESENT	--	--	--	--
HELLGRAMMITES	--	--	--	--	--
HORSE HAIR WORMS	--	--	--	--	--
ISOPOD	--	--	--	--	--
LEECHES	--	--	--	--	--
MAYFLIES	COMMON	PRESENT	PRESENT	COMMON	PRESENT
MIDGES	--	COMMON	--	COMMON	PRESENT
SALAMANDERS	--	--	--	--	--
SCUDS	--	--	--	--	--
SEED SHRIMP	--	--	--	--	--
SNAILS	--	--	--	--	--
STONEFLIES	--	--	--	PRESENT	PRESENT
WATER BOATMAN	--	--	--	--	--
WATER FLEA	--	--	--	--	--
WATER MITES	--	--	--	--	--
WATER SNAKE	--	--	--	--	--
WATER STRIDERS	COMMON	--	PRESENT	--	--

EXPLANATION

-- - 0 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
PRESENT - 20 OR LESS OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
COMMON - MORE THAN 20 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

--TABLE OF BENTHIC INVERTEBRATES--

	SITE ID NUMBER 395419081044800 79/09/13	SITE ID NUMBER 395419082184400 79/09/13	SITE ID NUMBER 395441081000000 79/10/10	SITE ID NUMBER 395444081273400 79/09/11
BENTHIC INVERTEBRATES	-STATUS-	-STATUS-	-STATUS-	-STATUS-
AQUATIC EARTHWORMS	--	--	--	--
BEETLES ADULT	--	--	--	--
BEETLES LARVAE	COMMON	--	--	--
BLACK FLIES	--	PRESENT	--	--
CADDISFLIES CASES	--	--	--	COMMON
CADDISFLIES FREE-LIVING	--	PRESENT	PRESENT	--
CLAM	--	--	--	--
CRAYFISH	--	PRESENT	--	--
CYCLOPS	--	--	--	--
DAMSELFLIES	--	--	--	--
DRAGONFLIES	PRESENT	--	--	--
FISH	COMMON	--	--	PRESENT
FLAT WORMS	--	--	--	--
FROGS	--	--	--	PRESENT
HELLGRAMMITES	--	--	--	--
HORSE HAIR WORMS	--	--	--	--
ISOPOD	--	--	--	--
LEECHES	--	--	--	--
MAYFLIES	--	PRESENT	--	COMMON
MIDGES	PRESENT	COMMON	--	--
SALAMANDERS	--	--	--	--
SCUDS	--	--	--	--
SEED SHRIMP	--	--	--	--
SNAILS	--	--	--	--
STONEFLIES	--	COMMON	--	--
WATER BOATMAN	--	--	--	--
WATER FLEA	--	--	--	--
WATER MITES	COMMON	--	PRESENT	--
WATER SNAKE	--	--	--	--
WATER STRIDERS	COMMON	--	--	PRESENT

EXPLANATION

-- - 0 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
PRESENT - 20 OR LESS OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
COMMON - MORE THAN 20 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

ANALYSES OF MISCELLANEOUS STATIONS

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	ACIDITY TOTAL HEATED (MG/L AS H)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)
395522081514100 - 041 WHITE EYES C NR CHANDLERSVILLE OH (LAT 39 55 22 LONG 081 51 41)												
APR , 1979												
23...	1800	6.7	360	8.6	16.0	--	104	12	57	--	--	--
SEP												
11...	1030	2.9	404	8.0	17.5	--	190	0	45	0	<10	10
395550080505900 - 041 PIPE C NR JACOBSBURG OH (LAT 39 55 50 LONG 080 50 59)												
APR , 1979												
25...	1115	7.4	440	8.3	18.0	--	184	2	65	--	--	--
SEP												
13...	0830	1.9	530	8.0	17.0	--	232	0	57	0	<10	20
395618080592700 - 041BEND F NR ARMSTRONGS MILLS OH (LAT 39 56 18 LONG 080 59 27)												
APR , 1979												
24...	1315	14	310	8.8	19.0	--	114	12	48	--	--	--
SEP												
13...	1315	4.3	390	8.6	20.0	--	168	8	39	0	<10	10
395639081083200 - 041 UNNAMED STR NR BARNESVILLE OH (LAT 39 56 39 LONG 081 08 32)												
APR , 1979												
24...	1700	2.6	310	8.5	18.5	--	120	2	34	--	--	--
SEP												
13...	1630	.61	425	8.2	22.5	--	192	0	24	0	<10	<10
395659081522700 - 041 L SALT C NR NORWICH OH (LAT 39 56 59 LONG 081 52 27)												
APR , 1979												
23...	1845	9.9	410	8.9	16.0	--	47	20	77	--	--	--
SEP												
11...	0820	5.7	475	7.5	16.0	--	130	0	84	0	<10	10
395709081062900 - 041 LONG RN NR BARNESVILLE OH (LAT 39 57 09 LONG 081 06 29)												
APR , 1979												
25...	0830	5.2	560	7.9	17.5	--	164	0	140	--	--	--
SEP												
13...	1745	1.6	620	8.0	23.0	--	200	0	130	0	<10	<10
395727080461400 - 041 WEGEE C NR SHADYSIDE OH (LAT 39 57 27 LONG 080 46 14)												
APR , 1979												
25...	1315	7.0	610	7.8	22.0	--	172	0	160	--	--	--
SEP												
12...	1315	5.2	750	7.7	20.0	--	152	0	240	0	<10	10
395801081350200 - 041 CHAPMAN RN NR BYESVILLE OH (LAT 39 58 01 LONG 081 35 02)												
APR , 1979												
23...	1310	7.0	347	7.4	14.0	--	116	0	71	--	--	--
SEP												
10...	1230	2.0	500	7.4	15.5	--	150	0	85	0	<10	10
395903082031300 - 041 BARTLETT RN NR ZANESVILLE OH (LAT 39 59 03 LONG 082 03 13)												
APR , 1979												
25...	0840	6.0	390	7.7	15.5	--	126	0	74	--	--	--
SEP												
12...	0800	3.9	460	7.0	17.0	--	150	0	59	0	<10	<10

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

ANALYSES OF MISCELLANEOUS STATIONS

DATE	COBALT, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CO)	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS FE)	LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MANGA- NESE, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	MERCURY RECOV. FM BOT- TOM MA- TERIAL (UG/G AS HG)	SELE- NIUM, TOTAL IN BOT- TOM MA- TERIAL (UG/G)	ZINC, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS ZN)
395522081514100 - 041 WHITE EYES C NR CHANDLERSVILLE OH (LAT 39 55 22 LONG 081 51 41)												
APR , 1979												
23...	--	--	170	30	--	--	30	20	--	--	--	--
SEP												
11...	20	10	700	50	38000	10	50	30	860	.00	0	50
395550080505900 - 041 PIPE C NR JACOBSBURG OH (LAT 39 55 50 LONG 080 50 59)												
APR , 1979												
25...	--	--	110	10	--	--	20	0	--	--	--	--
SEP												
13...	30	30	660	0	41000	60	20	0	1600	.00	0	110
395618080592700 - 041BEND F NR ARMSTRONGS MILLS OH (LAT 39 56 18 LONG 080 59 27)												
APR , 1979												
24...	--	--	90	0	--	--	10	10	--	--	--	--
SEP												
13...	20	10	630	10	12000	50	30	0	1500	.00	0	30
395639081083200 - 041 UNAMED STR NR BARNESVILLE OH (LAT 39 56 39 LONG 081 08 32)												
APR , 1979												
24...	--	--	320	10	--	--	30	10	--	--	--	--
SEP												
13...	10	<10	510	10	12000	10	60	30	660	.00	0	30
395659081522700 - 041 L SALT C NR NORWICH OH (LAT 39 56 59 LONG 081 52 27)												
APR , 1979												
23...	--	--	550	70	--	--	230	190	--	--	--	--
SEP												
11...	10	<10	590	140	27000	10	170	160	430	.00	0	30
395709081062900 - 041 LONG RN NR BARNESVILLE OH (LAT 39 57 09 LONG 081 06 29)												
APR , 1979												
25...	--	--	440	20	--	--	340	290	--	--	--	--
SEP												
13...	10	10	190	30	15000	40	160	130	1100	.00	0	30
395727080461400 - 041 WEGEE C NR SHADYSIDE OH (LAT 39 57 27 LONG 080 46 14)												
APR , 1979												
25...	--	--	2000	30	--	--	150	130	--	--	--	--
SEP												
12...	30	20	1800	0	28000	60	320	260	1300	.00	0	90
395801081350200 - 041 CHAPMAN RN NR BYESVILLE OH (LAT 39 58 01 LONG 081 35 02)												
APR , 1979												
23...	--	--	400	40	--	--	150	150	--	--	--	--
SEP												
10...	10	<10	480	150	39000	10	130	130	1300	.00	0	70
395903082031300 - 041 BARTLETT RN NR ZANESVILLE OH (LAT 39 59 03 LONG 082 03 13)												
APR , 1979												
25...	--	--	810	10	--	--	220	220	--	--	--	--
SEP												
12...	<10	<10	1000	70	7800	<10	190	170	150	.00	0	20

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

--TABLE OF BENTHIC INVERTEBRATES--

	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER
	395522081514100	395550080505900	395618080592700	395639081083200	395659081522700
	79/09/12	79/09/13	79/09/13	79/09/13	79/09/11
BENTHIC INVERTEBRATES	-STATUS-	-STATUS-	-STATUS-	-STATUS-	-STATUS-
AQUATIC EARTHWORMS	--	--	--	--	--
BEETLES ADULT	PRESENT	--	PRESENT	--	--
BEETLES LARVAE	--	COMMON	--	COMMON	--
BLACK FLIES	COMMON	COMMON	PRESENT	--	--
CADDISFLIES CASES	--	--	--	COMMON	COMMON
CADDISFLIES FREE-LIVING	PRESENT	PRESENT	COMMON	--	COMMON
CLAM	--	--	--	--	--
CRAYFISH	--	PRESENT	--	COMMON	COMMON
CYCLOPS	--	--	--	--	--
DAMSELFLIES	--	--	--	--	--
DRAGONFLIES	--	--	--	--	PRESENT
FISH	--	COMMON	--	COMMON	--
FLAT WORMS	--	--	--	PRESENT	--
FROGS	--	--	--	--	--
HELLGRAMMITES	--	--	--	--	--
HORSE HAIR WORMS	--	--	--	--	--
ISOPOD	--	--	--	--	--
LEECHES	--	--	--	--	--
MAYFLIES	COMMON	COMMON	COMMON	COMMON	COMMON
MIDGES	COMMON	PRESENT	COMMON	COMMON	--
SALAMANDERS	--	--	--	--	--
SCUDS	--	--	--	--	--
SEED SHRIMP	--	--	--	--	--
SNAILS	--	--	--	--	--
STONEFLIES	--	--	PRESENT	--	--
WATER BOATMAN	--	--	--	COMMON	PRESENT
WATER FLEA	--	--	--	--	--
WATER MITES	--	COMMON	--	COMMON	--
WATER SNAKE	--	--	--	--	--
WATER STRIDERS	--	COMMON	--	COMMON	COMMON

EXPLANATION

-- - 0 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
PRESENT - 20 OR LESS OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
COMMON - MORE THAN 20 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

--TABLE OF BENTHIC INVERTEBRATES--

	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER
	395709081062900	395727080461400	395801081350200	395903082031300
	79/09/13	79/09/12	79/09/10	79/09/12
BENTHIC INVERTEBRATES	-STATUS-	-STATUS-	-STATUS-	-STATUS-
AQUATIC EARTHWORMS	--	--	--	--
BEETLES ADULT	--	PRESENT	--	--
BEETLES LARVAE	--	PRESENT	COMMON	--
BLACK FLIES	COMMON	--	PRESENT	COMMON
CADDISFLIES CASES	--	--	--	--
CADDISFLIES FREE-LIVING	COMMON	--	PRESENT	PRESENT
CLAM	--	--	--	--
CRAYFISH	--	--	--	--
CYCLOPS	--	--	--	--
DAMSELFLIES	--	--	--	--
DRAGONFLIES	--	--	--	--
FISH	--	COMMON	--	PRESENT
FLAT WORMS	--	--	--	--
FROGS	--	--	--	--
HELLGRAMMITES	--	--	--	--
HORSE HAIR WORMS	--	--	--	--
ISOPOD	--	--	--	--
LEECHES	--	--	--	--
MAYFLIES	COMMON	--	COMMON	PRESENT
MIDGES	COMMON	--	PRESENT	PRESENT
SALAMANDERS	--	--	--	--
SCUDS	--	--	--	--
SEED SHRIMP	--	--	--	--
SNAILS	--	--	--	--
STONEFLIES	--	COMMON	PRESENT	PRESENT
WATER BOATMAN	--	PRESENT	--	--
WATER FLEA	--	--	--	--
WATER MITES	--	--	--	PRESENT
WATER SNAKE	--	PRESENT	--	--
WATER STRIDERS	--	COMMON	--	--

EXPLANATION

-- - 0 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
PRESENT - 20 OR LESS OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
COMMON - MORE THAN 20 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

ANALYSES OF MISCELLANEOUS STATIONS

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	ACIDITY TOTAL HEATED (MG/L AS H)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)
395908081273400 - 041 LEATHERWOOD C AT LORE CITY OH (LAT 39 59 08 LONG 081 27 34)												
APR , 1979												
23...	1050	41	692	7.9	15.0	--	131	0	280	--	--	--
SEP												
10...	1100	9.1	790	7.5	16.0	--	170	0	230	0	<10	<10
395941081432900 - 041 N CROOKED C AT NEW CONCORD OH (LAT 39 59 41 LONG 081 43 29)												
APR , 1979												
23...	1545	5.2	398	8.5	15.0	--	167	7	56	--	--	--
SEP												
10...	1630	2.3	450	7.4	19.0	--	200	0	45	0	<10	20
400013080533000 - 041 WILLIAMS C AT GLENCO OH (LAT 40 00 13 LONG 080 53 30)												
APR , 1979												
25...	1505	8.2	350	8.6	25.5	--	130	8	60	--	--	--
SEP												
12...	1500	1.2	440	8.2	24.0	--	188	0	50	0	<10	20
400037081392700 - 041 PETERS C NR NEW CONCORD OH (LAT 40 00 37 LONG 081 39 27)												
APR , 1979												
23...	1445	7.8	321	7.9	14.0	--	118	0	66	--	--	--
SEP												
10...	1430	2.7	430	7.3	17.0	--	150	0	80	0	<10	<10
400224081093300 - 041 SPENCER C NR HENDRYSBURG OH (LAT 40 02 24 LONG 081 09 33)												
APR , 1979												
27...	1045	11	690	7.8	12.5	--	180	0	220	--	--	--
SEP												
19...	1055	2.5	800	7.9	14.0	--	232	0	220	0	<10	20
400225080504100 - 041 L MCMAHON C NR NEFFS OH (LAT 40 02 25 LONG 080 50 41)												
APR , 1979												
25...	1630	11	940	8.1	23.5	--	172	0	340	--	--	--
SEP												
12...	1630	3.9	1300	7.6	23.0	--	192	0	450	0	<10	30
400233082153400 - 041 BRUSHY F NR NEWARK OH (LAT 40 02 33 LONG 082 15 34)												
APR , 1979												
26...	1200	13	221	7.3	16.5	--	54	0	27	--	--	--
SEP												
13...	1200	4.1	280	7.2	20.0	--	72	0	23	0	<10	<10
400329082171800 - 041 CLAYLICK C NR NEWARK OH (LAT 40 03 29 LONG 082 17 18)												
APR , 1979												
26...	1100	19	270	7.9	15.5	--	97	0	27	--	--	--
SEP												
13...	1045	8.4	360	7.7	19.0	--	140	0	25	0	<10	<10
400402080460200 - 041 WHEELING C NR LANSING OH (LAT 40 04 02 LONG 080 46 02)												
APR , 1979												
27...	1300	145	1650	8.0	13.5	--	256	0	780	--	--	--
SEP												
12...	1130	40	2150	8.1	18.5	--	244	0	980	0	<10	10

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

ANALYSES OF MISCELLANEOUS STATIONS

DATE	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN)
395908081273400 - 041 LEATHERWOOD C AT LORE CITY OH (LAT 39 59 08 LONG 081 27 34)												
APR , 1979												
23...	--	--	330	0	--	--	310	310	--	--	--	--
SEP												
10...	20	10	480	80	15000	20	130	100	1200	.00	0	60
395941081432900 - 041 N CROOKED C AT NEW CONCORD OH (LAT 39 59 41 LONG 081 43 29)												
APR , 1979												
23...	--	--	430	40	--	--	130	110	--	--	--	--
SEP												
10...	20	20	330	80	45000	30	60	50	1100	.00	0	60
400013080533000 - 041 WILLIAMS C AT GLENCO OH (LAT 40 00 13 LONG 080 53 30)												
APR , 1979												
25...	--	--	110	10	--	--	10	0	--	--	--	--
SEP												
12...	30	20	160	20	47000	40	10	10	1200	.00	0	90
400037081392700 - 041 PETERS C NR NEW CONCORD OH (LAT 40 00 37 LONG 081 39 27)												
APR , 1979												
23...	--	--	370	80	--	--	120	120	--	--	--	--
SEP												
10...	<10	<10	600	70	23000	<10	150	150	710	.00	0	30
400224081093300 - 041 SPENCER C NR HENDRYSBURG OH (LAT 40 02 24 LONG 081 09 33)												
APR , 1979												
27...	--	--	560	20	--	--	180	170	--	--	--	--
SEP												
19...	20	30	200	30	23000	40	130	120	1100	.00	0	120
400225080504100 - 041 L MCMAHON C NR NEFFS OH (LAT 40 02 25 LONG 080 50 41)												
APR , 1979												
25...	--	--	2600	40	--	--	170	150	--	--	--	--
SEP												
12...	30	30	4700	20	37000	80	270	210	1100	.00	0	100
400233082153400 - 041 BRUSHY F NR NEWARK OH (LAT 40 02 33 LONG 082 15 34)												
APR , 1979												
26...	--	--	700	40	--	--	80	70	--	--	--	--
SEP												
13...	<10	10	630	190	14000	20	100	80	240	.00	0	30
400329082171800 - 041 CLAYLICK C NR NEWARK OH (LAT 40 03 29 LONG 082 17 18)												
APR , 1979												
26...	--	--	230	100	--	--	20	10	--	--	--	--
SEP												
13...	<10	<10	180	70	16000	<10	10	10	260	.00	0	30
400402080460200 - 041 WHEELING C NR LANSING OH (LAT 40 04 02 LONG 080 46 02)												
APR , 1979												
27...	--	--	6500	40	--	--	370	310	--	--	--	--
SEP												
12...	30	30	1600	70	36000	80	150	150	690	.00	0	110

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

--TABLE OF BENTHIC INVERTEBRATES--

	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER
	395908081273400	395941081432900	400013080533000	400037081392700	400224081093300
	79/09/12	79/09/10	79/09/12	79/09/10	79/09/19
BENTHIC INVERTEBRATES	-STATUS-	-STATUS-	-STATUS-	-STATUS-	-STATUS-
AQUATIC EARTHWORMS	--	--	--	--	--
BEETLES ADULT	--	--	PRESENT	--	COMMON
BEETLES LARVAE	--	--	PRESENT	--	COMMON
BLACK FLIES	PRESENT	COMMON	COMMON	--	--
CADDISFLIES CASES	--	--	PRESENT	--	--
CADDISFLIES FREE-LIVING	COMMON	--	--	PRESENT	--
CLAM	--	--	--	--	--
CRAYFISH	--	PRESENT	COMMON	--	PRESENT
CYCLOPS	--	--	--	--	--
DAMSELFLIES	--	--	--	--	--
DRAGONFLIES	--	--	--	--	COMMON
FISH	--	COMMON	COMMON	--	COMMON
FLAT WORMS	--	--	--	--	--
FROGS	--	--	--	--	--
HELLGRAMMITES	--	--	--	--	--
HORSE HAIR WORMS	--	--	--	--	--
ISOPOD	--	--	--	--	--
LEECHES	--	--	--	PRESENT	--
MAYFLIES	PRESENT	COMMON	COMMON	COMMON	COMMON
MIDGES	COMMON	COMMON	COMMON	PRESENT	--
SALAMANDERS	--	--	--	--	--
SCUDS	--	--	--	--	--
SEED SHRIMP	--	--	--	--	--
SNAILS	--	--	--	--	--
STONEFLIES	--	PRESENT	--	PRESENT	PRESENT
WATER BOATMAN	--	--	--	--	--
WATER FLEA	--	--	--	--	--
WATER MITES	--	--	--	PRESENT	COMMON
WATER SNAKE	--	--	--	--	--
WATER STRIDERS	--	PRESENT	COMMON	PRESENT	COMMON

EXPLANATION

-- - 0 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
PRESENT - 20 OR LESS OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
COMMON - MORE THAN 20 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

--TABLE OF BENTHIC INVERTEBRATES--

	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER
	400225080504100	400233082153400	400329082171800	400402080460200
	79/09/12	79/09/13	79/09/13	79/09/13
BENTHIC INVERTEBRATES	-STATUS-	-STATUS-	-STATUS-	-STATUS-
AQUATIC EARTHWORMS	--	--	--	--
BEETLES ADULT	--	--	PRESENT	--
BEETLES LARVAE	--	--	--	--
BLACK FLIES	COMMON	COMMON	COMMON	--
CADDISFLIES CASES	PRESENT	--	--	--
CADDISFLIES FREE-LIVING	--	--	--	PRESENT
CLAM	--	--	--	--
CRAYFISH	--	PRESENT	COMMON	--
CYCLOPS	--	--	--	--
DAMSELFLIES	--	--	--	--
DRAGONFLIES	--	--	--	--
FISH	--	--	COMMON	--
FLAT WORMS	--	--	--	--
FROGS	--	--	--	--
HELLGRAMMITES	--	--	--	--
HORSE HAIR WORMS	--	--	--	PRESENT
ISOPOD	--	--	--	--
LEECHES	--	--	--	--
MAYFLIES	COMMON	PRESENT	PRESENT	--
MIDGES	--	PRESENT	PRESENT	COMMON
SALAMANDERS	--	--	--	--
SCUDS	--	--	--	--
SEED SHRIMP	--	--	--	--
SNAILS	--	--	--	--
STONEFLIES	--	COMMON	COMMON	--
WATER BOATMAN	--	--	--	--
WATER FLEA	--	--	--	--
WATER MITES	--	COMMON	--	--
WATER SNAKE	PRESENT	--	--	--
WATER STRIDERS	--	--	--	--

EXPLANATION

-- - 0 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
PRESENT - 20 OR LESS OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
COMMON - MORE THAN 20 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

ANALYSES OF MISCELLANEOUS STATIONS

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	ACIDITY TOTAL HEATED (MG/L AS H)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)
400429082034500 - 041 BIG RN NR DRESDEN OH (LAT 40 04 29 LONG 082 03 45)												
APR , 1979												
25...	1000	6.0	578	8.0	15.5	--	112	0	48	--	--	--
SEP												
12...	0945	2.4	355	7.1	17.0	--	140	0	44	0	<10	10
400520081411700 - 041 INDIAN CAMP RN NR NEW CONCORD OH (LAT 40 05 20 LONG 081 41 17)												
APR , 1979												
23...	1720	5.8	228	7.5	15.0	--	79	0	39	--	--	--
SEP												
10...	1800	2.2	310	7.0	18.0	--	110	0	33	2	<10	10
400601081573600 - 041 N B SYMMES C NR ADAMSVILLE OH (LAT 40 06 01 LONG 081 57 36)												
APR , 1979												
24...	1705	10	234	7.4	18.0	--	39	0	72	--	--	--
SEP												
11...	1800	4.9	395	7.1	20.0	--	54	0	98	0	<10	<10
400710080430900 - 041 GLENNS RN NR MARTINS FERRY OH (LAT 40 07 10 LONG 080 43 09)												
APR , 1979												
27...	1050	12	1300	7.3	13.0	--	180	0	500	--	--	--
SEP												
12...	0945	3.6	2800	6.8	17.0	.8	76	0	1300	0	<10	<10
400748081191700 - 041 LOST RN NR NEWARK OH (LAT 40 07 48 LONG 081 19 17)												
APR , 1979												
26...	0940	22	267	7.6	14.5	--	126	0	21	--	--	--
SEP												
13...	1415	12	360	7.8	19.0	--	170	0	16	0	<10	<10
400817082120400 - 041 BRUSHY F WAKATOMIKA C NR FRAZEYSBURG OH (LAT 40 08 17 LONG 082 12 04)												
APR , 1979												
25...	1820	14	355	7.6	19.0	--	49	0	18	--	--	--
SEP												
12...	1445	6.3	540	7.4	20.0	--	70	0	16	0	<10	10
400932081265100 - 041 CLEAR F NR BIRMINGHAM OH (LAT 40 09 32 LONG 081 26 51)												
APR , 1979												
24...	0950	8.0	267	7.6	13.5	--	84	0	34	--	--	--
SEP												
11...	0800	3.7	285	6.8	15.5	.4	100	0	30	0	<10	<10
400945082094600 - 041 NICKEL VALLEY RN NR FRAZEYSBURG OH (LAT 40 09 45 LONG 082 09 46)												
APR , 1979												
25...	1615	3.3	209	7.5	20.5	--	58	0	27	--	--	--
SEP												
12...	1615	1.3	245	7.0	21.5	--	73	0	20	0	<10	<10
401005082001700 - 041 MILL F WAKATOMIKA C NR TRINWAY OH (LAT 40 10 05 LONG 082 00 17)												
APR , 1979												
25...	1220	27	1410	7.2	19.0	--	39	0	860	--	--	--
SEP												
12...	1115	12	1580	7.1	17.0	--	58	0	870	0	<10	<10

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

ANALYSES OF MISCELLANEOUS STATIONS

DATE	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN)
400429082034500 - 041 BIG RN NR DRESDEN OH (LAT 40 04 29 LONG 082 03 45)												
APR , 1979												
25...	--	--	340	50	--	--	110	110	--	--	--	--
SEP												
12...	10	10	800	100	33000	20	120	110	860	.00	0	50
400520081411700 - 041 INDIAN CAMP RN NR NEW CONCORD OH (LAT 40 05 20 LONG 081 41 17)												
APR , 1979												
23...	--	--	580	180	--	--	180	180	--	--	--	--
SEP												
10...	<10	10	950	310	22000	20	200	190	680	.00	0	40
400601081573600 - 041 N B SYMMES C NR ADAMSVILLE OH (LAT 40 06 01 LONG 081 57 36)												
APR , 1979												
24...	--	--	730	0	--	--	430	430	--	--	--	--
SEP												
11...	10	<10	810	30	24000	10	580	540	920	.00	0	40
400710080430900 - 041 GLENNS RN NR MARTINS FERRY OH (LAT 40 07 10 LONG 080 43 09)												
APR , 1979												
27...	--	--	28000	1100	--	--	320	280	--	--	--	--
SEP												
12...	30	20	51000	3600	24000	20	930	870	590	.00	0	100
400748081191700 - 041 LOST RN NR NEWARK OH (LAT 40 07 48 LONG 081 19 17)												
APR , 1979												
26...	--	--	370	50	--	--	40	30	--	--	--	--
SEP												
13...	<10	<10	350	70	11000	<10	30	30	440	.00	0	30
400817082120400 - 041 BRUSHY F WAKATOMIKA C NR FRAZEYSBURG OH (LAT 40 08 17 LONG 082 12 04)												
APR , 1979												
25...	--	--	840	140	--	--	150	150	--	--	--	--
SEP												
12...	20	10	750	120	17000	20	150	150	530	.00	0	40
400932081265100 - 041 CLEAR F NR BIRMINGHAM OH (LAT 40 09 32 LONG 081 26 51)												
APR , 1979												
24...	--	--	760	60	--	--	110	110	--	--	--	--
SEP												
11...	<10	<10	740	110	8800	<10	120	90	220	.00	0	10
400945082094600 - 041 NICKEL VALLEY RN NR FRAZEYSBURG OH (LAT 40 09 45 LONG 082 09 46)												
APR , 1979												
25...	--	--	540	90	--	--	100	100	--	--	--	--
SEP												
12...	<10	<10	680	190	18000	<10	130	130	320	.00	0	30
401005082001700 - 041 MILL F WAKATOMIKA C NR TRINWAY OH (LAT 40 10 05 LONG 082 00 17)												
APR , 1979												
25...	--	--	2200	90	--	--	5900	5700	--	--	--	--
SEP												
12...	20	10	730	100	36000	<10	6900	6800	930	.00	0	60

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

--TABLE OF BENTHIC INVERTEBRATES--

	SITE ID NUMBER 400429082034500 79/09/12	SITE ID NUMBER 400520081411700 79/09/10	SITE ID NUMBER 400601081573600 79/09/11	SITE ID NUMBER 400710080430900 79/09/12	SITE ID NUMBER 400748081191700 79/09/13
BENTHIC INVERTEBRATES	-STATUS-	-STATUS-	-STATUS-	-STATUS-	-STATUS-
AQUATIC EARTHWORMS	--	--	--	--	--
BEETLES ADULT	--	--	--	--	--
BEETLES LARVAE	--	--	PRESENT	--	--
BLACK FLIES	PRESENT	--	COMMON	--	PRESENT
CADDISFLIES CASES	--	--	--	--	--
CADDISFLIES FREE-LIVING	--	COMMON	PRESENT	--	PRESENT
CLAM	COMMON	--	--	--	--
CRAYFISH	--	PRESENT	--	PRESENT	--
CYCLOPS	PRESENT	--	--	--	--
DAMSELFLIES	--	--	--	--	--
DRAGONFLIES	--	PRESENT	--	--	PRESENT
FISH	--	PRESENT	PRESENT	--	COMMON
FLAT WORMS	--	--	--	--	--
FROGS	--	--	PRESENT	--	--
HELLGRAMMITES	--	--	--	--	--
HORSE HAIR WORMS	--	--	--	--	--
ISOPOD	--	--	--	--	--
LEECHES	--	--	--	--	--
MAYFLIES	--	COMMON	PRESENT	--	PRESENT
MIDGES	--	COMMON	COMMON	PRESENT	PRESENT
SALAMANDERS	--	--	--	--	--
SCUDS	--	--	--	--	--
SEED SHRIMP	--	--	--	--	--
SNAILS	--	--	--	--	--
STONEFLIES	--	COMMON	PRESENT	--	PRESENT
WATER BOATMAN	--	--	--	--	--
WATER FLEA	--	--	--	--	--
WATER MITES	--	--	--	--	--
WATER SNAKE	--	--	--	--	--
WATER STRIDERS	PRESENT	PRESENT	PRESENT	COMMON	--

EXPLANATION

-- - 0 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
PRESENT - 20 OR LESS OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
COMMON - MORE THAN 20 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

--TABLE OF BENTHIC INVERTEBRATES--

	SITE ID NUMBER 400817082120400 79/09/12	SITE ID NUMBER 400932081265100 79/09/11	SITE ID NUMBER 400945082094600 79/09/12	SITE ID NUMBER 401005082001700 79/09/11
BENTHIC INVERTEBRATES	-STATUS-	-STATUS-	-STATUS-	-STATUS-
AQUATIC EARTHWORMS	--	--	--	--
BEETLES ADULT	--	--	PRESENT	--
BEETLES LARVAE	--	--	--	--
BLACK FLIES	--	--	PRESENT	PRESENT
CADDISFLIES CASES	--	--	--	--
CADDISFLIES FREE-LIVING	--	--	--	PRESENT
CLAM	--	--	--	--
CRAYFISH	--	--	--	--
CYCLOPS	PRESENT	--	PRESENT	--
DAMSELFLIES	--	--	--	--
DRAGONFLIES	--	--	--	--
FISH	COMMON	--	COMMON	--
FLAT WORMS	--	--	--	--
FROGS	--	--	--	--
HELLGRAMMITES	--	--	--	--
HORSE HAIR WORMS	--	--	--	--
ISOPOD	--	--	--	--
LEECHES	--	--	--	--
MAYFLIES	--	--	--	PRESENT
MIDGES	COMMON	--	COMMON	COMMON
SALAMANDERS	--	--	--	--
SCUDS	--	--	--	--
SEED SHRIMP	--	--	--	--
SNAILS	--	--	PRESENT	--
STONEFLIES	PRESENT	PRESENT	COMMON	--
WATER BOATMAN	--	--	--	--
WATER FLEA	--	--	--	--
WATER MITES	PRESENT	--	--	--
WATER SNAKE	--	--	--	--
WATER STRIDERS	PRESENT	--	--	--

EXPLANATION

-- - 0 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
PRESENT - 20 OR LESS OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
COMMON - MORE THAN 20 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

ANALYSES OF MISCELLANEOUS STATIONS

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	ACIDITY TOTAL HEATED (MG/L AS H)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)
401028081294100 - 041 ROCKY F NR BIRMINGHAM OH (LAT 40 10 28 LONG 081 29 41)												
APR , 1979												
24...	1100	9.4	204	7.5	15.0	--	72	0	32	--	--	--
SEP												
11...	1030	2.0	270	6.6	16.0	.3	110	0	23	0	<10	<10
401100082015200 - 041 SAND F WAKATOMIKA C NR TRINWAY OH (LAT 40 11 00 LONG 082 01 52)												
APR , 1979												
25...	1400	8.1	488	7.9	20.0	--	109	0	160	--	--	--
SEP												
12...	1230	3.0	590	7.6	17.5	--	140	0	180	0	<10	<10
401104080423000 - 041 L SHORT C NR TILTONSVILLE OH (LAT 40 11 04 LONG 080 42 30)												
APR , 1979												
27...	1000	20	1050	7.5	13.0	--	200	0	420	--	--	--
SEP												
10...	1630	3.4	1650	7.9	20.0	--	196	0	670	0	<10	20
401106081500500 - 041 NO NAME TR WILLS C NR CONESVILLE OH (LAT 40 11 06 LONG 081 50 05)												
APR , 1979												
24...	1530	5.6	900	7.3	18.0	--	53	0	470	--	--	--
SEP												
11...	1600	2.9	955	7.3	20.5	--	70	0	460	0	<10	<10
401211080462100 - 041 PINEY F AT DILLONVALE OH (LAT 40 12 11 LONG 080 46 21)												
APR , 1979												
23...	1545	26	1400	8.1	17.5	--	248	0	690	--	--	--
SEP												
10...	1420	7.0	1560	8.2	20.0	--	116	0	690	0	<10	10
401227080551201 - 041 S F SHORT C AT GEORGETOWN OH (LAT 40 12 27 LONG 080 55 12.01)												
APR , 1979												
23...	1100	24	3500	8.0	14.5	--	448	0	2100	--	--	--
SEP												
10...	0930	14	3700	8.0	15.0	--	440	0	1800	--	<10	--
401247080532800 - 041 M F SHORT C NR ADENA OH (LAT 40 12 47 LONG 080 53 28)												
APR , 1979												
23...	1215	24	2010	8.5	16.0	--	204	14	946	--	--	--
SEP												
10...	1045	7.0	2130	8.5	15.5	--	196	16	1000	0	<10	10
401247081172700 - 041 CRABORCHARD C NR FREEPORT OH (LAT 40 12 47 LONG 081 17 27)												
APR , 1979												
27...	1100	41	210	7.2	12.0	--	76	0	32	--	--	--
SEP												
24...	1130	7.4	270	7.4	12.5	--	100	0	32	0	<10	20
401313080401800 - 041 RUSH RN NR TILTONSVILLE OH (LAT 40 13 13 LONG 080 40 18)												
APR , 1979												
27...	0845	17	1250	8.0	12.5	--	242	0	580	--	--	--
SEP												
12...	0830	3.4	1550	8.0	16.5	--	220	0	710	0	<10	20

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

ANALYSES OF MISCELLANEOUS STATIONS

DATE	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN)
401028081294100 - 041 ROCKY F NR BIRMINGHAM OH (LAT 40 10 28 LONG 081 29 41)												
APR , 1979												
24...	--	--	850	130	--	--	190	180	--	--	--	--
SEP												
11...	<10	<10	1400	240	29000	<10	330	310	540	.00	0	30
401100082015200 - 041 SAND F WAKATOMIKA C NR TRINWAY OH (LAT 40 11 00 LONG 082 01 52)												
APR , 1979												
25...	--	--	480	10	--	--	280	280	--	--	--	--
SEP												
12...	<10	<10	570	100	19000	<10	400	400	880	.00	0	40
401104080423000 - 041 L SHORT C NR TILTONSVILLE OH (LAT 40 11 04 LONG 080 42 30)												
APR , 1979												
27...	--	--	12000	20	--	--	250	210	--	--	--	--
SEP												
10...	30	30	7300	20	42000	10	400	330	1100	.00	0	100
401106081500500 - 041 NO NAME TR WILLS C NR CONESVILLE OH (LAT 40 11 06 LONG 081 50 05)												
APR , 1979												
24...	--	--	1500	130	--	--	1400	1300	--	--	--	--
SEP												
11...	10	<10	930	240	21000	10	1400	1300	360	.00	0	50
401211080462100 - 041 PINEY F AT DILLONVALE OH (LAT 40 12 11 LONG 080 46 21)												
APR , 1979												
23...	--	--	5400	30	--	--	310	280	--	--	--	--
SEP												
10...	30	30	340	20	39000	30	180	160	1200	.00	0	90
401227080551201 - 041 S F SHORT C AT GEORGETOWN OH (LAT 40 12 27 LONG 080 55 12.01)												
APR , 1979												
23...	--	--	500	40	--	--	290	270	--	--	--	--
SEP												
10...	--	--	390	40	55000	--	320	310	--	--	--	--
401247080532800 - 041 M F SHORT C NR ADENA OH (LAT 40 12 47 LONG 080 53 28)												
APR , 1979												
23...	--	--	220	30	--	--	160	150	--	--	--	--
SEP												
10...	30	20	130	50	29000	30	40	30	1400	.00	0	90
401247081172700 - 041 CRABORCHARD C NR FREEPORT OH (LAT 40 12 47 LONG 081 17 27)												
APR , 1979												
27...	--	--	2100	30	--	--	140	90	--	--	--	--
SEP												
24...	<10	10	650	70	2000	20	130	90	1100	.00	0	60
401313080401800 - 041 RUSH RN NR TILTONSVILLE OH (LAT 40 13 13 LONG 080 40 18)												
APR , 1979												
27...	--	--	4500	150	--	--	290	270	--	--	--	--
SEP												
12...	30	30	1600	100	41000	30	200	120	1500	.00	0	140

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

--TABLE OF BENTHIC INVERTEBRATES--

	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER
	401028081294100	401100082015200	401104080423000	401106081500500	401211080462100
	79/09/11	79/09/12	79/09/13	79/09/11	79/09/10
BENTHIC INVERTEBRATES	-STATUS-	-STATUS-	-STATUS-	-STATUS-	-STATUS-
AQUATIC EARTHWORMS	--	--	--	--	--
BEETLES ADULT	--	PRESENT	PRESENT	--	--
BEETLES LARVAE	--	--	--	--	--
BLACK FLIES	COMMON	PRESENT	--	--	--
CADDISFLIES CASES	--	--	--	--	--
CADDISFLIES FREE-LIVING	PRESENT	--	PRESENT	--	--
CLAM	--	--	--	--	--
CRAYFISH	--	PRESENT	--	--	PRESENT
CYCLOPS	--	--	--	--	--
DAMSELFLIES	--	--	--	--	--
DRAGONFLIES	--	PRESENT	--	--	--
FISH	--	PRESENT	--	--	--
FLAT WORMS	--	--	--	--	--
FROGS	PRESENT	--	--	--	--
HELLGRAMMITES	--	--	--	--	--
HORSE HAIR WORMS	--	--	--	--	--
ISOPOD	--	--	--	--	--
LEECHES	--	--	--	--	--
MAYFLIES	PRESENT	--	--	--	--
MIDGES	--	COMMON	PRESENT	--	PRESENT
SALAMANDERS	--	--	--	--	--
SCUDS	--	--	--	--	--
SEED SHRIMP	--	--	--	--	--
SNAILS	--	--	--	--	--
STONEFLIES	COMMON	COMMON	--	--	--
WATER BOATMAN	--	--	--	--	--
WATER FLEA	--	--	--	--	--
WATER MITES	--	--	--	--	--
WATER SNAKE	--	--	--	--	--
WATER STRIDERS	--	--	--	--	--

EXPLANATION

-- - 0 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
PRESENT - 20 OR LESS OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
COMMON - MORE THAN 20 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

--TABLE OF BENTHIC INVERTEBRATES--

	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER
	401227080551201	401247080532800	401247081172700	401313080401800
	79/10/10	79/09/10	79/09/24	79/09/12
BENTHIC INVERTEBRATES	-STATUS-	-STATUS-	-STATUS-	-STATUS-
AQUATIC EARTHWORMS	--	--	--	--
BEETLES ADULT	--	--	--	--
BEETLES LARVAE	--	PRESENT	--	PRESENT
BLACK FLIES	--	PRESENT	PRESENT	--
CADDISFLIES CASES	--	PRESENT	PRESENT	--
CADDISFLIES FREE-LIVING	--	--	COMMON	--
CLAM	--	--	--	--
CRAYFISH	--	--	PRESENT	PRESENT
CYCLOPS	--	--	--	--
DAMSELFLIES	--	--	--	--
DRAGONFLIES	--	--	--	--
FISH	--	COMMON	--	COMMON
FLAT WORMS	--	--	--	--
FROGS	--	--	--	PRESENT
HELLGRAMMITES	--	--	--	--
HORSE HAIR WORMS	--	--	--	--
ISOPOD	--	--	--	--
LEECHES	--	--	--	--
MAYFLIES	--	--	COMMON	--
MIDGES	--	COMMON	PRESENT	COMMON
SALAMANDERS	--	--	--	--
SCUDS	--	--	--	COMMON
SEED SHRIMP	--	--	--	--
SNAILS	--	--	--	--
STONEFLIES	PRESENT	--	COMMON	--
WATER BOATMAN	--	--	--	COMMON
WATER FLEA	--	--	--	--
WATER MITES	--	--	--	--
WATER SNAKE	--	--	--	--
WATER STRIDERS	--	--	--	--

EXPLANATION

-- - 0 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
PRESENT - 20 OR LESS OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
COMMON - MORE THAN 20 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

ANALYSES OF MISCELLANEOUS STATIONS

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	ACIDITY TOTAL HEATED (MG/L AS H)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)
401314080522300 - 041 N F SHORT C AT ADENA OH (LAT 40 13 14 LONG 080 52 23)												
APR , 1979												
23...	1400	30	1700	8.1	17.0	--	210	0	900	--	--	--
SEP												
10...	1230	9.6	2100	8.2	16.0	--	204	0	970	0	<10	20
401314081191700 - 041 ATKINSON C NR FREEPORT OH (LAT 40 13 14 LONG 081 19 17)												
APR , 1979												
27...	1230	25	190	7.3	12.0	--	72	0	25	--	--	--
SEP												
24...	1345	5.3	250	7.3	13.0	--	100	0	23	0	<10	<10
401342081343200 - 041 POSTBOY C NR KIMBOLTON OH (LAT 40 13 42 LONG 081 34 32)												
APR , 1979												
24...	1215	4.3	222	7.8	17.0	--	50	0	46	--	--	--
SEP												
11...	1200	1.6	305	7.1	16.5	--	80	0	43	0	<10	<10
401357081435800 - 041 CENTER C NR PLAINFIELD OH (LAT 40 13 57 LONG 081 43 58)												
APR , 1979												
24...	1410	4.3	540	8.8	17.5	--	69	8	220	--	--	--
SEP												
11...	1430	1.5	710	7.2	17.0	--	120	0	170	0	<10	<10
401417082085000 - 041 WINDING F WAKATOMIKA C NR WALHONDING OH (LAT 40 14 17 LONG 082 08 50)												
APR , 1979												
26...	0815	14	320	7.3	15.0	--	63	0	27	--	--	--
SEP												
12...	1730	6.8	405	7.0	18.5	--	81	0	17	0	<10	10
401505081061800 - 041 BRUSHY F NR CADIZ OH (LAT 40 15 05 LONG 081 06 18)												
APR , 1979												
28...	1520	22	2150	8.1	12.0	--	246	0	1200	--	--	--
SEP												
25...	1600	16	2000	8.0	15.5	--	294	0	1000	0	<10	10
401645081215300 - 041 FALLEN TIMBER C NR TIPPECANOE OH (LAT 40 16 45 LONG 081 21 53)												
APR , 1979												
27...	1615	18	200	7.1	12.0	--	52	0	32	--	--	--
SEP												
24...	1700	3.6	250	7.4	15.0	--	91	0	32	0	<10	<10
401756081050800 - 041 STANDING STONE F NR CADIZ OH (LAT 40 17 56 LONG 081 05 08)												
APR , 1979												
28...	1400	10	2000	8.1	11.5	--	276	0	1100	--	--	--
SEP												
25...	1420	4.1	1900	7.9	16.0	--	289	0	980	0	<10	10
401803080410400 - 041 MC INTYRE C NR MINGO JUNCTION OH (LAT 40 18 03 LONG 080 41 04)												
APR , 1979												
26...	1630	37	2000	7.7	15.5	--	284	0	1100	--	--	--
SEP												
11...	1715	13	1900	8.2	20.5	--	196	0	990	0	<10	<10

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

ANALYSES OF MISCELLANEOUS STATIONS

DATE	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN)
401314080522300 - 041 N F SHORT C AT ADENA OH (LAT 40 13 14 LONG 080 52 23)												
APR , 1979												
23...	--	--	2100	30	--	--	310	270	--	--	--	--
SEP												
10...	30	70	110	50	61000	80	180	180	1900	.00	0	150
401314081191700 - 041 ATKINSON C NR FREEPORT OH (LAT 40 13 14 LONG 081 19 17)												
APR , 1979												
27...	--	--	2400	40	--	--	260	210	--	--	--	--
SEP												
24...	<10	<10	490	110	15000	<10	100	70	720	.00	0	30
401342081343200 - 041 POSTBOY C NR KIMBOLTON OH (LAT 40 13 42 LONG 081 34 32)												
APR , 1979												
24...	--	--	1000	130	--	--	210	190	--	--	--	--
SEP												
11...	10	<10	870	100	21000	10	250	240	720	.00	0	50
401357081435800 - 041 CENTER C NR PLAINFIELD OH (LAT 40 13 57 LONG 081 43 58)												
APR , 1979												
24...	--	--	450	0	--	--	240	240	--	--	--	--
SEP												
11...	<10	10	860	30	9700	<10	210	170	340	.00	0	20
401417082085000 - 041 WINDING F WAKATOMIKA C NR WALHONDING OH (LAT 40 14 17 LONG 082 08 50)												
APR , 1979												
26...	--	--	600	50	--	--	130	120	--	--	--	--
SEP												
12...	<10	<10	740	100	7900	<10	110	90	150	.00	0	20
401505081061800 - 041 BRUSHY F NR CADIZ OH (LAT 40 15 05 LONG 081 06 18)												
APR , 1979												
28...	--	--	150	10	--	--	120	110	--	--	--	--
SEP												
25...	30	10	320	40	38000	<10	100	40	1600	.00	0	60
401645081215300 - 041 FALLEN TIMBER C NR TIPPECANOE OH (LAT 40 16 45 LONG 081 21 53)												
APR , 1979												
27...	--	--	1000	30	--	--	90	80	--	--	--	--
SEP												
24...	10	<10	1100	50	20000	10	270	200	780	.00	0	40
401756081050800 - 041 STANDING STONE F NR CADIZ OH (LAT 40 17 56 LONG 081 05 08)												
APR , 1979												
28...	--	--	170	10	--	--	160	150	--	--	--	--
SEP												
25...	20	20	660	30	22000	20	230	160	840	.00	0	60
401803080410400 - 041 MC INTYRE C NR MINGO JUNCTION OH (LAT 40 18 03 LONG 080 41 04)												
APR , 1979												
26...	--	--	830	20	--	--	140	100	--	--	--	--
SEP												
11...	70	10	150	40	19000	30	30	10	2400	.00	0	80

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

--TABLE OF BENTHIC INVERTEBRATES--

	SITE ID NUMBER 401314080522300 79/09/10	SITE ID NUMBER 401314081191700 79/09/24	SITE ID NUMBER 401342081343200 79/09/11	SITE ID NUMBER 401357081435800 79/09/11	SITE ID NUMBER 401417082085000 79/09/12
BENTHIC INVERTEBRATES	-STATUS-	-STATUS-	-STATUS-	-STATUS-	-STATUS-
AQUATIC EARTHWORMS	--	--	PRESENT	--	--
BEETLES ADULT	--	--	--	--	PRESENT
BEETLES LARVAE	PRESENT	--	PRESENT	--	--
BLACK FLIES	--	PRESENT	COMMON	COMMON	PRESENT
CADDISFLIES CASES	--	--	--	--	--
CADDISFLIES FREE-LIVING	--	--	COMMON	PRESENT	PRESENT
CLAM	--	--	--	--	--
CRAYFISH	--	--	COMMON	PRESENT	--
CYCLOPS	--	--	--	--	--
DAMSELFLIES	--	--	--	--	--
DRAGONFLIES	--	PRESENT	PRESENT	--	PRESENT
FISH	COMMON	--	PRESENT	--	--
FLAT WORMS	--	--	--	--	--
FROGS	PRESENT	--	PRESENT	COMMON	--
HELLGRAMMITES	--	--	--	--	--
HORSE HAIR WORMS	--	--	--	--	--
ISOPOD	--	--	--	--	--
LEECHES	--	--	--	--	--
MAYFLIES	--	COMMON	COMMON	PRESENT	--
MIDGES	PRESENT	PRESENT	PRESENT	COMMON	PRESENT
SALAMANDERS	--	--	--	--	--
SCUDS	--	--	--	--	--
SEED SHRIMP	--	--	--	--	--
SNAILS	--	--	--	--	--
STONEFLIES	--	PRESENT	COMMON	PRESENT	PRESENT
WATER BOATMAN	--	--	--	--	--
WATER FLEA	--	--	--	--	--
WATER MITES	--	--	--	--	--
WATER SNAKE	--	--	--	--	--
WATER STRIDERS	--	--	PRESENT	PRESENT	--

EXPLANATION

-- - 0 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
PRESENT - 20 OR LESS OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
COMMON - MORE THAN 20 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

--TABLE OF BENTHIC INVERTEBRATES--

	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER
	401505081061800	401645081215300	401756081050800	401803080410400
	79/09/25	79/09/24	79/09/25	79/09/11
BENTHIC INVERTEBRATES	-STATUS-	-STATUS-	-STATUS-	-STATUS-
AQUATIC EARTHWORMS	--	--	--	--
BEETLES ADULT	--	PRESENT	--	--
BEETLES LARVAE	PRESENT	--	PRESENT	PRESENT
BLACK FLIES	--	PRESENT	PRESENT	--
CADDISFLIES CASES	PRESENT	--	--	--
CADDISFLIES FREE-LIVING	PRESENT	--	--	--
CLAM	PRESENT	--	--	--
CRAYFISH	PRESENT	PRESENT	PRESENT	--
CYCLOPS	--	--	--	--
DAMSELFLIES	PRESENT	PRESENT	--	--
DRAGONFLIES	PRESENT	PRESENT	--	--
FISH	--	--	--	COMMON
FLAT WORMS	--	--	--	--
FROGS	--	--	--	PRESENT
HELLGRAMMITES	--	--	PRESENT	--
HORSE HAIR WORMS	--	--	--	--
ISOPOD	--	--	--	--
LEECHES	--	--	--	--
MAYFLIES	PRESENT	COMMON	--	--
MIDGES	PRESENT	PRESENT	COMMON	--
SALAMANDERS	--	--	--	--
SCUDS	--	--	--	--
SEED SHRIMP	--	--	--	--
SNAILS	--	--	--	--
STONEFLIES	--	PRESENT	--	--
WATER BOATMAN	--	--	--	--
WATER FLEA	--	--	--	--
WATER MITES	--	--	--	--
WATER SNAKE	--	--	--	--
WATER STRIDERS	--	--	--	COMMON

EXPLANATION

-- - 0 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
PRESENT - 20 OR LESS OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
COMMON - MORE THAN 20 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

ANALYSES OF MISCELLANEOUS STATIONS

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	ACIDITY TOTAL HEATED (MG/L AS H)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)
401805081394500 - 041 EVANS C NR W LAFAYETTE OH (LAT 40 18 05 LONG 081 39 45)												
APR , 1979												
24...	1420	25	300	7.3	18.0	--	61	0	63	--	--	--
SEP												
11...	1450	9.3	310	7.2	20.0	--	92	0	47	0	<10	<10
401812081362400 - 041 LICK RN AT NEWCOMERSTOWN OH (LAT 40 18 12 LONG 081 36 24)												
APR , 1979												
24...	1530	1.7	430	4.1	19.0	.6	0	0	190	--	--	--
SEP												
11...	1615	.77	470	3.9	19.5	.7	0	0	200	0	<10	<10
401829081192601 - 041 CROOKED C NR TIPPECANOE OH (LAT 40 18 29 LONG 081 19 26.01)												
APR , 1979												
27...	1440	123	210	7.1	12.5	--	62	0	31	--	--	--
SEP												
24...	1540	25	250	7.3	15.0	--	88	0	29	0	<10	10
401940081441400 - 041 E F WHITE EYES C NR FRESNO OH (LAT 40 19 40 LONG 081 44 14)												
APR , 1979												
24...	1115	15	310	7.6	14.5	--	70	0	77	--	--	--
SEP												
11...	1050	5.5	370	7.4	17.5	--	102	0	72	0	<10	<10
401953081163100 - 041 SKULL F NR FREEPORT OH (LAT 40 19 53 LONG 081 16 31)												
APR , 1979												
27...	1000	46	720	7.0	14.0	--	70	0	320	--	--	--
SEP												
24...	0945	50	520	7.4	13.5	--	52	0	210	0	<10	20
402011081450500 - 041 W F WHITE EYES C NR FRESNO OH (LAT 40 20 11 LONG 081 45 05)												
APR , 1979												
24...	1200	23	290	7.5	15.0	--	70	0	73	--	--	--
SEP												
11...	1245	8.0	350	7.3	18.0	--	114	0	65	--	<10	--
402012081051200 - 041 CLEAR F NR JEWETT OH (LAT 40 20 12 LONG 081 05 12)												
APR , 1979												
28...	1315	27	1200	8.0	10.0	--	162	0	610	--	--	--
SEP												
25...	1320	9.6	1100	7.6	14.5	--	178	0	450	0	<10	10
402214080474600 - 041 SALEM C NR BLOOMINGDALE OH (LAT 40 22 14 LONG 080 47 46)												
APR , 1979												
26...	1100	12	580	8.1	16.0	--	134	0	180	--	--	--
SEP												
11...	1200	3.4	605	8.2	17.0	--	140	0	170	0	<10	10
402245080532300 - 041 N B CROSS C NR HOPEDALE OH (LAT 40 22 45 LONG 080 53 23)												
APR , 1979												
26...	0900	7.8	1450	8.0	15.0	--	160	0	730	--	--	--
SEP												
11...	0830	2.1	1700	8.0	15.5	--	240	0	760	0	<10	10

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

ANALYSES OF MISCELLANEOUS STATIONS

DATE	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN)
401805081394500 - 041 EVANS C NR W LAFAYETTE OH (LAT 40 18 05 LONG 081 39 45)												
APR , 1979												
24...	--	--	1600	130	--	--	630	600	--	--	--	--
SEP												
11...	<10	<10	2200	70	11000	<10	550	520	290	.00	0	20
401812081362400 - 041 LICK RN AT NEWCOMERSTOWN OH (LAT 40 18 12 LONG 081 36 24)												
APR , 1979												
24...	--	--	2200	980	--	--	4500	4300	--	--	--	--
SEP												
11...	20	10	700	350	33000	20	5600	5600	490	.00	0	40
401829081192601 - 041 CROOKED C NR TIPPECANOE OH (LAT 40 18 29 LONG 081 19 26.01)												
APR , 1979												
27...	--	--	3000	10	--	--	160	90	--	--	--	--
SEP												
24...	10	<10	1000	190	11000	10	160	110	360	.00	0	34
401940081441400 - 041 E F WHITE EYES C NR FRESNO OH (LAT 40 19 40 LONG 081 44 14)												
APR , 1979												
24...	--	--	1600	50	--	--	380	360	--	--	--	--
SEP												
11...	<10	<10	920	70	8300	10	210	210	290	.00	0	20
401953081163100 - 041 SKULL F NR FREEPORT OH (LAT 40 19 53 LONG 081 16 31)												
APR , 1979												
27...	--	--	1000	60	--	--	3800	3400	--	--	--	--
SEP												
24...	50	20	240	30	28000	70	100	50	2800	.00	0	110
402011081450500 - 041 W F WHITE EYES C NR FRESNO OH (LAT 40 20 11 LONG 081 45 05)												
APR , 1979												
24...	--	--	590	100	--	--	310	310	--	--	--	--
SEP												
11...	--	--	1600	10	--	--	2800	2800	--	--	--	--
402012081051200 - 041 CLEAR F NR JEWETT OH (LAT 40 20 12 LONG 081 05 12)												
APR , 1979												
28...	--	--	310	30	--	--	130	110	--	--	--	--
SEP												
25...	<10	<10	490	90	12000	<10	150	110	530	.00	0	30
402214080474600 - 041 SALEM C NR BLOOMINGDALE OH (LAT 40 22 14 LONG 080 47 46)												
APR , 1979												
26...	--	--	220	30	--	--	50	30	--	--	--	--
SEP												
11...	20	10	130	40	27000	20	20	10	1800	.00	0	60
402245080532300 - 041 N B CROSS C NR HOPEDALE OH (LAT 40 22 45 LONG 080 53 23)												
APR , 1979												
26...	--	--	320	100	--	--	200	190	--	--	--	--
SEP												
11...	10	<10	450	30	22000	30	300	270	1100	.00	0	40

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

--TABLE OF BENTHIC INVERTEBRATES--

	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER
	401805081394500	401812081362400	401829081192601	401940081441400	401953081163100
	79/09/11	79/10/11	79/09/24	79/09/11	79/09/24
BENTHIC INVERTEBRATES	-STATUS-	-STATUS-	-STATUS-	-STATUS-	-STATUS-
AQUATIC EARTHWORMS	--	--	--	--	--
BEETLES ADULT	--	PRESENT	--	--	PRESENT
BEETLES LARVAE	--	--	--	--	PRESENT
BLACK FLIES	--	--	--	--	PRESENT
CADDISFLIES CASES	PRESENT	--	--	--	PRESENT
CADDISFLIES FREE-LIVING	PRESENT	PRESENT	--	--	COMMON
CLAM	--	--	PRESENT	--	--
CRAYFISH	--	--	--	--	--
CYCLOPS	--	--	--	--	--
DAMSELFLIES	PRESENT	--	--	PRESENT	--
DRAGONFLIES	PRESENT	--	PRESENT	PRESENT	--
FISH	--	--	--	--	--
FLAT WORMS	--	--	--	--	--
FROGS	--	--	--	--	--
HELLGRAMMITES	--	--	--	--	--
HORSE HAIR WORMS	--	--	--	--	--
ISOPOD	--	--	--	--	--
LEECHES	--	--	--	--	--
MAYFLIES	COMMON	--	PRESENT	PRESENT	PRESENT
MIDGES	--	--	PRESENT	PRESENT	PRESENT
SALAMANDERS	--	--	--	--	--
SCUDS	--	--	--	--	--
SEED SHRIMP	--	--	--	--	--
SNAILS	--	--	--	--	--
STONEFLIES	PRESENT	--	--	PRESENT	--
WATER BOATMAN	--	--	--	--	--
WATER FLEA	--	--	--	--	--
WATER MITES	--	--	--	--	--
WATER SNAKE	--	--	--	--	--
WATER STRIDERS	--	--	--	--	COMMON

EXPLANATION

-- - 0 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
PRESENT - 20 OR LESS OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
COMMON - MORE THAN 20 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

--TABLE OF BENTHIC INVERTEBRATES--

	SITE ID NUMBER 402011081450500 79/09/11	SITE ID NUMBER 402012081051200 79/10/10	SITE ID NUMBER 402214080474600 79/09/11	SITE ID NUMBER 402245080532300 79/09/11
BENTHIC INVERTEBRATES	-STATUS-	-STATUS-	-STATUS-	-STATUS-
AQUATIC EARTHWORMS	--	--	--	PRESENT
BEETLES ADULT	PRESENT	PRESENT	--	--
BEETLES LARVAE	--	--	PRESENT	PRESENT
BLACK FLIES	--	PRESENT	--	PRESENT
CADDISFLIES CASES	PRESENT	--	--	--
CADDISFLIES FREE-LIVING	--	COMMON	--	--
CLAM	--	--	--	--
CRAYFISH	COMMON	--	PRESENT	PRESENT
CYCLOPS	--	--	--	--
DAMSELFLIES	--	--	--	--
DRAGONFLIES	PRESENT	--	--	--
FISH	--	--	PRESENT	--
FLAT WORMS	--	--	--	--
FROGS	--	--	--	--
HELLGRAMMITES	--	--	PRESENT	--
HORSE HAIR WORMS	--	--	--	--
ISOPOD	--	--	--	--
LEECHES	--	--	--	--
MAYFLIES	COMMON	--	COMMON	--
MIDGES	PRESENT	PRESENT	COMMON	COMMON
SALAMANDERS	--	--	--	--
SCUDS	--	--	--	--
SEED SHRIMP	--	--	--	--
SNAILS	--	--	--	--
STONEFLIES	PRESENT	PRESENT	--	PRESENT
WATER BOATMAN	--	--	--	--
WATER FLEA	--	--	--	--
WATER MITES	--	--	--	--
WATER SNAKE	--	--	--	--
WATER STRIDERS	COMMON	--	--	--

EXPLANATION

-- - 0 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
PRESENT - 20 OR LESS OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
COMMON - MORE THAN 20 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

ANALYSES OF MISCELLANEOUS STATIONS

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	ACIDITY TOTAL HEATED (MG/L AS H)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)
402258080455800 - 041 CEDAR LICK C NR RICHMOND OH (LAT 40 22 58 LONG 080 45 58)												
APR , 1979												
26...	1235	6.0	745	8.2	15.5	--	152	0	230	--	--	--
SEP												
11...	1045	1.8	850	8.4	16.0	--	184	4	250	0	<10	10
402309080401000 - 041 WILLS C AT STEUBENVILLE OH (LAT 40 23 09 LONG 080 40 10)												
APR , 1979												
26...	1515	6.2	960	8.0	15.0	--	188	0	340	--	--	--
SEP												
11...	1540	2.3	1250	8.3	18.0	--	196	4	450	0	<10	20
402415081025500 - 041 IRISH C NR SCIO OH (LAT 40 24 15 LONG 081 02 55)												
APR , 1979												
28...	1100	18	230	7.3	8.5	--	58	0	49	--	--	--
SEP												
25...	1100	7.2	280	7.1	12.5	--	83	0	45	0	<10	<10
402431081234300 - 041 MUD RN AT TUSCARAWAS OH (LAT 40 24 31 LONG 081 23 43)												
APR , 1979												
26...	1300	13	1750	3.6	15.0	6.5	0	0	1100	--	--	--
SEP												
13...	1245	2.1	2300	2.8	20.0	5.6	0	0	1200	0	<10	10
402520081050600 - 041 DINING F NR SCIO OH (LAT 40 25 20 LONG 081 05 06)												
APR , 1979												
28...	0930	19	190	7.3	8.0	--	42	0	29	--	--	--
SEP												
25...	0930	6.5	230	7.3	11.5	--	72	0	27	0	<10	<10
402610080375700 - 041 ISLAND C NR TORONOTO OH (LAT 40 26 10 LONG 080 37 57)												
APR , 1979												
26...	1405	25	880	7.8	15.0	--	184	0	320	--	--	--
SEP												
11...	1400	13	1100	8.4	18.0	--	168	4	390	0	<10	10
402705080565600 - 041 ELK LICK NR AMSTERDAM OH (LAT 40 27 05 LONG 080 56 56)												
APR , 1979												
26...	1645	7.1	480	8.0	15.0	--	84	0	140	--	--	--
SEP												
24...	0940	2.5	480	8.0	10.0	--	117	0	150	0	<10	<10
402738081262300 - 041 OLD TOWN C AT NEW PHILADELPHIA OH (LAT 40 27 38 LONG 081 26 23)												
APR , 1979												
26...	1415	20	1000	6.6	15.0	.3	34	0	530	--	--	--
SEP												
13...	1445	4.6	1100	7.4	21.0	--	82	0	560	0	<10	<10
402859081290700 - 041 CROOKED RN AT NEW PHILADELPHIA OH (LAT 40 28 59 LONG 081 29 07)												
APR , 1979												
26...	1545	13	880	5.8	15.0	.5	14	0	400	--	--	--
SEP												
13...	0850	2.6	1080	7.4	18.0	--	92	0	390	0	<10	<10

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

ANALYSES OF MISCELLANEOUS STATIONS

DATE	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN)
402258080455800 - 041 CEDAR LICK C NR RICHMOND OH (LAT 40 22 58 LONG 080 45 58)												
APR , 1979												
26...	--	--	150	20	--	--	30	20	--	--	--	--
SEP												
11...	10	<10	260	20	17000	10	20	10	1200	.00	0	30
402309080401000 - 041 WILLS C AT STEUBENVILLE OH (LAT 40 23 09 LONG 080 40 10)												
APR , 1979												
26...	--	--	180	60	--	--	20	20	--	--	--	--
SEP												
11...	20	20	60	60	3400	30	30	30	1500	.00	0	80
402415081025500 - 041 IRISH C NR SCIO OH (LAT 40 24 15 LONG 081 02 55)												
APR , 1979												
28...	--	--	540	60	--	--	90	90	--	--	--	--
SEP												
25...	<10	<10	770	190	8900	<10	180	140	400	.00	0	20
402431081234300 - 041 MUD RN AT TUSCARAWAS OH (LAT 40 24 31 LONG 081 23 43)												
APR , 1979												
26...	--	--	99000	85000	--	--	5100	5100	--	--	--	--
SEP												
13...	10	20	28000	19000	120000	30	6800	6800	270	.00	0	50
402520081050600 - 041 DINING F NR SCIO OH (LAT 40 25 20 LONG 081 05 06)												
APR , 1979												
28...	--	--	760	10	--	--	120	90	--	--	--	--
SEP												
25...	<10	<10	850	120	9000	<10	150	100	560	.00	0	20
402610080375700 - 041 ISLAND C NR TORONOTO OH (LAT 40 26 10 LONG 080 37 57)												
APR , 1979												
26...	--	--	580	40	--	--	40	40	--	--	--	--
SEP												
11...	<10	10	410	20	18000	20	20	10	710	.00	0	50
402705080565600 - 041 ELK LICK NR AMSTERDAM OH (LAT 40 27 05 LONG 080 56 56)												
APR , 1979												
26...	--	--	1500	50	--	--	210	130	--	--	--	--
SEP												
24...	10	<10	260	20	17000	10	130	90	590	.00	0	40
402738081262300 - 041 OLD TOWN C AT NEW PHILADELPHIA OH (LAT 40 27 38 LONG 081 26 23)												
APR , 1979												
26...	--	--	2400	180	--	--	2800	2600	--	--	--	--
SEP												
13...	20	10	240	20	43000	20	2300	2200	840	.00	0	80
402859081290700 - 041 CROOKED RN AT NEW PHILADELPHIA OH (LAT 40 28 59 LONG 081 29 07)												
APR , 1979												
26...	--	--	8000	400	--	--	3000	2700	--	--	--	--
SEP												
13...	30	<10	740	40	28000	10	2200	2200	940	.00	0	70

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

--TABLE OF BENTHIC INVERTEBRATES--

	SITE ID NUMBER 402258080455800 79/09/11	SITE ID NUMBER 402309080401000 79/09/11	SITE ID NUMBER 402415081025500 79/09/25	SITE ID NUMBER 402431081234300 79/09/13	SITE ID NUMBER 402520081050600 79/09/25
BENTHIC INVERTEBRATES	-STATUS-	-STATUS-	-STATUS-	-STATUS-	-STATUS-
AQUATIC EARTHWORMS	--	--	--	--	--
BEETLES ADULT	--	--	PRESENT	--	--
BEETLES LARVAE	--	PRESENT	PRESENT	--	--
BLACK FLIES	PRESENT	COMMON	--	--	PRESENT
CADDISFLIES CASES	--	--	--	--	COMMON
CADDISFLIES FREE-LIVING	--	--	PRESENT	--	COMMON
CLAM	--	--	--	--	--
CRAYFISH	COMMON	--	--	--	--
CYCLOPS	--	--	--	--	--
DAMSELFLIES	--	--	--	--	--
DRAGONFLIES	--	--	--	--	--
FISH	COMMON	--	--	--	--
FLAT WORMS	--	--	--	--	--
FROGS	--	--	--	--	--
HELLGRAMMITES	--	PRESENT	--	--	--
HORSE HAIR WORMS	--	--	--	--	--
ISOPOD	--	--	--	--	--
LEECHES	--	--	--	--	--
MAYFLIES	COMMON	PRESENT	PRESENT	--	--
MIDGES	COMMON	COMMON	COMMON	PRESENT	COMMON
SALAMANDERS	--	--	--	--	--
SCUDS	--	--	--	--	--
SEED SHRIMP	--	--	--	--	--
SNAILS	--	--	--	--	--
STONEFLIES	PRESENT	PRESENT	--	--	--
WATER BOATMAN	COMMON	--	--	--	--
WATER FLEA	--	--	--	--	--
WATER MITES	PRESENT	--	COMMON	--	--
WATER SNAKE	--	--	--	--	--
WATER STRIDERS	--	--	--	--	--

EXPLANATION

-- - 0 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
PRESENT - 20 OR LESS OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
COMMON - MORE THAN 20 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

--TABLE OF BENTHIC INVERTEBRATES--

	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER
	402610080375700	402705080565600	402738081262300	402859081290700
	79/09/11	79/09/24	79/09/13	79/10/11
BENTHIC INVERTEBRATES	-STATUS-	-STATUS-	-STATUS-	-STATUS-
AQUATIC EARTHWORMS	--	--	--	--
BEETLES ADULT	--	--	PRESENT	--
BEETLES LARVAE	PRESENT	--	--	--
BLACK FLIES	COMMON	COMMON	--	--
CADDISFLIES CASES	--	COMMON	COMMON	--
CADDISFLIES FREE-LIVING	--	COMMON	COMMON	--
CLAM	--	--	--	--
CRAYFISH	PRESENT	--	PRESENT	--
CYCLOPS	--	--	--	--
DAMSELFLIES	--	--	--	--
DRAGONFLIES	--	--	--	--
FISH	COMMON	--	--	--
FLAT WORMS	--	--	--	--
FROGS	--	--	--	--
HELLGRAMMITES	PRESENT	--	--	--
HORSE HAIR WORMS	--	--	--	--
ISOPOD	--	--	--	--
LEECHES	--	--	--	--
MAYFLIES	PRESENT	PRESENT	--	--
MIDGES	COMMON	PRESENT	PRESENT	--
SALAMANDERS	--	--	--	--
SCUDS	--	--	--	--
SEED SHRIMP	--	--	--	--
SNAILS	--	--	--	--
STONEFLIES	PRESENT	--	--	--
WATER BOATMAN	--	--	--	--
WATER FLEA	--	--	--	--
WATER MITES	--	PRESENT	--	--
WATER SNAKE	--	--	--	--
WATER STRIDERS	--	PRESENT	--	--

EXPLANATION

-- - 0 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
PRESENT - 20 OR LESS OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
COMMON - MORE THAN 20 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

ANALYSES OF MISCELLANEOUS STATIONS

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	ACIDITY TOTAL HEATED (MG/L AS H)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)
403001080474700 - 041 LONG RN NR EAST SPRINGFIELD OH (LAT 40 30 01 LONG 080 47 47)												
APR , 1979												
26...	1830	11	290	7.7	15.5	--	64	0	63	--	--	--
SEP												
24...	1720	1.7	230	7.7	13.5	--	93	0	67	0	<10	10
403047081064700 - 041 N F MCGUIRE C NR CARROLLTON OH (LAT 40 30 47 LONG 081 06 47)												
APR , 1979												
23...	1245	11	215	8.1	15.0	--	70	0	31	--	--	--
SEP												
10...	1300	2.1	275	8.2	17.5	--	132	0	26	0	<10	<10
403102080435200 - 041 TOWN F NR HAMMONDSVILLE OH (LAT 40 31 02 LONG 080 43 52)												
APR , 1979												
27...	1720	34	520	8.5	14.0	--	102	2	150	--	--	--
SEP												
25...	1515	11	570	8.7	18.5	--	109	6	170	0	<10	10
403108081364900 - 041 E BRANCH AT SUGARCREEK OH (LAT 40 31 08 LONG 081 36 49)												
APR , 1979												
25...	1400	32	770	6.9	19.0	.0	36	0	340	--	--	--
SEP												
12...	1420	12	900	7.1	22.5	--	72	0	390	0	<10	<10
403133080560800 - 041 STRAWCAMP RN NR BERGHOLZ OH (LAT 40 31 33 LONG 080 56 08)												
APR , 1979												
26...	1230	7.0	210	7.9	15.0	--	66	0	37	--	--	--
SEP												
24...	1230	1.3	210	7.9	12.5	--	94	0	29	0	<10	10
403144080585500 - 041 CENTER F NR HARLEM SPRINGS OH (LAT 40 31 44 LONG 080 58 55)												
APR , 1979												
26...	1210	12	390	8.4	15.0	--	98	1	96	--	--	--
SEP												
24...	1420	3.4	380	8.2	17.0	--	85	0	90	0	<10	10
403150080531200 - 041 UPPER N F AT BERGHOLZ OH (LAT 40 31 50 LONG 080 53 12)												
APR , 1979												
26...	1530	19	230	7.7	15.0	--	59	0	37	--	--	--
SEP												
24...	1530	5.6	200	7.9	16.0	--	88	0	38	0	<10	20
403242081413800 - 041 GOOSE C NR WALNUT CREEK OH (LAT 40 32 42 LONG 081 41 38)												
APR , 1979												
25...	1000	4.6	550	8.0	15.5	--	102	0	180	--	--	--
SEP												
12...	0930	1.3	730	7.3	16.5	--	160	0	240	0	<10	20
403257080430600 - 041 BRUSH C AT HAMMONDSVILLE OH (LAT 40 32 57 LONG 080 43 06)												
APR , 1979												
27...	1620	28	270	7.7	11.5	--	47	0	67	--	--	--
SEP												
25...	1340	6.8	370	7.9	14.0	--	79	0	87	0	<10	<10

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

ANALYSES OF MISCELLANEOUS STATIONS

DATE	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN)
403001080474700 - 041 LONG RN NR EAST SPRINGFIELD OH (LAT 40 30 01 LONG 080 47 47)												
APR , 1979												
26...	--	--	590	40	--	--	80	40	--	--	--	--
SEP												
24...	<10	<10	130	40	17000	10	50	20	680	.00	0	40
403047081064700 - 041 N F MCGUIRE C NR CARROLLTON OH (LAT 40 30 47 LONG 081 06 47)												
APR , 1979												
23...	--	--	340	0	--	--	40	40	--	--	--	--
SEP												
10...	20	<10	420	100	9900	20	120	120	610	.00	0	20
403102080435200 - 041 TOWN F NR HAMMONDSVILLE OH (LAT 40 31 02 LONG 080 43 52)												
APR , 1979												
27...	--	--	130	0	--	--	70	50	--	--	--	--
SEP												
25...	10	<10	2500	10	17000	<10	30	20	740	.00	0	40
403108081364900 - 041 E BRANCH AT SUGARCREEK OH (LAT 40 31 08 LONG 081 36 49)												
APR , 1979												
25...	--	--	3000	90	--	--	2000	1800	--	--	--	--
SEP												
12...	30	10	3100	30	36000	10	2400	2100	760	.00	0	100
403133080560800 - 041 STRAWCAMP RN NR BERGHOLZ OH (LAT 40 31 33 LONG 080 56 08)												
APR , 1979												
26...	--	--	310	40	--	--	40	30	--	--	--	--
SEP												
24...	20	10	290	110	35000	20	50	10	850	.00	0	50
403144080585500 - 041 CENTER F NR HARLEM SPRINGS OH (LAT 40 31 44 LONG 080 58 55)												
APR , 1979												
26...	--	--	310	60	--	--	70	50	--	--	--	--
SEP												
24...	<10	<10	430	60	20000	10	80	50	680	.00	0	30
403150080531200 - 041 UPPER N F AT BERGHOLZ OH (LAT 40 31 50 LONG 080 53 12)												
APR , 1979												
26...	--	--	200	20	--	--	30	30	--	--	--	--
SEP												
24...	30	20	2500	20	14000	20	250	40	830	.00	0	70
403242081413800 - 041 GOOSE C NR WALNUT CREEK OH (LAT 40 32 42 LONG 081 41 38)												
APR , 1979												
25...	--	--	290	40	--	--	1600	1600	--	--	--	--
SEP												
12...	20	20	720	30	40000	20	3400	3300	1500	.00	0	80
403257080430600 - 041 BRUSH C AT HAMMONDSVILLE OH (LAT 40 32 57 LONG 080 43 06)												
APR , 1979												
27...	--	--	210	50	--	--	40	40	--	--	--	--
SEP												
25...	10	10	100	40	19000	<10	20	0	640	.00	0	40

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

--TABLE OF BENTHIC INVERTEBRATES--

	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER
	403001080474700	403047081064700	403102080435200	403108081364900	403133080560800
	79/09/24	79/09/10	79/09/25	79/09/12	79/09/24
BENTHIC INVERTEBRATES	-STATUS-	-STATUS-	-STATUS-	-STATUS-	-STATUS-
AQUATIC EARTHWORMS	--	--	--	PRESENT	--
BEETLES ADULT	--	--	--	--	PRESENT
BEETLES LARVAE	PRESENT	--	--	--	PRESENT
BLACK FLIES	COMMON	--	COMMON	COMMON	PRESENT
CADDISFLIES CASES	COMMON	--	COMMON	--	COMMON
CADDISFLIES FREE-LIVING	COMMON	--	COMMON	--	--
CLAM	--	--	--	--	--
CRAYFISH	COMMON	PRESENT	PRESENT	--	--
CYCLOPS	--	--	--	--	--
DAMSELFLIES	--	--	--	--	--
DRAGONFLIES	--	PRESENT	--	--	--
FISH	--	PRESENT	--	--	--
FLAT WORMS	--	--	--	--	--
FROGS	COMMON	--	--	--	--
HELLGRAMMITES	--	--	--	--	--
HORSE HAIR WORMS	--	--	--	--	--
ISOPOD	--	--	--	--	--
LEECHES	--	--	--	--	--
MAYFLIES	COMMON	PRESENT	COMMON	--	PRESENT
MIDGES	COMMON	PRESENT	COMMON	PRESENT	PRESENT
SALAMANDERS	--	--	--	--	--
SCUDS	--	--	--	--	--
SEED SHRIMP	--	--	--	--	--
SNAILS	PRESENT	--	--	--	PRESENT
STONEFLIES	COMMON	--	PRESENT	--	PRESENT
WATER BOATMAN	--	--	--	--	--
WATER FLEA	--	--	--	--	--
WATER MITES	COMMON	PRESENT	PRESENT	--	COMMON
WATER SNAKE	--	--	--	--	--
WATER STRIDERS	COMMON	--	--	--	PRESENT

EXPLANATION

-- - 0 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
PRESENT - 20 OR LESS OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
COMMON - MORE THAN 20 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

--TABLE OF BENTHIC INVERTEBRATES--

BENTHIC INVERTEBRATES	SITE ID NUMBER 403144080585500 79/10/10 -STATUS-	SITE ID NUMBER 403150080531200 79/09/24 -STATUS-	SITE ID NUMBER 403242081413800 79/09/12 -STATUS-	SITE ID NUMBER 403257080430600 79/09/25 -STATUS-
AQUATIC EARTHWORMS	--	--	--	--
BEETLES ADULT	PRESENT	--	PRESENT	--
BEETLES LARVAE	--	--	--	PRESENT
BLACK FLIES	PRESENT	PRESENT	COMMON	COMMON
CADDISFLIES CASES	--	COMMON	COMMON	COMMON
CADDISFLIES FREE-LIVING	COMMON	COMMON	COMMON	COMMON
CLAM	--	--	--	--
CRAYFISH	--	PRESENT	PRESENT	COMMON
CYCLOPS	--	--	--	--
DAMSELFLIES	--	--	--	--
DRAGONFLIES	--	--	--	--
FISH	--	--	--	--
FLAT WORMS	--	--	--	--
FROGS	--	--	--	--
HELLGRAMMITES	--	--	--	PRESENT
HORSE HAIR WORMS	--	--	--	--
ISOPOD	--	--	--	--
LEECHES	--	--	--	--
MAYFLIES	PRESENT	PRESENT	COMMON	COMMON
MIDGES	PRESENT	COMMON	PRESENT	PRESENT
SALAMANDERS	--	--	--	--
SCUDS	--	--	--	--
SEED SHRIMP	--	--	--	--
SNAILS	PRESENT	--	--	--
STONEFLIES	--	PRESENT	PRESENT	COMMON
WATER BOATMAN	--	--	--	--
WATER FLEA	--	--	--	--
WATER MITES	--	COMMON	--	PRESENT
WATER SNAKE	--	--	--	--
WATER STRIDERS	--	--	--	PRESENT

EXPLANATION

-- - 0 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
PRESENT - 20 OR LESS OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
COMMON - MORE THAN 20 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

ANALYSES OF MISCELLANEOUS STATIONS

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	ACIDITY TOTAL HEATED (MG/L AS H)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)
403440081113400 - 041 WILLOW RN NR DELLROY OH (LAT 40 34 40 LONG 081 11 34)												
APR , 1979												
23...	1030	6.7	265	8.4	15.0	--	56	--	32	--	--	--
SEP												
10...	0930	1.0	360	7.2	15.0	--	88	0	14	0	<10	<10
403445081313200 - 041 BROAD RN AT STRASBURG OH (LAT 40 34 45 LONG 081 31 32)												
APR , 1979												
25...	1600	16	1100	6.5	21.0	.4	30	0	520	--	--	--
SEP												
12...	1600	5.3	1200	6.7	23.5	.4	73	0	610	0	<10	10
403550081213400 - 041 HUFF RN AT MINERAL CITY OH (LAT 40 35 50 LONG 081 21 34)												
APR , 1979												
26...	1030	17	1250	3.9	14.5	1.5	0	0	730	--	--	--
SEP												
13...	1630	4.1	1650	3.4	20.5	2.2	0	0	790	0	<10	20
403555081393700 - 041 INDIAN TRAIL C NR WINESBURG OH (LAT 40 35 55 LONG 081 39 37)												
APR , 1979												
25...	1100	13	465	7.6	16.0	--	110	0	130	--	--	--
SEP												
12...	1115	5.1	570	7.5	17.5	--	143	0	140	0	<10	<10
403715080391400 - 041 L YELLOW C NR WELLSVILLE OH (LAT 40 37 15 LONG 080 39 14)												
APR , 1979												
27...	1845	27	320	7.6	14.0	--	26	0	95	--	--	--
SEP												
25...	1040	1.8	550	7.6	12.0	--	36	0	170	0	<10	20
403724080500700 - 041 RILEY RN AT SALINEVILLE OH (LAT 40 37 24 LONG 080 50 07)												
APR , 1979												
27...	1020	27	320	7.4	12.0	--	39	0	90	--	--	--
SEP												
24...	1900	6.3	420	7.6	15.5	--	66	0	110	0	<10	20
403755081022200 - 041 PIPES F NR CARROLLTON OH (LAT 40 37 55 LONG 081 02 22)												
APR , 1979												
23...	1445	4.7	185	8.3	18.5	--	40	--	35	--	--	--
SEP												
10...	1420	.48	190	7.4	19.0	--	64	0	24	0	<10	20
403851081414500 - 041 CRABAPPLE C NR MOUNT EATON OH (LAT 40 38 51 LONG 081 41 45)												
APR , 1979												
23...	1115	9.1	400	7.8	16.0	--	116	0	81	--	--	--
SEP												
10...	1045	4.2	420	8.0	16.5	--	170	0	61	0	<10	<10
404023081161200 - 041 INDIAN RN NR WAYNESBURG OH (LAT 40 40 23 LONG 081 16 12)												
APR , 1979												
24...	1110	9.4	1120	6.3	13.5	.2	11	0	500	--	--	--
SEP												
11...	1100	1.1	1420	6.9	17.0	.2	52	0	610	0	<10	90

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

ANALYSES OF MISCELLANEOUS STATIONS

DATE	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN)
403440081113400 - 041 WILLOW RN NR DELLROY OH (LAT 40 34 40 LONG 081 11 34)												
APR , 1979												
23...	--	--	420	140	--	--	160	160	--	--	--	--
SEP												
10...	10	<10	1000	310	17000	10	530	490	420	.00	0	140
403445081313200 - 041 BROAD RN AT STRASBURG OH (LAT 40 34 45 LONG 081 31 32)												
APR , 1979												
25...	--	--	1300	310	--	--	10000	9900	--	--	--	--
SEP												
12...	30	20	250	50	54000	10	12000	12000	870	.00	0	90
403550081213400 - 041 HUFF RN AT MINERAL CITY OH (LAT 40 35 50 LONG 081 21 34)												
APR , 1979												
26...	--	--	18000	13000	--	--	17000	17000	--	--	--	--
SEP												
13...	<10	<10	14000	9400	10000	70	20000	20000	270	.00	0	50
403555081393700 - 041 INDIAN TRAIL C NR WINESBURG OH (LAT 40 35 55 LONG 081 39 37)												
APR , 1979												
25...	--	--	580	0	--	--	600	600	--	--	--	--
SEP												
12...	10	10	740	40	21000	10	680	630	760	.00	0	60
403715080391400 - 041 L YELLOW C NR WELLSVILLE OH (LAT 40 37 15 LONG 080 39 14)												
APR , 1979												
27...	--	--	330	50	--	--	610	560	--	--	--	--
SEP												
25...	60	30	50	30	57000	10	60	40	4400	.00	0	170
403724080500700 - 041 RILEY RN AT SALINEVILLE OH (LAT 40 37 24 LONG 080 50 07)												
APR , 1979												
27...	--	--	1200	90	--	--	300	280	--	--	--	--
SEP												
24...	30	30	490	30	46000	30	200	190	1100	.00	0	110
403755081022200 - 041 PIPES F NR CARROLLTON OH (LAT 40 37 55 LONG 081 02 22)												
APR , 1979												
23...	--	--	560	10	--	--	110	110	--	--	--	--
SEP												
10...	20	10	640	190	20000	20	260	170	710	.00	0	70
403851081414500 - 041 CRABAPPLE C NR MOUNT EATON OH (LAT 40 38 51 LONG 081 41 45)												
APR , 1979												
23...	--	--	350	30	--	--	70	60	--	--	--	--
SEP												
10...	<10	<10	240	10	10000	<10	110	110	340	.12	0	20
404023081161200 - 041 INDIAN RN NR WAYNESBURG OH (LAT 40 40 23 LONG 081 16 12)												
APR , 1979												
24...	--	--	1600	1600	--	--	6400	6300	--	--	--	--
SEP												
11...	30	20	800	490	40000	60	7400	7200	3400	.00	0	90

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

--TABLE OF BENTHIC INVERTEBRATES--

	SITE ID NUMBER 403440081113400 79/09/10	SITE ID NUMBER 403445081313200 79/09/12	SITE ID NUMBER 403550081213400 79/10/11	SITE ID NUMBER 403555081393700 79/09/12	SITE ID NUMBER 403715080391400 79/09/25
BENTHIC INVERTEBRATES	-STATUS-	-STATUS-	-STATUS-	-STATUS-	-STATUS-
AQUATIC EARTHWORMS	--	--	--	--	--
BEETLES ADULT	--	--	--	--	PRESENT
BEETLES LARVAE	COMMON	--	--	--	PRESENT
BLACK FLIES	--	--	PRESENT	COMMON	--
CADDISFLIES CASES	--	PRESENT	--	PRESENT	COMMON
CADDISFLIES FREE-LIVING	--	PRESENT	--	PRESENT	COMMON
CLAM	--	--	--	--	--
CRAYFISH	--	--	--	--	COMMON
CYCLOPS	--	--	--	--	--
DAMSELFLIES	--	--	--	--	--
DRAGONFLIES	--	PRESENT	--	--	--
FISH	--	--	--	--	--
FLAT WORMS	PRESENT	--	--	--	--
FROGS	--	--	--	--	--
HELLGRAMMITES	--	--	--	--	--
HORSE HAIR WORMS	--	--	--	--	--
ISOPOD	--	--	--	--	--
LEECHES	--	--	--	--	--
MAYFLIES	--	--	--	PRESENT	COMMON
MIDGES	COMMON	--	--	PRESENT	PRESENT
SALAMANDERS	--	--	--	--	--
SCUDS	--	--	--	--	--
SEED SHRIMP	--	--	--	--	--
SNAILS	--	--	--	--	--
STONEFLIES	--	--	--	--	PRESENT
WATER BOATMAN	--	--	--	--	--
WATER FLEA	--	--	--	--	--
WATER MITES	--	--	--	--	--
WATER SNAKE	--	--	--	--	--
WATER STRIDERS	PRESENT	PRESENT	--	--	PRESENT

EXPLANATION

-- - 0 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
PRESENT - 20 OR LESS OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
COMMON - MORE THAN 20 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

--TABLE OF BENTHIC INVERTEBRATES--

	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER
	403724080500700	403755081022200	403851081414500	404023081161200
	79/09/24	79/09/10	79/09/10	79/09/11
BENTHIC INVERTEBRATES	-STATUS-	-STATUS-	-STATUS-	-STATUS-
AQUATIC EARTHWORMS	--	PRESENT	--	--
BEETLES ADULT	PRESENT	--	PRESENT	--
BEETLES LARVAE	PRESENT	PRESENT	PRESENT	--
BLACK FLIES	COMMON	--	--	--
CADDISFLIES CASES	PRESENT	COMMON	PRESENT	--
CADDISFLIES FREE-LIVING	COMMON	--	COMMON	--
CLAM	--	--	--	--
CRAYFISH	PRESENT	COMMON	PRESENT	--
CYCLOPS	--	--	--	--
DAMSELFLIES	--	PRESENT	--	PRESENT
DRAGONFLIES	--	--	--	PRESENT
FISH	--	COMMON	--	PRESENT
FLAT WORMS	PRESENT	--	--	--
FROGS	--	COMMON	--	PRESENT
HELLGRAMMITES	--	--	--	--
HORSE HAIR WORMS	--	--	--	--
ISOPOD	--	--	--	--
LEECHES	--	--	--	--
MAYFLIES	COMMON	--	COMMON	PRESENT
MIDGES	PRESENT	COMMON	PRESENT	COMMON
SALAMANDERS	--	--	--	--
SCUDS	--	--	--	--
SEED SHRIMP	--	--	--	--
SNAILS	--	PRESENT	--	--
STONEFLIES	--	--	--	--
WATER BOATMAN	--	--	--	--
WATER FLEA	--	--	--	--
WATER MITES	PRESENT	--	PRESENT	--
WATER SNAKE	--	--	--	--
WATER STRIDERS	--	--	--	--

EXPLANATION

-- - 0 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
PRESENT - 20 OR LESS OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
COMMON - MORE THAN 20 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

ANALYSES OF MISCELLANEOUS STATIONS

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	ACIDITY TOTAL HEATED (MG/L AS H)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)
404026081174100 - 041 PLEASANT VALLEY RN NR WAYNESBURG OH (LAT 40 40 26 LONG 081 17 41)												
APR , 1979												
24...	0940	13	1100	6.5	13.5	.2	18	0	490	--	--	--
SEP												
11...	1000	1.9	1400	6.8	18.0	.3	56	0	480	0	<10	20
404052081281900 - 041 UNNAMED C NR BOLIVAR OH (LAT 40 40 52 LONG 081 28 19)												
APR , 1979												
25...	1615	7.0	600	9.2	20.5	--	124	12	130	--	--	--
SEP												
12...	1600	1.9	640	8.5	23.5	--	236	8	100	0	<10	<10
404140080351100 - 041 LONGS RN NR CALCUTTA OH (LAT 40 41 40 LONG 080 35 11)												
APR , 1979												
28...	0945	16	370	8.1	8.5	--	55	0	77	--	--	--
SEP												
25...	0845	2.6	560	7.9	10.0	--	101	0	86	0	<10	10
404155081241400 - 041 BEAR RN NR CANTON OH (LAT 40 41 55 LONG 081 24 14)												
APR , 1979												
25...	1500	5.7	820	5.8	21.0	.4	8	0	360	--	--	--
SEP												
12...	1500	1.0	890	7.3	21.5	--	48	0	360	0	<10	20
404206080520000 - 041 WILLIARD RN NR LISBON OH (LAT 40 42 06 LONG 080 52 00)												
APR , 1979												
27...	1300	11	320	7.8	11.5	--	70	0	69	--	--	--
SEP												
13...	1830	.37	420	8.3	22.0	--	174	1	72	0	<10	10
404210081023700 - 041 MUDDY F NR MINERVA OH (LAT 40 42 10 LONG 081 02 37)												
APR , 1979												
23...	1600	15	290	8.8	17.5	--	60	--	70	--	--	--
SEP												
10...	1600	1.8	395	8.7	22.5	--	120	8	89	0	<10	10
404229081352300 - 041 ELM RN AT BREWSTER OH (LAT 40 42 29 LONG 081 35 23)												
APR , 1979												
26...	1455	4.8	425	7.5	15.5	--	134	0	62	--	--	--
SEP												
24...	1600	3.8	380	7.4	16.5	--	132	0	56	0	<10	<10
404254080324000 - 041 N F L BEAVER C AT FREDERICKTOWN OH (LAT 40 42 54 LONG 080 32 40)												
APR , 1979												
28...	1200	254	660	8.4	10.5	--	130	--	190	--	--	--
SEP												
25...	1515	40	1000	8.6	16.0	--	180	12	240	--	<10	10
404300081395000 - 041 NORTH FORK NR W LEBANON OH (LAT 40 43 00 LONG 081 39 50)												
APR , 1979												
23...	1400	17	380	8.6	19.0	--	127	--	54	--	--	--
SEP												
10...	1330	6.0	490	8.0	20.0	--	126	0	45	0	<10	<10

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

ANALYSES OF MISCELLANEOUS STATIONS

DATE	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN)
404026081174100 - 041 PLEASANT VALLEY RN NR WAYNESBURG OH (LAT 40 40 26 LONG 081 17 41)												
APR , 1979												
24...	--	--	1700	1100	--	--	5900	5700	--	--	--	--
SEP												
11...	20	30	1100	570	89000	20	3800	3700	1100	.00	0	170
404052081281900 - 041 UNNAMED C NR BOLIVAR OH (LAT 40 40 52 LONG 081 28 19)												
APR , 1979												
25...	--	--	160	100	--	--	310	310	--	--	--	--
SEP												
12...	10	<10	400	60	16000	10	110	90	620	.00	0	120
404140080351100 - 041 LONGS RN NR CALCUTTA OH (LAT 40 41 40 LONG 080 35 11)												
APR , 1979												
28...	--	--	130	30	--	--	80	80	--	--	--	--
SEP												
25...	<10	<10	270	30	19000	20	90	40	560	.00	0	40
404155081241400 - 041 BEAR RN NR CANTON OH (LAT 40 41 55 LONG 081 24 14)												
APR , 1979												
25...	--	--	1000	430	--	--	9100	8700	--	--	--	--
SEP												
12...	30	30	430	110	66000	30	7700	7500	1200	.00	0	130
404206080520000 - 041 WILLIARD RN NR LISBON OH (LAT 40 42 06 LONG 080 52 00)												
APR , 1979												
27...	--	--	760	180	--	--	200	180	--	--	--	--
SEP												
13...	20	30	630	80	22000	20	150	90	2200	.00	0	70
404210081023700 - 041 MUDDY F NR MINERVA OH (LAT 40 42 10 LONG 081 02 37)												
APR , 1979												
23...	--	--	430	30	--	--	110	90	--	--	--	--
SEP												
10...	10	<10	770	110	18000	10	180	160	950	.00	0	30
404229081352300 - 041 ELM RN AT BREWSTER OH (LAT 40 42 29 LONG 081 35 23)												
APR , 1979												
26...	--	--	2000	0	--	--	370	290	--	--	--	--
SEP												
24...	10	10	770	70	23000	30	280	220	590	.00	0	60
404254080324000 - 041 N F L BEAVER C AT FREDERICKTOWN OH (LAT 40 42 54 LONG 080 32 40)												
APR , 1979												
28...	--	--	340	40	--	--	240	240	--	--	--	--
SEP												
25...	20	10	2700	30	18000	40	60	50	1900	--	--	190
404300081395000 - 041 NORTH FORK NR W LEBANON OH (LAT 40 43 00 LONG 081 39 50)												
APR , 1979												
23...	--	--	280	30	--	--	50	40	--	--	--	--
SEP												
10...	<10	<10	2400	50	10000	<10	200	140	230	.00	0	20

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

--TABLE OF BENTHIC INVERTEBRATES--

	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER
	404026081174100	404052081281900	404140080351100	404155081241400	404206080520000
	79/09/12	79/09/12	79/09/25	79/09/12	79/09/13
BENTHIC INVERTEBRATES	-STATUS-	-STATUS-	-STATUS-	-STATUS-	-STATUS-
AQUATIC EARTHWORMS	--	--	--	--	--
BEETLES ADULT	--	PRESENT	--	--	PRESENT
BEETLES LARVAE	COMMON	--	--	--	COMMON
BLACK FLIES	--	PRESENT	PRESENT	--	--
CADDISFLIES CASES	--	--	COMMON	--	PRESENT
CADDISFLIES FREE-LIVING	--	--	COMMON	COMMON	PRESENT
CLAM	--	--	--	--	--
CRAYFISH	PRESENT	PRESENT	COMMON	--	COMMON
CYCLOPS	--	--	--	--	--
DAMSELFLIES	PRESENT	--	--	--	--
DRAGONFLIES	PRESENT	PRESENT	--	--	--
FISH	PRESENT	PRESENT	--	--	--
FLAT WORMS	--	--	--	--	--
FROGS	--	--	--	--	--
HELLGRAMMITES	--	--	--	--	--
HORSE HAIR WORMS	--	--	--	--	--
ISOPOD	--	--	--	--	--
LEECHES	--	--	--	--	--
MAYFLIES	--	COMMON	COMMON	PRESENT	COMMON
MIDGES	--	PRESENT	--	PRESENT	COMMON
SALAMANDERS	--	--	--	--	--
SCUDS	--	--	--	--	--
SEED SHRIMP	--	--	--	--	--
SNAILS	--	PRESENT	--	--	PRESENT
STONEFLIES	--	--	--	--	--
WATER BOATMAN	--	--	--	--	--
WATER FLEA	--	--	--	--	--
WATER MITES	PRESENT	--	COMMON	PRESENT	COMMON
WATER SNAKE	--	--	--	--	--
WATER STRIDERS	--	--	--	PRESENT	--

EXPLANATION

-- - 0 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
PRESENT - 20 OR LESS OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
COMMON - MORE THAN 20 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

--TABLE OF BENTHIC INVERTEBRATES--

	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER
	404210081023700	404229081352300	404254080324000	404300081395000
	79/09/10	79/09/24	79/09/25	79/09/10
BENTHIC INVERTEBRATES	-STATUS-	-STATUS-	-STATUS-	-STATUS-
AQUATIC EARTHWORMS	--	--	--	--
BEETLES ADULT	--	--	--	PRESENT
BEETLES LARVAE	--	--	--	--
BLACK FLIES	--	COMMON	--	PRESENT
CADDISFLIES CASES	--	--	--	COMMON
CADDISFLIES FREE-LIVING	--	--	COMMON	--
CLAM	--	--	--	PRESENT
CRAYFISH	--	--	--	PRESENT
CYCLOPS	--	--	--	--
DAMSELFLIES	--	--	--	PRESENT
DRAGONFLIES	--	--	--	--
FISH	PRESENT	--	--	--
FLAT WORMS	--	--	--	--
FROGS	--	--	--	--
HELLGRAMMITES	--	--	--	--
HORSE HAIR WORMS	--	--	--	--
ISOPOD	--	--	--	--
LEECHES	--	--	--	--
MAYFLIES	PRESENT	PRESENT	PRESENT	COMMON
MIDGES	PRESENT	PRESENT	PRESENT	COMMON
SALAMANDERS	--	--	--	--
SCUDS	--	--	--	--
SEED SHRIMP	--	--	--	--
SNAILS	--	PRESENT	--	--
STONEFLIES	--	--	--	--
WATER BOATMAN	--	PRESENT	--	--
WATER FLEA	--	--	--	--
WATER MITES	COMMON	PRESENT	--	--
WATER SNAKE	--	--	--	--
WATER STRIDERS	--	PRESENT	PRESENT	--

EXPLANATION

-- - 0 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
PRESENT - 20 OR LESS OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
COMMON - MORE THAN 20 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

ANALYSES OF MISCELLANEOUS STATIONS

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	ACIDITY TOTAL HEATED (MG/L AS H)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)
404310081090800 - 041 HUGLE RN NR MALVERN OH (LAT 40 43 10 LONG 081 09 08)												
APR , 1979												
24...	1430	23	475	8.4	15.5	--	136	2	99	--	--	--
SEP												
11...	1425	3.6	765	8.0	18.0	--	196	0	75	0	<10	<10
404423080502900 - 041 COLD RN NR LISBON OH (LAT 40 44 23 LONG 080 50 29)												
APR , 1979												
27...	1420	33	420	8.0	12.5	--	116	0	84	--	--	--
SEP												
13...	1630	.63	798	8.4	24.5	--	209	4	210	0	<10	40
404434081315500 - 041 PIGEON RN NR NAVARRE OH (LAT 40 44 34 LONG 081 31 55)												
APR , 1979												
26...	1630	9.4	460	8.8	15.0	--	171	3	63	--	--	--
SEP												
24...	1445	4.8	530	8.2	14.0	--	222	0	66	0	<10	<10
404444081142700 - 041 BLACK RN NR ROBERTSVILLE OH (LAT 40 44 44 LONG 081 14 27)												
APR , 1979												
24...	1330	15	615	8.2	15.0	--	180	0	110	--	--	--
SEP												
11...	1315	2.6	595	8.1	20.0	--	256	0	120	0	<10	<10
404505081041100 - 041 M B SANDY C NR MINERVA OH (LAT 40 45 05 LONG 081 04 11)												
APR , 1979												
24...	1245	12	400	8.4	15.0	--	132	1	50	--	--	--
SEP												
10...	1150	1.2	550	8.3	17.5	--	278	2	52	0	<10	<10
404507081022000 - 041 CONSER RN NR MINERVA OH (LAT 40 45 07 LONG 081 02 20)												
APR , 1979												
24...	1000	16	300	7.9	13.0	--	100	0	39	--	--	--
SEP												
10...	1700	2.7	370	8.6	21.0	--	164	5	26	0	<10	<10
404544080415400 - 041 ELK RN AT ELKTON OH (LAT 40 45 44 LONG 080 41 54)												
APR , 1979												
26...	0900	13	600	8.3	14.5	--	133	--	170	--	--	--
SEP												
24...	0945	2.8	615	7.6	9.5	--	180	0	240	0	<10	--
404554080301700 - 041 BRUSH RN NR NEGLEY OH (LAT 40 45 54 LONG 080 30 17)												
APR , 1979												
25...	0945	12	440	7.5	14.5	--	41	0	150	--	--	--
SEP												
25...	1320	1.2	690	7.7	13.5	--	82	0	260	0	<10	10
404629080453500 - 041 LISBON C AT LISBON OH (LAT 40 46 29 LONG 080 45 35)												
APR , 1979												
25...	1145	5.5	580	9.0	18.0	--	111	13	130	--	--	--
SEP												
13...	0930	.58	810	7.9	17.0	--	227	0	140	--	--	--

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

ANALYSES OF MISCELLANEOUS STATIONS

DATE	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN)
404310081090800 - 041 HUGLE RN NR MALVERN OH (LAT 40 43 10 LONG 081 09 08)												
APR , 1979												
24...	--	--	430	10	--	--	150	130	--	--	--	--
SEP												
11...	10	<10	420	80	11000	10	200	190	970	.00	0	30
404423080502900 - 041 COLD RN NR LISBON OH (LAT 40 44 23 LONG 080 50 29)												
APR , 1979												
27...	--	--	1300	100	--	--	250	190	--	--	--	--
SEP												
13...	20	30	270	0	47000	650	250	240	1900	.00	0	140
404434081315500 - 041 PIGEON RN NR NAVARRE OH (LAT 40 44 34 LONG 081 31 55)												
APR , 1979												
26...	--	--	310	40	--	--	40	40	--	--	--	--
SEP												
24...	<10	<10	430	30	11000	10	50	10	310	.00	0	30
404444081142700 - 041 BLACK RN NR ROBERTSVILLE OH (LAT 40 44 44 LONG 081 14 27)												
APR , 1979												
24...	--	--	500	10	--	--	280	270	--	--	--	--
SEP												
11...	10	<10	600	600	16000	10	290	290	2100	.00	0	50
404505081041100 - 041 M B SANDY C NR MINERVA OH (LAT 40 45 05 LONG 081 04 11)												
APR , 1979												
24...	--	--	360	180	--	--	120	120	--	--	--	--
SEP												
10...	20	<10	260	30	28000	20	50	30	950	.00	0	40
404507081022000 - 041 CONSER RN NR MINERVA OH (LAT 40 45 07 LONG 081 02 20)												
APR , 1979												
24...	--	--	390	160	--	--	120	110	--	--	--	--
SEP												
10...	<10	<10	360	40	6100	<10	140	130	450	.00	0	50
404544080415400 - 041 ELK RN AT ELKTON OH (LAT 40 45 44 LONG 080 41 54)												
APR , 1979												
26...	--	--	160	40	--	--	130	120	--	--	--	--
SEP												
24...	--	--	240	40	--	--	250	200	--	--	--	--
404554080301700 - 041 BRUSH RN NR NEGLEY OH (LAT 40 45 54 LONG 080 30 17)												
APR , 1979												
25...	--	--	430	40	--	--	610	610	--	--	--	--
SEP												
25...	20	10	2000	70	32000	10	1800	1100	2900	.00	0	140
404629080453500 - 041 LISBON C AT LISBON OH (LAT 40 46 29 LONG 080 45 35)												
APR , 1979												
25...	--	--	170	50	--	--	50	50	--	--	--	--
SEP												
13...	--	--	290	40	--	--	220	210	--	--	--	--

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

--TABLE OF BENTHIC INVERTEBRATES--

	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER
	404310081090800	404423080502900	404434081315500	404444081142700	404505081041100
	79/09/11	79/09/13	79/09/24	79/09/11	79/09/10
BENTHIC INVERTEBRATES	-STATUS-	-STATUS-	-STATUS-	-STATUS-	-STATUS-
AQUATIC EARTHWORMS	--	--	--	--	--
BEETLES ADULT	--	--	--	--	--
BEETLES LARVAE	PRESENT	PRESENT	--	--	PRESENT
BLACK FLIES	--	--	--	--	PRESENT
CADDISFLIES CASES	--	PRESENT	--	--	COMMON
CADDISFLIES FREE-LIVING	PRESENT	PRESENT	--	--	--
CLAM	--	COMMON	--	--	--
CRAYFISH	--	COMMON	PRESENT	--	COMMON
CYCLOPS	--	--	--	--	--
DAMSELFLIES	PRESENT	--	--	PRESENT	--
DRAGONFLIES	PRESENT	--	PRESENT	PRESENT	PRESENT
FISH	--	--	PRESENT	COMMON	--
FLAT WORMS	--	PRESENT	--	--	COMMON
FROGS	--	--	PRESENT	--	--
HELLGRAMMITES	--	--	--	--	--
HORSE HAIR WORMS	--	--	--	--	--
ISOPOD	--	--	--	--	--
LEECHES	--	--	--	--	--
MAYFLIES	PRESENT	COMMON	PRESENT	PRESENT	COMMON
MIDGES	PRESENT	PRESENT	--	PRESENT	COMMON
SALAMANDERS	--	--	--	--	--
SCUDS	--	--	--	--	COMMON
SEED SHRIMP	--	--	--	--	--
SNAILS	--	PRESENT	--	--	COMMON
STONEFLIES	--	--	--	--	COMMON
WATER BOATMAN	--	--	--	--	COMMON
WATER FLEA	--	--	--	--	--
WATER MITES	COMMON	COMMON	--	PRESENT	COMMON
WATER SNAKE	--	--	--	--	--
WATER STRIDERS	--	COMMON	--	PRESENT	COMMON

EXPLANATION

-- - 0 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
PRESENT - 20 OR LESS OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
COMMON - MORE THAN 20 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

--TABLE OF BENTHIC INVERTEBRATES--

	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER
	404507081022000	404544080415400	404554080301700	404629080453500
	79/10/11	79/10/11	79/09/25	79/09/13
BENTHIC INVERTEBRATES	-STATUS-	-STATUS-	-STATUS-	-STATUS-
AQUATIC EARTHWORMS	--	--	--	--
BEETLES ADULT	PRESENT	PRESENT	--	--
BEETLES LARVAE	--	--	PRESENT	COMMON
BLACK FLIES	--	--	PRESENT	PRESENT
CADDISFLIES CASES	--	--	--	COMMON
CADDISFLIES FREE-LIVING	--	PRESENT	--	PRESENT
CLAM	--	--	--	--
CRAYFISH	--	--	PRESENT	COMMON
CYCLOPS	--	--	--	--
DAMSELFLIES	--	--	--	--
DRAGONFLIES	--	--	PRESENT	--
FISH	--	--	PRESENT	--
FLAT WORMS	--	--	--	--
FROGS	--	--	--	--
HELLGRAMMITES	--	--	--	--
HORSE HAIR WORMS	--	--	--	--
ISOPOD	--	--	--	--
LEECHES	--	--	--	--
MAYFLIES	--	--	PRESENT	COMMON
MIDGES	--	--	PRESENT	COMMON
SALAMANDERS	--	--	--	--
SCUDS	--	PRESENT	--	--
SEED SHRIMP	--	--	--	--
SNAILS	--	PRESENT	--	PRESENT
STONEFLIES	--	PRESENT	--	--
WATER BOATMAN	--	--	--	--
WATER FLEA	--	--	--	--
WATER MITES	--	--	PRESENT	PRESENT
WATER SNAKE	--	--	--	--
WATER STRIDERS	--	--	--	COMMON

EXPLANATION

-- - 0 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
PRESENT - 20 OR LESS OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
COMMON - MORE THAN 20 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

ANALYSES OF MISCELLANEOUS STATIONS

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	ACIDITY TOTAL HEATED (MG/L AS H)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)
404655080455301 - 041 LISBON C AT LISBON OH (LAT 40 46 55 LONG 080 45 53.01)												
APR , 1979												
25...	1420	5.8	560	8.9	20.0	--	110	9	140	--	--	--
SEP												
13...	1145	.65	690	8.3	18.0	--	198	2	170	0	<10	<10
404722080325700 - 041 LESLIE RN NR NEGLEY OH (LAT 40 47 22 LONG 080 32 57)												
APR , 1979												
24...	1845	13	610	9.1	17.0	--	127	15	150	--	--	--
SEP												
25...	1120	4.5	875	8.0	12.5	--	204	0	130	0	<10	20
404756080355800 - 041 L BULL C NR ROGERS OH (LAT 40 47 56 LONG 080 35 58)												
APR , 1979												
24...	1745	15	610	9.0	17.5	--	96	9	190	--	--	--
SEP												
25...	1000	2.6	690	8.0	12.0	--	192	0	200	--	<10	<10
404808081302600 - 041 SIPPO C AT MASSILLON OH (LAT 40 48 08 LONG 081 30 26)												
APR , 1979												
27...	1540	26	490	8.2	12.5	--	162	0	54	--	--	--
SEP												
24...	1200	13	570	8.0	15.0	--	232	0	78	0	<10	20
404818081331700 - 041 W B SIPPO C AT MASSILLON OH (LAT 40 48 18 LONG 081 33 17)												
APR , 1979												
27...	1245	12	505	8.5	10.5	--	176	4	60	--	--	--
SEP												
24...	1045	3.9	640	7.8	12.5	--	276	0	65	0	<10	<10
404831081301000 - 041 SIPPO C AT MASSILLON OH (LAT 40 48 31 LONG 081 30 10)												
APR , 1979												
27...	1435	25	530	8.1	12.5	--	164	0	52	--	--	--
SEP												
24...	1300	13	600	7.8	15.0	--	232	0	81	0	<10	<10
404909081163100 - 041 UNNAMED C NR LOUISVILLE OH (LAT 40 49 09 LONG 081 16 31)												
APR , 1979												
26...	0925	5.1	545	8.2	15.5	--	166	0	65	--	--	--
SEP												
13...	0930	.75	690	7.8	19.0	--	244	0	54	0	<10	10
404922081330601 - 041 NEWMAN C NR MASSILLON OH (LAT 40 49 22 LONG 081 33 06.01)												
APR , 1979												
27...	1200	38	540	8.9	11.5	--	172	12	84	--	--	--
SEP												
24...	0930	1.7	590	7.6	13.5	--	224	0	100	0	<10	<10
405022081242200 - 041 UNNAMED C AT AVONDALE OH (LAT 40 50 22 LONG 081 24 22)												
APR , 1979												
25...	1305	15	925	8.5	19.5	--	256	4	160	--	--	--
SEP												
13...	1120	2.7	955	8.0	21.0	--	280	0	130	0	<10	<10

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

ANALYSES OF MISCELLANEOUS STATIONS

DATE	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN)
404655080455301 - 041 LISBON C AT LISBON OH (LAT 40 46 55 LONG 080 45 53.01)												
APR , 1979												
25...	--	--	120	30	--	--	30	30	--	--	--	--
SEP												
13...	10	<10	270	40	20000	10	60	60	570	.00	0	70
404722080325700 - 041 LESLIE RN NR NEGLEY OH (LAT 40 47 22 LONG 080 32 57)												
APR , 1979												
24...	--	--	200	40	--	--	80	80	--	--	--	--
SEP												
25...	10	20	420	20	22000	90	220	180	530	.00	0	650
404756080355800 - 041 L BULL C NR ROGERS OH (LAT 40 47 56 LONG 080 35 58)												
APR , 1979												
24...	--	--	200	60	--	--	60	60	--	--	--	--
SEP												
25...	<10	<10	190	40	22000	90	50	20	660	.00	0	40
404808081302600 - 041 SIPPO C AT MASSILLON OH (LAT 40 48 08 LONG 081 30 26)												
APR , 1979												
27...	--	--	3500	570	--	--	280	240	--	--	--	--
SEP												
24...	10	30	1400	80	32000	60	280	180	780	.00	0	130
404818081331700 - 041 W B SIPPO C AT MASSILLON OH (LAT 40 48 18 LONG 081 33 17)												
APR , 1979												
27...	--	--	2400	120	--	--	80	80	--	--	--	--
SEP												
24...	<10	<10	330	50	16000	10	90	40	350	.00	0	40
404831081301000 - 041 SIPPO C AT MASSILLON OH (LAT 40 48 31 LONG 081 30 10)												
APR , 1979												
27...	--	--	2300	730	--	--	240	210	--	--	--	--
SEP												
24...	<10	<10	820	60	16000	70	280	200	440	.00	0	40
404909081163100 - 041 UNNAMED C NR LOUISVILLE OH (LAT 40 49 09 LONG 081 16 31)												
APR , 1979												
26...	--	--	540	210	--	--	170	170	--	--	--	--
SEP												
13...	<10	<10	410	140	15000	120	310	310	540	.00	0	40
404922081330601 - 041 NEWMAN C NR MASSILLON OH (LAT 40 49 22 LONG 081 33 06.01)												
APR , 1979												
27...	--	--	1200	10	--	--	210	210	--	--	--	--
SEP												
24...	10	<10	1200	70	20000	10	260	190	560	.00	0	50
405022081242200 - 041 UNNAMED C AT AVONDALE OH (LAT 40 50 22 LONG 081 24 22)												
APR , 1979												
25...	--	--	720	0	--	--	200	180	--	--	--	--
SEP												
13...	<10	<10	350	80	5100	<10	200	200	110	.00	0	120

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

--TABLE OF BENTHIC INVERTEBRATES--

	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER
	404655080455301	404722080325700	404756080355800	404808081302600	404818081331700
	79/09/13	79/09/25	79/09/25	79/09/24	79/09/24
BENTHIC INVERTEBRATES	-STATUS-	-STATUS-	-STATUS-	-STATUS-	-STATUS-
AQUATIC EARTHWORMS	--	--	--	--	--
BEETLES ADULT	PRESENT	--	--	--	PRESENT
BEETLES LARVAE	COMMON	--	--	--	--
BLACK FLIES	PRESENT	PRESENT	--	PRESENT	PRESENT
CADDISFLIES CASES	COMMON	--	--	--	--
CADDISFLIES FREE-LIVING	COMMON	PRESENT	PRESENT	--	PRESENT
CLAM	--	--	--	PRESENT	--
CRAYFISH	COMMON	PRESENT	PRESENT	PRESENT	PRESENT
CYCLOPS	--	--	--	--	--
DAMSELFLIES	--	--	--	--	--
DRAGONFLIES	--	--	--	PRESENT	--
FISH	--	PRESENT	PRESENT	--	PRESENT
FLAT WORMS	--	--	--	PRESENT	--
FROGS	COMMON	--	--	--	--
HELLGRAMMITES	PRESENT	--	--	--	--
HORSE HAIR WORMS	--	--	--	--	--
ISOPOD	--	--	--	--	--
LEECHES	--	PRESENT	--	PRESENT	--
MAYFLIES	COMMON	--	COMMON	PRESENT	COMMON
MIDGES	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT
SALAMANDERS	--	--	--	--	--
SCUDS	--	--	--	--	--
SEED SHRIMP	--	--	--	--	--
SNAILS	PRESENT	--	--	--	--
STONEFLIES	--	--	--	--	--
WATER BOATMAN	--	--	--	--	--
WATER FLEA	--	--	--	--	--
WATER MITES	COMMON	--	PRESENT	--	--
WATER SNAKE	--	--	--	--	--
WATER STRIDERS	COMMON	PRESENT	PRESENT	PRESENT	PRESENT

EXPLANATION

-- - 0 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
PRESENT - 20 OR LESS OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
COMMON - MORE THAN 20 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

--TABLE OF BENTHIC INVERTEBRATES--

	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER
	404831081301000	404909081163100	404922081330601	405022081242200
	79/09/24	79/09/13	79/09/24	79/09/13
BENTHIC INVERTEBRATES	-STATUS-	-STATUS-	-STATUS-	-STATUS-
AQUATIC EARTHWORMS	--	--	--	--
BEETLES ADULT	--	--	--	--
BEETLES LARVAE	--	--	--	--
BLACK FLIES	PRESENT	--	PRESENT	--
CADDISFLIES CASES	--	--	--	--
CADDISFLIES FREE-LIVING	--	PRESENT	COMMON	--
CLAM	--	PRESENT	PRESENT	PRESENT
CRAYFISH	PRESENT	PRESENT	PRESENT	PRESENT
CYCLOPS	--	--	--	--
DAMSELFLIES	--	PRESENT	--	--
DRAGONFLIES	PRESENT	--	--	--
FISH	--	PRESENT	--	PRESENT
FLAT WORMS	--	--	--	--
FROGS	PRESENT	PRESENT	--	--
HELLGRAMMITES	--	--	--	--
HORSE HAIR WORMS	--	--	--	--
ISOPOD	--	--	--	--
LEECHES	--	--	--	PRESENT
MAYFLIES	PRESENT	--	PRESENT	COMMON
MIDGES	PRESENT	PRESENT	--	PRESENT
SALAMANDERS	--	--	--	--
SCUDS	--	--	--	--
SEED SHRIMP	--	--	--	--
SNAILS	--	PRESENT	--	--
STONEFLIES	--	--	--	--
WATER BOATMAN	--	PRESENT	--	--
WATER FLEA	--	--	--	--
WATER MITES	PRESENT	--	--	--
WATER SNAKE	--	--	--	--
WATER STRIDERS	--	PRESENT	--	--

EXPLANATION

-- - 0 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
PRESENT - 20 OR LESS OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
COMMON - MORE THAN 20 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

ANALYSES OF MISCELLANEOUS STATIONS

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	ACIDITY TOTAL HEATED (MG/L AS H)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	SULFATE DISSOLVED (MG/L AS SO4)	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G)
405035080592300 - 041 UNNAMED C AT N GEORGETOWN OH (LAT 40 50 35 LONG 080 59 23)												
APR , 1979												
25...	1800	7.2	630	8.2	21.5	--	163	0	160	--	--	--
SEP												
12...	1345	1.4	810	8.0	20.0	--	412	0	210	0	<10	<10
405116080593900 - 041 UNNAMED C NR N GEORGETOWN OH (LAT 40 51 16 LONG 080 59 39)												
APR , 1979												
25...	1640	11	540	9.0	20.0	--	119	12	140	--	--	--
SEP												
12...	1700	1.5	730	8.0	22.5	--	313	0	210	0	<10	10
405120081345100 - 041 FOX RN NR MASSILLON OH (LAT 40 51 20 LONG 081 34 51)												
APR , 1979												
27...	1100	15	450	8.2	13.5	--	148	0	54	--	--	--
SEP												
13...	1610	.98	365	5.2	23.5	9.4	0	0	40	0	<10	<10
405128081011500 - 041 BEAVER RN NR HOMEWORTH OH (LAT 40 51 28 LONG 081 01 15)												
APR , 1979												
23...	1800	1.8	600	9.2	17.0	--	134	16	110	--	--	--
SEP												
12...	0930	.22	1200	7.9	15.5	--	436	0	260	0	<10	10
405233080452401 - 041 CHERRY VALLEY RN AT LEETONIA OH (LAT 40 52 33 LONG 080 45 24.01)												
APR , 1979												
24...	1530	10	620	8.6	18.0	--	112	4	170	--	--	--
SEP												
11...	1715	1.7	740	8.2	20.5	--	208	0	120	0	<10	<10
405322081004400 - 041 NAYLOR D NR SEBRING OH (LAT 40 53 22 LONG 081 00 44)												
APR , 1979												
26...	1745	2.8	210	7.4	17.5	--	94	0	54	--	--	--
SEP												
24...	1530	1.5	283	7.1	18.5	--	114	0	48	0	<10	<10
405405080583200 - 041 NAYLOR D NR DAMASCUS OH (LAT 40 54 05 LONG 080 58 32)												
APR , 1979												
23...	1145	1.7	580	8.6	17.0	--	154	7	99	--	--	--
SEP												
11...	1500	.06	1200	8.0	22.5	--	268	0	460	0	<10	<10
405432081294900 - 041 NIMISILA C NR N CANTON OH (LAT 40 54 32 LONG 081 29 49)												
APR , 1979												
26...	1100	6.2	450	8.5	16.5	--	132	4	55	--	--	--
SEP												
13...	1430	1.7	460	8.5	22.0	--	192	8	32	0	<10	<10
405457081334301 - 041 NIMISILA C NR CANAL FULTON OH (LAT 40 54 57 LONG 081 33 43.01)												
APR , 1979												
26...	1330	17	475	7.8	15.5	--	198	0	48	--	--	--
SEP												
13...	1320	6.1	490	8.2	19.0	--	268	0	27	0	<10	<10

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

ANALYSES OF MISCELLANEOUS STATIONS

DATE	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN)
405035080592300 - 041 UNNAMED C AT N GEORGETOWN OH (LAT 40 50 35 LONG 080 59 23)												
APR , 1979												
25...	--	--	500	90	--	--	240	210	--	--	--	--
SEP												
12...	<10	<10	640	30	13000	20	510	440	310	.00	0	30
405116080593900 - 041 UNNAMED C NR N GEORGETOWN OH (LAT 40 51 16 LONG 080 59 39)												
APR , 1979												
25...	--	--	840	50	--	--	280	150	--	--	--	--
SEP												
12...	10	20	480	40	14000	2300	540	280	1900	.00	0	90
405120081345100 - 041 FOX RN NR MASSILLON OH (LAT 40 51 20 LONG 081 34 51)												
APR , 1979												
27...	--	--	1500	500	--	--	310	250	--	--	--	--
SEP												
13...	10	<10	810	120	18000	40	300	210	560	.00	0	30
405128081011500 - 041 BEAVER RN NR HOMEWORTH OH (LAT 40 51 28 LONG 081 01 15)												
APR , 1979												
23...	--	--	540	130	--	--	100	90	--	--	--	--
SEP												
12...	10	<10	380	40	26000	10	400	310	750	.00	0	50
405233080452401 - 041 CHERRY VALLEY RN AT LEETONIA OH (LAT 40 52 33 LONG 080 45 24.01)												
APR , 1979												
24...	--	--	600	80	--	--	830	810	--	--	--	--
SEP												
11...	<10	<10	300	20	18000	10	100	80	1200	.00	0	40
405322081004400 - 041 NAYLOR D NR SEBRING OH (LAT 40 53 22 LONG 081 00 44)												
APR , 1979												
26...	--	--	1400	220	--	--	340	280	--	--	--	--
SEP												
24...	<10	<10	540	50	9600	20	280	190	840	.00	0	20
405405080583200 - 041 NAYLOR D NR DAMASCUS OH (LAT 40 54 05 LONG 080 58 32)												
APR , 1979												
23...	--	--	840	10	--	--	180	150	--	--	--	--
SEP												
11...	20	10	430	70	19000	20	180	170	330	.00	0	70
405432081294900 - 041 NIMISILA C NR N CANTON OH (LAT 40 54 32 LONG 081 29 49)												
APR , 1979												
26...	--	--	310	10	--	--	80	60	--	--	--	--
SEP												
13...	10	<10	310	170	11000	20	70	60	320	.00	0	100
405457081334301 - 041 NIMISILA C NR CANAL FULTON OH (LAT 40 54 57 LONG 081 33 43.01)												
APR , 1979												
26...	--	--	2200	100	--	--	240	130	--	--	--	--
SEP												
13...	<10	<10	470	150	5600	10	90	90	200	.00	0	10

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

--TABLE OF BENTHIC INVERTEBRATES--

	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER
	405035080592300	405116080593900	405120081345100	405128081011500	405233080452401
	79/09/12	79/09/12	79/09/13	79/09/12	79/09/11
BENTHIC INVERTEBRATES	-STATUS-	-STATUS-	-STATUS-	-STATUS-	-STATUS-
AQUATIC EARTHWORMS	--	PRESENT	--	--	--
BEETLES ADULT	--	--	--	--	--
BEETLES LARVAE	--	PRESENT	--	PRESENT	PRESENT
BLACK FLIES	PRESENT	COMMON	--	--	COMMON
CADDISFLIES CASES	PRESENT	PRESENT	--	COMMON	PRESENT
CADDISFLIES FREE-LIVING	PRESENT	PRESENT	--	PRESENT	PRESENT
CLAM	PRESENT	--	PRESENT	PRESENT	--
CRAYFISH	--	COMMON	PRESENT	COMMON	COMMON
CYCLOPS	--	--	--	--	--
DAMSELFLIES	PRESENT	--	PRESENT	--	--
DRAGONFLIES	--	--	PRESENT	PRESENT	--
FISH	--	--	PRESENT	COMMON	--
FLAT WORMS	--	COMMON	--	--	--
FROGS	--	--	--	COMMON	--
HELLGRAMMITES	--	--	--	--	--
HORSE HAIR WORMS	--	--	--	--	--
ISOPOD	--	--	--	--	--
LEECHES	--	--	--	--	--
MAYFLIES	COMMON	PRESENT	PRESENT	COMMON	COMMON
MIDGES	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT
SALAMANDERS	--	--	--	--	--
SCUDS	--	COMMON	--	--	PRESENT
SEED SHRIMP	--	--	--	--	--
SNAILS	--	--	--	PRESENT	COMMON
STONEFLIES	--	--	--	COMMON	PRESENT
WATER BOATMAN	COMMON	--	PRESENT	--	--
WATER FLEA	--	COMMON	--	COMMON	--
WATER MITES	COMMON	COMMON	--	COMMON	PRESENT
WATER SNAKE	--	--	--	--	--
WATER STRIDERS	COMMON	COMMON	PRESENT	COMMON	--

EXPLANATION

-- - 0 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
PRESENT - 20 OR LESS OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
COMMON - MORE THAN 20 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

--TABLE OF BENTHIC INVERTEBRATES--

	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER
	405322081004400	405405080583200	405432081294900	405457081334301
	79/09/24	79/09/11	79/09/13	79/09/12
BENTHIC INVERTEBRATES	-STATUS-	-STATUS-	-STATUS-	-STATUS-
AQUATIC EARTHWORMS	--	--	--	--
BEETLES ADULT	--	PRESENT	--	--
BEETLES LARVAE	--	PRESENT	--	--
BLACK FLIES	--	--	PRESENT	COMMON
CADDISFLIES CASES	COMMON	PRESENT	--	PRESENT
CADDISFLIES FREE-LIVING	COMMON	PRESENT	PRESENT	PRESENT
CLAM	PRESENT	COMMON	--	--
CRAYFISH	--	COMMON	--	--
CYCLOPS	--	--	--	--
DAMSELFLIES	--	--	PRESENT	PRESENT
DRAGONFLIES	--	PRESENT	--	PRESENT
FISH	COMMON	--	PRESENT	--
FLAT WORMS	--	COMMON	--	--
FROGS	PRESENT	COMMON	COMMON	--
HELLGRAMMITES	--	--	--	--
HORSE HAIR WORMS	--	--	--	--
ISOPOD	--	--	--	--
LEECHES	--	--	--	--
MAYFLIES	COMMON	COMMON	--	COMMON
MIDGES	PRESENT	PRESENT	COMMON	PRESENT
SALAMANDERS	--	--	--	--
SCUDS	--	PRESENT	--	--
SEED SHRIMP	--	--	--	--
SNAILS	--	COMMON	--	--
STONEFLIES	--	COMMON	--	PRESENT
WATER BOATMAN	--	COMMON	PRESENT	--
WATER FLEA	--	--	--	--
WATER MITES	--	--	--	--
WATER SNAKE	--	--	PRESENT	--
WATER STRIDERS	PRESENT	--	--	--

EXPLANATION

-- - 0 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
PRESENT - 20 OR LESS OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
COMMON - MORE THAN 20 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

ANALYSES OF MISCELLANEOUS STATIONS

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	ACIDITY TOTAL HEATED (MG/L AS H)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)
405606081082200 - 041 BEECH C NR ALLIANCE OH (LAT 40 56 06 LONG 081 08 22)												
APR , 1979												
24...	1645	8.0	540	9.0	19.0	--	148	16	72	--	--	--
SEP												
11...	1630	.50	825	8.6	28.0	--	288	12	90	0	<10	<10
405610081403300 - 041 SILVER C NR CLINTON OH (LAT 40 56 10 LONG 081 40 33)												
APR , 1979												
23...	1540	8.2	430	9.0	18.5	--	102	--	86	--	--	--
SEP												
10...	1500	4.6	480	7.8	18.5	--	130	0	76	0	<10	<10
405620081171300 - 041 SWARTZ D NR HARTVILLE OH (LAT 40 56 20 LONG 081 17 13)												
APR , 1979												
25...	0940	5.9	680	7.5	14.5	--	240	0	120	--	--	--
SEP												
12...	1000	1.7	650	7.8	14.5	--	308	0	94	0	<10	<10
405823081004700 - 041 ISLAND C NR N BENTON OH (LAT 40 58 23 LONG 081 00 47)												
APR , 1979												
26...	1630	.59	880	7.7	17.0	--	166	0	280	--	--	--
SEP												
24...	1730	.34	920	7.0	15.0	--	148	0	260	0	<10	<10
405843081094600 - 041 DEER C NR LIMAVILLE OH (LAT 40 58 43 LONG 081 09 46)												
APR , 1979												
25...	0830	31	305	7.6	11.0	--	80	0	47	--	--	--
SEP												
12...	0815	21	395	7.5	21.0	--	144	0	43	0	<10	<10
405919081261300 - 041 UNNAMED C NR UNIONTOWN OH (LAT 40 59 19 LONG 081 26 13)												
APR , 1979												
25...	1100	15	655	8.3	16.0	--	244	--	100	--	--	--
SEP												
12...	1245	6.4	515	8.0	17.0	--	280	0	84	0	<10	<10
405926080345800 - 041 BURGESS RN NR NEW MIDDLETOWN OH (LAT 40 59 26 LONG 080 34 58)												
APR , 1979												
25...	1045	1.4	1125	8.3	18.0	--	250	3	540	--	--	--
SEP												
13...	1115	.24	1750	7.9	19.0	--	310	0	790	0	<10	10
410001080580701 - 041 MILL C NR BERLIN CENTER OH (LAT 41 00 01 LONG 080 58 07.01)												
APR , 1979												
23...	1500	9.3	700	8.7	17.0	--	149	17	140	--	--	--
SEP												
11...	0920	1.2	790	8.2	16.5	--	320	0	160	0	<10	<10
410010080363700 - 041 BURGESS RN AT POLAND OH (LAT 41 00 10 LONG 080 36 37)												
APR , 1979												
25...	1230	4.0	540	9.2	22.0	--	56	17	150	--	--	--
SEP												
13...	1400	.10	900	8.1	20.0	--	148	0	280	0	<10	<10

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

ANALYSES OF MISCELLANEOUS STATIONS

DATE	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN)
405606081082200 - 041 BEECH C NR ALLIANCE OH (LAT 40 56 06 LONG 081 08 22)												
APR , 1979												
24...	--	--	500	80	--	--	140	60	--	--	--	--
SEP												
11...	10	<10	390	80	14000	10	110	90	590	.00	0	40
405610081403300 - 041 SILVER C NR CLINTON OH (LAT 40 56 10 LONG 081 40 33)												
APR , 1979												
23...	--	--	320	50	--	--	130	120	--	--	--	--
SEP												
10...	<10	<10	290	30	7000	<10	110	100	350	.25	0	20
405620081171300 - 041 SWARTZ D NR HARTVILLE OH (LAT 40 56 20 LONG 081 17 13)												
APR , 1979												
25...	--	--	2400	30	--	--	450	430	--	--	--	--
SEP												
12...	10	<10	450	60	10000	10	270	270	320	.00	0	30
405823081004700 - 041 ISLAND C NR N BENTON OH (LAT 40 58 23 LONG 081 00 47)												
APR , 1979												
26...	--	--	1200	90	--	--	460	430	--	--	--	--
SEP												
24...	20	10	530	30	16000	20	100	60	180	.00	0	80
405843081094600 - 041 DEER C NR LIMAVILLE OH (LAT 40 58 43 LONG 081 09 46)												
APR , 1979												
25...	--	--	320	60	--	--	200	130	--	--	--	--
SEP												
12...	10	<10	780	40	17000	30	510	90	2400	.00	0	30
405919081201300 - 041 UNNAMED C NR UNIONTOWN OH (LAT 40 59 19 LONG 081 26 13)												
APR , 1979												
25...	--	--	290	160	--	--	120	120	--	--	--	--
SEP												
12...	10	<10	6400	30	16000	20	290	130	660	.00	0	50
405926080345800 - 041 BURGESS RN NR NEW MIDDLETOWN OH (LAT 40 59 26 LONG 080 34 58)												
APR , 1979												
25...	--	--	500	50	--	--	540	510	--	--	--	--
SEP												
13...	20	20	390	30	16000	30	180	170	380	.00	0	80
410001080580701 - 041 MILL C NR BERLIN CENTER OH (LAT 41 00 01 LONG 080 58 07.01)												
APR , 1979												
23...	--	--	500	160	--	--	170	170	--	--	--	--
SEP												
11...	<10	<10	210	60	18000	<10	150	120	2200	.00	0	50
410010080363700 - 041 BURGESS RN AT POLAND OH (LAT 41 00 10 LONG 080 36 37)												
APR , 1979												
25...	--	--	570	80	--	--	40	30	--	--	--	--
SEP												
13...	20	<10	220	20	14000	30	120	70	1100	.00	0	100

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

--TABLE OF BENTHIC INVERTEBRATES--

	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER
	405606081082200	405610081403300	405620081171300	405823081004700	405843081094600
	79/09/11	79/09/10	79/09/12	79/09/24	79/09/12
BENTHIC INVERTEBRATES	-STATUS-	-STATUS-	-STATUS-	-STATUS-	-STATUS-
AQUATIC EARTHWORMS	--	PRESENT	--	--	--
BEETLES ADULT	--	PRESENT	--	--	--
BEETLES LARVAE	--	--	--	--	--
BLACK FLIES	--	PRESENT	PRESENT	PRESENT	--
CADDISFLIES CASES	--	PRESENT	--	PRESENT	--
CADDISFLIES FREE-LIVING	--	COMMON	PRESENT	--	--
CLAM	--	--	--	--	PRESENT
CRAYFISH	PRESENT	--	COMMON	--	--
CYCLOPS	--	--	--	--	--
DAMSELFLIES	--	PRESENT	--	PRESENT	PRESENT
DRAGONFLIES	PRESENT	--	--	PRESENT	--
FISH	COMMON	--	PRESENT	PRESENT	--
FLAT WORMS	--	--	--	--	PRESENT
FROGS	--	--	--	PRESENT	--
HELLGRAMMITES	--	--	--	--	--
HORSE HAIR WORMS	--	--	PRESENT	--	--
ISOPOD	--	--	--	--	--
LEECHES	--	--	--	--	--
MAYFLIES	PRESENT	COMMON	--	COMMON	--
MIDGES	PRESENT	PRESENT	PRESENT	PRESENT	PRESENT
SALAMANDERS	--	--	--	--	--
SCUDS	--	--	PRESENT	PRESENT	--
SEED SHRIMP	--	--	--	--	COMMON
SNAILS	PRESENT	--	PRESENT	--	PRESENT
STONEFLIES	--	--	--	--	--
WATER BOATMAN	--	--	--	--	--
WATER FLEA	--	--	--	--	--
WATER MITES	PRESENT	--	--	--	--
WATER SNAKE	--	--	--	--	--
WATER STRIDERS	--	PRESENT	--	PRESENT	--

EXPLANATION

-- - 0 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
PRESENT - 20 OR LESS OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
COMMON - MORE THAN 20 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

--TABLE OF BENTHIC INVERTEBRATES--

	SITE ID NUMBER 405919081261300 79/09/12	SITE ID NUMBER 405926080345800 79/09/13	SITE ID NUMBER 410001080580701 79/09/11	SITE ID NUMBER 410010080363700 79/09/13
BENTHIC INVERTEBRATES	-STATUS-	-STATUS-	-STATUS-	-STATUS-
AQUATIC EARTHWORMS	--	--	--	--
BEETLES ADULT	--	PRESENT	COMMON	PRESENT
BEETLES LARVAE	--	--	PRESENT	--
BLACK FLIES	--	--	PRESENT	COMMON
CADDISFLIES CASES	--	--	COMMON	--
CADDISFLIES FREE-LIVING	PRESENT	PRESENT	PRESENT	PRESENT
CLAM	--	--	COMMON	--
CRAYFISH	PRESENT	--	COMMON	PRESENT
CYCLOPS	--	--	--	--
DAMSELFLIES	PRESENT	COMMON	--	COMMON
DRAGONFLIES	PRESENT	--	PRESENT	PRESENT
FISH	--	COMMON	--	COMMON
FLAT WORMS	--	--	PRESENT	--
FROGS	--	--	--	COMMON
HELLGRAMMITES	--	--	COMMON	--
HORSE HAIR WORMS	--	--	--	--
ISOPOD	--	--	--	--
LEECHES	--	--	--	PRESENT
MAYFLIES	PRESENT	--	COMMON	PRESENT
MIDGES	PRESENT	COMMON	COMMON	COMMON
SALAMANDERS	--	--	--	--
SCUDS	--	COMMON	--	--
SEED SHRIMP	--	--	--	--
SNAILS	--	COMMON	--	--
STONEFLIES	--	--	COMMON	--
WATER BOATMAN	--	COMMON	--	--
WATER FLEA	--	--	--	--
WATER MITES	PRESENT	--	COMMON	--
WATER SNAKE	--	--	--	--
WATER STRIDERS	PRESENT	COMMON	PRESENT	COMMON

EXPLANATION

-- - 0 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
PRESENT - 20 OR LESS OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
COMMON - MORE THAN 20 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

ANALYSES OF MISCELLANEOUS STATIONS

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	ACIDITY TOTAL HEATED (MG/L AS H)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)
410024081380400 - 041 HUDSON RN AT BARBERTON OH (LAT 41 00 24 LONG 081 38 04)												
APR , 1979												
23...	1730	9.4	430	9.0	16.0	--	75	2	63	--	--	--
SEP												
12...	0845	4.1	510	7.6	18.5	--	140	0	59	0	<10	20
410049080512800 - 041 W B MEANDER C AT ELLSWORTH OH (LAT 41 00 49 LONG 080 51 28)												
APR , 1979												
26...	1230	1.7	370	8.4	18.0	--	91	3	67	--	--	--
SEP												
24...	1200	1.4	290	7.6	16.0	--	56	0	47	0	<10	10
410128080415700 - 041 INDIAN RN NR BOARDMAN OH (LAT 41 01 28 LONG 080 41 57)												
APR , 1979												
25...	1600	5.6	840	8.4	21.0	--	120	3	130	--	--	--
SEP												
13...	1600	.66	960	7.7	20.0	--	184	0	140	0	<10	20
410128080571600 - 041 TURKEY BROTH C AT BERLIN CENTER OH (LAT 41 01 28 LONG 080 57 16)												
APR , 1979												
26...	1530	1.0	447	7.9	17.0	--	116	0	75	--	--	--
SEP												
25...	1830	.11	759	7.4	15.5	--	120	0	85	0	<10	10
410132081394400 - 041 HUDSON RN NR NORTON OH (LAT 41 01 32 LONG 081 39 44)												
APR , 1979												
24...	0930	4.7	480	7.8	11.0	--	120	0	72	--	--	--
SEP												
11...	1600	2.3	540	7.8	19.5	--	172	0	68	0	<10	<10
410318081363200 - 041 WOLF C NR BARBERTON OH (LAT 41 03 18 LONG 081 36 32)												
APR , 1979												
23...	1545	15	325	8.0	14.0	--	92	0	50	--	--	--
SEP												
10...	1900	.76	420	7.0	23.0	--	164	0	44	0	<10	40
410424081290400 - 041 L CUYAHOGA R AT AKRON OH (LAT 41 04 24 LONG 081 29 04)												
APR , 1979												
24...	1530	42	495	8.4	24.0	--	138	2	66	--	--	--
SEP												
10...	1300	34	590	7.7	23.0	--	176	0	69	0	<10	50
410517081411500 - 041 WOLF C NR COPLEY OH (LAT 41 05 17 LONG 081 41 15)												
APR , 1979												
24...	1145	14	360	8.4	14.0	--	193	2	53	--	--	--
SEP												
11...	1300	5.4	485	7.5	18.0	--	192	0	41	0	<10	<10
410554081111500 - 041 BARREL RN NR ROOTSTOWN OH (LAT 41 05 54 LONG 081 11 15)												
APR , 1979												
28...	1430	13	350	8.2	11.0	--	102	0	57	--	--	--
SEP												
12...	1145	1.9	750	8.1	17.5	--	362	0	130	0	<10	<10

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

ANALYSES OF MISCELLANEOUS STATIONS

DATE	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN)
410024081380400 - 041 HUDSON RN AT BARBERTON OH (LAT 41 00 24 LONG 081 38 04)												
APR , 1979												
23...	--	--	340	80	--	--	80	50	--	--	--	--
SEP												
12...	10	20	490	80	41000	490	190	160	360	.00	0	140
410049080512800 - 041 W B MEANDER C AT ELLSWORTH OH (LAT 41 00 49 LONG 080 51 28)												
APR , 1979												
26...	--	--	190	30	--	--	80	30	--	--	--	--
SEP												
24...	20	20	300	110	37000	70	50	0	2700	.00	0	70
410128080415700 - 041 INDIAN RN NR BOARDMAN OH (LAT 41 01 28 LONG 080 41 57)												
APR , 1979												
25...	--	--	440	140	--	--	100	90	--	--	--	--
SEP												
13...	10	20	440	60	27000	30	110	110	620	.00	0	100
410128080571600 - 041 TURKEY BROTH C AT BERLIN CENTER OH (LAT 41 01 28 LONG 080 57 16)												
APR , 1979												
26...	--	--	1400	180	--	--	120	110	--	--	--	--
SEP												
25...	20	<10	820	40	23000	20	100	10	550	.00	0	50
410132081394400 - 041 HUDSON RN NR NORTON OH (LAT 41 01 32 LONG 081 39 44)												
APR , 1979												
24...	--	--	250	100	--	--	150	150	--	--	--	--
SEP												
11...	<10	<10	530	20	5900	10	140	120	190	.00	0	20
410318081363200 - 041 WOLF C NR BARBERTON OH (LAT 41 03 18 LONG 081 36 32)												
APR , 1979												
23...	--	--	440	50	--	--	60	20	--	--	--	--
SEP												
10...	<10	<10	490	30	9500	40	310	240	290	.00	0	40
410424081290400 - 041 L CUYAHOGA R AT AKRON OH (LAT 41 04 24 LONG 081 29 04)												
APR , 1979												
24...	--	--	620	70	--	--	130	100	--	--	--	--
SEP												
10...	10	90	580	40	48000	200	160	110	870	.00	0	360
410517081411500 - 041 WOLF C NR COPLEY OH (LAT 41 05 17 LONG 081 41 15)												
APR , 1979												
24...	--	--	380	50	--	--	90	90	--	--	--	--
SEP												
11...	<10	<10	500	70	10000	<10	50	40	340	.00	0	20
410554081111500 - 041 BARREL RN NR ROOTSTOWN OH (LAT 41 05 54 LONG 081 11 15)												
APR , 1979												
28...	--	--	500	120	--	--	150	70	--	--	--	--
SEP												
12...	<10	<10	540	10	9600	<10	210	120	450	.00	0	50

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

--TABLE OF BENTHIC INVERTEBRATES--

	SITE ID NUMBER 410024081380400 79/09/12	SITE ID NUMBER 410049080512800 79/09/24	SITE ID NUMBER 410128080415700 79/09/13	SITE ID NUMBER 410128080571600 79/09/25	SITE ID NUMBER 410132081394400 79/09/11
BENTHIC INVERTEBRATES	-STATUS-	-STATUS-	-STATUS-	-STATUS-	-STATUS-
AQUATIC EARTHWORMS	--	--	--	--	--
BEETLES ADULT	--	--	--	--	PRESENT
BEETLES LARVAE	--	--	--	--	--
BLACK FLIES	COMMON	--	--	--	COMMON
CADDISFLIES CASES	COMMON	COMMON	--	PRESENT	--
CADDISFLIES FREE-LIVING	--	COMMON	PRESENT	--	COMMON
CLAM	--	--	PRESENT	--	--
CRAYFISH	--	PRESENT	--	--	--
CYCLOPS	--	--	--	--	--
DAMSELFLIES	--	PRESENT	COMMON	--	--
DRAGONFLIES	--	--	PRESENT	--	COMMON
FISH	COMMON	PRESENT	--	COMMON	COMMON
FLAT WORMS	--	--	--	--	COMMON
FROGS	--	--	--	--	--
HELLGRAMMITES	--	--	--	--	--
HORSE HAIR WORMS	PRESENT	--	--	--	--
ISOPOD	--	--	--	--	--
LEECHES	--	--	--	--	--
MAYFLIES	COMMON	PRESENT	PRESENT	COMMON	COMMON
MIDGES	COMMON	COMMON	COMMON	--	COMMON
SALAMANDERS	--	--	--	--	--
SCUDS	--	--	--	--	--
SEED SHRIMP	--	--	--	--	--
SNAILS	COMMON	--	--	--	--
STONEFLIES	--	--	--	--	--
WATER BOATMAN	--	--	--	--	--
WATER FLEA	--	--	--	--	--
WATER MITES	--	--	--	--	--
WATER SNAKE	--	--	--	--	--
WATER STRIDERS	COMMON	PRESENT	COMMON	COMMON	COMMON

EXPLANATION

-- - 0 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
PRESENT - 20 OR LESS OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
COMMON - MORE THAN 20 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

--TABLE OF BENTHIC INVERTEBRATES--

	SITE ID NUMBER 410318081363200 79/09/10	SITE ID NUMBER 410424081290400 79/09/10	SITE ID NUMBER 410517081411500 79/09/11	SITE ID NUMBER 410554081111500 79/09/12
BENTHIC INVERTEBRATES	-STATUS-	-STATUS-	-STATUS-	-STATUS-
AQUATIC EARTHWORMS	--	--	--	--
BEETLES ADULT	--	--	PRESENT	--
BEETLES LARVAE	--	--	PRESENT	--
BLACK FLIES	PRESENT	--	--	PRESENT
CADDISFLIES CASES	--	--	--	COMMON
CADDISFLIES FREE-LIVING	--	--	PRESENT	COMMON
CLAM	--	--	--	--
CRAYFISH	--	--	COMMON	--
CYCLOPS	--	--	--	--
DAMSELFLIES	--	--	PRESENT	--
DRAGONFLIES	--	--	PRESENT	--
FISH	COMMON	--	COMMON	COMMON
FLAT WORMS	--	--	--	--
FROGS	--	--	--	COMMON
HELLGRAMMITES	--	--	--	--
HORSE HAIR WORMS	--	--	--	--
ISOPOD	--	--	--	--
LEECHES	--	--	--	--
MAYFLIES	COMMON	PRESENT	COMMON	PRESENT
MIDGES	--	COMMON	COMMON	COMMON
SALAMANDERS	--	--	--	--
SCUDS	PRESENT	--	--	--
SEED SHRIMP	--	--	--	--
SNAILS	--	COMMON	COMMON	COMMON
STONEFLIES	--	--	PRESENT	--
WATER BOATMAN	--	--	--	--
WATER FLEA	COMMON	COMMON	--	--
WATER MITES	--	--	--	COMMON
WATER SNAKE	--	--	--	--
WATER STRIDERS	COMMON	COMMON	COMMON	COMMON

EXPLANATION

-- - 0 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
PRESENT - 20 OR LESS OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
COMMON - MORE THAN 20 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

ANALYSES OF MISCELLANEOUS STATIONS

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	ACIDITY TOTAL HEATED (MG/L AS H)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	SULFATE DISSOLVED (MG/L AS SO4)	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS)	CADMIUM, RECOV. FM BOTTOM MATERIAL (UG/G AS CD)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G)
410644081363300 - 041 SCHOCALOG RN NR FAIRLAWN OH (LAT 41 06 44 LONG 081 36 53)												
APR , 1979												
23...	1230	2.7	755	8.3	17.5	--	191	6	120	--	--	--
SEP												
10...	1545	.74	755	8.4	25.0	--	230	12	90	0	<10	<10
410705080512000 - 041 MORRISON RN NR N JACKSON OH (LAT 41 07 05 LONG 080 51 20)												
APR , 1979												
26...	1030	1.2	340	8.0	17.0	--	147	0	93	--	--	--
SEP												
25...	1130	.27	600	7.3	13.0	--	136	0	99	0	<10	<10
410715080440500 - 041 FOURMILE RN AT WICKLIFFE OH (LAT 41 07 15 LONG 080 44 05)												
APR , 1979												
25...	1745	1.1	610	8.6	20.0	--	137	6	150	--	--	--
SEP												
13...	1800	.24	660	7.4	19.5	--	180	0	180	0	<10	10
410720080380801 - 041 CRAB C AT YOUNGSTOWN OH (LAT 41 07 20 LONG 080 38 08.01)												
APR , 1979												
24...	1830	9.6	555	8.3	15.0	--	160	2	90	--	--	--
SEP												
13...	0845	3.0	740	7.4	20.0	--	218	0	84	0	<10	10
410823080594301 - 041 KALE C NR NEWTON FALLS OH (LAT 41 08 23 LONG 080 59 43.01)												
APR , 1979												
27...	1030	117	400	7.3	12.0	--	63	0	86	--	--	--
SEP												
25...	1700	2.3	570	7.1	14.0	--	128	0	120	--	--	--
410916081085101 - 041 HINKLEY C AT CHARLESTOWN OH (LAT 41 09 16 LONG 081 08 51.01)												
APR , 1979												
28...	1315	18	220	7.6	9.5	--	60	0	36	--	--	--
SEP												
11...	1000	.22	442	7.6	17.0	--	208	0	34	0	<10	<10
411034080481800 - 041 MUD C NR NILES OH (LAT 41 10 34 LONG 080 48 18)												
APR , 1979												
28...	0900	51	460	7.3	10.0	--	59	0	76	--	--	--
SEP												
25...	0845	.57	570	7.1	12.0	--	106	0	110	0	<10	<10
411249080525100 - 041 L DUCK C NR LEAVITTSBURG OH (LAT 41 12 49 LONG 080 52 51)												
APR , 1979												
27...	1645	14	190	7.3	10.0	--	22	0	63	--	--	--
SEP												
25...	1445	.25	310	7.0	14.0	--	112	0	85	0	<10	20
411738081072700 - 041 SILVER C NR GARRETTSVILLE OH (LAT 41 17 38 LONG 081 07 27)												
APR , 1979												
27...	1330	46	240	7.4	10.5	--	51	0	37	--	--	--
SEP												
12...	1430	2.0	580	8.0	19.0	--	194	0	57	0	<10	<10

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

ANALYSES OF MISCELLANEOUS STATIONS

DATE	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN)
410644081365300 - 041 SCHOCALOG RN NR FAIRLAWN OH (LAT 41 06 44 LONG 081 36 53)												
APR , 1979												
23...	--	--	1100	100	--	--	190	180	--	--	--	--
SEP												
10...	<10	<10	310	30	12000	20	70	70	400	.00	0	90
410705080512000 - 041 MORRISON RN NR N JACKSON OH (LAT 41 07 05 LONG 080 51 20)												
APR , 1979												
26...	--	--	1100	140	--	--	300	260	--	--	--	--
SEP												
25...	10	<10	700	150	14000	10	140	90	440	.00	0	50
410715080440500 - 041 FOURMILE RN AT WICKLIFFE OH (LAT 41 07 15 LONG 080 44 05)												
APR , 1979												
25...	--	--	1000	90	--	--	100	70	--	--	--	--
SEP												
13...	10	<10	420	20	14000	30	60	40	710	.00	0	50
410720080380801 - 041 CRAB C AT YOUNGSTOWN OH (LAT 41 07 20 LONG 080 38 08.01)												
APR , 1979												
24...	--	--	320	100	--	--	140	140	--	--	--	--
SEP												
13...	10	<10	670	50	9500	10	240	220	530	.00	0	20
410823080594301 - 041 KALE C NR NEWTON FALLS OH (LAT 41 08 23 LONG 080 59 43.01)												
APR , 1979												
27...	--	--	2000	150	--	--	230	160	--	--	--	--
SEP												
25...	--	--	620	10	--	--	110	50	--	--	--	--
410916081085101 - 041 HINKLEY C AT CHARLESTOWN OH (LAT 41 09 16 LONG 081 08 51.01)												
APR , 1979												
28...	--	--	600	110	--	--	50	50	--	--	--	--
SEP												
11...	<10	<10	880	130	6500	10	160	50	150	.00	0	90
411034080481800 - 041 MUD C NR NILES OH (LAT 41 10 34 LONG 080 48 18)												
APR , 1979												
28...	--	--	1000	120	--	--	150	120	--	--	--	--
SEP												
25...	10	<10	950	70	16000	10	70	30	120	.00	0	40
411249080525100 - 041 L DUCK C NR LEAVITTSBURG OH (LAT 41 12 49 LONG 080 52 51)												
APR , 1979												
27...	--	--	550	130	--	--	50	50	--	--	--	--
SEP												
25...	30	20	280	40	2400	60	40	0	1400	.00	0	230
411738081072700 - 041 SILVER C NR GARRETTSVILLE OH (LAT 41 17 38 LONG 081 07 27)												
APR , 1979												
27...	--	--	1200	180	--	--	80	70	--	--	--	--
SEP												
12...	<10	<10	460	50	9100	<10	180	170	300	.00	0	20

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

--TABLE OF BENTHIC INVERTEBRATES--

	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER	SITE ID NUMBER
	410644081365300	410705080512000	410715080440500	410720080380801	410823080594301
	79/09/10	79/09/25	79/09/13	79/09/13	79/10/11
BENTHIC INVERTEBRATES	-STATUS-	-STATUS-	-STATUS-	-STATUS-	-STATUS-
AQUATIC EARTHWORMS	--	--	--	--	--
BEETLES ADULT	PRESENT	--	--	--	PRESENT
BEETLES LARVAE	PRESENT	--	COMMON	--	--
BLACK FLIES	PRESENT	COMMON	--	--	PRESENT
CADDISFLIES CASES	--	COMMON	--	--	--
CADDISFLIES FREE-LIVING	--	COMMON	PRESENT	--	PRESENT
CLAM	--	PRESENT	--	--	--
CRAYFISH	COMMON	--	--	--	--
CYCLOPS	--	--	--	--	--
DAMSELFLIES	--	PRESENT	--	--	--
DRAGONFLIES	--	--	PRESENT	--	--
FISH	COMMON	COMMON	PRESENT	--	--
FLAT WORMS	COMMON	--	--	--	--
FROGS	--	--	--	--	--
HELLGRAMMITES	--	PRESENT	--	--	--
HORSE HAIR WORMS	--	--	--	--	--
ISOPOD	--	--	--	--	--
LEECHES	--	--	--	COMMON	--
MAYFLIES	COMMON	COMMON	COMMON	--	COMMON
MIDGES	COMMON	PRESENT	PRESENT	--	PRESENT
SALAMANDERS	--	--	--	--	--
SCUDS	--	--	--	--	--
SEED SHRIMP	--	--	--	--	--
SNAILS	PRESENT	--	--	COMMON	PRESENT
STONEFLIES	--	--	--	--	--
WATER BOATMAN	--	COMMON	--	--	--
WATER FLEA	--	--	--	--	--
WATER MITES	--	PRESENT	--	--	--
WATER SNAKE	--	--	--	--	--
WATER STRIDERS	--	COMMON	COMMON	--	--

EXPLANATION

-- - 0 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
PRESENT - 20 OR LESS OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
COMMON - MORE THAN 20 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

--TABLE OF BENTHIC INVERTEBRATES--

	SITE ID NUMBER 410916081085101 79/09/11	SITE ID NUMBER 411034080481800 79/09/25	SITE ID NUMBER 411249080525100 79/09/25	SITE ID NUMBER 411738081072700 79/09/12
BENTHIC INVERTEBRATES	-STATUS-	-STATUS-	-STATUS-	-STATUS-
AQUATIC EARTHWORMS	--	--	PRESENT	--
BEETLES ADULT	PRESENT	--	--	--
BEETLES LARVAE	PRESENT	--	--	--
BLACK FLIES	--	PRESENT	--	PRESENT
CADDISFLIES CASES	--	COMMON	--	--
CADDISFLIES FREE-LIVING	--	COMMON	--	COMMON
CLAM	--	PRESENT	--	--
CRAYFISH	COMMON	--	--	COMMON
CYCLOPS	--	--	--	--
DAMSELFLIES	--	--	--	--
DRAGONFLIES	--	--	PRESENT	PRESENT
FISH	COMMON	PRESENT	COMMON	COMMON
FLAT WORMS	--	--	--	--
FROGS	PRESENT	--	PRESENT	--
HELLGRAMMITES	--	--	PRESENT	--
HORSE HAIR WORMS	--	--	--	--
ISOPOD	--	--	--	--
LEECHES	--	--	--	--
MAYFLIES	COMMON	COMMON	--	PRESENT
MIDGES	COMMON	COMMON	PRESENT	PRESENT
SALAMANDERS	--	--	--	--
SCUDS	--	--	--	--
SEED SHRIMP	--	--	--	--
SNAILS	--	--	--	COMMON
STONEFLIES	PRESENT	--	--	--
WATER BOATMAN	--	--	PRESENT	--
WATER FLEA	--	--	--	--
WATER MITES	COMMON	--	--	--
WATER SNAKE	--	--	--	--
WATER STRIDERS	COMMON	COMMON	COMMON	COMMON

EXPLANATION

-- - 0 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
PRESENT - 20 OR LESS OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
COMMON - MORE THAN 20 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

ANALYSES OF MISCELLANEOUS STATIONS

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	ACIDITY TOTAL HEATED (MG/L AS H)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)
383726082500200 - 041 GINAT C NR FRANKLIN FURNACE OH (LAT 38 37 26 LONG 082 50 02)												
APR , 1979												
23...	0800	5.4	185	6.8	13.5	.1	28	0	56	--	--	--
No benthic invertebrate found.												
383750082435400 - 041 L PINE C NR PEDRO OH (LAT 38 37 50 LONG 082 43 54)												
APR , 1979												
23...	1000	18	665	6.3	15.0	.2	15	0	330	--	--	--
No benthic invertebrate found.												
390346081540100 - 041 HORSE CAVE C NR CHESTER OH (LAT 39 03 46 LONG 081 54 01)												
APR , 1979												
25...	1630	5.5	260	7.5	20.5	--	95	0	43	--	--	--
No benthic invertebrate found.												
394101080555800 - 041 OPOSSUM C NR HANNIBAL OH (LAT 39 41 01 LONG 080 55 58)												
APR , 1979												
26...	1000	4.1	220	8.5	16.0	--	80	4	36	--	--	--
SEP												
12...	1725	.60	215	7.8	21.0	--	110	0	28	0	<10	20
No benthic invertebrate sample taken.												
401914082042600 - 041 MOHAWK C NR WALHONDING OH (LAT 40 19 14 LONG 082 04 26)												
APR , 1979												
23...	1225	24	260	7.4	13.5	--	86	0	45	--	--	--
SEP												
10...	0915	10	327	6.5	13.5	.4	110	0	40	0	<10	10
No benthic invertebrate sample taken.												
401936081504900 - 041 SPOON C NR COSHOCTON OH (LAT 40 19 36 LONG 081 50 49)												
APR , 1979												
24...	0730	7.5	475	7.2	12.5	--	77	0	180	--	--	--
SEP												
10...	1330	3.7	593	7.2	20.0	--	110	0	190	0	<10	10
No benthic invertebrate sample taken.												
402023081553800 - 041 BUCKLEW RN NR COSHOCTON OH (LAT 40 20 23 LONG 081 55 38)												
APR , 1979												
23...	1810	8.0	870	6.6	15.5	.2	20	0	500	--	--	--
SEP												
11...	0730	2.2	936	6.4	14.5	.3	50	0	440	0	<10	10
No benthic invertebrate sample taken.												
402058082004800 - 041 BEAVER RN NR WARSAW OH (LAT 40 20 58 LONG 082 00 48)												
APR , 1979												
23...	1105	18	180	7.1	12.0	--	50	0	31	--	--	--
SEP												
10...	1050	9.2	197	7.8	13.5	--	74	0	24	0	<10	<10
No benthic invertebrate sample taken.												
402137081505300 - 041 L MILL C NR KEENE OH (LAT 40 21 37 LONG 081 50 53)												
APR , 1979												
24...	0900	7.0	330	7.2	13.5	--	66	0	91	--	--	--
SEP												
10...	1425	2.4	375	7.1	20.0	--	100	0	87	0	<10	10
No benthic invertebrate sample taken.												
402150082203700 - 041 INDIANFIELD RN NR HOWARD OH (LAT 40 21 50 LONG 082 20 37)												
APR , 1979												
23...	1405	8.5	250	8.6	16.0	--	78	--	26	--	--	--
SEP												
11...	0915	2.8	304	8.1	16.5	--	110	0	22	0	<10	10
No benthic invertebrate sample taken.												

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

ANALYSES OF MISCELLANEOUS STATIONS

DATE	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN)
383726082500200 - 041 GINAT C NR FRANKLIN FURNACE OH (LAT 38 37 26 LONG 082 50 02)												
APR , 1979												
23...	--	--	570	120	--	--	220	220	--	--	--	--
383750082435400 - 041 L PINE C NR PEDRO OH (LAT 38 37 50 LONG 082 43 54)												
APR , 1979												
23...	--	--	1400	310	--	--	2100	2100	--	--	--	--
390346081540100 - 041 HORSE CAVE C NR CHESTER OH (LAT 39 03 46 LONG 081 54 01)												
APR , 1979												
25...	--	--	1300	30	--	--	400	370	--	--	--	--
394101080555800 - 041 OPOSSUM C NR HANNIBAL OH (LAT 39 41 01 LONG 080 55 58)												
APR , 1979												
26...	--	--	260	20	--	--	10	10	--	--	--	--
SEP												
12...	10	30	280	0	38000	10	10	0	950	.00	0	70
401914082042600 - 041 MOHAWK C NR WALHONDING OH (LAT 40 19 14 LONG 082 04 26)												
APR , 1979												
23...	--	--	410	0	--	--	140	120	--	--	--	--
SEP												
10...	10	10	550	20	26000	10	110	100	500	.00	0	50
401936081504900 - 041 SPOON C NR COSHOCTON OH (LAT 40 19 36 LONG 081 50 49)												
APR , 1979												
24...	--	--	690	60	--	--	1000	1000	--	--	--	--
SEP												
10...	10	10	510	50	31000	10	1100	1100	720	.00	0	70
402023081553800 - 041 BUCKLEW RN NR COSHOCTON OH (LAT 40 20 23 LONG 081 55 38)												
APR , 1979												
23...	--	--	1100	90	--	--	4400	4300	--	--	--	--
SEP												
11...	<10	<10	540	150	23000	<10	3100	3000	440	.00	0	50
402058082004800 - 041 BEAVER RN NR WARSAW OH (LAT 40 20 58 LONG 082 00 48)												
APR , 1979												
23...	--	--	700	60	--	--	80	70	--	--	--	--
SEP												
10...	<10	<10	740	60	9400	<10	90	80	270	.00	0	30
402137081505300 - 041 L MILL C NR KEENE OH (LAT 40 21 37 LONG 081 50 53)												
APR , 1979												
24...	--	--	530	100	--	--	350	350	--	--	--	--
SEP												
10...	10	10	820	120	46000	10	230	230	470	.00	0	70
402150082203700 - 041 INDIANFIELD RN NR HOWARD OH (LAT 40 21 50 LONG 082 20 37)												
APR , 1979												
23...	--	--	240	50	--	--	20	10	--	--	--	--
SEP												
11...	<10	<10	140	60	15000	<10	40	40	320	.00	0	20

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

ANALYSES OF MISCELLANEOUS STATIONS

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	ACIDITY TOTAL HEATED (MG/L AS H)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)
402548081560600 - 041 DOUGHTY C NR CLARK OH (LAT 40 25 48 LONG 081 56 06)												
APR , 1979												
24...	1230	70	285	7.5	16.5	--	102	0	45	--	--	--
SEP												
10...	1600	30	337	7.4	20.0	--	130	0	41	0	<10	<10
No benthic invertebrate sample taken.												
402559081592100 - 041 BIG RN NR KILLBUCK OH (LAT 40 25 59 LONG 081 59 21)												
APR , 1979												
24...	1130	11	250	7.0	13.5	--	44	0	60	--	--	--
SEP												
10...	1730	2.5	272	6.3	19.5	.4	76	0	43	0	<10	<10
No benthic invertebrate sample taken.												
402757082171800 - 041 SAPPS RN NR DANVILLE OH (LAT 40 27 57 LONG 082 17 18)												
APR , 1979												
23...	1555	3.2	190	7.7	19.0	--	62	0	22	--	--	--
SEP												
11...	1240	1.2	265	7.1	18.5	--	110	0	18	0	<10	10
No benthic invertebrate sample taken.												
402803082201200 - 041 L JELLOWAY C NR HOWARD OH (LAT 40 28 03 LONG 082 20 12)												
APR , 1979												
23...	1700	15	205	8.4	17.0	--	72	--	21	--	--	--
SEP												
11...	1400	4.4	253	7.3	18.0	--	130	0	17	0	<10	<10
No benthic invertebrate sample taken.												
402835082163700 - 041 DOWD C NR DANVILLE OH (LAT 40 28 35 LONG 082 16 37)												
APR , 1979												
23...	1515	5.2	215	8.2	18.0	--	80	0	26	--	--	--
SEP												
11...	1100	1.6	267	7.4	17.5	--	130	0	20	0	<10	<10
No benthic invertebrate sample taken.												
402843082012600 - 041 WOLF C NR KILLBUCK OH (LAT 40 28 43 LONG 082 01 26)												
APR , 1979												
23...	1030	28	185	7.0	12.5	--	46	0	30	--	--	--
SEP												
11...	1645	9.4	242	7.2	16.5	--	72	0	25	0	<10	<10
No benthic invertebrate sample taken.												
403041082062900 - 041 BLACK C TR AT GLENMONT OH (LAT 40 30 41 LONG 082 06 29)												
APR , 1979												
24...	1345	5.4	150	7.4	17.0	--	44	0	26	--	--	--
SEP												
11...	1525	1.9	193	7.1	18.5	--	76	0	20	0	<10	10
No benthic invertebrate sample taken.												
403641081565100 - 041 PAINT C NR HOLMESVILLE OH (LAT 40 36 41 LONG 081 56 51)												
APR , 1979												
24...	1500	27	370	8.2	16.5	--	168	0	41	--	--	--
SEP												
12...	0810	10	455	7.5	15.0	--	240	0	36	0	<10	10
No benthic invertebrate sample taken.												
403655081550200 - 041 MARTINS C NR HOLMESVILLE OH (LAT 40 36 55 LONG 081 55 02)												
APR , 1979												
24...	1830	22	420	8.0	17.0	--	186	0	60	--	--	--
SEP												
12...	0930	7.0	520	8.2	15.5	--	260	0	50	0	<10	<10
No benthic invertebrate sample taken.												

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

ANALYSES OF MISCELLANEOUS STATIONS

DATE	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN)
402548081560600 - 041 DOUGHTY C NR CLARK OH (LAT 40 25 48 LONG 081 56 06)												
APR , 1979												
24...	--	--	900	40	--	--	90	60	--	--	--	--
SEP												
10...	<10	<10	570	50	12000	<10	100	90	250	.00	0	30
402559081592100 - 041 BIG RN NR KILLBUCK OH (LAT 40 25 59 LONG 081 59 21)												
APR , 1979												
24...	--	--	370	30	--	--	120	120	--	--	--	--
SEP												
10...	<10	<10	1300	220	9100	<10	200	180	250	.00	0	20
402757082171800 - 041 SAPPS RN NR DANVILLE OH (LAT 40 27 57 LONG 082 17 18)												
APR , 1979												
23...	--	--	300	10	--	--	30	30	--	--	--	--
SEP												
11...	<10	<10	190	70	29000	10	30	30	340	.00	0	30
402803082201200 - 041 L JELLOWAY C NR HOWARD OH (LAT 40 28 03 LONG 082 20 12)												
APR , 1979												
23...	--	--	480	30	--	--	30	20	--	--	--	--
SEP												
11...	<10	<10	410	160	12000	<10	20	20	230	.00	0	40
402835082163700 - 041 DOWD C NR DANVILLE OH (LAT 40 28 35 LONG 082 16 37)												
APR , 1979												
23...	--	--	690	0	--	--	50	30	--	--	--	--
SEP												
11...	<10	<10	630	50	13000	<10	70	60	250	.00	0	30
402843082012600 - 041 WOLF C NR KILLBUCK OH (LAT 40 28 43 LONG 082 01 26)												
APR , 1979												
23...	--	--	440	70	--	--	110	100	--	--	--	--
SEP												
11...	<10	<10	720	300	9900	<10	90	90	420	.00	0	20
403041082062900 - 041 BLACK C TR AT GLENMONT OH (LAT 40 30 41 LONG 082 06 29)												
APR , 1979												
24...	--	--	330	40	--	--	40	40	--	--	--	--
SEP												
11...	<10	<10	310	170	28000	10	70	60	690	.00	0	40
403641081565100 - 041 PAINT C NR HOLMESVILLE OH (LAT 40 36 41 LONG 081 56 51)												
APR , 1979												
24...	--	--	140	90	--	--	30	20	--	--	--	--
SEP												
12...	10	10	70	50	49000	10	20	20	750	.00	0	80
403655081550200 - 041 MARTINS C NR HOLMESVILLE OH (LAT 40 36 55 LONG 081 55 02)												
APR , 1979												
24...	--	--	360	0	--	--	30	20	--	--	--	--
SEP												
12...	<10	<10	130	20	24000	10	20	10	420	.00	0	40

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

ANALYSES OF MISCELLANEOUS STATIONS

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	ACIDITY TOTAL HEATED (MG/L AS H)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)
403807081552700 - 041 SALT C AT HOLMESVILLE OH (LAT 40 38 07 LONG 081 55 27)												
APR , 1979												
24...	1800	32	330	8.8	16.5	--	134	--	51	--	--	--
SEP												
12...	1040	8.3	441	7.0	18.0	--	220	0	44	0	<10	10
No benthic invertebrate sample taken.												
403925082080700 - 041 CRAB RN AT LAKEVILLE OH (LAT 40 39 25 LONG 082 08 07)												
APR , 1979												
24...	1615	34	370	8.7	18.0	--	166	0	45	--	--	--
SEP												
12...	1545	14	436	7.9	22.5	--	220	0	35	0	<10	<10
No benthic invertebrate sample taken.												
404136082001800 - 041 SHREVE C NR SHREVE OH (LAT 40 41 36 LONG 082 00 18)												
APR , 1979												
24...	1715	8.7	460	8.2	17.0	--	230	0	58	--	--	--
SEP												
12...	1425	4.4	547	7.9	22.5	--	300	0	48	0	<10	<10
No benthic invertebrate sample taken.												
404512081584800 - 041 UNNAMED C NR SHREVE OH (LAT 40 45 12 LONG 081 58 48)												
APR , 1979												
25...	0830	5.5	420	8.1	13.5	--	194	0	45	--	--	--
SEP												
12...	1300	1.7	507	8.0	19.5	--	260	0	36	0	<10	10
No benthic invertebrate sample taken.												
404858081464900 - 041 L SUGAR C NR ORRVILLE OH (LAT 40 48 58 LONG 081 46 49)												
APR , 1979												
25...	1000	5.4	470	8.3	17.5	--	160	0	62	--	--	--
SEP												
13...	0830	1.6	562	7.5	19.0	--	220	0	52	0	<10	<10
No benthic invertebrate sample taken.												
405027081554200 - 041 L APPLE C NR WOOSTER OH (LAT 40 50 27 LONG 081 55 42)												
APR , 1979												
25...	0910	4.7	370	8.6	13.5	--	114	--	45	--	--	--
SEP												
13...	1550	1.1	455	8.2	23.0	--	290	0	36	0	<10	<10
No benthic invertebrate sample taken.												
405645081484300 - 041 L CHIPPEWA C NR RITTMAN OH (LAT 40 56 45 LONG 081 48 43)												
APR , 1979												
25...	1330	14	520	8.6	20.0	--	196	--	100	--	--	--
SEP												
13...	1430	5.9	925	8.8	25.0	--	280	55	190	0	<10	<10
No benthic invertebrate sample taken.												
405709081440300 - 041 MILL C AT EASTON OH (LAT 40 57 09 LONG 081 44 03)												
APR , 1979												
25...	1100	3.2	450	8.1	17.5	--	126	0	72	--	--	--
SEP												
13...	1005	1.1	412	7.2	19.0	--	200	0	51	0	<10	<10
No benthic invertebrate sample taken.												
405758081485600 - 041 TOMMY RN NR RITTMAN OH (LAT 40 57 58 LONG 081 48 56)												
APR , 1979												
25...	1230	2.0	430	8.9	19.5	--	130	--	71	--	--	--
SEP												
13...	1315	.46	526	8.1	25.5	--	250	0	66	0	<10	<10
No benthic invertebrate sample taken.												

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

ANALYSES OF MISCELLANEOUS STATIONS

DATE	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN)
403807081552700 - 041 SALT C AT HOLMESVILLE OH (LAT 40 38 07 LONG 081 55 27)												
APR , 1979												
24...	--	--	150	0	--	--	20	10	--	--	--	--
SEP												
12...	10	10	70	50	47000	10	10	10	660	.00	0	70
403925082080700 - 041 CRAB RN AT LAKEVILLE OH (LAT 40 39 25 LONG 082 08 07)												
APR , 1979												
24...	--	--	580	10	--	--	60	20	--	--	--	--
SEP												
12...	<10	<10	300	50	18000	<10	50	20	350	.00	0	30
404136082001800 - 041 SHREVE C NR SHREVE OH (LAT 40 41 36 LONG 082 00 18)												
APR , 1979												
24...	--	--	390	40	--	--	100	90	--	--	--	--
SEP												
12...	<10	<10	390	50	17000	10	140	130	360	.00	0	40
404512081584800 - 041 UNNAMED C NR SHREVE OH (LAT 40 45 12 LONG 081 58 48)												
APR , 1979												
25...	--	--	190	10	--	--	30	20	--	--	--	--
SEP												
12...	<10	<10	690	80	32000	10	30	10	530	.00	0	60
404858081464900 - 041 L SUGAR C NR ORRVILLE OH (LAT 40 48 58 LONG 081 46 49)												
APR , 1979												
25...	--	--	360	10	--	--	60	50	--	--	--	--
SEP												
13...	<10	<10	1500	80	24000	10	190	150	480	.00	0	40
405027081554200 - 041 L APPLE C NR WOOSTER OH (LAT 40 50 27 LONG 081 55 42)												
APR , 1979												
25...	--	--	160	10	--	--	30	20	--	--	--	--
SEP												
13...	<10	<10	300	100	16000	10	30	10	490	.00	0	60
405645081484300 - 041 L CHIPPEWA C NR RITTMAN OH (LAT 40 56 45 LONG 081 48 43)												
APR , 1979												
25...	--	--	1000	60	--	--	110	70	--	--	--	--
SEP												
13...	<10	<10	800	90	9400	<10	60	50	160	.00	0	50
405709081440300 - 041 MILL C AT EASTON OH (LAT 40 57 09 LONG 081 44 03)												
APR , 1979												
25...	--	--	880	130	--	--	130	120	--	--	--	--
SEP												
13...	<10	<10	720	80	6300	20	120	110	220	.00	0	20
405758081485600 - 041 TOMMY RN NR RITTMAN OH (LAT 40 57 58 LONG 081 48 56)												
APR , 1979												
25...	--	--	230	20	--	--	50	40	--	--	--	--
SEP												
13...	<10	<10	240	130	24000	10	70	60	320	.00	0	40

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

ANALYSES OF MISCELLANEOUS STATIONS

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	ACIDITY TOTAL HEATED (MG/L AS H)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G
405830081462000 - 041 RIVER STYX AT RITTMAN OH (LAT 40 58 30 LONG 081 46 20)												
APR , 1979												
25...	1200	22	620	7.6	18.0	--	166	0	97	--	--	--
SEP												
12...	1130	11	675	7.7	20.0	--	290	0	79	0	<10	10

No benthic invertebrate sample taken.

DATE	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN)
405830081462000 - 041 RIVER STYX AT RITTMAN OH (LAT 40 58 30 LONG 081 46 20)												
APR , 1979												
25...	--	--	9100	30	--	--	370	190	--	--	--	--
SEP												
12...	<10	20	2100	40	12000	10	230	210	230	.00	0	110

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

ANALYSES OF MISCELLANEOUS STATIONS

DATE	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN)
411807081032600 - 041 TINKER C NR GARRETTSVILLE OH (LAT 41 18 07 LONG 081 03 26)												
APR , 1979												
27...	--	--	850	300	--	--	90	60	--	--	--	--
SEP												
12...	<10	<10	2400	90	13000	<10	310	210	150	.00	0	90
411836081055000 - 041 CAMP C NR GARRETTSVILLE OH (LAT 41 18 36 LONG 081 05 50)												
APR , 1979												
27...	--	--	1100	180	--	--	110	100	--	--	--	--
SEP												
12...	<10	<10	760	60	8300	10	170	170	150	.00	0	80

TABLE 2.--DATA COLLECTED AT COAL HYDROLOGY SYNOPTIC SITES.--Continued

ANALYSES OF MISCELLANEOUS STATIONS

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	ACIDITY TOTAL HEATED (MG/L AS H)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)
411807081032600 - 041 TINKER C NR GARRETTSVILLE OH (LAT 41 18 07 LONG 081 03 26)												
APR , 1979												
27...	1645	14	190	7.3	10.0	--	42	0	30	--	--	--
SEP												
12...	1830	.64	330	7.4	18.0	--	136	0	28	0	<10	<10
411836081055000 - 041 CAMP C NR GARRETTSVILLE OH (LAT 41 18 36 LONG 081 05 50)												
APR , 1979												
27...	1515	13	290	7.4	10.0	--	58	0	42	--	--	--
SEP												
12...	1700	.77	430	7.3	17.0	--	152	0	69	0	<10	<10

--TABLE OF BENTHIC INVERTEBRATES--

BENTHIC INVERTEBRATES	-STATUS- SITE ID NUMBER 411807081032600 79/09/12	-STATUS- SITE ID NUMBER 411836081055000 79/09/12
AQUATIC EARTHWORMS	--	PRESENT
BEETLES ADULT	--	--
BEETLES LARVAE	PRESENT	--
BLACK FLIES	--	COMMON
CADDISFLIES CASES	PRESENT	--
CADDISFLIES FREE-LIVING	PRESENT	COMMON
CLAM	--	--
CRAYFISH	COMMON	COMMON
CYCLOPS	--	--
DAMSELFLIES	--	--
DRAGONFLIES	--	--
FISH	COMMON	COMMON
FLAT WORMS	--	--
FROGS	--	PRESENT
HELLGRAMMITES	--	--
HORSE HAIR WORMS	--	--
ISOPOD	--	--
LEECHES	--	--
MAYFLIES	PRESENT	PRESENT
MIDGES	PRESENT	COMMON
SALAMANDERS	--	--
SCUDS	--	--
SEED SHRIMP	--	--
SNAILS	COMMON	--
STONEFLIES	--	--
WATER BOATMAN	--	PRESENT
WATER FLEA	--	--
WATER MITES	--	--
WATER SNAKE	--	--
WATER STRIDERS	COMMON	COMMON

EXPLANATION

-- - 0 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
PRESENT - 20 OR LESS OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.
COMMON - MORE THAN 20 OBSERVATIONS OF THE ORGANISM IN THE SAMPLE.

TABLE 3.--DATA COLLECTED AT COAL HYDROLOGY EVENT SITES.--Continued

384401082145000 041 BULLSKIN C NR GALLIPOLIS OH
LAT 38-44-01 LONG 082-14-50 SEQ 00

SEP. 10, 1979
1730 HOURS

BENTHIC INVERTEBRATE IDENTIFICATION

9 COUNT

_ORGANISM__NAME_____	_COMMON__NAME_____	COUNT
ARTHROPODA	ARTHROPODS	
.INSECTA		
..DIPTERA		
...CHIRONOMIDAE	MIDGES---------AFTER	
....CHIRONOMUS		5
...CULICIDAE	MOSQUITOES	
....CULEX		1
..EPHEMEROPTERA	MAY FLIES	
...BAETIDAE		
....BAETIS		1
...SIPHLONURIDAE		
....ANALETRIS		2

NOTE: DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
ORDER 0.9
FAMILY 1.7
GENERA 1.7
INSECTA 1.7 GENERA

390622082131000 041 MUD F LEADING C NR DEXTER OH
LAT 39-06-22 LONG 082-13-10 SEQ 00

SEP. 10, 1979
1800 HOURS

BENTHIC INVERTEBRATE IDENTIFICATION

28 COUNT

_ORGANISM__NAME_____	_COMMON__NAME_____	COUNT
ARTHROPODA	ARTHROPODS	
.CRUSTACEA		
..AMPHIPODA	SCUDS	
...GAMMARIDAE		
....GAMMARUS		1
.INSECTA		
..DIPTERA		
...CHIRONOMIDAE	MIDGES---------AFTER	
....CHIRONOMUS		16
..EPHEMEROPTERA	MAY FLIES	
...HEPTAGENIIDAE		
....ARTHROPLEA		10
..ODONATA	DRAGONFLIES	
...UNKNOWN		
....UNKNOWN 118020807007000		1

NOTE: DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
CLASS 0.2
ORDER 1.3
FAMILY 1.3
GENERA 1.3
INSECTA 1.2 GENERA

TABLE 3.--DATA COLLECTED AT COAL HYDROLOGY EVEN SITES.--Continued

391604082022300 041 LONG RN NR ATHENS OH

LAT 39-16-04 LONG 082-02-23 SEQ 00

NOV. 9, 1979
0815 HOURS

BENTHIC INVERTEBRATE IDENTIFICATION

28 COUNT

_ORGANISM__NAME_____	_COMMON__NAME_____	COUNT
ARTHROPODA	ARTHROPODS	
.INSECTA		
..COLEOPTERA	BEETLES	
...DRYOPIDAE	RIFFLE BEETLES	
....HELICHUS		2
...DYTISCIDAE	PREDACEOUS DIVING	
....LACCOPHILUS		2
...HALIPLIDAE	CRAWLING WATER BEETL	
....HALIPLUS		1
..DIPTERA		
...CHIRONOMIDAE	MIDGES---------AFTER	
....CHIRONOMUS		4
....TANYPUS		2
...CULICIDAE	MOSQUITOES	
....CULEX		4
...SCIOMYZIDAE	MARSH FLIES	
....DICTYA		1
...SIMULIIDAE	BLACK FLIES	
....SIMULIUM		1
..EPHEMEROPTERA	MAY FLIES	
...HEPTAGENIIDAE		
....STENONEMA		2
..TRICHOPTERA	CADDIS FLIES	
...HYDROPSYCHIDAE		
....HYDROPSYCHE	SPLIT GENUS '79	9

NOTE: DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
ORDER 1.8
FAMILY 2.7
GENERA 2.9
INSECTA 2.9 GENERA

391915082274600 041 BRUSHY F NR CREOLA OH

LAT 39-19-15 LONG 082-27-46 SEQ 00

NOV. 9, 1979
1000 HOURS

BENTHIC INVERTEBRATE IDENTIFICATION

4 COUNT

_ORGANISM__NAME_____	_COMMON__NAME_____	COUNT
ARTHROPODA	ARTHROPODS	
.INSECTA		
..COLEOPTERA	BEETLES	
...HALIPLIDAE	CRAWLING WATER BEETL	
....HALIPLUS		1
..DIPTERA		
...CHIRONOMIDAE	MIDGES---------AFTER	
....CHIRONOMUS		1
...SIMULIIDAE	BLACK FLIES	
....SIMULIUM		1
..TRICHOPTERA	CADDIS FLIES	
...PHRYGANEIDAE		
....PHRYGANEA		1

NOTE: DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
ORDER 1.5
FAMILY 2.0
GENERA 2.0
INSECTA 2.0 GENERA

TABLE 3.--DATA COLLECTED AT COAL HYDROLOGY EVENT SITES.--Continued

393226082163400 041 L MONDAY C NR CARBON HILL OH
LAT 39-32-26 LONG 082-16-34 SEQ 00

NOV. 9, 1979
1245 HOURS

BENTHIC INVERTEBRATE IDENTIFICATION

134 COUNT

_ORGANISM__NAME_____	_COMMON__NAME_____	COUNT
ARTHROPODA	ARTHROPODS	
.CRUSTACEA		
..DECAPODA	DECAPODS	
...ASTACIDAE	CRAYFISH	
....PROCAMBARUS		1
.INSECTA		
..DIPTERA		
...CHIRONOMIDAE	MIDGES---------AFTER	
....CHIRONOMUS		108
...SIMULIIDAE	BLACK FLIES	
....SIMULIUM		1
..EPHEMEROPTERA	MAY FLIES	
...HEPTAGENIIDAE		
....ARTHROPLEA		4
...SIPHLONURIDAE		
....ANALETRIS		5
..ODONATA	DRAGONFLIES	
...UNKNOWN		
....UNKNOWN 118020807007000		1
..PLECOPTERA	STONEFLIES UPDATE 79	
...PERLODIDAE		
....ISOPERLA		10
..TRICHOPTERA	CADDIS FLIES	
...HYDROPSYCHIDAE		
....HYDROPSYCHE	SPLIT GENUS '79	1
MOLLUSCA	MOLLUSCS	
.GASTROPODA	SNAILS	
..BASOMMATOPHORA		
...PLANORBIDAE	ORB SNAILS	
....GYRAULUS		1
NEMATOMORPHA	HORSEHAIR WORMS	
.GORDIIDAE		2

NOTE: DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
PHYL/DIV 0.2
CLASS 0.2
INSECTA 1.0 GENERA

394508082092800 041 MC LUNEY C NR NEW LEXINGTON OH
LAT 39-45-08 LONG 082-09-28 SEQ 00

NOV. 9, 1978
1500 HOURS

BENTHIC INVERTEBRATE IDENTIFICATION

2 COUNT

_ORGANISM__NAME_____	_COMMON__NAME_____	COUNT
ARTHROPODA	ARTHROPODS	
.INSECTA		
..COLEOPTERA	BEETLES	
...GYRINIDAE	WHIRLIGIG BEETLES	
....GYRINUS		1
..DIPTERA		
...CHIRONOMIDAE	MIDGES---------AFTER	
....CHIRONOMUS		1

NOTE: DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
ORDER 1.0
FAMILY 1.0
GENERA 1.0
INSECTA 1.0 GENERA

TABLE 3.--DATA COLLECTED AT COAL HYDROLOGY EVENT SITES.--Continued

393400081252100 041 W F DUCK C AT WARNER OH
LAT 39-34-00 LONG 081-25-21 SEQ 00

SEP. 12, 1979
1430 HOURS

BENTHIC INVERTEBRATE IDENTIFICATION

49 COUNT

_ORGANISM__NAME_____	_COMMON__NAME_____	COUNT
ARTHROPODA	ARTHROPODS	
.INSECTA		
..DIPTERA		
...CHIRONOMIDAE	MIDGES---------AFTER	
....CHIRONOMUS		29
...SIMULIIDAE	BLACK FLIES	
....SIMULIUM		
.....S.VITTATUM		3
..EPHEMEROPTERA	MAY FLIES	
...BAETIDAE		
....BAETIS		4
..TRICHOPTERA	CADDIS FLIES	
...HYDROPSYCHIDAE		
....HYDROPSYCHE	SPLIT GENUS '79	13

NOTE: DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
ORDER 1.2
FAMILY 1.5
GENERA 1.5
INSECTA 1.5 GENERA

394311081425700 041 HORSE RN NR MCCONNELSVILLE OH
LAT 39-43-11 LONG 081-42-57 SEQ 00

SEP. 12, 1979
1300 HOURS

BENTHIC INVERTEBRATE IDENTIFICATION

92 COUNT

_ORGANISM__NAME_____	_COMMON__NAME_____	COUNT
ARTHROPODA	ARTHROPODS	
.INSECTA		
..COLEOPTERA	BEETLES	
...HYDROPHILIDAE	WATER-SCAVENGER	
....HELOPHORUS		2
..DIPTERA		
...CHIRONOMIDAE	MIDGES---------AFTER	
....CHIRONOMUS		22
...CULICIDAE	MOSQUITOES	
....CULEX		20
...SIMULIIDAE	BLACK FLIES	
....SIMULIUM		3
..EPHEMEROPTERA	MAY FLIES	
...BAETIDAE		
....BAETIS		37
..TRICHOPTERA	CADDIS FLIES	
...HYDROPSYCHIDAE		
....HYDROPSYCHE	SPLIT GENUS '79	7
MOLLUSCA	MOLLUSCS	
.GASTROPODA	SNAILS	
..BASOMMATOPHORA		
...LYMNAEIDAE	POND SNAILS	
....LYMNAEA		1

NOTE: DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
PHYL/DIV 0.1
CLASS 0.1
ORDER 1.5
FAMILY 2.1
GENERA 2.1
INSECTA 2.1 GENERA

TABLE 3.--DATA COLLECTED AT COAL HYDROLOGY EVENT SITES.--Continued

394827081065300 041 BAKER F NR WOODSFIELD OH
LAT 39-48-27 LONG 081-06-53 SEQ 00

SEP. 13, 1978
0850 HOURS

BENTHIC INVERTEBRATE IDENTIFICATION

236 COUNT

_ORGANISM__NAME	_COMMON__NAME	COUNT
ARTHROPODA	ARTHROPODS	
.INSECTA		
..COLEOPTERA	BEETLES	
...DRYOPIDAE	RIFFLE BEETLES	
....HELICHUS		1
...GYRINIDAE	WHIRLIGIG BEETLES	
....GYRINUS		3
...PSEPHENIDAE	WATER PENNIES	
....PSEPHENUS		5
..DIPTERA		
...CHIRONOMIDAE	MIDGES---------AFTER	
....CHIRONOMUS		73
...CULICIDAE	MOSQUITOES	
....CULEX		10
...SIMULIIDAE	BLACK FLIES	
....SIMULIUM		12
...TIPULIDAE	CRANE FLIES	
....TIPULA		3
..EPHEMEROPTERA	MAY FLIES	
...BAETIDAE		
....BAETIS		43
...EPHEMERELLIDAE		
....EPHEMERELLA		21
...UNKNOWN		
....UNKNOWN 118021308002000		10
..PLECOPTERA	STONEFLIES UPDATE 79	
...PERLODIDAE		
....ISOPERLA		8
..TRICHOPTERA	CADDIS FLIES	
...BRACHYCENTRIDAE		
....BRACHYCENTRUS		1
...HYDROPSYCHIDAE		
....HYDROPSYCHE	SPLIT GENUS '79	46

NOTE: DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
ORDER 1.9
FAMILY 2.9
GENERA 2.9
INSECTA 2.9 GENERA

395320081401200 041 YOKER C NR CUMBERLAND OH
LAT 39-53-20 LONG 081-40-12 SEQ 00

DEC. 9, 1979
0950 HOURS

BENTHIC INVERTEBRATE IDENTIFICATION

125 COUNT

_ORGANISM__NAME	_COMMON__NAME	COUNT
ARTHROPODA	ARTHROPODS	
.INSECTA		
..COLEOPTERA	BEETLES	
...ELMIDAE	RIFFLE BEETLES	
....STENELMIS		14
..DIPTERA		
...CHIRONOMIDAE	MIDGES---------AFTER	
....CHIRONOMUS		82
...SIMULIIDAE	BLACK FLIES	
....SIMULIUM		1
...TIPULIDAE	CRANE FLIES	
....TIPULA		1
..EPHEMEROPTERA	MAY FLIES	
...HEPTAGENIIDAE		
....ARTHROPLEA		6
..TRICHOPTERA	CADDIS FLIES	
...BRACHYCENTRIDAE		
....BRACHYCENTRUS		1
...HYDROPSYCHIDAE		
....HYDROPSYCHE	SPLIT GENUS '79	19
MOLLUSCA	MOLLUSCS	
.BIVALVIA	BIVALVES	
..NUCULOIDEA		
...SPHAERIIDAE	FINGERNAIL CLAMS	1

NOTE: DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
PHYL/DIV 0.1
CLASS 0.1
ORDER 1.4
FAMILY 1.6
INSECTA 1.5 GENERA

TABLE 3.--DATA COLLECTED AT COAL HYDROLOGY EVEN SITES.--Continued

395441081000000 041 PINEY C NR ARMSTRONGS MILLS OH
LAT 39-54-41 LONG 081-00-00 SEQ 00

OCT. 10, 1979
0900 HOURS

BENTHIC INVERTEBRATE IDENTIFICATION

2 COUNT

_ORGANISM__NAME_____	_COMMON__NAME_____	COUNT
ARTHROPODA	ARTHROPODS	
.INSECTA		
..TRICHOPTERA	CADDIS FLIES	
...HYDROPSYCHIDAE		
....HYDROPSYCHE	SPLIT GENUS '79	2

395522081514100 041 WHITE EYES C NR CHANDLERSVILLE OH
LAT 39-55-22 LONG 081-51-41 SEQ 00

DEC. 9, 1979
1000 HOURS

BENTHIC INVERTEBRATE IDENTIFICATION

126 COUNT

_ORGANISM__NAME_____	_COMMON__NAME_____	COUNT
ARTHROPODA	ARTHROPODS	
.INSECTA		
..COLEOPTERA	BEETLES	
...DYTISCIDAE	PREDACEOUS DIVING	
....CYBISTER		3
..DIPTERA		
...CHIRONOMIDAE	MIDGES---------AFTER	
....CHIRONOMUS		53
...SIMULIIDAE	BLACK FLIES	
....SIMULIUM		35
..EPHEMEROPTERA	MAY FLIES	
...BAETIDAE		
....BAETIS		33
..TRICHOPTERA	CADDIS FLIES	
...HYDROPSYCHIDAE		
....HYDROPSYCHE	SPLIT GENUS '79	2

NOTE: DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
ORDER 1.1
FAMILY 1.8
GENERA 1.8
INSECTA 1.8 GENERA

TABLE 3.--DATA COLLECTED AT COAL HYDROLOGY EVEN SITES.--Continued

395618080592700 0418END F NR ARMSTRONGS MILLS OH
LAT 39-56-18 LONG 080-59-27 SEQ 00

SEP. 13, 1979
1115 HOURS

BENTHIC INVERTEBRATE IDENTIFICATION

299 COUNT

_ORGANISM__NAME_____	_COMMON__NAME_____	COUNT
ARTHROPODA	ARTHROPODS	
.INSECTA		
..COLEOPTERA	BEETLES	
...ELMIDAE	RIFFLE BEETLES	
....STENELMIS		1
...PSEPHENIDAE	WATER PENNIES	
....PSEPHENUS		2
..DIPTERA		
...CHIRONOMIDAE	MIDGES---------AFTER	
....CHIRONOMUS		202
...CULICIDAE	MOSQUITOES	
....CULEX		13
...SIMULIIDAE	BLACK FLIES	
....SIMULIUM		5
..EPHEMEROPTERA	MAY FLIES	
...EPHEMERELLIDAE		
....EPHEMERELLA		24
...TRICHOGRAMMATIDAE		
....AMETROPUS		15
..MEGALOPTERA	MEGALOPTERANS	
...SIALIDAE	ALDERFLIES	
....SIALIS		2
..PLECOPTERA	STONEFLIES UPDATE 79	
...CAPNIIDAE		
....ALLOCAPNIA		8
..TRICHOPTERA	CADDIS FLIES	
...HYDROPSYCHIDAE		
....HYDROPSYCHE	SPLIT GENUS '79	27

NOTE: DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
ORDER 1.3
FAMILY 1.8
GENERA 1.8
INSECTA 1.8 GENERA

395709081062900 041 LONG RN NR BARNESVILLE OH
LAT 39-57-09 LONG 081-06-29 SEQ 00

SEP. 13, 1979
1000 HOURS

BENTHIC INVERTEBRATE IDENTIFICATION

466 COUNT

_ORGANISM__NAME_____	_COMMON__NAME_____	COUNT
ARTHROPODA	ARTHROPODS	
.INSECTA		
..DIPTERA		
...CHIRONOMIDAE	MIDGES---------AFTER	
....CHIRONOMUS		47
...SIMULIIDAE	BLACK FLIES	
....SIMULIUM		58
...TIPULIDAE	CRANE FLIES	
....PHALACROCERA		1
..EPHEMEROPTERA	MAY FLIES	
...HEPTAGENIIDAE		
....ARTHROPLEA		93
..TRICHOPTERA	CADDIS FLIES	
...HYDROPSYCHIDAE		
....HYDROPSYCHE	SPLIT GENUS '79	267

NOTE: DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
ORDER 1.4
FAMILY 1.7
GENERA 1.7
INSECTA 1.7 GENERA

TABLE 3.--DATA COLLECTED AT COAL HYDROLOGY EVENT SITES.--Continued

395908081273400 041 LEATHERWOOD C AT LORE CITY OH
LAT 39-59-08 LONG 081-27-34 SEQ 00

DEC. 9, 1979
1100 HOURS

BENTHIC INVERTEBRATE IDENTIFICATION

68 COUNT

_ORGANISM__NAME_____	_COMMON__NAME_____	COUNT
ARTHROPODA	ARTHROPODS	
.INSECTA		
..DIPTERA		
...CHIRONOMIDAE	MIDGES---------AFTER	
....CHIRONOMUS		34
...CULICIDAE	MOSQUITOES	
....CULEX		3
...SIMULIIDAE	BLACK FLIES	
....SIMULIUM		1
...TIPULIDAE	CRANE FLIES	
....TIPULA		1
..EPHEMEROPTERA	MAY FLIES	
...HEPTAGENIIDAE		
....ARTHROPLEA		8
..TRICHOPTERA	CADDIS FLIES	
...HYDROPSYCHIDAE		
....HYDROPSYCHE	SPLIT GENUS '79	21

NOTE: DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
ORDER 1.3
FAMILY 1.8
GENERA 1.8
INSECTA 1.8 GENERA

400402080460200 041 WHEELING C NR LANSING OH
LAT 40-04-02 LONG 080-46-02 SEQ 00

SEP. 13, 1979
1500 HOURS

BENTHIC INVERTEBRATE IDENTIFICATION

22 COUNT

_ORGANISM__NAME_____	_COMMON__NAME_____	COUNT
ARTHROPODA	ARTHROPODS	
.INSECTA		
..DIPTERA		
...CHIRONOMIDAE	MIDGES---------AFTER	
....CHIRONOMUS		21
..TRICHOPTERA	CADDIS FLIES	
...HYDROPSYCHIDAE		
....HYDROPSYCHE	SPLIT GENUS '79	1

NOTE: DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
ORDER 0.3
FAMILY 0.3
GENERA 0.3
INSECTA 0.3 GENERA

TABLE 3.--DATA COLLECTED AT COAL HYDROLOGY EVENT SITES.--Continued

401005082001700 041 MILL F WAKATOMIKA C NR TRINWAY OH
LAT 40-10-05 LONG 082-00-17 SEQ 00

NOV. 9, 1978
1725 HOURS

BENTHIC INVERTEBRATE IDENTIFICATION

41 COUNT

_ORGANISM__NAME_____	_COMMON__NAME_____	COUNT
ARTHROPODA	ARTHROPODS	
.INSECTA		
..DIPTERA		
...CHIRONOMIDAE	MIDGES---------AFTER	
....CHIRONOMUS		31
...TIPULIDAE	CRANE FLIES	
....PHALACROCERA		2
..EPHEMEROPTERA	MAY FLIES	
...HEPTAGENIIDAE		
....ARTHROPLEA		1
...SIPHLONURIDAE		
....ANALETRIS		1
..TRICHOPTERA	CADDIS FLIES	
...HYDROPSYCHIDAE		
....HYDROPSYCHE	SPLIT GENUS '79	6

NOTE: DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
ORDER 0.9
FAMILY 1.2
GENERA 1.2
INSECTA 1.2 GENERA

401104080423000 041 L SHORT C NR TILTONSVILLE OH
LAT 40-11-04 LONG 080-42-30 SEQ 00

SEP. 13, 1979
1535 HOURS

BENTHIC INVERTEBRATE IDENTIFICATION

18 COUNT

_ORGANISM__NAME_____	_COMMON__NAME_____	COUNT
ARTHROPODA	ARTHROPODS	
.INSECTA		
..COLEOPTERA	BEETLES	
...ELMIDAE	RIFFLE BEETLES	
....ELSIANUS		3
..DIPTERA		
...CHIRONOMIDAE	MIDGES---------AFTER	
....CHIRONOMUS		12
..TRICHOPTERA	CADDIS FLIES	
...HYDROPSYCHIDAE		
....HYDROPSYCHE	SPLIT GENUS '79	3

NOTE: DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
ORDER 1.3
FAMILY 1.3
GENERA 1.3
INSECTA 1.3 GENERA

TABLE 3.--DATA COLLECTED AT COAL HYDROLOGY EVENT SITES.--Continued

401227080551201 041 S F SHORT C AT GEORGETOWN OH
LAT 40-12-27 LONG 080-55-12 SEQ 01

OCT. 10, 1979
1200 HOURS

BENTHIC INVERTEBRATE IDENTIFICATION

1 COUNT

_ORGANISM__NAME_____	_COMMON__NAME_____	COUNT
ARTHROPODA	ARTHROPODS	
.INSECTA		
..PLECOPTERA	STONEFLIES UPDATE 79	
...PERLODIDAE		
....ISOPERLA		1

401812081362400 041 LICK RN AT NEWCOMERSTOWN OH
LAT 40-18-12 LONG 081-36-24 SEQ 00

OCT. 11, 1979
0930 HOURS

BENTHIC INVERTEBRATE IDENTIFICATION

9 COUNT

_ORGANISM__NAME_____	_COMMON__NAME_____	COUNT
ARTHROPODA	ARTHROPODS	
.INSECTA		
..COLEOPTERA	BEETLES	
...DYTISCIDAE	PREDACEOUS DIVING	
....DYTISCUS		1
..DIPTERA		
...SCIOMYZIDAE	MARSH FLIES	
....DICTYA		1
...TIPULIDAE	CRANE FLIES	
....TIPULA		3
..TRICHOPTERA	CADDIS FLIES	
...HYDROPSYCHIDAE		
....HYDROPSYCHE	SPLIT GENUS '79	4

NOTE: DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
ORDER 1.4
FAMILY 1.8
GENERA 1.8
INSECTA 1.8 GENERA

TABLE 3.--DATA COLLECTED AT COAL HYDROLOGY EVENT SITES.--Continued

402012081051200 041 CLEAR F NR JEWETT OH

LAT 40-20-12 LONG 081-05-12 SEQ 00

OCT. 10, 1979
1430 HOURS

BENTHIC INVERTEBRATE IDENTIFICATION

339 COUNT

_ORGANISM__NAME_____	_COMMON__NAME_____	COUNT
ARTHROPODA	ARTHROPODS	
.INSECTA		
..COLEOPTERA	BEETLES	
...DYTISCIDAE	PREDACEOUS DIVING	
....DYTISCUS		12
...ELMIDAE	RIFFLE BEETLES	
....STENELMIS		5
..DIPTERA		
...CHIRONOMIDAE	MIDGES---------AFTER	
....CHIRONOMUS		6
...CULICIDAE	MOSQUITOES	
....CULEX		1
...TIPULIDAE	CRANE FLIES	
....TIPULA		6
..MEGALOPTERA	MEGALOPTERANS	
...CORYDALIDAE		
....CHAULIODES	FISH FLIES	4
..PLECOPTERA	STONEFLIES UPDATE 79	
...PERLODIDAE		
....ISOPERLA		1
..TRICHOPTERA	CADDIS FLIES	
...HYDROPSYCHIDAE		
....HYDROPSYCHE	SPLIT GENUS '79	304

NOTE: DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
ORDER 0.6
FAMILY 0.7
GENERA 0.7
INSECTA 0.7 GENERA

403550081213400 041 HUFF RN AT MINERAL CITY OH
LAT 40-35-50 LONG 081-21-34 SEQ 00

OCT. 11, 1979
1112 HOURS

BENTHIC INVERTEBRATE IDENTIFICATION

1 COUNT

_ORGANISM__NAME_____	_COMMON__NAME_____	COUNT
ARTHROPODA	ARTHROPODS	
.INSECTA		
..DIPTERA		
...CULICIDAE	MOSQUITOES	
....CULEX		1

TABLE 3.--DATA COLLECTED AT COAL HYDROLOGY EVENT SITES.--Continued

404507081022000 041 CONSER RN NR MINERVA OH
LAT 40-45-07 LONG 081-02-20 SEQ 00

OCT. 11, 1979
1300 HOURS

BENTHIC INVERTEBRATE IDENTIFICATION

4 COUNT

_ORGANISM__NAME_____	_COMMON__NAME_____	COUNT
ARTHROPODA	ARTHROPODS	
.INSECTA		
..COLEOPTERA	BEETLES	
...ELMIDAE	RIFFLE BEETLES	
....STENELMIS		4

404544080415400 041 ELK RN AT ELKTON OH

LAT 40-45-44 LONG 080-41-54 SEQ 00

OCT. 11, 1979
1400 HOURS

BENTHIC INVERTEBRATE IDENTIFICATION

14 COUNT

_ORGANISM__NAME_____	_COMMON__NAME_____	COUNT
ARTHROPODA	ARTHROPODS	
.CRUSTACEA		
..AMPHIPODA	SCUDS	
...GAMMARIDAE		
....GAMMARUS		2
.INSECTA		
..COLEOPTERA	BEETLES	
...GYRINIDAE	WHIRLIGIG BEETLES	
....GYRINUS		1
..DIPTERA		
...CHIRONOMIDAE	MIDGES---------AFTER	
....CHIRONOMUS		1
...CULICIDAE	MOSQUITOES	
....CULEX		2
...SIMULIIDAE	BLACK FLIES	
....SIMULIUM		1
..PLECOPTERA	STONEFLIES UPDATE 79	
...PERLODIDAE		
....ISOGENUS	SPLIT GENUS'79 SYS?	3
..TRICHOPTERA	CADDIS FLIES	
...HYDROPSYCHIDAE		
....HYDROPSYCHE	SPLIT GENUS '79	3
MOLLUSCA	MOLLUSCS	
.GASTROPODA	SNAILS	
..BASOMMATOPHORA		
...LYMNAEIDAE	POND SNAILS	
....LYMNAEA		1

NOTE: DIVERSITY INDICES, BASED ON ACTUAL COUNTS:

PHYL/DIV	0.4	
CLASS	0.9	
ORDER	2.4	
FAMILY	2.8	
GENERA	2.8	
INSECTA	2.4	GENERA

TABLE 3.--DATA COLLECTED AT COAL HYDROLOGY EVENT SITES.--Continued

410823080594301 041 KALE C NR NEWTON FALLS OH
LAT 41-08-23 LONG 080-59-43 SEQ 01

OCT. 11, 1979
1800 HOURS

BENTHIC INVERTEBRATE IDENTIFICATION

23 COUNT

_ORGANISM__NAME_____	_COMMON__NAME_____	COUNT
ARTHROPODA	ARTHROPODS	
.INSECTA		
..COLEOPTERA	BEETLES	
...ELMIDAE	RIFFLE BEETLES	
....STENELMIS		3
..DIPTERA		
...CHIRONOMIDAE	MIDGES---------AFTER	
....CHIRONOMUS		3
...TIPULIDAE	CRANE FLIES	
....TIPULA		1
..EPHEMEROPTERA	MAY FLIES	
...EPHEMERELLIDAE		
....EPHEMERELLA		13
..TRICHOPTERA	CADDIS FLIES	
...HYDROPSYCHIDAE		
....HYDROPSYCHE	SPLIT GENUS '79	2
MOLLUSCA	MOLLUSCS	
.GASTROPODA	SNAILS	
..BASOMMATOPHORA		
...LYMNAEIDAE	POND SNAILS	
....LYMNAEA		1

NOTE: DIVERSITY INDICES, BASED ON ACTUAL COUNTS:

PHYL/DIV	0.3	
CLASS	0.3	
ORDER	1.8	
FAMILY	1.9	
GENERA	1.9	
INSECTA	1.7	GENERA

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FACTORS FOR CONVERTING INCH-POUND UNITS TO INTERNATIONAL SYSTEM UNITS (SI)

The following factors may be used to convert the inch-pound units published herein to the International System of Units (SI). This report contains both the inch-pound and SI unit equivalents in the station manuscript descriptions.

Multiply inch-pound units	By	To obtain SI units
	Length	
inches (in)	2.54×10^{1}	millimeters (mm)
	2.54×10^{-2}	meters (m)
feet (ft)	3.048×10^{-1}	meters (m)
miles (mi)	1.609×10^{0}	kilometers (km)
	Area	
acres	4.047×10^{3}	square meters (m^2)
	4.047×10^{-1}	square hectometers (hm^2)
	4.047×10^{-3}	square kilometers (km^2)
square miles (mi^2)	2.590×10^{0}	square kilometers (km^2)
	Volume	
gallons (gal)	3.785×10^{0}	liters (L)
	3.785×10^{0}	cubic decimeters (dm^3)
	3.785×10^{-3}	cubic meters (m^3)
million gallons	3.785×10^{3}	cubic meters (m^3)
	3.785×10^{-3}	cubic hectometers (hm^3)
cubic feet (ft^3)	2.832×10^{1}	cubic decimeters (dm^3)
	2.832×10^{-2}	cubic meters (m^3)
cfs-days	2.447×10^{3}	cubic meters (m^3)
	2.447×10^{-3}	cubic hectometers (hm^3)
acre-feet (acre-ft)	1.233×10^{3}	cubic meters (m^3)
	1.233×10^{-3}	cubic hectometers (hm^3)
	1.233×10^{-6}	cubic kilometers (km^3)
	Flow	
cubic feet per second (ft^3/s)	2.832×10^{1}	liters per second (L/s)
	2.832×10^{1}	cubic decimeters per second (dm^3/s)
	2.832×10^{-2}	cubic meters per second (m^3/s)
gallons per minute (gal/min)	6.309×10^{-2}	liters per second (L/s)
	6.309×10^{-2}	cubic decimeters per second (dm^3/s)
	6.309×10^{-5}	cubic meters per second (m^3/s)
million gallons per day	4.381×10^{1}	cubic decimeters per second (dm^3/s)
	4.381×10^{-2}	cubic meters per second (m^3/s)
	Mass	
tons (short)	9.072×10^{-1}	megagrams (Mg) or metric tons

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