INTERAGENCY ADVISORY COMMITTEE ON WATER DATA

NOTES ON SEDIMENTATION ACTIVITIES

CALENDAR YEAR 1977

U.S. DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
OFFICE OF WATER DATA COORDINATION
RESTON, VIRGINIA 22092

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Prepared by

Subcommittee on Sedimentation

U.S. Department of the Interior
Geological Survey
Office of Water Data Coordination

Reston, Virginia 22092
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PREFACE

The need for disseminating current information on activities in the field of sedimentation was proposed by the Chairman of the Federal Interagency River Basin Committee's Subcommittee on Sedimentation shortly after the subcommittee was formed in May 1946. At the fifth meeting of the subcommittee on September 17, 1946, the members approved this proposal and agreed to the issuance of a quarterly report as one means of effecting better coordination of the work of various Federal agencies in the field of sedimentation.

Quarterly reports were issued during the period of July 1, 1946, through June 30, 1947, when the reporting period was changed to a 6-month period, and semiannual reports were issued through 1953. Starting in 1954 and continuing through the present, these reports have been made annually and cover the activities of the Federal agencies in the field of sedimentation on a calendar-year basis.

This report is a digest of information furnished by Federal agencies conducting sedimentation investigations on work in progress or planned, important findings, new methods, new publications, laboratory and other research activities, and other pertinent information. The material has been organized by major drainage regions in the conterminous United States, Alaska, Hawaii, Puerto Rico, and foreign activities. There is also a section on research and other activities.

Appendix A is a listing of stations at which sediment data have been obtained. This listing is a retrieval of information from the files of the National Water Data Exchange (NAWDEX) as of April 1979.

Appendix B is a membership list of the Subcommittee on Sedimentation, which is now a subgroup of the Interior Department's Interagency Advisory Committee on Water Data.

CONTENTS

ILLUSTRATIONS

TABLES

NEW ENGLAND REGION

CORPS OF ENGINEERS

New England Division

Report on Sedimentation and erosion activities in the New England Division is as follows:

a. Black Rock Lake, CT. A deposit, similar to that removed in 1975 (4600 c.y.), has accumulated in the same area resulting from erosion in a nearby borrow area. Other smaller deposits have occurred resulting from off-reservoir sites. A reforestation project of this borrow area, the primary problem, has been initiated and will continue in FY 79 along with a plan to dredge 4000 - 5000 c.y. of material from the lake.

b. Northfield Brook Lake, CT. Similar to the Black Rock Lake problem, removal of silt at Northfield Brook Lake continues with a plan to remove an additional 2000 c.y. of material. To date, 7000 c.y. has been removed. Reforestation of the borrow area that has contributed to this erosion-siltation is almost complete.

c. Hop Brook Lake, CT. A recurring water quality problem exists at Hop Brook Lake due largely to the shallow depth of this small lake, and a low water flow during hot summer months. The shallow depth is due in part to long term sedimentation which existed primarily before the building of the project. A proposal is presently being studied to remove the sediment and channelize the stream.

d. Townshend Lake, VT. Over the past several years siltation has occurred particularly after the August 1976 local flooding. This has created a nuisance to recreation uses of the lake by fouling the beach and boat launching ramp. This problem will be rectified this spring by performing a limited amount of dredging this spring when the pool is lowered for other maintenance.

e. Littleville Lake, MA. Similar to Townshend Lake, minor siltation has affected the channel to the boat ramp. The ramp is still operable, however, if this condition became worse, the channel will be redredged.

NEW ENGLAND REGION

GEOLOGICAL SURVEY

St. John Subregion

Sediment data are being collected on a monthly basis at St. John River at Van Buren, Maine, and at Aroostook River at Caribou, Maine, as a part of the National Stream Quality Accounting Network (NASQAN).

Penobscot Subregion

Sediment data are being collected on a monthly basis at Narraguagus River at Cherryfield, Maine, and at Penobscot River at West Enfield, Maine, as a part of NASQAN.

Androscoggin Subregion

Sediment data are being collected on a monthly basis at Kennebec River at Bingham, Maine, and at Androscoggin River at Brunswick, Maine, as a part of NASQAN.

Sediment data are being collected on a monthly basis for the U.S. Corps of Engineers at Wild River at Gilead, Maine, as a part of the National Hydrologic Benchmark Network.

Maine Coastal Subregion

Sediment data are being collected on a monthly basis at St. Croix River at Milltown, Maine, as a part of NASQAN.

Saco Subregion

Sediment data are being collected on a monthly basis at Saco River at Cornish, Maine, as a part of NASQAN.

Merrimack Subregion

Sediment data are being collected on a monthly basis at Merrimack River above Lowell, Mass., and at Housatonic River at Stevenson, Conn., as a part of NASQAN. Sediment data are being collected on approximately a daily basis at Yantic River at Yantic, Conn., for determining daily sediment load.

Connecticut Subregion

Sediment data are being collected on a monthly basis at Connecticut River at North Walpole, N.H., and at Connecticut River at Thompsonville, Conn., as a part of NASQAN.

Massachusetts-Rhode Island Coastal Subregion

Sediment data are being collected on a monthly basis at Charles River at Charles River Village, Mass., as a part of NASQAN.

St. Francois Subregion

Sediment data are being collected on a monthly basis at Black River at Coventry, Vt., as a part of NASQAN.

Special Studies

Sediment data are being collected on approximately a monthly basis at three sites in the Norwalk River valley in cooperation with the town of Wilton, Conn.

Sediment data were obtained on a storm event basis at twenty-seven sites in the Lake Waramaug drainage basin, as part of a study to obtain water-quality information to be used in the development of a lake management program. The study is being done in cooperation with the Northwest Connecticut Regional Planning Agency.

SOIL CONSERVATION SERVICE

1a. Preliminary studies of sediment damages and determinations of sediment yield are initiated in the following PL-566 watersheds:

Major Drainage	Watershed	Stream	Counties	State
St. John River	Parkhurst Siding	Aroostook R. Tributaries	Aroostook	Maine
Penobscot River	W. Branch Molunkus Str.	W. Branch Molunkus Str.	Aroostook	Maine

1b. Sediment yields were estimated for the following River Basin Investigations:

Major Basin	Basin Reported	State
New England	Connecticut River	Massachusetts
New England	Merrimack River and Narragansett Bay	Massachusetts
New England	Coastal Region	Massachusetts

2. Sedimentation Survey:

Haverhill, Grafton County, New Hampshire

Reservoir	Date of Survey	Drainage Area (Sq Mi)	Length of Record (Yrs)	Orig. Cap. Perm. Pool (Ac-Ft)	Total Deposit (Ac-Ft)	Sediment Accum/Yr (Ac-Ft/Sq Mi)	Capacity Loss (Pct/Yr)
Oliverian	9/26/72	10.6	10.0	175.64	4.04		0.038

2b. Reservoir Surveys for original capacity[1/]

Aroostook County, Maine

Reservoir	Date of Survey	Location	Drainage Area (Sq Mi)	Original Capacity (Ac-Ft)	Age (Yrs)
Trafton	10/17/77	Limestone	4.06	310.(1606[2/])	7.3

[1/] Survey data available for review at SCS state office.

Piscataquis County, Maine

Reservoir	Date of Survey	Location	Drainage Area (Sq Mi)	Original Capacity (Ac-Ft)	Age (Yrs)
Dunham-Davee	10/3/77	Dover-Foxcroft	2.2	35.(10.[2])	7.0

Berkshire County, Massachusetts

Reservoir	Date of Survey	Location	Drainage Area (Sq Mi)	Original Capacity (Ac-Ft)	Age (Yrs)
No. Silver[3]	4/77	Sandisfield	3.7	34.(144.[2])	6.6

Hampden County, Massachusetts

Reservoir	Date of Survey	Location	Drainage Area (Sq Mi)	Original Capacity (Ac-Ft)	Age (Yrs)
Powdermill[3]	6/77	Westfield	4.6	15.0	10.8

Worchester County, Massachusetts

Reservoir	Date of Survey	Location	Drainage Area (Sq Mi)	Original Capacity (Ac-Ft)	Age (Yrs)
Barefoot Bk[3]	6/77	Northborough	1.1	5.0	14.8

3a. SCS-Maine, in cooperation with the Androscoggin Valley Regional Planning Commission, completed a sediment and erosion survey on four small watersheds in Androscoggin County. Major problem areas identified were erosion on cropland, construction sites, borrow pits, roads, road shoulders, and road ditches. Soil losses from sheet and rill erosion on all land uses were computed and tabulated through use of a random sample plot method.

3b. SCS-Maine, in cooperation with the Statewide USDA 208 Committee, initiated a statewide "Study of Non-Point Agricultural Pollution" (SNAP) to identify: the location, extent, and kind of agricultural practices causing water pollution from sediment, animal manure, and agricultural chemicals; and practices causing soil erosion. One phase of this study includes computation of soil erosion rates on all cropland fields over ten acres in size in the state. SNAP is scheduled to be completed during 1978.

[2] Additional permanent storage for multipurpose use.

[3] A summary of watershed geomorphologic, erosion and sedimentation data associated with this reservoir survey is available.

MID ATLANTIC REGION

CORPS OF ENGINEERS

North Atlantic Division

Baltimore District

The only data available on accumulated sediment, collected during 1977, are the following records of the material removed during routine maintenance of flood control projects.

Project Location	Stream	Sediment Removal	Sediment Removed During 1977 (CU YDS)
Arkport Dam, N.Y.	Canisteo River	Intake channel	3,688
Binghamton, N.Y.	Pierce Creek	Belden drop structure at confluence with Susquehanna River	1,352
		upstream of paved channel	1,000
			200
Canisteo, N.Y.	Purdy Creek	Check Dam	1,638
		Check Dam Bucket to Confluence with Bennett Creek	6,644
Corning, N.Y.	Cutler Creek	Above upper drop structure	2,450
		Upper drop structure to twin conduits	3,600
Hornell, N.Y.	Chauncey Run	Check Dams	1,050
	Crosby Creek	Check Dam	500
Lisle, N.Y.	Dudley Creek and Tioughnioga River	Channel at confluence	2,202
Whitney Point, N.Y.	Tioughnioga River	Channel	2,014

New York District

The District conducted sediment samplings and tests at the following stations:

Location	Test Date (1977)
Elizabeth River	26, 28 April, 4 May
Newton Creek	23 June, 14 Sept
Long Island Intracoastal	31 March
Bay Ridge & Red Hook Channels	23 June, 15 Sept
Red Hook Flats Anchorage (Part of N.Y. Harbor Project)	23 June, 15 Sept
Hudson River Channel (N.J. side) Edgewater - Weehawken	23 June, 15 Sept
Hudson River Channel (N.Y. side) NYC Waterford	25 March, 11 July
Raritan River, Main Channel	4, 29 Aug
Cutoff Channel	4 Aug, 15 Sept
Port Chester Harbor	9 Aug
Eastchester Creek	15 Sept
Shoal Harbor	24-25 March
Keyport Harbor	23, 17 June, 29 July, 15 Sept
Newark Bay	17, 20, 24 June, 9 Aug, 4 May 12, 19, 22 April
N.Y. Harbor Sandy Hook	23 June
Ambrose Channel	23 June
Main Ship Channel	23 June, 15 Sept
Anchorage Channel	23 June
Gravesend Bay	23 June, 15 Sept

Westchester Creek	23 June, 29 July
Shrewsbury River	23 June
South Branch	11 Aug
Mamaroneck Harbor	29 July
NY & NJ Channels	29 Aug
Great South Bay	4, 9 Aug
Passaic River	1, 8 March, 19, 22, 26, 29, April 13, 24 June
Hackensack	19 April

Samples from stations for calendar year 1977 were analyzed for the following properties.

Bulk Analysis: Mercury, Cadmium, Arsenic, Lead, Copper, Zinc, Chromium, Nickel, % Water, Oil & Grease, Polychlorinated Biphenyls (PPM), Total Organic Carbon, Loss of Ignition

Elutriate: Cadmium Total Organic Carbon, Cyanide, Total Kjeldahl Nitrogen, Mercury, Nitrate Nitrogen, DDT, Polychlorinated Biphenyls, Phenols

Grain Size: Gravel, Sand, Silt, Clay

Philadelphia District

The only District sedimentation activity during 1977 was the continued financial support of the United States Geological Survey for the collection of sediment data at:

Delaware River at Trenton, New Jersey
Schuylkill River at Berne, Pennsylvania
Schuylkill River at Philadelphia, Pennsylvania
Tulpehocken Creek at Blue Marsh Damsite-Pre-Impoundment Studies

Forest Service

MID-ATLANTIC REGION

George Washington National Forest

Twenty critically eroding areas were stabilized. Debris was selectively removed from nine miles of stream channel. Restoration work resulted in an estimated annual sediment reduction of 1,250 tons.

MID-ATLANTIC REGION

GEOLOGICAL SURVEY

Richelieu Subregion

Sediment data are being collected on a periodic basis at Richelieu River (Lake Champlain) at Rouses Point, N.Y., as a part of NASQAN.

Upper Hudson Subregion

Sediment data are being collected on a daily basis at Hudson River at Waterford, N.Y., for the town of Waterford. Sediment data are also being collected on a daily basis at Mohawk River at Cohoes, N.Y., at Hudson River at Glenn Falls, N.Y., at Hudson River at Schuylerville, N.Y., and at Hudson River at Stillwater, N.Y., in cooperation with the New York State Department of Environmental Conservation.

Sediment data are being collected on a periodic basis at Hudson River at Rogers Island, N.Y., in cooperation with the New York State Department of Environmental Conservation.

Sediment data are being collected on a periodic basis at Hudson River at Green Island, N.Y., as a part of NASQAN.

Sediment data are being collected on a periodic basis at Esopus Creek at Shandaken, N.Y., as a part of the National Hydrologic Benchmark Network.

Lower Hudson Subregion

Sediment data are being collected at Rariton River near South Bound Brook, N.J., as a part of NASQAN.

Delaware Subregion

Sediment data are being collected on a monthly basis at Toms River near Toms River, N.J., and on a daily basis at Delaware River at Trenton, N.Y., as a part of NASQAN.

Sediment data are being collected on a monthly basis at McDonalds Branch in Lebanon State Forest, N.J., as a part of the National Hydrologic Benchmark Network.

Sediment data are being collected on a daily basis at Brandywine Creek at Wilmington, Del., in cooperation with the Delaware Geological Survey.

Sediment data are being collected on a daily basis at two sites on the Schuylkill River, Berne and Manayunk, Philadephia, Pa. The data will be analyzed by the U.S. Corps of Engineers to evaluate the Delaware River dredging program.

Susquehanna Subregion

Sediment data are being collected on a monthly and storm event basis at Young Womens Creek near Renovo, Pa, as part of the National Hydrologic Benchmark Network.

Sediment data are being collected at Juniata River at Newport, Pa., as a Federal sediment index station.

Sediment data are being collected on a daily basis at Tioga River at Lindley, N.Y., and the Chemung River at Chemung, N.Y., in cooperation with the Susquehannah River Basin Commission.

Upper Chesapeake Bay Subregion

Sediment data are being collected on a monthly basis at Choptank River near Greensboro, Md., as a part of NASQAN.

Potomac Subregion

Sediment data are being collected on a daily basis at North Branch Potomac River near Cumberland, Md., and at Monacacy River at Reichs Ford Bridge near Frederick, Md., in cooperation with the Maryland Geological Survey.

Sediment data are being collected on a daily basis at Conococheaque Creek at Fairview, Md., as a part of the Federal CBR program.

Sediment data are being collectd on a monthly basis at Lost River at McCauley near Baker, W. Va., for the U.S. Soil Conservation Service.

Sediment data are being collected at Potomac River at Chain Bridge, Washington, DC, as a part of NASQAN.

Sediment data are being collected on a daily basis at Snakeden Branch at Reston, Va., with an automatic sampler to provide information of sediment transport during high flow.

Lower Chesapeake Bay Subregion

Sediment data are being collected on a daily basis on Rappahanock River at Remington, Va., as a Federal sediment index station.

Sediment data are being collected on a daily basis at Carter Run near Marshall, Va., for the U.S. Soil Conservation Service.

Special Studies

A study, begun in November 1975, is being continued to determine the origin and distribution of various constituents in the runoff from a growth stabilized suburan area to Mill Creek.

Sediment data are being obtained on a daily basis at two sites and on a storm-event basis at five additional sites for a study designed to assess the effect of releases from Round Valley Reservoir upon the chemical, biological, and physical regime of South Branch Rockaway Creek, Rockaway Creek, and Lamington River in New Jersey.

A study begun in July 1971 is being continued to determine the effect on the hydrologic regime of transforming an essentially rural area to a suburban community.

The basic suspended-sediment sampling network established by the New Jersey District is carried out in cooperation with the U.S. Corps of Engineers, N.J. Department of Environmental Protection, and the N.J. Department of Agriculture, Soil Conservation Service. A computer printout is available upon request which lists:

(1) for each water year, the suspended-sediment stations established and the type of suspended-sediment data collected for each station;

(2) all of the stations in New Jersey where suspended-sediment data have been collected and the type of suspended-sediment data for each year when sampled;

(3) a list of reports dealing with suspended-sediment loads in New Jersey.

Requests for the Computer printout should be sent to:

District Chief, WRD
U.S. Geological Survey
P.O. Box 1238
Trenton, N.J. 08607

Daily determination of suspended-sediment concentration at two streamflow sites and determination of suspended-sediment concentration during storm runoff events at three additional sites are a part of a study of Rockaway Creek in New Jersey. Particle-size distribution of material in transport will also be determined. Aggradation-degradation ranges also are being established.

Determination of suspended-sediment concentrations of streamflow during base flow and also during storm runoff events will be made at nine data-collection sites as a part of the Willingboro Non-Point Project in New Jersey.

Sediment data are being collected on a daily basis at two sites and on a base flow and storm-event basis at three additional sites to study changes in sediment yield as the hydrologic regime is transformed from a rural to a suburban community in the Winslow Crossing Project study in New Jersey.

The trap-efficiency study of Bernard Frank Lake near Rockville, Md., continued in cooperation with the U.S. Soil Conservation Service.

Suspended-sediment data are being collected on a daily basis at five stations in the Susquehanna River Basin in Pennsylvania, in cooperation with the Susquehanna River Basin Commission.

A study of non-point sources of sediment, nutrients, and pesticides was started during the 1977 water year in the Pequea Creek Basin in Lancaster County, Pa. Data collection, which will continue through the 1978 water year, includes the operation of an automatic suspended-sediment sampler on the Pequea Creek at Martic Froge, Pa., and the collection of data from six subbasin sites during storm events. The study is in cooperation with the Susquehanna River Basin Commission.

SOIL CONSERVATION SERVICE

1. Studies of sediment damages and determinations of sediment yields were made for work plans in the following watersheds:

   a. Public Law 566

Major Drainage	Watershed	Stream	Counties	State
Potomac River	Seneca Creek	Seneca Creek	Montgomery	Maryland
Potomac River	Piscataway[1/] Creek	Piscataway Creek	Prince Georges	Maryland
Delaware	Deposit	Bone Creek	Delaware	New York
Long Island Sound	Blind Brook	Blind Brook	Westchester	New York
Rappahannock	Carter Run	Carter Run	Fauquier	Virginia

   b. River Basin Investigations

Major Basin	Basin Reported	State(s)
Hudson River	Lower Hudson	New York

[1/] Preliminary Studies

2. Sedimentation Surveys

New York

Reservoir	Date of Survey	Location	Drainage Area (Sq Mi)	Orig. Cap. (Ac-Ft)	Age (Yrs)	Sediment Accum/Yr (Ac-Ft/Sq Mi)	Capacity Loss (Pct/Yr)
Batavia Kill 4A	6/77	42°20'N 74°15'W	6.8	1562.7	7.0	0.16	0.01
Patterson Ck-Site 1	10/77	42°08'N 76°01'W	4.3	891.40	9.0	0.13	.06
L. Choconut Ck-Site 2B	10/77	42°11'N 75°58'W	1.64	272.0	9.0	0.05	.03

Virginia

Reservoir	Date of Survey	Location	Drainage Area (Sq Mi)	Orig. Cap. (Ac-Ft)	Age (Yrs)	Sediment Accum/Yr (Ac-Ft/Sq Mi)	Capacity Loss (Pct/Yr)
Johns Creek Site #1	5/77	Craig County	18.05	135.89	9.75	0.0737	0.893
Little Falling River #1	6/77	Appomattox County	14.06	216.1	9.5	0.099	0.06

West Virginia

Reservoir	Date of Survey	Location	Drainage Area (Sq Mi)	Orig. Cap. (Ac-Ft)	Age (Yrs)	Sediment Accum/Yr (Ac-Ft/Sq Mi)	Capacity Loss (Pct/Yr)
Patterson Creek No. 4	9/26/77	39°10'51"N 79°04'21"W	7.73	1298.0	11.25	0.095	0.056

Pennsylvania

Reservoir	Date of Survey	Location	Drainage Area (Sq Mi)	Orig. Cap. (Ac-Ft)	Age (Yrs)	Sediment Accum/Yr (Ac-Ft/Sq Mi)	Capacity Loss (Pct/Yr)
North Fork Cowanesque River	7/77	41°59'44"N 77°38'58"W	3.4	654.13	14.9	0.166	0.03

3.

Maryland

Program 208 studies were concluded in April 1977 for the Baltimore Regional Planning Areas of Baltimore City and County, and Howard, Anne Arundel, Carroll, and Harford Counties.

Program 208 studies were also undertaken in December on the Washington COG area.

New Jersey

An erosion and sediment inventory was prepared by the Sussex-Warren Resource Conservation and Developed Project for Sussex and Warren Counties, New Jersey. The final report was released in April 1977. This inventory was based on the EASI (Erosion and Sediment Inventory) study performed by the New York SCS Office in 1975.

SOUTH ATLANTIC - GULF REGION

CORPS OF ENGINEERS

South Atlantic Division

Charleston District

A major flood occurred at W. Kerr Scott Reservoir in November 1977. This flood produced a new period of record pool elevation of 1061.20. An assessment will be made soon as to the necessity of resurveying the sediment ranges and should this assessment confirm the need for these, authority will be requested. The last range surveys were taken in May 1971.

Jacksonville District

Sediment load measurements were made intermittently on Rio Bucana and Rio Portugues Basins in Puerto Rico and St. Lucie Canal in Florida.

Mobile District

Sedimentation Monitoring Range Networks

a. The original range network to provide the means to monitor changes due to aggradation or degradation in two projects was completed during the year. They are: West Point Dam, Georgia, on the Chattahoochee River and Gainesville Lock and Dam, Alabama, on the Tombigbee River.

b. The establishment of the range network for the Aliceville Lock and Dam, Alabama on the Tombigbee River, was initiated in 1977. This work is scheduled to be completed in the first quarter of 1978.

Suspended Sediment Investigations - - During the year data were obtained on a daily basis from five locations. Four stations, Columbus, Aberdeen, Amory and Fulton, Mississippi, are located on the Tombigbee River. The remaining station, Claiborne, Alabama, is located on the Alabama River. Additionally, there are 26 stations located in the Tombigbee drainage basin where suspended sediment samples are obtained at about 5-week intervals. Ten stations were discontinued during 1977. The stations are: Columbus, Hamilton, Aberdeen, Greenwood Springs and Gattman, Mississippi; Sulligent, Henson Springs, Fulton Bridge and Hamilton, Alabama. These stations were all located on the Buttahatchee River. The remaining discontinued station was located on the Chattahoochee River at West Point, Georgia.

Sedimentation Studies

a. A study to determine the natural sedimentation characteristics of the Buttahatchee River in Mississippi was concluded in 1977. The study consisted of the definition of the amount of suspended and bed material transported by the river at nine locations over the lower 83 miles of its course.

b. Similar studies began during the year on three streams in Mississippi. These streams which are tributaries to the Tombigbee River are: Tibbee River, Twenty-mile Creek and Little Brown Creek.

c. During 1977 studies were begun of two river cut-offs that were formed by the construction of the Tennessee-Tombigbee navigation channel. The purpose of these studies is to determine the sediment deposition rate in the cut-off river sections.

d. A study was begun in 1977 of Wilson's Slough, a distributary of the Pearl River. The purpose of this study is to determine the sedimentation characteristics of the reach and the relationship of sediment deposition and scour to changes in streamflow patterns.

e. The study of Daniel Creek, a tributary of the Black Warrior River, continued through the year. The focus of the study is to document the relationship of sediment deposition in the creek to stripmining activities in its basin.

Sedimentation Design Memoranda

a. The sedimentation design memorandum for the Aliceville Lock and Dam project was completed during the past year. This memorandum is the second in a series of five sedimentation memoranda for the Tennessee-Tombigbee Waterway. The sedimentation design memorandum for the Tallahala Dam project, Mississippi was completed in December 1977.

b. Work began last year on the Columbus Sedimentation Design Memorandum. The Columbus Lock and Dam project, located in Mississippi, is the next upstream project from the Aliceville project on the Tenn-Tom Waterway. The memorandum is scheduled to be completed in March 1978.

Savannah District

Sedimentation ranges were established at Hartwell and Clark Hill Lakes prior to impoundment. Subsequent resurveys of ranges indicate that no appreciable accretion of sediment has been experienced at either lake. In order to provide adequate monitoring of the lakes, periodic surveys are conducted at 5-year intervals.

The District was not actively involved on any sedimentation monitoring programs during calendar year 1977. A sediment data collection and monitoring program is planned in connection with Peachtree-Nancy Creeks Flood Control Study. This study will be initiated during the AE&D stage.

Wilmington District

Sedimentation Surveys.

a. John H. Kerr Dam and Reservoir, Roanoke River, Va and N. C. The sedimentation ranges at Kerr were resurveyed during 1976 in order to determine the amount of storage lost to sedimentation since the last survey was made in 1959-60. Equipment used was a 17-foot fiberglass boat, a Raytheon Model 719-B Fathometer with narrow beam transducer, an Interspace Technology Model 412 Digitizer, a Systron-Donner Model 5103 digital printer and a Tellurometer Model CA-1000-D range meter. Data will be analyzed and a report prepared just as soon as higher priority work will permit. When adjustments are made in the reservoir capacity curve, the dependable capacity of the project will be redetermined and power sales contracts modified to reflect the new dependable capacity.

b. Philpott Lake, Smith River, Va. The sedimentation ranges at Philpott were resurveyed during 1976 in order to determine the amount of storage lost to sedimentation since the last resurvey was made in 1960. Equipment was the same as listed for John H. Kerr. Data are being analyzed and preparation of a report of the resurvey are underway. The report should be completed in 1978. The dependable capacity of Philpott will be redetermined, if necessary, but not until both Kerr and Philpott can be redetermined together.

Sediment Load Measurement. Two suspended sediment sampling stations (at Randolph, Virginia on Roanoke River and at Paces, Virginia on Dan River) upstream from John H. Kerr Reservoir were operated. The data (suspended sediment, particle size, chemical analysis and temperature) were used in connection with operation and maintenance of reservoir project.

Forest Service

SOUTH ATLANTIC - GULF REGION

National Forests in Florida

Turbidity was monitored on some of the 20 water quality stations to evaluate the effects of management activities.

Chattahoochee-Oconee National Forests

Water quality was monitored at 20 stations. Turbidity and/or suspended sediment was monitored at some of these stations in order to evaluate the effects of management activities on the water resource. About five acres of old eroding woods roads were rehabilitated resulting in an estimated annual reduction of 250 tons of sediment.

Francis Marion and Sumter National Forests

Critically eroding land on 123 acres was rehabilitated resulting in an estimated annual sediment reduction of 6,150 tons.

National Forests in Alabama

Water quality was monitored at 20 stations. Turbidity was measured at several of these stations in order to evaluate the timpacts of management activities on the water resource.

National Forests in Mississippi

Water quality was monitored at 30 stations. Turbidity was monitored at several of these stations to evaluate the impacts of management activities on the water resource.

National Forests in North Carolina

Ten critically eroding areas were stabilized resulting in an estimated 500 tons of sediment reduction annually.

River Basin Studies

The Yadkin Pee Dee Basin and the Black Warrior River Basin were field sampled to predict the erosion rates associated with the various forest management practices. The analysis will be completed in 1978 with the report to follow.

SOUTH ATLANTIC-GULF REGION

GEOLOGICAL SURVEY

Chowan-Roanoke Subregion

Sediment data are being collected daily during flood events and at 7-day intervals for periods of medium to low flows at Dan River at Paces, Va., and at Roanoke River at Randolph, Va., in cooperation with the U.S. Corps of Engineers.

Neuse-Pamlico Subregion

Sediment data are being collected on a daily basis at the main station on the Chicod Creek and on a monthly basis at three sites in the Chicod Creek watershed near Grimesland, N.C., in cooperation with the U.S. Soil Conservation Service.

Pee Dee Subregion

Sediment data are being collected on a monthly basis at Scape Ore Swamp near Bishopville, S.C., as a part of the National Hydrologic Benchmark Network.

Sediment data are being collected on a monthly basis at Lynches River at Effingham, S.C., and at Black River at Kingstree, S.C., as a part of NASQAN.

Sediment data are being collected at the Yadkin River at Yadkin College, N.C., as a Federal Sediment Index Station.

Santee-Edisto Subregion

Sediment data are being collected on a monthly basis at Lakes Marion - Moultrie Diversion Canal near Pineville, S.C., at Edisto River near Gruhons, SC, and at Coosawhatchie River near Hampton, S.C., as a part of NASQAN.

Savannah-Ogeechee Subregion

Sediment data are being collected on a monthly basis at Upper Three Runs near New Ellenton, S.C., as a part of the National Hydrologic Benchmark Network.

Sediment data are being collected on a monthly basis at Savannah River near Clyo, Ga., as a part of NASQAN.

Sediment data are being collected on a periodic basis at Chattoga River near Clayton, Ga., at Broad River near Bell, Ga., and at Ogeechee River near Eden, Ga., in cooperation with the Georgia Department of Natural Resources, Geological and Water Resources Division.

Altamaha-St. Marys Subregion

Sediment data are being collected on a monthly basis at Falling Creek near Juliette, Ga., as a part of the National Hydrologic Benchmark Network.

Sediment data are being collected on a monthly basis at one site in Florida as a part of NASQAN.

Sediment data are being collected at Alcovy River near Covington, Ga., at Middle Oconee River near Athens, Ga., at Altamaha River near Doctortown, Ga., and at Satilla River at Atkinson, Ga., in cooperation with the Georgia Department of Natural Resources, Geologic and Water Resources Division.

St. Johns Subregion

Sediment data are being collected on a periodic basis at three sites in Florida as a part of NASQAN.

Southern Florida Subregion

Sediment data are being collected on a periodic basis at four sites in Florida as a part of NASQAN.

Peace-Tampa Bay Subregion

Sediment data are being collected on a periodic basis at three sites in Florida as a part of NASQAN.

Suwannee Subregion

Sediment data are being collected on a periodic basis at one site in Florida as a part of NASQAN.

Sediment data are being collected at Alapaha River near Alapaha, Ga., in cooperation with the Georgia Department of Natural Resources, Geologic and Water Resources Division.

Ochlockonee Subregion

Sediment data are being collected on a periodic basis at one site in Florida as a part of NASQAN.

Sediment data are being collected on a periodic basis at one site in Florida as a part of the National Hydrologic Benchmark Network.

Apalachicola Subregion

Sediment data are being collected on a periodic basis at two sites in Florida as a part of NASQAN.

Sediment data are being collected on a periodic basis at Chattahoochee River near Cornelia, Ga., at Peachtree Creek at Atlanta, Ga., at Kinchafoonee Creek near Preston, Ga., at Line Creek near Senoia, Ga., and at Ichawaynochaway Creek at Milford, Ga., in cooperation with the Georgia Department of Natural Resources, Geologic and Water Resources Division.

Choctawhatchee-Escambia Subregion

Sediment data are being collected on a periodic basis at three sites in Florida as a part of NASQAN.

Alabama Subregion

Sediment data are being collected on a periodic basis at Etowah River near Canton, Ga., in cooperation with the Georgia Department of Natural Resources, Geologic and Water Resources Division.

Sediment data are being collected on a monthly basis at Alabama River at Montgomery, Ala., and at Alabama River at Claiborne, Ala., as a part of NASQAN.

Mobile-Tombigbee Subregion

Sediment data are being collected on a monthly basis at Tombigbee River at Gainesville, Ala., and at Tombigbee River at Coffeeville lock and dam, Ala., as a part of NASQAN.

Sediment data are being collected on a monthly basis at Sippey Fork near Grayson, Ala., as a part of the National Hydrologic Benchmark Network.

Sediment data were collected on a daily basis, until being discontinued April 13, 1977, at Turkey Creek at Merris, Ala., and discontinued March 28, 1978, at Turkey Creek upstream from Kimberly, Ala.

Sediment data were collected on a daily basis by automatic sampler, until being discontinued July 29, 1977, at Crooked Creek near Sardis, Ala.

Sediment data are being collected during flood events at two stations in the Turkey Creek basin, Jefferson County, Ala., and at one station in the Crooked Creek basin, Ala.

Sediment data are being collected during flood-events at Mackeys Creek near Dennis, Miss., at Yellow Creek near Doskie, Miss, and at Yellow Creek at Cross Roads, Miss., in cooperation with the U.S. Corps of Engineers, to estimate the impact of sediment loads on the Tennessee-Tombigbee Waterway.

Pascagoula Subregion

Sediment data are being collected on a monthly basis at two sites in Mississippi as a part of NASQAN.

Sediment data are being collected in a monthly and storm-event basis at Cypress Creek near Janice, Miss., as a part of the National Hydrologic Benchmark Network.

Pearl Subregion

Sediment data are being collected on a daily basis at Pearl River near Bogulusa, La., as a part of the Federal CBR program.

Sediment data are being collected on a monthly basis at Bogue Chitto River near Bush, La., as a part of NASQAN.

Special Studies

Suspended-sediment sampling by an automatic sampler was continued on Yellow Creek near Northport, Ala., and on Bear Creek near Samantha, Ala., as part of a study of coal-mine hydrology in cooperation with the Bureau of Land Management. Samples were collected monthly and during flood events at three additional sites in the Yellow Creek basin, one additional site in the Bear Creek basin, one site on Turkey Creek (Tuscaloosa County) near Tuscaloosa, Ala., and at Blue Creek near Oakman, Ala. Intermittent samples were collected on a tributary to Rocky Branch near its mouth in Tuscaloosa County.

In mid 1975, a study was begun to evaluate sediment-transport characteristics of gaged streams in the Coastal Plain region of North Carolina. In March 1977, the program was expanded to include all gaging stations in the State which had not been evaluated by an earlier program in 1969-73. Approximately 120 stations are in the current program. Sediment-transport curves, annual suspended-sediment yields, and other data will be determined for each site, all of which are located at continuous gaging stations. The work is conducted in cooperation with the North Carolina Department of Natural Resources and Community Development.

A 5-mile reach of the Black River will be channelized in late 1978 to alleviate flooding at Dunn, Harnett County, N.C. The collection of suspended sediment and other hydrologic data was begun in early 1977 to determine the effects of channel construction on stream characteristics. The project is conducted in cooperation with the U.S. Corps of Engineers.

Sediment discharge and river quality data have been collected at 15 sites in the Blue Ridge and Piedmont Provinces. Interpretation of these data indicate strong, positive correlations between water discharge and sediment concentration at every sampling site. Positive correlations between suspended fines (0.062 mm) and concentrations of metals, organic carbon, phosphorus, and nitrogen in suspension have also been noted. Computed values of gross erosion in selected tributary basins using the Universal Soil Loss Equation have been compared with average annual sediment discharges to computer sediment delivery ratios. A comprehensive report is currently in preparation. Sediment sampling during storm events was initiated in two agricultural basins in southwest Georgia in conjunction with an ongoing study of the effects of agricultural runoff on receiving waters.

SOIL CONSERVATION SERVICE

1. Studies of sediment damages and determinations of sediment yields were made for work plans in the following watersheds during 1977:

a. Public Law 566

Major Drainage	Watershed	Stream	County(s)	State(s)
Catawba River	Stony Fork	Stony Fork Cr.	York	S. Carolina
Tugaloo River	Beaverdam Creek (revision)	Beaverdam Cr.	Oconee	S. Carolina
Yadkin River	Tri-Creek	Grants, Town, & Crane Creeks	Rowan	N. Carolina
Northeast Cape Fear River	Limestone-Muddy Creek	Limestone & Muddy Creek	Duplin	N. Carolina

b. Resource Conservation and Development Program

Major Drainage	Watershed	Stream	County(s)	State(s)
Black River	Riverside	Long & Nancy Branches	Lee	S. Carolina
Chestatee-Chatahootchie			Habersham	Georgia
Gwinnett County			Gwinnett	Georgia
Coastal			Liberty	Georgia

c. River Basin Investigations

Major Drainage	Basin Reported	State
Tar-Neuse	Tar-Neuse	N. Carolina

d. Special Studies - Environmental assessments for operational projects.

Project Name	County	State
Soque	Habersham	Georgia
Pine Log Tributary	Gordon	Georgia
Sallacoa Creek Area	Gordon	Georgia

GREAT LAKES REGION

GEOLOGICAL SURVEY

Western Lake Superior Subregion

Sediment data are being collected on a daily and storm-event basis at Nemadji River near Superior, Wis., at Little Balsam Creek near Patzau, Wis., Pine Creek near Moquah, Wis., and at Little Balsam Creek near Foxboro, Wis.

Sedient data are being collected on an intermittent and storm-event basis at Bois Brule River at Brule, Wis., at Little Balsam Creek at Patzau, Wis., at Tributary to Little Balsam Creek near Patzau, WI. at Pine Creek at Moquah, Wis., and at Tributary to Pine Creek at Moquah, WI.

Sediment data are being collected on a periodic and storm-event basis at Bad River near Odanah, Wis., at Baptism River near Beaver Bay, Minn., and at St. Louis River at Scanlon, Minn., as a part of NASQAN.

Sediment data are being collected on a daily basis by an automatic sampler at Elim Creek near Holyoke, Minn., at Skunk Creek below Elim Creek near Holyoke, Minn., and at Deer Creek near Holyoke, Minn., for the Red Clay Project for the Soil and Water Conservation District in Douglas County, Wisconsin.

Southern Lake Superior Subregion

Sediment data are being collected on a intermittent basis at Washington Creek at Windigo (Isle Royals), Minn., as a part of the National Hydrologic Benchmark Network.

Sediment data are being collected on a monthly basis at Ontonagon River near Rockland, Minn., and at Tahquamenon River near Tahquamenon, Minn., as a part of NASQAN.

Northwestern Lake Michigan Subregion

Sediment data are being collected on a weekly and storm-event basis at People River near Fence, Wis., as a part of the National Hydrologic Benchmark Network.

Sediment data are being collected on a periodic and storm-event basis at Fox River at Wrightstown, Wis., at Ford River near Hyde, Mich., and at Escanaba River at Cornell, Mich., as a part of NASQAN.

Southwestern Lake Michigan Subregion

Sediment data are being collected on a periodic and storm-event basis at Milwaukee River at Milwaukee, Wis., as a part of NASQAN.

Sediment data are being collected on a periodic and storm-event basis at Jefferson Park Drainage Way at Germantown, Wis.

Sediment data are being collected at Trail Creek at Michigan City, Ind., and Galena River near LaPorte, Ind., for the State of Indiana.

Southeastern Lake Michigan Subregion

Sediment data are being collected on a weekly basis at Pigeon Creek near Angola, Ind., for the State of Indiana.

Sediment data are being collected on an intermittent basis at North Branch Elkhart River at Cosperville, Ind., for the State of Indiana.

Sediment data are being collectd on a high-flow only basis at Elkhart River at Goshen, Ind., for the State of Indiana.

Sediment data are being collected on a daily basis until May 15, 1977, at Beebe Creek near Hillsdale, Mich., at Sand Creek at Litchfield, Mich., at Soap Creek near Litchfield, Mich., and at St. Joseph River at Clarendon, Mich., to determine the effects of agricultural land use practices on erosion in the Upper St. Joseph River Basin for the Michigan Department of Agriculture. Additional sediment data are being collected on a periodic basis at 13 sites and on a miscellaneous basis at 26 sites in the basin.

Sediment data are being collected on a monthly basis at Kalamazoo River at Saugatuck, Mich., as a part of NASQAN.

Northeastern Lake Michigan Subregion

Sediment data are being collected on a monthly basis at Manistique River above Manistique, Mich., at Muskegon River near Bridgeton, Mich., and at Manistee River at Manistee, Mich., as a part of NASQAN.

Northwestern Lake Huron Subregion

Sediment data are being collected on a monthly basis at Cheboygan River at Cheboygan, Mich., as a part of NASQAN.

Southwestern Lake Huron Subregion

Sediment data are being collected on a monthly basis at Rifle River near Sterling, Mich., and at Saginaw River at Saginaw, Mich., as a part of NASQAN.

St. Clair-Detroit River Subregion

Sediment data are being collected on a monthly basis at Clinton River at Mt. Clemons, Mich., and at Detroit River at Detroit, Mich., as a part of NASQAN.

Western Lake Erie Subregion

Sediment data are being collected on a daily basis at Maumee River at Waterville, Ohio, in cooperation with U.S. Environmental Protection Agency and the International Joint Commission, U.S. Department of State.

Southern Lake Erie Subregion

Sedmient data are being collected on a weekly and storm-event basis at Rock River near Berea, Ohio, and at Chagrin River at Willoughby, Ohio, for the Three River Watershed District, Cleveland, Ohio.

Sediment data are being collected on a daily basis at Cuyahoga River at Old Portage, Ohio, and at Tinkers Creek at Bedford, Ohio, for the Three Rivers Watershed District.

Sediment data are being collected on a daily basis at the following sites in cooperation with the U.S. Corps of Engineers, Buffalo District:

Cuyahoga River at Independence, Ohio
Cuyahoga River at Peninsula, Ohio
Mud Brook near Akron, Ohio
Yellow Creek near Botzum, Ohio
Furnace Run near Everett, Ohio
Brandywine Creek near Jaite, Ohio
Chippewa Creek near Brecksville, Ohio
Euclid Creek near Euclid, Ohio

Southwestern Lake Ontario Subregion

Sediment data are being collected on a periodic basis at Niagara River (Lake Ontario) at Fort Niagara, N.Y., and at Genesee River at Charlotte Docks at Rochester, N.Y., as a part of NASQAN.

Sediment data were collected on a periodic and storm-event basis from April, 1977, to September, 1977, at Genesee River at Houghton, N.Y., and from December, 1976, to September, 1977, at Mill Creek at Perkinsville, N.Y., in cooperation with the International Joint Commission-New York State Department of Environmental Conservation for the Genesee River Watershed study.

Sediment data are being collected on a periodic and storm-event basis at the following sites in cooperation with the International Joint Commission-New York State Department of Environmental Conservation for the Genesee River Watershed study:

Genesee River at Transit Bridge near Angelica, N.Y.
Sugar Creek near Canaseraga, N.Y.
Canaseraga Creek above Dansville, N.Y.
Stony Brook at Stony Brook State Park, N.Y.
Mill Creek at Patchinville, N.Y.
Mill Creek near Dansville, N.Y.
Mill Creek at Dansville, N.Y.
Canaseraga Creek at Groveland, N.Y.
Bradner Creek near Dansville, N.Y.
Bradner Creek near Sonyea, N.Y.
Keshequa Creek at Nunda, N.Y.
Keshequa Creek at Tuscarora, N.Y.
Keshequa Creek at Craig Clony, Sonyea, N.Y.
Oatka Creek at Rock Glen, N.Y.
Oatka Creek at Warsaw, N.Y.
Pearl Creek at Pearl Creek, N.Y.
Oatka Creek near Pavilion Center, N.Y.
Mud Creek near LeRoy, N.Y.

Southeastern Lake Ontario Subregion

Sediment data are being collected on a periodic basis at Oswego River at Lock 7 at Oswego, N.Y., as a part of NASQAN.

Northeastern Lake Ontario-St. Lawrence Subregion

Sediment data are being collected on a periodic basis at Black River at Watertown, N.Y., at St. Regis River at Brashen Center, N.Y., and at St. Lawrence River at Cornwall, Ontario, near Massena, N.Y., as a part of NASQAN.

Special Studies

Bed material samples from a number of sections along a reach of the Muskegon River from Croton Dam to Bridgeton were collected and analyzed for particle-size distribution. These data were collected in cooperation with the Michigan Department of Natural Resources.

GREAT LAKES REGION

SOIL CONSERVATION SERVICE

1. Continuing or initial studies of sediment yield were made in the following watersheds:

   a. Public Law 566

Major Drainage	Watershed	Stream	County(s)	State
Lake Michigan	Upper Maple River	Maple River	Shiawassee Gratiot	Michigan
Lake Huron	Au Gres River	Au Gres River	Ogemaw Iosco Arenac	Michigan
Lake Michigan	Kewaunee River	Kewaunee River	Brown Kewaunee	Wisconsin

   b. Resource Conservation and Development

Major Drainage	Watershed	Stream	County	State
Great Lakes	Conneaut Creek	Thatcher Run	Crawford	Pennsylvania

   c. River Basin Investigations:

Major Drainage	Basin Reported	State
St. Lawrence River	LaPlatte River (to Lake Champlain)	Vermont

This study was done as part of the Lake Champlain Level B Study. An estimate of sediment delivered to Lake Champlain by the LaPlatte River was made. Sources of this sediment include sheet and rill, construction, road and roadbank and streambank erosion.

2. Reservoir Sediment Surveys

   The following reservoir sediment survey was made in Cheboygan County, Michigan in 1976, but was not previously reported:

Reservoir	Date of Survey	Location Sec	Twp	Rge	Drainage Area (Sq Mi)	Original Capacity (Ac-Ft)	Age (Yrs)	Sediment Accum/Yr (Ac-Ft/Sq Mi)	Capacity Loss (Pct/Yr)
Little Black, Site A	9/76	22	38N	2W	9.7	275	16	0.009	0.03

CORPS OF ENGINEERS

Ohio River Division

Report on sedimentation activities in the Ohio River Division for calendar year 1977 is as follows:

Sedimentation Resurveys.

a. Deer Creek Lake, Deer Creek, Ohio. The report on the 1975 sediment range resurvey at Deer Creek Lake, as revised in response tc division comments, was approved by the Ohio River Division in 1977. The sedimentation rate in the seasonal pool area, indicated by the resurvey of eight sediment ranges, was 0.08 acre-foot per year per square mile of contributing drainage area. The time period covered was the 6.9 years prior to February 1975.

b. Tom Jenkins (Burr Oak) Lake, East Branch of Sunday Creek, Ohio. The report on the 1975 sedimentation reconnaissance was approved by the Ohio River Division in 1977, after revision in response to division comments. The 1975 resurvey of seven sediment ranges indicated an annual sedimentation rate of 0.34 acre-foot per square mile of contributing drainage area above Tom Jenkins (Burr Oak) Lake. The period covered by the report was from February 1952 to August 1975.

c. Fishtrap Lake, Levisa Fork, Kentucky. Division comments on the report of the 1975 sedimentation survey at Fishtrap Lake were answered and the report approved by the Ohio River Division in 1977. A resurvey of the sediment ranges at Fishtrap Lake was completed in 1977 and a report on the results of this latest resurvey is scheduled to be completed by the Huntington District in 1978.

d. East Lynn Lake, Twelvepole Creek, West Virginia. A sediment range layout at East Lynn Lake, Design Memorandum No. 16, was submitted to and approved by the Ohio River Division in 1977. The sediment range network consists of 35 ranges.

e. Charles Mill Lake, Black Fork of Mohican River, Ohio. The report on the 1975 reconnaissance of four sediment ranges was submitted to the Ohio River Division for review and, after revision in accordance with division comments, was approved in 1977. The indicated rate of sedimentation was 0.37 acre-foot per year/square mile of contributing drainage

area for the period since storage in the lake began in June 1938. The computed sedimentation rate was based on a limited amount of field data.

f. Dewey Lake, Johns Creek, Kentucky. A resurvey of the sediment ranges at Dewey Lake was completed in 1977. A report on the results of the resurvey is scheduled for completion by the Huntington District in 1978.

g. Monroe Lake, Salt Creek, Indiana. Resurvey of existing ranges and layout and initial survey of 11 new ranges were completed in FY 1977. Comparison with 1972 ranges showed no sediment problems at Monroe. A report will be forthcoming.

h. Middlesboro, Kentucky--Bennets Fork Diversion Canal. Sediment ranges at the Bennets Fork Diversion Canal were surveyed after the 4-5 April 1977 flood. Results of this survey indicated that a significant amount of sediment was deposited by the April flood. Funds have been provided for the removal of sediment to restore the channel to design dimensions. A contract is presently being written to accomplish this work for the reach of the canal from station 65+00 (35th Street Bridge) upstream to station 0+00 (Winchester Avenue Bridge).

i. Lake City, Tennessee--Coal Creek Channel Improvement. Sediment ranges at the Coal Creek Channel Improvement project were surveyed after the April 1977 flood. Results of this survey, when compared to a previous survey made in 1975, show that no significant accumulation has occurred. However, a continued buildup of sediment has occurred since construction of the project in 1957. This buildup is due mainly to a lack of annual maintenance on the part of the city and not to any single event such as the April 1977 flood.

j. Barbourville, Kentucky--Cumberland River Levee. Typical cross-sections of the Cumberland River at Barbourville, Kentucky, were surveyed after the April 1977 flood and compared to similar cross-sections taken in 1973. Results of this survey show that the channel has undergone some slight aggradation, but not to an extent in which the channel conveyance is reduced significantly.

k. Pineville, Kentucky-- Cumberland River Floodwall and Levee. Typical cross-sections of the Cumberland River at Pineville, Kentucky, were surveyed after the April 1977 flood and compared to similar cross-sections obtained in 1973. The only change indicated is a slight degradation of the channel.

1. During October 1977, a special survey was conducted in Harlan County, Kentucky, for the purpose of defining specific locations on streams where sediment buildup has occurred and removal of which would provide some small reduction in the heights of lesser floods. This study was done at the request of the "Volunteers for Flood Control Committee," a local interest citizens group representing Harlan County. A letter report was submitted to the aforementioned committee on 12 December 1977, which included our recommendations for removal of sediment bars with maps, cross-sections, and volume estimates at each location.

Initial Range Surveys and Range Layouts

a. Design Memoranda for sediment range networks at R. D. Bailey Lake, Guyandot River, West Virginia; Alum Creek Lake, Alum Creek, Ohio; and at Beach Fork Lake, Beach Fork, West Virginia, were submitted to the Ohio River Division for review and approval in 1977.

b. Layout and initial survey of sedimentation ranges at Caesar Creek and East Fork Lakes were completed in FY 1977.

c. Sedimentation ranges for Martins Fork Lake were established during calendar year 1977. Control surveys for range monumentation have not been completed at present. Submission of the draft Sediment Range Layout Report for division approval is planned by the end of FY 78.

Sediment Load Measurements

a. Fishtrap Lake, Levisa Fork, Kentucky, and Dewey Lake, Johns Creek, Kentucky. Suspended sediment data were collected at the Levisa Fork at Big Rock, Virginia, and Johns Creek at Meta, Kentucky, stations by the U.S. Geological Survey in cooperation with the Huntington District. The district collected suspended sediment data on four tributary streams in the Fishtrap Lake drainage basin and on three tributary streams in the Dewey Lake drainage basin in 1977.

b. R. D. Bailey Lake, Guyandot River, West Virginia. The sediment monitoring program initiated in 1973, in cooperation with the U.S. Geological Survey, continued during 1977. Sediment data were collected at the Guyandot River near Baileysville, West Virginia, monitoring station and at stations on nearby tributary streams, Clear Fork and Indian Creek.

c. In January 1976 a sediment control structure was constructed as a pilot study on Defeated Creek, a major sediment contributing tributary of Carr Fork Lake. In order to assess the effects of the sediment dam on the total sediment load in the Carr Fork Basin and to evaluate the efficiency of this type structure for possible implementation elsewhere, a monitoring program was established. The program consists of using an automatic stage activated sediment sampler in conjunction with a stage recorder to measure the discharge and the quantity and size distribution of incoming suspended sediment from Defeated Creek. Comparison of periodic surveys of the area above the dam will yield the amount of trapped sediment. For the period of January 1976-November 1977, a trapping rate of 2.0 acre-ft./sq.mi./yr. was observed.

d. A stream sediment monitoring program at sites on Martins Fork and Crane Branch continued through 1977. Sampling at these locations is to continue until impoundment of Martins Fork Lake in the fall of 1978. Analysis of the data will be completed at that time.

e. Tennessee-Tombigbee Waterway. Objectives of the monitoring efforts on Yellow and Mackeys Creeks are to establish pre-project sediment conditions with a follow-up during construction and operation phases of the Tennessee-Tombigbee Waterway.

f. New River, Tennessee. Objectives of the New River monitoring effort is to establish baseline conditions to determine the effectiveness of future reclamation of strip-mined land in the watershed. The station will also monitor inflows into the BSFNRRA (Big South Fork National River & Recreational Area) for operational purposes.

Additional Division Activities

a. Sedimentation Study.

(1) A sedimentation study is being conducted in the lower reaches of the Big Sandy River. The Big Sandy River discharges into the Ohio River between Huntington, West Virginia, and Ashland, Kentucky, in the pool created by Greenup Dam. The Greenup project is one of a series of locks and dams on the Ohio River and the pool formed by the dam extends up the Big Sandy River.

(2) The objective of the study is to determine the feasibility of using a dike, or dikes, to maintain sediment movement through the lower reach of the Big Sandy River to the Ohio River. Dredging required to maintain a navigation channel in this area would thus be reduced.

(3) In July 1977, field data consisting of river bed material samples, suspended sediment samples and velocity measurements were collected. Suspended sediment data is being collected at the Tug Fork at Glenhayes, West Virginia, and Levisa Fork at Paintsville, Kentucky, gaging stations. Tug Fork and Levisa Fork are major tributaries of the Big Sandy River upstream of the study reach. A mathematical model of the study reach is being prepared by the Waterways Experiment Station at Vicksburg, Mississippi, to assess the effects of various dike schemes.

b. Efforts are underway to determine the costs and impacts of spoiling dredged materials on surface mine scars. Selection of test sites will be made in 1978.

c. The Corps has been asked to prepare a plan of study "Runoff Impacts Due to Land Use in the Big Sandy and Upper Cumberland River Basins." The request came from the subcommittee on Environment, Energy and Natural Resources--Congressman Leo J. Ryan is chairman. Huntington and Nashville Districts were assigned the mission with a draft due date of February 1978.

OHIO REGION

Jefferson National Forest

Water quality was monitored at five stations. Two acres of critically eroding lands were stabilized resulting in a sediment reduction of 100 tons annually.

Daniel Boone National Forest

The Forest monitored water quality at 36 stations. Turbidity was measured at several of these stations in order to evaluate the impacts of management activities on the water resource. Fifty-eight acres of critically eroding areas were stabilized resulting in an estimated sediment reduction of 2,900 tons annually.

River Basin Study

The Kentucky River Basin's forest land was field sampled to predict erosion rates associated with forest management practices. The analysis will be completed in 1978 with the report to follow.

OHIO REGION

GEOLOGICAL SURVEY

Monongahela Subregion

Sediment data are being collected about monthly at Shavers Fork at Bemis, W. Va., and at Shavers Fork near Elkins, W. Va., in cooperation with the West Virginia Department of Highways.

Sediment data are being collected on a daily basis at Taylor Run at Bowden, W. Va., at Shavers Fork above Bowden, W. Va. and at Shavers Fork below Bowden, W. Va., as part of the Shavers Fork Basin Cooperative Program with the West Virginia Department of Highways.

Sediment data are being collected at fourteen sites in Pennsylvania as part of the state wide network operated in cooperation with the Pennsylvania Department of Environmental Resources.

Pittsburg-Wheeling-Beaver Subregion

Sediment data are being collected about monthly at King's Creek near Weirton, W. Va., and starting in October 1977 at Little Grave Creek near Moundsville, W. Va., at Par Run near mouth near Moundsville, W. Va., and at Middle Grave Creek near Moundsville, W. Va., in cooperation with the U.S. Soil Conservation Service.

Kanawha Subregion

Sediment data are being collected on a near monthly basis at Kanawha River at Winfield, W. Va. as a part of NASQAN.

Sediment data are being collected on a daily basis at Little Coal River at Danville, W. Va., Little Coal River at Julian, W. Va., Big Coal River near Alum Creek, W. Va., Coal River at Alum Creek, W. Va., and Coal River at Tornado, W. Va., in cooperation with the West Virginia Department of Highways.

Sediment data are being collected on a near monthly basis at Howard Creek at Cladwell, W. Va., in cooperation with the U.S. Soil Conservation Service.

Sediment data were collected about monthly at Cranbery Creek at Beckley, W. Va., Little Whitestick Creek at Beckley, WV, and Soak Creek at Sophia, W. Va., in cooperation with the U.S. Soil Conservation Service.

Big Sandy-Guyandotte Subregion

Sediment data are being collected on a daily basis at Levisa Fork at Big Rock, Va., in cooperation with the U.S. Corps of Engineers, Huntington District.

Sediment data were collected on a near monthly basis at Mud River near Milton, W. Va., as a part of NASQAN. Discontinued September 30, 1977.

Sediment data were collected on a near monthly basis at Pinnacle Creek at Pineville, W. Va., Buffalo Creek at Man, W. Va., Island Creek at Logan, W. Va., Mud River at Palermo, W. Va., Mud River at Barboursville, W. Va. and Guyandotte River at Huntington, W. Va., as part of the Guyandotte River Basin Project in cooperation with the West Virginia Geological and Economic Survey and the West Virginia Department of Natural Resources. Discontinued April 1977.

Sediment data were also collected on a daily basis at Mud River near Milton, W. Va., and Guyandotte River at Branchland, W. Va., as part of the Guyandotte River Basin Project. Discontinued September 30, 1977.

Sediment data were collected on a daily basis at Island Creek at Logan, W. Va., as part of the Guyandotte River Basin Project in cooperation with the West Virginia Geological and Economic Survey and the West Virginia Department of Natural Resources. Discontinued September 30, 1977.

Sediment data are being collected, starting October 1977, on a near monthly basis at Guyandotte River at Branchland, W. Va., as a part of NASQAN.

Sediment data are being collected on a daily basis at Guyandotte River near Baileysville, W. Va., at Clear Fork at Clear Fork, W. Va., and at Indian Creek at Fanrock, W. Va., as part of the Cooperative Reservoir Study with the U.S. Corps of Engineers.

Sediment data are being collected on a daily basis starting in November 1977, at Marsh Fork at Maben, W. Va., at Still Run at Itman, W. Va., at Allen Creek at Allen Junction, W. Va., and at Bearhole Fork at Pineville, W. Va., as part of a study on the effects of mining on the hydrologic environment of Southern West Virginia, in cooperation with the West Virginia Geological and Economic Survey.

Sediment data are being collected on about monthly and storm event basis at Milan Fork at McGraws, W. Va., as part of a study of the effects of mining on the hydrologic environment of Southern West Virginia, in cooperation with the West Virginia Geological and Economic Survey.

Sediment data are being collected on a daily basis at Trig Fork near Glenhays, W. Va., in cooperation with the U.S. Corps of Engineers.

Sediment data are being collected on a daily basis, reactivated in April 1977, at Levisa Fork at Paintsville, Ky., in cooperation with the U.S. Corps of Engineers, Huntington District, to measure sediment discharge entering the downstream reaches of the Big Sandy River.

Sediment data are being collected on a monthly basis at Big Sandy River at Louisa, Ky., and at Ohio River at Greenup Dam, Ky., as a part of NASQAN.

Sediment data are being collected on a daily basis at Levisa Fork at Big Rock, Va., and at Johns Creek near Meta, Ky., to monitor sediment discharge into their respective lakes. The work is being done in cooperation with the U.S. Corps of Engineers, Huntington District.

Sediment data are being collected on a daily basis at Grapevine Creek near Phyllis, Ky., and at Dicks Fork at Phyllis, Ky., as a part of a Federally funded project to determine effects of coal mining in the Grapevine Creek basin. Sediment data are also sampled on a quarterly, basin at six other sites in the basin.

Great Miami Subregion

Sediment data are being collected on a weekly basis at Whitewater River near Hagarstown, Ind., on an intermittent basis at East Fork Whitewater River near Alpine, Ind., and on a flood-event basis at Whitewater River near Alpine, Ind.. This work was done for the State of Indiana.

Sediment data are being collected on an intermittent basis at Whitewater River at Brookville, Ind., as a part of NASQAN.

Middle Ohio Subregion

Sediment data are being collected on a monthly basis at Uppertwin Creek at McGraw, Ohio, and at South Hogan Creek near Dillsbone, Ind., as a part of the National Hydrologic Benchmark Network.

Licking and Kentucky Subregion

Sediment data are being collected on a monthly basis at Ohio River at Markland Dam, Ky., at Licking River at Butler, Ky., and at Kentucky River at Lock 2 at Lockport, Ky., as a part of NASQAN.

Sediment data are being collected on a five week frequency at the following stations to define sediment yields by physiographic province in Kentucky.

North Fork Triplett Creek near Morehead, Ky.
North Fork Licking River at Lewisburg, Ky.
Troublesome Creek at Noble, Ky.
Goose Creek at Manchester, Ky.
Red River near Hazel Green, Ky.
Elkhorn Creek near Frankfort, Ky.

This work is done in cooperation with the Kentucky Geological Survey.

Sediment data are being collected on a daily basis at Middle Fork Kentucky River near Hyden, Ky., in cooperation with the U.S. Corps of Engineers, Louisville District.

Lower Ohio Subregion

Sediment data are being collected on a monthly basis at Rolling Fork near Lebanon Junction, Ky., as a part of NASQAN.

Sediment data are being collected on an intermittent basis at Indian-Kentuck Creek near Canaan, Ind., for the State of Indiana.

Wabash Subregion

Sediment data are being collected on a daily basis at East Fork White River at Seymour, Ind., for the State of Indiana, and at Big Blue River at Carthage, Ind., for the U.S. Corps of Engineers. Additional sampling for the State of Indiana consists of three weekly stations, six intermittent stations, and seven high-flow only stations.

Sediment data are being collected on an intermittent basis at White River at Hazleton, Ind., as a part of NASQAN.

Sediment data are being collected on a daily basis at East Fork White River at Seymour, Ind., and at Big Racoon Creek near Fincastle, Ind., for the State of Indiana.

Sediment data are being collected on an intermittent basis at seven stations in Indiana and on a storm-event basis at three stations in Indiana.

Sediment data are being collected on a intermittent basis at Wabash River at New Harmony, Ind., as a part of NASQAN.

Sediment data are being collected, starting March 10, 1977, on a daily basis at Little Wabash River at Louisville, Ill., in cooperation with the U.S. Corps of Engineers, Louisville District.

Cumberland Subregion

Sediment data are being collected on a monthly basis at Cumberland River at Carthage, Tenn., as a part of NASQAN.

Sediment data are being collected on a monthly basis at Cumberland River near Grand Rivers, Ky., as a part of NASQAN.

Lower Ohio and Green Subregions

Sediment data are being collected on a monthly basis at Ohio River at Cannelton Dam, Ky., at Green River near Beech Grove, Ky., and at Ohio River at Lock and Dam 53 near Grand Chain, Ill., as a part of NASQAN.

Sediment data are being collected on a daily basis at Green River at Munfoldville, Ky., as a part of the Federal Sediment Index Network.

In cooperation with several State and Federal agencies, the sediment yields of small strip-mined basins tributary to the Big South Fork-Cumberland River are being investigated. Three daily, three storm-event, and four periodic suspended-sediment discharge measuring sites are operated. Periodic particle size samples are collected at several sites.

In cooperation with the Federal Highway Administration, a study of interstate highway runoff was undertaken on Interstate 40 in Nashville, Tenn. A total of thirty-two storm events were sampled for suspended sediment and assorted chemical constituents. Data reports are in preparation by FHWA contractor.

In connection with another Federally-funded project, "Downstream Effects of Coal Mining on Levisa Fork of the Big Sandy River," sediment discharge measurements were made 5 - 7 times during the year at 8 locations and 3 - 5 times during the year at 19 other sites.

A report, "Fluvial Sediment Study of Fishtrap and Dewey Lakes Drainage Basins, Kentucky-Virginia," by W.F. Curtis, R.F. Flint, and F.H. George was approved for publication by the Director, U.S. Geological Survey. The report will be released in the Water Resources Investigations series (WRI/NTIS) as WRI-77-123 probably sometime during the first half of 1978. It presents the results of a 3-year study to determine sedimentation into the two lakes. The study was a cooperative effort of the Corps of Engineers, U.S. Army, Huntington District, and the U.S. Geological Survey, Water Resources Division, Kentucky District.

In cooperation with the Tennessee Department of Transportation, the problem of scour at highway bridges is being investigated at known and potential problem sites across Tennessee. Reports documenting data and research findings are planned.

Automatic sediment samples were installed at two sites in Western Pennsylvania during 1977. The samplers were installed as part of a study to evaluate the effects of surface mining on tributaries to the Big Sandy Creek. The study is in cooperation with the Pennsylvania Department of Environmental Resources.

Sediment discharge measurements at a frequency of about 5 weeks were made as part of the project, "Sediment Characteristics of Kentucky Streams." This is a cooperative project with the Kentucky Geological Survey, and includes the following stations:

Yellow Creek near Middlesboro, Ky.
Buck Creek near Shopville, Ky.
Little River near Cadiz, Ky.
Russell Creek near Columbia, Ky.
Nolin River at White Mills, Ky.
Pond River near Apex, Ky.
South Fork Panther Creek near Whitesville, Ky.

These stations are operated in cooperation with the Kentucky Geological Survey as part of the project, "Sediment Characteristics of Kentucky Streams."

Special Studies

In cooperation with the Tennessee Department of Transportation, the problem of scour at highway bridges is being investigated at known and potential problem sites across Tennessee. Reports documenting data and research findings are planned.

S. IL CONSERVATION SERVICE

1. Studies of sediment damages and determinations of sediment yields were made in the following watersheds:

   a. Public Law 566

Major Drainage	Watershed	Stream	County(s)	State
Ohio River	Rattlesnake Creek	Rattlesnake Creek	Clinton Fayette Greene Highland Madison	Ohio
Ohio River	North Hocking	Hocking River	Fairfield Hocking	Ohio
Wabash River	Hall-Flat Creek	Straight River	Dubois	Indiana
Humphrey-Clanton			Ballard	Kentucky
North Fork Nolin River			LaRue	Kentucky
Valley Creek			Hardin	Kentucky

2. Reservoir Sediment Surveys

   a. The following sediment survey of a borrow pit was made in Trumbull County, Ohio:

Reservoir	Date of Survey	Location	Drainage Area (Sq Mi)	Original Capacity (Ac-Ft)	Age (Yrs)	Sediment Accum/Yr (Ac-Ft/Sq Mi)	Capacity Loss (Pct/Yr)
Lake Ann	9/77	SE corner, Township	10.1	115.9	8	0.19	0.5

   b. The following reservoir sediment survey was made in French Lake Creek Waterhsed, Orange County, Indiana:

Reservoir	Date of Survey	Location Sec	Twp	Rge	Drainage Area (Sq Mi)	Original Capacity (Ac-Ft)	Age (Yrs)	Sediment Accum/Yr (Ac-Ft/Sq Mi)	Capacity Loss (Pct/Yr)
Tucker Lake (Str. No. 7)	5/77	31	1N	1W	6.98	1871.0	13.5	0.42	0.15

   c. A reservoir sediment survey has been made on structure No. 15, Upper Big Blue River Watershed, Henry County, Indiana. Computations are not completed.

Pennsylvania

Reservoir	County	Date of Survey	Location	Drainage Area (Sq Mi)	Original Capacity Sediment Pool (Ac-Ft)	Original Capacity Both Pools (Ac-Ft)	Age (Yrs)	Av. Annual Sed. Dep. Sed. Pool (Ac-Ft)	Av. Annual Sed. Dep. Both Pools (Ac-Ft)	Annual Cap. Loss Sed. Pool (Percent)	Annual Cap. Loss Both Pools (Percent)
Saul-Mathay PA-459	Mercer Co. Pa.	7/77	40°22'N 80°23'W	1.87	22.47	594.37	14.9	.15	.22	.67	.04

Reservoir	County	Date of Survey	Location	Drainage Area (Sq Mi)	Orig. Cap. (Ac-Ft)	Age (Yrs)	Sediment Accum/Yr (Ac-Ft/Sq Mi)	Capacity Loss (Pct/Yr)
Upper Deckers	Monogalia	9/19/77	39°31'45"W 79°46'42"W	2.81	364.8	11.5	0.255	0.191

2. Land use, treatment, and soils data were collected in the drainage area of 25 P1-566 floodwater retarding and multi-purpose structures in Kentucky designed by Soil Conservation Service. These reservoirs are scheduled for sedimentation surveys.

Forest Service

TENNESSEE REGION

Chattahoochee-Oconee National Forests

Water quality was monitored at 16 stations. Turbidity and/or suspended sediment was measured at several of these stations to evaluate impacts of management activities on the water resource. The Forest was assisted by North Georgia College at Dahlonega on some of these evaluations. The ISCO automated water sampler was used at one of these stations. Three acres of critically eroding soils were stabilized resulting in annual sediment reduction of approximately 150 tons.

National Forests in North Carolina

Water quality was monitored at 30 stations. Turbidity and/or suspended sediment was measured in order to determine impacts of management activities on the water resource. Three ISCO automated water samplers are in use. Twenty-five acres of critically eroding forest lands were stabilized resulting in estimated annual sediment reduction of 1,250 tons.

Jefferson National Forest

Water quality was monitored at five stations. Two acres of critically eroding lands were stabilized resulting in an estimated annual sediment reduction of 100 tons.

Cherokee National Forest

The Forest completed an emergency flood prevention project. Included in the accomplishments were stabilization of 157 miles of abandoned eroding roads, 14 miles of abandoned eroding trails, four acres of sheet erosion, and one-acre of land slide. Selective debris removal was done on 50 miles of stream channel. Seven hundred eighty-four feet of stream channel retaining walls and 1,178 feet of gabions were installed. This work resulted in an estimated annual sediment reduction of 11,500 tons.

TENNESSEE REGION

GEOLOGICAL SURVEY

Upper Tennessee Subregion

Sediment data are being collected on a monthly basis at French Broad River near Knoxville, Tenn., as part of NASQAN.

Middle Tennessee-Hiwassee Subregion

Sediment data are being collected on a monthly basis at Tennessee River at Watts Bar Dam, Tenn., as part of NASQAN.

Middle Tennessee-Elk Subregion

Sediment data are being collected on a monthly basis at Tennessee River at South Pittsburg, Tenn., as a part of NASQAN. This site is also in a national pesticide monitoring network which requires periodic streambed sediment sampling.

Lower Tennessee Subregion

Sediment data are being collected on a monthly basis at Tennessee River at Pickwick Landing Dam, Tenn., as a part of NASQAN.

Sediment data are being collected on a periodic basis at Buffalo River near Flat Woods, Tenn., as part of the National Hydrologic Benchmark Network.

Sediment data are being collected on a monthly basis at Tennessee River at Highway 60 near Paducah, Ky., as a part of NASQAN.

Sediment data are being collected on a 5-week frequency at West Fork Brewers Creek, Ky., and Massac Creek near Paducah, Ky., in cooperation with the Kentucky Geological Survey.

Special Studies

In cooperation with the Tennessee Department of Transportation, the problem of scour at highway bridges is being investigated at known and potential problem sites across Tennessee. Reports documenting data and research findings are planned.

TENNESSEE REGION

TENNESSEE VALLEY AUTHORITY

During 1977 the Tennessee Valley Authority sounded established ranges on the La Follette, Tennessee, water supply reservoir and Tims Ford Reservoir on the Elk River in middle Tennessee. Additional ranges were established and surveyed along with several existing ranges in the upper reach of Bear Creek Reservoir in north Alabama. A reconnaissance survey of selected ranges on five of the reservoirs on the Tennessee River was made to spot-check sediment deposition and determine the need for more extensive surveys.

La Follette Water Supply Reservoir (Upper Ollis Creek Reservoir)

This reservoir, which was filled in 1964, was surveyed for the seventh consecutive year since the 46 sediment ranges were established, sounded, and probed in 1970. Deposited sediment accumulations are being monitored to ascertain the effects of strip mining and subsequent reclamation work in the watershed. The 1977 survey showed a total of 53 acre-feet of sediment, an increase of 3 acre-feet since 1976, but about one-fourth the rates experienced in 1972 and 1973.

Tims Ford Reservoir

After dam closure on December 1, 1970, and normal operations began on June 1, 1971, sixty sediment ranges were established and sounded. Computations of the 1977 survey of the sixty sediment ranges show a deposite of 660 acre-feet of sediment and a storage loss of 0.1 percent.

Bear Creek Reservoir

Forty-three sediment ranges were established and sounded after the reservoir was filled in 1969. A survey was made in 1976 and it was noted that considerable sediment was deposited by two intense storms on the overbanks at the upper end of the reservoir in the 26-foot range in elevation between normal full pool and the spillway crest. Monuments for two sediment ranges in the reach above normal pool were destroyed by the storms. In 1977, these two ranges were reestablished and six additional ranges were added in this reach. These new ranges and twelve of the established ranges in the upper half of the normal pool reach were extended to include elevations up to the spillway crest. Calculations resulting from the 1976 and the 1977 surveys show a total of 294 acre-feet of sediment below normal pool and an additional 87 acre-feet of sediment above normal pool for a storage loss of 13 percent below normal pool and 1 percent below the spillway crest.

Tennessee River Reservoirs

A reconnaissance sediment survey was made on five of the nine main stream reservoirs sounding selected sediment ranges as representative of the reservoirs. The last prior survey was made in 1961. In which all ranges were sounded on the nine reservoirs. Four of the reservoirs showed 1 foot or less accumulation since 1961, and one reservoir, Kentucky Reservoir, showed a 4-foot accumulation on one range. Two or more ranges will be sounded before determining whether or not a complete sediment survey will be required.

UPPER MISSISSIPPI REGION

CORPS OF ENGINEERS

North Central Division

Sedimentation activities in the North Central Division office are as follows:

A hydraulic engineer in the Water Control Center is in the process of adapting the HEC-6 one-dimensional model for scour and deposition so the modified computer model can be used to solve two-dimensional sediment problems. This modified and improved model will be used to solve sediment and dredging problems for the Great River Environmental Action Team (GREAT) in 1978. He also provides technical advice and assistance to the Dredge Requirement Work Group and the Erosion and Sedimentation Work Group of the GREAT to improve our understanding of erosion and sedimentation processes.

A principle of minimum rate of energy expenditure was derived from the equation of motion and the equation of continuity. It was shown that this principle can be used to solve fluvial hydraulic problems without any knowledge of the roughness coefficient. Application of this principle to improve our channel design criteria are being conducted in the Water Control Center.

A simplified dimensionless unit stream power equation for sand transport was obtained without using any criteria for incipient motion. Comparisons between the computed and measured results of 1259 sets of laboratory and river data indicate that this equation can be used to predict the rate of sediment transport in both laboratory flumes and natural rivers accurately.

Buffalo District

Lake Erie - The Lake Erie Wastewater Management Study is conducting a water quality monitoring program at 66 stations on streams tributary to Lake Erie.

One parameter being measured is suspended solids. The program consists of storm event sampling rather than continuous or periodic sampling at a regular interval. Techniques have been developed by the Lake Erie Wastewater Management Study for estimating total suspended solids loads for a year based on results of a relatively few high flow events. These techniques, using the "flow interval" method, give total annual loads comparable to those computed from daily measurements for streams with continuous stations.

Drainage area of stations included range from 1.65 square miles to 6,400 square miles. Results will be reported in the Lake Erie Wastewater Management Study Methodology Report in September 1978.

Cuyahoga River, Ohio - A support agreement was entered into with USGS to conduct an investigation in the Cuyahoga River, OH Watershed for the purpose of estimating annual sediment yield between Old Portage and Independence, OH. This information will be used to identify possible locations for mitigating sediment input from stream banks, point type sources, and upland areas.

Harbor Sediments - In connection with the District's operation and maintenance activities, the U.S. Environmental Protection Agency sampled several harbors to determine acceptability of dredged sediments for open-lake disposal. Samples usually were collected with a Ponar sampler, and analyzed by bulk and elutriate methods. The following table summarizes work conducted in 1977:

Harbor	Date Sampled	Evaluation
Ashtabula, OH	22 June 1977	Evaluation Not Completed
Cleveland, OH	25 August 1977	" " "
Conneaut, OH	22 June 1977	" " "
Fairport, OH	24 June 1977	" " "
Sandusky, OH	28 July 1977	" " "
Barcelona, NY	1 August 1977	" " "
Dunkirk, NY	2 August 1977	" " "
Olcott, NY	7,8,10 November 1977	" " "
Oak Orchard, NY	8 November 1977	" " "
Sackets Harbor, NY	9 November 1977	" " "
Cape Vincent, NY	9 November 1977	" " "

Genesee River, NY - A reconnaissance of sedimentary characteristics has been made of the Genesee River downstream of Mt. Morris Dam. Several streambank samples were collected and are being analyzed to determine their erodibility. The major emphasis of the study at this time is to evaluate historical changes in the stream using aerial photography taken over the past 40 years.

Elk Creek, PA - Beach, offshore, and harbor sediments were collected at Elk Creek, PA, as part of a small boat harbor study. Gradations were determined; however, no data analyses were performed as the project is no longer active.

Lakeview Park, OH - Lakeview Park is located one mile west of Lorain Harbor on the south shore of Lake Erie. In the summer of 1977 three detached offshore breakwaters plus 168,000 tons of beach fill were placed as a cooperative beach erosion control project for Lakeview Park. The beach fill was obtained from commercial offshore sources.

The Buffalo District in cooperation with CERC (Coastal Engineering Research Center) is involved in a five year monitoring program to document the effectiveness of these offshore breakwaters in retaining the fill and controlling beach erosion.

Hydrographic and topographic surveys were made along 32 profile lines in October 1977. The surveys extend 2,000 feet west and 4,500 feet east of the project. In addition, 67 sediment samples were selected along a 100 foot increment sampling grid. The offshore samples were collected with a Petersen sampler and the beach samples were collected by hand. Sand-sized samples were sent to Government testing lab for gradation analysis.

Geneva State Park, OH - Geneva State Park, OH is the site of a shore erosion demonstration project. Three offshore breakwaters will be installed during the summer of 1978 to demonstrate a means of low cost shore protection.

A monitoring program will be in effect for five years to provide data for evaluating the effectiveness of the selected demonstration plan. Pre-construction conditions were determined by hydrographic and topographic survey (June and July 1977) and by sediment sampling (September 1977). A total of 58 beach and nearshore samples were selected to represent back beach, forebeach, water's edge, -1 LWD, -3 LWD, and -6 LWD, along selected profile lines. The offshore samples were collected with a Petersen sampler and beach samples were collected by hand. Sand-sized samples were sent to Government testing lab for gradation analysis.

Presque Isle, PA - Presque Isle is a large recurved sand spit which completely shelters the harbor for Erie, PA, and functions as a very popular State park. During the spring of 1977, the Buffalo District, in cooperation with State authorities, placed 280,000 tons of sand on Presque Isle beaches as the third phase of a five-year emergency beach replenishment program. The replenishment sand was obtained from various land sources located within a 20-mile redius of Erie, PA.

A hydrographic and topographic survey was made by Buffalo District in October of 1977 along eight stations in the location of Beach 10. The information obtained from these surveys is being used in the design of three experimental prototype offshore breakwaters, scheduled for construction in spring 1978.

Vermilion Harbor, OH - Vermilion Harbor is located about 11 miles west of Lorain Harbor on the south shore of Lake Erie. The lower half mile of the Vermilion River plus dual lake approach channels have been dredged and protected by parallel piers and a detached breakwater in order to provide a small boat harbor. Based on the the recommendations of the January 1976 "Preliminary Report for Section 111 Study of Vermilion Harbor, OH," a two year monitoring program was initiated and in October 1977 work started on a Detailed Project Report (DPR). The DPR is scheduled for completion in September 1979.

In August and October 1977, hydrographic and topographic surveys were made as the second year of the monitoring program. This data in conjunction with data obtained in 1976 and other information will be used to interpret shore processes and the impact of the detached breakwater on these processes.

DETROIT DISTRICT

Sedimentation studies were made by the U.S.G.S. for the Corps at 15 stations on the rivers and creeks in the Shiawassee Flats area, Saginaw, Michigan. The results of the study are being published in the Phase I report for Flood Control Project in the Shiawassee Flats area.

ROCK ISLAND DISTRICT

Reservoir Sedimentation Survey - Sedimentation surveys of two reservoirs on the Des Moines River were made. The establishment and survey of reservoir sedimentation ranges in Lake Red Rock, Iowa, are about 90 percent completed. The establishment and survey of reservoir sedimentation ranges in Saylorville Lake, Iowa, are approximately 50 percent completed.

Pool 20 of the Mississippi River - A study of sediment in relation to dredging in Pool 20 near Fox and Buzzard Islands by contract with the Institute of Hydraulic Research, Iowa City, Iowa, is completed. This study was to determine possible methods to reduce dredging in the study reach and includes suspended, bed, and bottom sampling at approximately 8 transects of the Mississippi River.

Suspended Sediment Sampling - Suspended load sampling has been continued at 18 stations, 4 located on the Mississippi River and 14 on its tributaries.

ST. PAUL DISTRICT

Sediment loads were measured by the U.S.G.S. at 17 river stations under the St. Paul District sponsorship.

A report on the progress and development accomplished in the "Joint Study of Methods Used in Measurement and Analysis of Sediment Loads in Streams", conducted at the St. Anthony Falls Hydraulic Laboratory during the Calendar year 1977 is described under "Laboratory and other Research Activities".

UPPER MISSISSIPPI REGION

GEOLOGICAL SURVEY

Minnesota Subregion

Sediment data are being collected on a daily basis at Minnesota River at Mankato, Minn., at Whetstone River near Big Stone City, S. Dak., and at Yellow Bank River near Odessa, Minn., in cooperation with the U.S. Corps of Engineers.

Sediment data are being collected on a monthly basis at Minnesota River near Jordon, Minn., as a part of NASQAN.

Sediment data are being collected on an intermittent or storm-event basis at Watonwan River near Garden City, Minn., and at Chippewa River near Milan, Minn., in cooperation with the Minnesota Department of Natural Resources, Division of Waters.

Mississippi Headwaters Subregion

Sediment data are being collected on a monthly basis at Mississippi River near Royalton, Minn., and at Mississippi River at Naninges, Minn., as a part of NASQAN.

Sediment data are being collected on a daily basis at Mississippi River near Anoka, MN in cooperation with the U.S. Corps of Engineers, Great I study.

Sediment data are being collected on an intermittent and storm-event basis at Crow River at Rockford, Minn., and at Elk River near Big Lake, Minn., in cooperation with the Minnesota Department of National Resources, Division of Waters.

St. Croix Subregion

Sediment data are being collected on a periodic basis at the following sites:

St. Croix River at CTH "T" near Dairyland, Wis.
Namekagon River at Hayward, Wis.
Namekagon River at Trego, Wis.
St. Croix River near Danbury, Wis.
Yellow River at Danbury, Wis.
Clam River at ice house bridge near Webster, Wis.
Kettle River near Cloverdale, Minn.
Snake River near Pine City, Minn.
Apple River near Somerset, Wis.

Sediment data are being collected on a monthly basis at St. Croix River at St. Croix Falls, Wis., as a part of NASQAN.

Upper Mississippi-Black-Root Subregion

Sediment data are being collected on a monthly and storm-event basis at North Fork Whitewater River near Elba, Minn., as a part of the National Hydrologic Benchmark Network.

Sediment data are being collected on a daily basis at Zumbro River at Kellogg, Minn., at Whitewater River near Beaver, Minn., at Mississippi River at Winona, Minn., at Root River near Houston, Minn., and at South Fork Root River near Houston, Minn., in cooperation with the U.S. Corps of Engineers, Great I study.

Sediment data are being collected on a daily basis at Chippewa River at Durand, Wis., at Chippewa River near Carryville, Wis., at Chippewa River near Pepin, Wis., and at Black River at Galesville, Wis.

Sediment data are being collected on an intermittent basis at Plum Creek near Ella, Wis.

Wisconsin Subregion

Sediment data are being collected on a daily basis at Wisconsin River at Muscoda, Wis., as a part of NASQAN.

Sediment data are being collected on a periodic and storm-event basis at the following:

Site A, Trout Creek near Ridgeway, Wis.
Site B, Trout Creek near Ridgeway, Wis.
Site C, Trout Creek near Redgeway, Wis.
Site D, Trout Creek near Ridgeway, Wis.
Big Eau Pleine River near Stratford, Wis.
Fenwood Creek at Bradley, Wis.
Freeman Creek at Halder, Wis.
Big Eau Pleine River near Mosinee, Wis.

Sediment data are being collected on an intermittent and storm-event basis at North Fork Nederlo Creek near Gay Mills, Wis., South Fork Nederlo Creek near Gay Mills, Wis., and at two locations on Nederlo Creek near Gay Mills, Wis.

Mississippi-Maquoketan-Plum Subregion

Sediment data are being collected on a daily basis at Upper Iowa River near Dorchester, Iowa, and at Mississippi River at McGregor, Iowa, as a part of the Great River Environmental study.

Rock Subregion

Sediment data are being collected on a daily plus storm-event basis on Willow Creek at Madison, Wis.

Sediment data are being collected on a weekly plus storm-event basis on Pheasant Branch Creek at Middleton at US 12, Wis., and on Pheasant Branch at Middleton at CTH "M", Wis.

Sediment data are being collected on an intermittent and storm-event basis at:

Pheasant Branch at Century Avenue at Middleton, Wis.
Tributary to Pheasant Branch at Hwy. 14 at Middleton, Wis.
Tributary to Pheasant Branch at Airport Road at Middleton, Wis.

Sediment data are being collected on an intermittent and storm-event basis at the following sites.

Black Earth Creek at Black Earth, Wis.
Maunesha River near Sun Prairie, Wis.
Yahara River at Windsor, Wis.
Token Creek near Madison, Wis.
Yahara River at STH 113 at Madison, Wis.
Sixmile Creek at Waunakee, Wis.
Sixmile Creek at Waunakee, Wis.
Sixmile Creek near Waunakee, Wis.
Spring Creek at CTH "M" near Middleton, Wis.
Warner Park Storm Ditch at Madison, Wis.
Spring Harbor Storm Sewer at Madison, Wis.
Starkweather Creek - West - at Madison, Wis.
Starkweather Creek - East - at Madison, Wis.
Olbrich Park Storm Ditch at Madison, Wis.
Door Creek near Cottage Grove, Wis.
Mt. Vernon Creek near Mt. Vernon, Wis.

Miscellaneous determinations of suspended-sediment discharge were made at 20 additional sites throughout Wisconsin.

Sediment data are being collected on a monthly basis at Rock River at Joslin, IL, as a part of NASQAN.

Des Moines Subregion

Sediment data are being collected on a daily basis at Des Moines River near Soylorville, IA, in cooperation with the Iowa Geological Survey.

Sediment data are being collected on an intermittent basis at Des Moines River at Jackson, Minn., in cooperation with the Minnesota Department of Natural Resources, Division of Waters.

Upper Mississippi-Iowa-Skunk-Wapsipinicon Subregion

Sediment data are being collected on a monthly basis at Mississippi River at Clinton, Iowa, at Mississippi River at Keokuk, Iowa, and at Des Moines River at St. Francisville, Mo., as a part of NASQAN.

Sediment data are being collected on a daily basis at the following in cooperation with the Iowa Geological Survey:

Iowa River at Iowa City, Iowa
Ralston Creek at Iowa City, Iowa
Skunk River at Augusta, Iowa

Sediment data are being collected on an intermittent and storm-event basis at Cedar River near Austin, Minn., in cooperation with the Minnesota Department of Natural Resources, Division of Waters.

Upper Mississippi-Salt-Subregion

Sediment data are being collected on a monthly basis at Mississippi River below Alton, Ill., as a part of NASQAN.

Upper Illinois Subregion

Sediment data are being collected on a monthly basis at Illinois River at Marseilles, Ill., as a part of NASQAN.

Sediment data are being collected on an intermittent basis at Iroquois River near Rosebud, Ind., and at Iroquois River near Foresman, Ind., in cooperation with the State of Indiana.

Lower Illinois Subregion

Sediment data are being collected on a monthly basis at Illinois River at Valley City, Ill., as a part of NASQAN.

Upper Mississippi-Kaskaskia-Meramec Subregion

Sediment data are being collected on a monthly basis at Mississippi River at Thebes, Ill., at Kaskaskia River at Venedy Station, Ill., and at Big Muddy River at Murphysboro, Ill., as a part of NASQAN.

Sediment data are being collected on a daily basis at Mississippi River at St. Louis, Mo., in cooperation with the U.S. Corps of Engineers, St. Louis District.

Special Studies

Three stations are operated in cooperation with the Metropolitan Sanitary District of Greater Chicago to record changes in sediment transport during reclamation of strip-mined areas for irrigation with digested sludge from sewage treatment facilities. Two stations on Big Creek, one above the reclamation area at St. David, Ill., and one below the area near Bryant, Ill., monitor changes in sediment load. One station is operated on Slug Run near Bryant, Ill., which drains an area scheduled to be reclaimed. Annually, size analyses are run on suspended sediment at these stations.

Two sediment stations, Fox River near Channel Lake, Ill., and Nippersink Creek near Spring Grove, Ill., were operated in cooperation with the U.S. Corps of Engineers, Chicago District. Twice weekly samples with additional samples from storm events, were collected to provide data on particle size, concentration, and total load. The objectives of these two stations was to determine if the inorganic suspended-sediment supply to the Fox Chain-of-Lakes was sufficient to be a major problem in sediment accumulation in the lakes. This project ended June 30, 1977.

Laboratory Activities

The Geological Survey analyzed suspended-sediment samples collected by the Corps of Engineers at:

Mississippi River at Hannibal, Mo.
Hadley Creek at Kinderhook, Ill.
Bay Creek at Nebo, Ill.
Wapsipinicon River at DeWitt, Iowa
Iowa River at Marengo, Iowa
Iowa River at Coralville Dam, Iowa
Mississippi River at Burlington, Iowa
South Skunk River below Squaw Creek near Ames, Iowa
Mississippi River at Keokuk, Iowa
Des Moines River near Stratford, Iowa
Des Moines River near Boone, Iowa
Raccoon River at Van Meter, Iowa
North River near Norwalk, Iowa
Middle River near Indianola, Iowa
South River near Ackworth, Iowa
Des Moines River near Tracy, Iowa
White Breast Creek near Dallas, Iowa
Mississippi River at East Dubuque, Ill.

SOIL CONSERVATION SERVICE

1. Studies of sediment damages and determinations of sediment yield were made in the following watersheds:

   a. Public Law 566

Major Drainage	Watershed	Stream	County(s)	State
Mississippi River	Upper Middle Fabius	Middle Fabius River	Scotland Schuyler Knox Lewis	Missouri
Mississippi River	Lower Middle Fabius	Middle Fabius River	Knox Lewis	Missouri
Rock River	Upper Sugar River	Sugar River	Dane	Wisconsin

   b. River Basin Investigations

   Suspended and bedload sampling was conducted at the following locations by the Sediment and Erosion Work Group of the Great River Environmental Action Team, chaired by the SCS:

River	Location	State
Mississippi River	Anoka-Lowry Avenue Bridge	Minnesota
Mississippi River	Winona-Burlington-Northern-RR Bridge	Minnesota
Zumbro River	Kellogg	Minnesota
Whitewater River	Near Beaver	Minnesota
Root River	Near Houston	Minnesota
South Fork Root River	Near Houston	Minnesota
Mississippi River	McGregor	Iowa
Upper Iowa River	Dorchester	Iowa
Chippewa River	Durand	Wisconsin
Black River	Near Galesville	Wisconsin
Wisconsin River	Muscota	Wisconsin

c. The Iowa Department of Soil Conservation was assisted in a sediment and erosion study on the following watersheds under Section 208 of the Federal Water Pollution Control Act Amendments of 1972:

Major Drainage	Watershed	Stream	County(s)	State
Shell Rock River	Coldwater	Coldwater Creek	Cerro Gordo	Iowa
Otter Creek	Spring Creek	Spring Creek	Franklin	Iowa
Iowa River	Old Mans Creek	Old Mans Creek	Iowa	Iowa

d. An update of the Minnesota Streambank Erosion Survey was made for the Minnesota Pollution Control Agency. The report has not been completed.

e. Studies to estimate sediment yield were made as follows under the Conservation Operations Program:

Project	Watershed	Stream	County	State
Baldwin Group Structure	Trimbelle River	Unnamed Tributary	Pierce	Wisconsin
Neitzel Structure	Black River	Unnamed Tributary	La Crosse	Wisconsin

2. Reservoir Sediment Surveys.

a. The following reservoir sediment surveys were made in Vernon County, Wisconsin:

Reservoir	Date of Survey	Location Sec	Twp	Rge	Drainage Area (Sq Mi)	Original Capacity (Ac-Ft)	Age (Yrs)	Sediment Accum/Yr (Ac-Ft/Sq Mi)	Capacity Loss (Pct/Yr)
Sidie Hollow Lake (Bad Axe Watershed Site 33)	8/76	10	12N	5W	7.12	1072.9	11	0.30	0.20
Jersey Lake (West Fork Kickapoo Watershed Site 1)	3/77	13	14N	4W	8.06	1618	7.58	0.43	0.21

b. The following reservoir sediment survey was made in Dodge County, Minnesota by the Sediment and Erosion Work Group, Great River Environmental Action Team, chaired by SCS:

Reservoir	Date of Survey	Location Sec	Twp	Rge	Drainage Area (sq Mi)	Original Capacity (Ac-Ft)	Age (Yrs)	Sediment Accum/Yr (Ac-Ft/Sq Mi)	Capacity Loss (Pct/Yr)
Walter Buehler	2/77	24	108N	17W	0.87	64.53	11.25	0.22	3.33

c. A sediment survey of Mississippi River Pools 7 and 8 was conducted by the Erosion and Sediment Work Group, Great River Environmental Action Team, chaired by SCS. The final report is to be published in 1978.

LOWER MISSISSIPPI REGION

CORPS OF ENGINEERS

Lower Mississippi Valley Division

Memphis District

Twenty-four sediment sampling stations were established in October 1977 on the St. Francis River and its tributaries between Madison, Arkansas, and Fisk, Missouri. Suspended sediment, bed sediment, and flow data are being collected on a monthly basis. A full display of these data will be included in the next annual report.

A sedimentation study was completed for Obion Creek in southwestern Kentucky. The Hydrologic Engineering Center's HEC-6 model was employed to estimate areas of excessive aggradation and/or degradation. Sufficient data were not available to verify the HEC-6 model, thus forcing the results of the study to be of a more qualitative rather than quantitative nature.

Tentative plans are being made to initiate suspended sediment sampling on the Mississippi River at Hickman, Kentucky, Memphis, Tennessee, and Helena, Arkansas. Data collection will be made on a weekly basis.

New Orleans District

Sediment Load Measurements

a. Suspended sediment and bed material sampling was continued at the ranges located in the Mississippi River at Coochie, Louisiana, and at Tarbert Landing, Mississippi, at a frequency of one per week; in the Old River Outflow Channel near Knox Landing, Louisiana, semimonthly; in the Atchafalaya River at Simmesport, Louisiana, weekly; monthly at Wax Lake Outlet at Calumet, Louisiana, and Lower Atchafalaya River at Morgan City, Louisiana. On the Red River samples were taken at Fulton, Arkansas, and Shreveport, Louisiana, weekly while at Alexandria, Louisiana, and above Old River Outflow Channel samples were taken semimonthly. Weekly sampling was continued in the Atchafalaya Basin at ranges located at Bayou Chene below Bayou Crook Chene, Lake Long below Bayou La Rompe, Little Tensas below Blind Tensas Cut, and East Access Channel above Chicot Pass.

b. Daily suspended sediment samples were taken on the Red River at Colfax, Louisiana.

c. A cooperative program with the US Geological Survey for collection and analysis of suspended sediment samples was in effect for stations located on the Mississippi River at St. Francisville, Plaquemine, Union, Luling Ferry, Violet, and Venice, Louisiana. Samples were taken on the Red River at Boyce and Moncla, Louisiana. The sampling frequency was monthly and the data will be published by USGS in its annual publication.

d. Suspended sediment samples were taken with a U.S. P-46, or U.S. P-61 sampler. Bed material samples were taken with a BM-54 sampler or drag bucket type sampler. Daily suspended sediment samples were taken with a trap type sampler.

Office Investigations

a. Use of a Digital Flow-Sediment Model of the Atchafalaya Basin developed in conjunction with the Hydrologic Engineering Center is continuing. The model is being used to study alternatives in preparation of the Atchafalaya Basin, Phase I GDM/Feasibility Study.

b. NOD (New Orleans District) is continuing development of a Flow Sediment Model of the Mississippi River from Head of Passes to St. Louis, Missouri.

c. A Flow Sediment Model of the Red River Waterway is being used to study maintenance dredging associated with the construction sequence and the completed project.

d. As part of the LMVD (Lower Mississippi Valley Division) Potamology Program (T-1), WES (Waterways Experiment Station) has compiled and published "Inventory of Sediment Sample Collection Stations in the Mississippi River Basin."

e. As part of the LMVD Potamology Program (P-1), WES is compiling a report on the characterization of the suspended-sediment regime and the bed-material composition of the Mississippi River. The study is scheduled to be completed in June 1979.

f. A Computer Data Base System is being built to store Hydrographic Data for the period of record in the New Orleans District.

g. A Computer Data Base System is being written to analyze, store and retrieve sediment data.

h. For NOD, WES is preparing a physical model and a mathematical model of the Atchafalaya Bay.

St. Louis District

Sediment and retrogression ranges at both Rend Lake and Lake Shelbyville were surveyed in the spring of 1974. The reports are scheduled to be submitted in calendar year 1978.

Vicksburg District

Sedimentation Surveys

a. Sedimentation surveys were made at several locations in the District during the past year. On the Yazoo River at Greenwood, Mississippi, following the closure of the Fort Pemberton Cutoff, surveys were taken to monitor the sediment movement in the bendway to be used in the development of a mathematical model to study sediment problems in the area. Work on the model will begin in 1978. Additional surveys were made on Big Sand Creek and the Yalobusha River in an effort to determine degrees of aggradation or degradation and the effect on channel capacities.

b. Cross sections and profiles were also made on various other streams in the Vicksburg District for use in hydraulics studies, design of channel improvement, etc.

Sediment Load Measurements

a. In connection with Yazoo Basin Sedimentation Study, bed and suspended sediment samples were taken intermittently at 14 stations on Big Sand Creek, Coldwater River, Pelucia Creek, Petacocowa Creek, Tallahatchie River, Tchula Lake Cutoff, Yalobusha River and Yazoo River.

b. A comprehensive data collection program has been initiated during the past year as part of the Yazoo Basin Streambank Erosion Control Evaluation and Demonstration Program. This data collection program has been contracted with the Agricultural Research Service and is to include detailed water, sediment, and geology data collection, analysis, and evaluation on selected hill tributaries in the Yazoo Basin.

c. In connection with potamology investigations, there are approximately 62 sediment ranges on the Mississippi River from which bed and suspended sediment samples are being taken intermittently each year. In addition to these ranges, there are three ranges located on the Mississippi River at Vicksburg, Mississippi; Arkansas City, Arkansas; and Natchez, Mississippi; where both bed samples and suspended sediment measurements are taken weekly. These data have been placed on computer cards and will eventually be permanently stored on magnetic tape.

Other Investigations. A contract that was awarded to Colorado State University to determine the extent of the existing sediment problems in the Main Stem Yazoo-Tallahatchie-Coldwater River system and the

effect of the proposed Upper Yazoo Projects on sedimentation in the basin was continued and is nearing completion. When the model is complete it will include a data storage and retrieval system for water and sediment data in the Yazoo Basin. A draft data inventory report for the Yazoo Basin has been received with the final report due in early 1978. This report is being prepared as part of the above contract.

Forest Service

LOWER MISSISSIPPI REGION

National Forests in Mississippi

The Forest monitored water quality at 37 stations. Turbidity was monitored at several of these stations to evaluate the effects of management activities on water quality. Three acres of critically eroding areas were stabilized resulting in an estimated annual sediment reduction of 150 tons.

St. Francis National Forest

Water quality was monitored at 10 stations. Turbidity was monitored at several of these stations to evaluate the impacts of management activities on the water resource.

Ouachita National Forest

Water quality was monitored at four stations. Five acres of critically eroding Forest lands were stabilized resulting in an estimated annual sediment reduction of 250 tons.

Kisatchie National Forest

Water quality was monitored at five stations. Forty acres of critically eroding Forest lands were stabilized resulting in an estimated annual sediment reduction of 1,000 tons.

LOWER MISSISSIPPI REGION

GEOLOGICAL SURVEY

Lower Mississippi - Hatchie Subregion

Sediment data are being collected on a monthly basis at Mississippi River at Memphis, Tenn., and at Obion River at Obion, Tenn., as a part of NASQAN.

Lower Mississippi - St. Francis Subregion

Sediment data are being collected on a monthly basis at St. Francis River at Parkin, Ark, at St. Francis Bay at Riverfront, Ark., and at White River at Clarendon, Ark., as a part of NASQAN.

Lower Mississippi - Yazoo Subregion

Sediment data are being collected on a monthly basis at Mississippi River near Arkansas City, Ark., at Yazoo River near Shell Bluff, Miss., and at Yazoo River at Redwood, Miss., as a part of NASQAN.

Lower Red - Ouachita Subregion

Sediment data are being collected on a monthly basis at Ouachita River at Columbia, La., and at Ouacita River at Camden, Ark., as a part of NASQAN. Sediment data are being collected on a monthly basis at Big Creek at Pollock, La., as a part of the National Hydrologic Benchmark Network.

Boeuf - Texas Subregion

Sediment data are being collected on a monthly basis at Tensas River at Tendal, La. as a part of NASQAN.

Lower Mississippi - Big Black Subregion

Sediment data are being collected on a monthly basis at Big Black River near Bovina, Miss., as a part of NASQAN.

Lower Mississippi - Lake Maurepas Subregion

Sediment data are being collected on a monthly basis at Amite River at 4-H Comp near Denham Spring, La., as a part of NASQAN.

Louisiana Coastal Subregion

Sediment data are being collected on a monthly basis at Bayou Teche at Keystone Lock and Dam below St. Martinville and at Caleasieu River below Lake Charles, La., as a part of NASQAN.

Lower Mississippi Subregion

Sediment data are being collected on a monthly basis at Bayou Lafourche at Donaldson, La., and at Bayou Lafourche below the dam at Thibedeaux, La., in cooperation with the Louisiana Department of Public Works.

Special Studies

Suspended-sediment samples were collected at five sites in the Hatchie River Basin over two flood cycles and two base-flow periods. This preliminary study of land use effects on sediment yield is in cooperation with the Tennessee Division of Water Resources.

Suspended and bedload sediment samples were collected on a tributary to the Hatchie River for a study to determine migration of pesticide residues from a landfill in Hardeman County, Tenn. The study is in cooperation with the Tennessee Department of Public Health.

In cooperation with the Tennessee Department of Transportation, the problem of scour at highway bridges is being investigated at known and potential problem sites across Tennessee. Reports documenting data and research findings are planned.

Monthly collection was begun at 23 stations on the St. Francis River and selected tributaries in October 1977 for the Corps of Engineers. Monitoring is expected to continue for 5 years. Following the 5-year period, the existing network may be reduced to a few stations that would be monitored more intensively.

Suspended-sediment data are collected for selected storm events on Tillatoba Creek below Oakland and South Fork Tillatoba Creek near Charleston. This information was collected in cooperation with the U.S. Soil Conservation Service in order to estimate the sediment loads of Tillatoba Creek during periods of high discharge.

Laboratory Activities

The Geological Survey sediment laboratory located in Baton Rouge, La., analyzed suspended-sediment and bed-material samples collected by the U.S. Corps of Engineers at the following locations:

Red River at Alexandria
Old River Outflow near Knox Landing
Red River above Old River Outflow
Mississippi River at Coochie
Mississippi River at Tarbert Landing
Atchafalaya River at Simmesport
Bayou Chen above Bayou Crook Chen
East Access Channel above Lake Chicot
Lake Long below Bayou LaRompe
Little Tensas below Blind Tensas Cut
Lower Atchafalaya River at Morgan City
Wax Lake Outlet at Calumet

LOWER MISSISSIPPI REGION

SOIL CONSERVATION SERVICE

1. Studies of sediment damages and determinations of sediment yields were made for work plans in the following watersheds during 1977:

   a. Public Law 566

Major Drainage	Waterhsed	Stream	County/ Parish	State(s)
Quachita River	East Carroll	Bayou Macon & Tensas River	East Carroll	Louisiana
Mississippi River	Bayou Pierre*	Bayou Pierre	Copiah Lincoln	Mississippi

*Previous sediment determinations were revised in 1977

   b. River Basin Investigations

Major Basin	Basin Reported	State
Lower Mississippi	Yazoo	Mississippi

SOURIS - RED - RAINY REGION

CORPS OF ENGINEERS

North Central Division

St. Paul District

Sediment loads were measured by the U.S.G.S. at 4 river stations under the St. Paul District sponsorship.

SOURIS-RED-RAINY REGION

GEOLOGICAL SURVEY

Souris Subregion

Sediment data are being collected on a daily basis at Souris River near Sherwood, N. Dak., as part of the Waterways Treaty program with the U.S. Department of State.

Sediment data are being collected on a monthly basis at Souris River near Foxholm, N. Dak., in connection with a pre-impoundment quality water study in cooperation with the U.S. Corps of Engineers.

Sediment data are being collected on a monthly basis at Souris River near Westhope, N. Dak., as part of NASQAN.

Sediment data are being collected on a monthly basis at Souris River near Verendrye, ND, and at Wintering River near Karlsruhe, ND, as part of the Missouri River Basin program.

Red Subregion

Sediment data are being collected on a daily basis at Sheyenne River at Lisbon, N. Dak., and at Sheyenne River at Kindred, ND, in connection with a pre-impoundment study in cooperation with the U.S. Corps of Engineers.

Sediment data are being collected on a monthly basis at Wild Rice River near Abercrombie, N. Dak., at Red River of the North at Halstad, Minn., and at Red River of the North at Hickison, N. Dak., as part of the Missouri River Basin program.

Sediment data are being collected on a monthly basis at Beaver Creek near Finley, N. Dak., as a part of the National Hydrologic Benchmark Network.

Sediment data are being collected on a monthly basis on Red River of the North below Fargo, N. Dak., and at Red River of the North at Oslo, Minn., as a part of NASQAN.

Sediment data are being collected at Pembina River near Vang, N. Dak., at little South Pembina River near Walhalla, N. Dak., and at Pembina River near Walhalla, N. Dak., in cooperation with the North Dakota State Water Commission.

Sediment data are being collected on an intermittent basis at Buffalo River near Dilworth, Minn., in cooperation with the Minnesota Department of Natural Resources, Division of Waters.

Sediment data are being collected on a daily basis at Wild Rice River at Twin Valley, Minn., in cooperation with the U.S. Corps of Engineers.

Rainy Subregion

Sediment data were collected on a monthly basis at Little Fork River at Littlefork, Minn., at Roseau River below State Ditch 51 near Caribou, Minn., and at Big Fork River at Big Falls, Minn., as a part of NASQAN. Data collection has been discontinued.

Sediment data are being collected on a monthly basis at Rainy River at Manitou Rapids, Minn., as a part of NASQAN.

Sediment data are being collected on a monthly basis at Strong River near Babbitt, Minn., Dunka River near Babbitt, Minn., and Bean Island River near Babbitt, Minn., in cooperation with the Minnesota State Planning Agency.

Special Studies

Miscellaneous sediment data were collected at several sites in western North Dakota in connection with energy-related projects.

MISSOURI BASIN REGION

CORPS OF ENGINEERS

Missouri River Division

Kansas City District

Sediment Load Measurements.

a. Suspended sediment sampling was accomplished at 17 tributary stations during water year 1977. On the Missouri River three sediment sampling stations were operated at St. Joseph, Kansas City, and Hermann, Missouri. At these stations suspended depth integrated samples are scheduled to be collected weekly in five vertical locations. Point samples, depth integrated, and bed samples are collected once each month at the five vertical locations. Some studies have been made concerning the correlation between the depth integrated data and the point samples. As would be expected, good agreement has been found between the two measurements. No further or more complicated studies have been attempted to date.

b. Suspended sediment data have been collected at three locations on the main stem of the Kansas River. These stations have been sampled on a weekly basis. In cooperation with the Kansas District of the U.S. Geological Survey, point, depth integrated, and bed samples have been collected twice a month at DeSoto, Kansas, and once a month at Lecompton, Kansas. Studies are currently underway to correlate these measurements with the samples taken in the thalweg by the contract observer. Results will be used to determine if a correction should be applied to the single observation to determine the sediment loading of the river.

Lake Sedimentation Investigations.

a. Wilson Lake was not surveyed in FY 1977 as planned due to the unavailability of manpower and higher priority work of the Survey Section. The Milford Lake resurvey was not funded due to the low priority in the zero base budgeting process. Surveys for these lakes have been rescheduled in FY 80 for Milford Lake and FY 81 for Wilson Lake.

b. Survey of the initial sedimentation and degradation ranges have been initiated or completed at the following lake projects:

Clinton Lake, Kansas
Hillsdale Lake, Kansas
Smithville Lake, Missouri
Long Branch Lake, Missouri
Harry S. Truman Reservoir, Missouri

Special Studies.

a. Kansas River.

(1) The Kansas River bank stabilization study is continuing and four additional short term sediment sampling stations are being established on the Kansas River to supplement the existing stations. The additional data should indicate the transport capability of the Kansas River from the headwaters to the mouth. Analysis of this additional data should indicate the applicability of transferring sediment transport data from the Kansas River sediment data collection stations to the sites of intensive investigation for the Kansas River bank stabilization study. Seven sites along the Kansas River have been selected for intensive investigation. The sites were chosen because they range from ones which exhibit rapid bank migration to rather stable conditions over the past 10 years.

(2) A preliminary report on commercial dredging has been completed for the lower Kansas River. This activity is believed to have some effect on the stability of the banks along the lower Kansas River and is therefore a part of the Kansas River bank stabilization study and the regulatory function activities. The report compares measured sand loads with sand weights reported to the Kansas Department of Revenue by commercial dredge operators. Analysis of sediment data at DeSoto is being initiated in an attempt to extrapolate transport in the bed and unmeasured suspended transport loads by the river. Studies will be made in an attempt to determine the quantity of material that will be available each year for dredging, particularly the material of the size range desired by the commercial dredges. They use most of the remainder of dredged material as byproducts from their major interests.

(3) A third phase of this study would be of a regulatory nature to indicate the effect on the river of not allowing the silts and clay size material to be returned to the stream.

(4) Studies have been made in the lower 10 miles of the Kansas River in connection with the navigation project. A series of point and depth integrated samples were taken in this reach along with additional velocity distribution and water surface profile measurements to determine the suspended loads and trap efficiency of this reach for estimating dredging maintenance requirements for the project.

Omaha District

Sediment Load Measurements. The measurement and computation of suspended sediment load records was continued at eight stations. Currently in operation are two Missouri River mainstem stations, four major tributary stations and two minor tributary stations. The U.S. Geological Survey operates six stations under a Cooperative Stream Gaging Program including

computation and publication of sediment load records. The operation of PS-69 automatic samplers was continued at two minor tributary stations in the Omaha Metropolitan area. Suspended sediment loads for stations operated under the cooperative program are published annually in the USGS Water Data reports. Special point integrated samples, bed material samples, and velocity measurements are collected at approximately six week intervals under the cooperative program at sampling locations on the Missouri River at Sioux City, Omaha and Nebraska.

Reservoir Sedimentation Investigations.

a. Fort Randall Project. A complete sedimentation resurvey was made of Lake Francis Case. Observations included the sounding of all aggradation ranges. The resurvey data was used to update water volume and sediment accumulation values. A summary of sediment storage depletion rates is provided as follows:

LAKE FRANCIS CASE NEAR LAKE ANDES, SOUTH DAKOTA

SEDIMENT STORAGE DEPLETION RATES

Survey Date	Storage /1 Capacity (Acre-Ft)	Storage Depletion (Acre-Ft)	Depletion Rate (Acre-Ft/Yr)	Percent Depletion (%)
1953	6,208,143			
		290,977	69,779	4.7
1957	5,917,166			
		89,871	17,974	1.4
1962	5,827,295			
		77,473	15,876	1.2
1967	5,749,822			
		115,411	18,982	1.9
1973	5,634,411			
		31,050	8,023	0.5
1977	5,603,361			
	TOTAL	604,782		9.7

/1 Below maximum pool elevation 1375 feet msl.

b. Big Bend Project. The resurvey data obtained from Lake Sharpe in 1975 was used to update water volume and sediment accumulation values. A summary of the sediment storage depletion rates provided as follows:

LAKE SHARPE NEAR CHAMBERLAIN, SOUTH DAKOTA

SEDIMENT STORAGE DEPLETION RATES

Survey Date	Storage /1 Capacity (Acre-Ft)	Storage Depletion (Acre-Ft)	Depletion Rate (Acre-Ft/Yr)	Percent Depletion (%)
1963	1,979,968			
		65,231	8,154	3.3
1971	1,914,737			
		7,110	1,724	0.4
1975	1,907,627			
	TOTAL	72,341		3.7

/1 Below maximum pool elevation 1423 feet msl.

c. Papillion Creek Project. A complete original survey was made of Dam Site 11, except for those ranges surveyed late in 1976 prior to winter freeze-up.

d. Salt Creek Project. Complete sedimentation resurveys were made of Holmes Lake (Site 17) and Wagon Train Lake (Site 8). This includes all aggradation ranges as well as the degradation ranges located immediately downstream of the dams.

Other Investigations.

a. Missouri River Suspended and Bed Samples - Nebraska City, Omaha and Sioux City. A program was established with the U.S. Geological Survey under the Cooperative Stream Gaging Program to collect suspended and bed sediment samples, including flow velocities, in the Missouri River at Nebraska City, Nebraska; Omaha, Nebraska; and Sioux City, Iowa. The data in addition to routine depth-integrated sampling, includes five to seven point integrated samples per stream vertical at a minimum of five vertical locations in the channel cross-section; as well as one bed sample of each vertical using a BM-54 sampler. The sampling data, including the velocity measurements, are obtained from a boat at each station at about six week intervals during the open water season. It is intended that this data will be used to document the bed material load being transported by the Missouri River.

b. Platte River Suspended and Bed Samples - Louisville. Special samples similar to those obtained from the Missouri River were collected from the Platte River at the Louisville, Nebraska routine sediment sampling station, but only on one date. These samples will be used to document total suspended material load as a comparative check against results obtained from several empirical equations. Emphasis will be given to verifying the results obtained from Modified Einstein Total Load Equation.

Special Studies.

a. A contract was initiated with Dr. H. W. Shen at Fort Collins, Colorado to investigate and develop mathematical functions describing the variation of the vertical velocity distribution and suspended sediment concentrations, and to use these functions in the development of a program to calculate the total sediment transport load (measured suspended load, unmeasured suspended load, and bed material load), by grain size fractions. Output from the program will reflect time-averaged conditions of stream flow and sediment transport in the Missouri River utilizing many years of hydraulic and sediment data collected at Yankton, South Dakota; Sioux City, Iowa; and Omaha, Nebraska.

b. Initiated a study to correlate historical records of suspended sediment depth integrated and point sample data obtained at the Omaha, Nebraska sampling station. The results are to be used in arriving at a rational basis for adjusting routinely collected depth integrated samples to more accurately reflect the amount of bed-size materials in suspension.

c. Initiated a study to delineate historical (period of measured record) changes that have occurred in particle size distributions by grain size fractions, of both suspended and bed samples, at all Missouri River mainstem sampling stations. Nine stations are included, with the most upstream station located at Wolf Point, Montana and the most downstream station at Nebraska City, Nebraska. To illustrate the changes, the data is being plotted against time in years, in two forms: by percent of material within a specified grain size fraction; and by percent of material coarser than a given particle size (i.e., fifty percent particle size, etc.).

d. Assessed zones of frequency inundation and adverse groundwater effects on private lands adjacent to the Missouri River and Niobrara River near Niobrara, Nebraska. This assessment was in preparation of pending court hearings. It included projections of long-term aggradation influences on flood flow elevations associated with delta growth at the Missouri-Niobrara River confluence.

e. Continued the assessment of additional land acquisition needs upstream from the present Oahe Project boundary near Bismarck, North Dakota. This included a re-assessment of guide control elevations for both fee purchase and flowage easement acquisition under future aggraded backwater conditions.

MISSOURI BASIN REGION

Bureau of Reclamation

Analysis of the Calamus River below Calamus Dam showed that degradation of 8 feet would occur. The volume of material to be degraded is about 370 acre-feet.

MISSOURI REGION

GEOLOGICAL SURVEY

Missouri-Marias Subregion

Sediment data are being collected on a daily basis during periods of major runoff at Big Sheep Creek near Dell, Mont., in cooperation with the U.S. Bureau of Land Management.

Sediment data are being collected on a daily basis at two sites on Muddy Creek, Mont., to monitor irrigation practices.

Sediment data are being collected on a monthly basis at Missouri River at Tostou, Mont., as a part of NASQAN.

Missouri - Musselshell Subregion

Sediment data are being collected on a daily basin at Missouri River near Landusky, Mont., in cooperation with the U.S. Corps of Engineers.

Sediment data are being collected on a monthly basis at the following as a part of NASQAN:

Missouri River at Virgelle, Mont.
Musselshell River at Mosby, Mont.
Missouri River below Fort Peck Dam, Mont.

Milk Subregion

Sediment data are being collected on a monthly basis at Milk River at Nashua, Mont., as a part of NASQAN.

Sediment data are being collected on a monthly basis at Little Peoples Creek near Hays, Mont., and Boxelder Creek near Rocky Boy, Mont., in cooperation with the Bureau of Indian Affairs.

Sediment data are being collected on a periodic basis at the following sites in Montana to gather baseline data:

Lodge Creek below McRae Creek at international boundary
Whitewater Creek near international boundary
Rock Creek below Horse Creek at international boundary
McEachern Creek at international boundary

Missouri - Poplar Subregion

Sediment data are being collected on a monthly basis at Missouri River at Circle, Mont., and at Redwater Creek near Vida, Mont., as a part of the Federal CBR program.

Sediment data are being collected on a monthly basis at Praire Elk Creek near Oswego, Mont., and at Horse Creek near Circle, Mont., in cooperation with the U.S. Bureau of Land Management.

Sediment data are being collected on a monthly basis at East Poplar River at international boundary in cooperation with the Department of State (International Joint Commission).

Sediment data are being collected on a monthly basis at the following sites to define water-quality characteristics of the Poplar River basin in cooperation with the Environmental Protection Agency:

Poplar River at international boundary
Poplar River near Scobey, Mont.
East Fork Poplar River near Scobey, Mont.
Poplar River above West Fork near Bredette, Mont.
West Fork Poplar River at international boundary
West Fork Poplar River near Bredette, Mont.
Poplar River near Poplar, Mont.

Upper Yellowstone Subregion

Sediment data are being collected on a daily basis at Yellowstone River at Billings, Mont., as a part of the Federal CBR program.

Sediment data are being collected on a monthly basis at Yellowstone River at Laurel, Mont., and at Yellowstone River at Huntley, Mont., in cooperation with the Environmental Protection Agency.

Sediment data are being collected on a monthly basis during periods of open water at Clarks Fork Yellowstone River at Montana-Wyoming State line and Clarks Fork Yellowstone River above Paint Creek near Clark, Wyo., to define sediment concentration of water that is sampled coincidentally for trace element analysis in cooperation with the U.S. Fish and Game Commission.

Sediment data are also being collected on a monthly and storm-event basis from March to October at Big Sand Coulee above State ditch near Badger Basin, Wyo., and Big Sand Coulee at Wyoming-Montana State line, to monitor suspended sediment being yielded to the Clark's Fork Yellowstone River in cooperation with the Bureau of Land Management.

Big Horn Subregion

Sediment data are being collected on a monthly basis at Beauvois Creek near St. Xavier, Mont., as part of the National Hydrologic Benchmark Network.

Sediment data are being collected on a monthly basis at Bighorn River at Bighorn, Mont., as a part of NASQAN.

Sediment data are being collected on a monthly and storm-event basis at East Fork Wind River near Dubois, Wyo., in cooperation with the U.S. Bureau of Indian Affairs.

Sediment data are being collected on a monthly and storm-event basis at Wind River near Crowheart, Wyo., at Nowood River near Tensleep, Wyo., and at Shoshone River near Lovell, Wyo., in cooperation with the Wyoming State Engineer.

Sediment data are being collected on a semi-monthly basis at LeClair Canal near Riverton, Wyo., in cooperation with the City of Riverton, Wyo.

Sediment data are being collected on a daily basis at Dry Creek near Bonneville, Wyo., in cooperation with the U.S. Bureau of Land Management.

Sediment data are being collected on an intermittent basis at Shoshone River below Willwood Dam, near Ralston, Wyo., in cooperation with the U.S. Bureau of Reclamation.

Sediment data are being collected on a quarterly basis at Bighorn River at Kane, Wyo., as a part of the Missouri River Basin Program.

Sediment data are being collected on a daily basis at Big Coulee near Lovell, Wyo., as part of the Missouri River Basin Program.

Tongue-Powder Subregion

Sediment data are being collected on a daily basis at Tongue River at Brandenberg Bridge, Mont., and begun on a daily basis at Tongue River at Miles City, Mont.

Sediment data are being collected on a daily basis during spring runoff and summer periods at Powder River at Moorhead, Mont., Powder River at Broadus, Mont., and at Powder River at Locate, Mont.

Sediment data are being collected on a monthly basis at Tongue River below Hanging Woman Creek near Birney, Mont., in cooperation with the Environmental Protection Agency.

Sediment data are being collected on a daily basis at Powder River near Arvada, Wyo., as part of the Federal CBR program.

Sediment data are being collected on a monthly and storm-event basis at Clear Creek near Arvada, Wyo., as part of the Federal CBR program.

Sediment data are being collected on a monthly and storm-event basis at Little Powder River above Dry Creek, near Weston, WY, in cooperation with the Wyoming State Engineer.

Sediment data are being collected on a monthly and storm-event basis at Salt Creek near Sussex, Wyo., at Clear Creek below Rock Creek, near Buffalo, Wyo., and at Clear Creek at Ucross, Wyo., in cooperation with the U.S. Bureau of Land Management.

Lower Yellowstone Subregion

Sediment data are being collected on a daily basis at Yellowstone River near Sidney, Mont., in cooperation with the U.S. Corps of Engineers.

Sediment data are being collected on a basis changed from monthly to daily during November at Yellowstone River at Forsyth, Mont.

Sediment data are being collected on a monthly basis at the following sites in cooperation with the U.S. Bureau of Land Management.

Sarpy Creek near Hysham, Mont.
Cherry Creek near Terry, Mont.
Glendive Creek near Glendive, Mont.
Cottonwood Creek near Intake, Mont.
Burns Creek near Savage, Mont.

Sediment data are being collected on a monthly basis at Yellowstone River at Miles City, Mont., and Yellowstone River near Terry, Mont., in cooperation with the Environmental Protection Agency.

Sediment data are being collected on a flow rate frequency at the following sites as a part of the Federal CBR program:

East Fork Armells Creek near Colstrip, Mont.
West Fork Armells Creek near Forsyth, Mont.
Armells Creek near Forsyth, Mont.
Rosebud Creek near Kirby, Mont.
Rosebud Creek near Colstrip, Mont.
Rosebud Creek above Pony Creek near Colstrip, Mont.
Rosebud Creek near Rosebud, Mont.
Rosebud Creek at mouth near Rosebud, Mont.

Missouri-Little Missouri Subregion

Sediment data are being collected on a monthly basis at Missouri River in cooperation with the Environmental Protection Agency.

Sediment data are being collected on a monthly basis at Bear Den Creek near Mandaree, ND, as part of the National Hydrologic Benchmark Network.

Sediment data are being collected on a monthly basis at Little Missouri River near Watford City, ND, as part of NASQAN.

Cheyenne Subregion

Sediment data are being collected on a monthly basis at Belle Fourche River near Elm Springs, S. Dak., and at Cheyenne River at Cherry Creek, S. Dak, as a part of NASQAN.

Sediment data are being collected on a monthly basis at Castle Creek above Deerfield Dam, near Hill City, S. Dak., as a part of the National Hydrologic Benchmark Network.

Sediment data are being collected on a monthly and storm-event basis at Red Water Creek at Wyoming - South Dakota State line in cooperation with the Wyoming State Engineer.

Sediment data are being collected on a monthly and storm-event basis at Cheyenne River near Dull Center, Wyo., as a part of the U.S. Geological Survey Federal energy program.

Sediment data are being collected on a monthly and storm-event basis at Dry Fork Cheyenne River near Bill, Wyo., at Belle Forche River near Moorcraft, Wyo., and at Lance Creek near Spencer, Wyo., in cooperation with the U.S. Bureau of Land Management.

Sediment data are being collected on a daily basis at Belle Fourche River below Rattlesnake Creek, near Piney, Wyo., and at Belle Fourche River above Dry Creek, near Piney, Wyo., in cooperation with the U.S. Bureau of Land Management.

Missouri-Oahe Subregion

Sediment data are being collected on a monthly basis at Spring Creek near Zap, N. Dak., in cooperation with the Environmental Protection Agency.

Sediment data are being collected on a monthly basis at Knife River at Breien, N. Dak., at Grand River at Little Eagle, S. Dak., and at Moreau River near Whitehorse, S. Dak., as a part of NASQAN.

Sediment data are being collected on a monthly basis at Brush Creek near Beulah, N. Dak., Coal Bank Creek near Havelock, N. Dak., and Buffalo Creek Tributary near Gascoyne, N. Dak., in cooperation with the U.S. Bureau of Land Management to collect hydrologic data in the lignite coal region.

Sediment data are being collected on a monthly basis at James River at LaMoure, N. Dak., as part of the Missouri River Basin program.

Missouri- White Subregion

Sediment data are being collected on a monthly basis at Missouri River at Pierre, S. Dak., and at Missouri River below Ft. Randall Dam, S. Dak., as a part of NASQAN.

Sediment data are being collected on a daily basis at Bad River near Ft. Pierre, S. Dak., in cooperation with the U.S. Corps of Engineers.

Niobrara Subregion

Sediment data are being collected on a daily basis at Niobrara River near Verdel, Nebr., in cooperation with the Department of Army, Corps of Engineers.

James Subregion

Sediment data are being collected on a monthly basis at James River near Scotland, S. Dak., as a part of NASQAN.

Sediment data are being collected on a monthly basis at James River near Columbia, S. Dak.

Missouri - Big Sioux Subregion

Sediment data are being collected on a monthly basis at Big Sioux River at Akron, Iowa, as a part of NASQAN.

Sediment data are being collected on a basis changed from daily to monthly at Big Sioux River near Dell Rapids, S. Dak.

North Platte Subregion

Sediment data are being obtained on a monthly basis at Buffalo Creek near Hebron, Colo., Grizzly Creek near Spicer, Colo., Grizzly Creek near Hebron, Colo., Little Grizzly Creek above Coalmont, Colo., and Little Grizzly Creek above Hebron, Colo., in cooeration with Jackson County, Colo.

Sediment data are being collected on a monthly basis at North Platte River near Lisco, Nebr.

Sediment data are being collected on a monthly basis at Encampment River above Hog Park Creek, near Encampment, Wyo., as a part of the National Hydrologic Benchmark Network.

Sediment data are being collected on a monthly and storm-event basis at the following stations in cooperation with the Wyoming State Engineer:

Little Medicine Bow River near Medicine Bow, Wyo.
Medicine Bow River above Seminoe Reservoir, near Hanna, Wyo.
Sweetwater River near Alcova, Wyo.
North Platte River at Casper, Wyo.
North Platte River at Orin, Wyo.
Laramie River near Fort Laramie, Wyo.
North Platte River at Wyoming - Nebraska State line

Sediment data are being collected on a monthly and storm-event basis at the following stations in cooperation with the U.S. Bureau of Land Management:

Sage Creek near Saratoga, Wyo.
Big Ditch near Coyote Springs, Wyo.
North Ditch near Coyote Springs, Wyo.
Hannah Draw near Hanna, Wyo.
Sweetwater River near South Pass City, Wyo.
West Fork Crooks Creek near Jeffry City, Wyo.

South Platte Subregion

Sediment data are being collected on a daily basis during the irrigation season April thru October at South Platte River near Weldona, Colo., starting April 1977, and bi-monthly at 15 sites on irrigation canals in the Weldona, Colo., area. This activity is in cooperation with the U.S. Bureau of Reclamation, Lower Missouri River Basin Region.

Sediment data are being collected on a monthly basis at South Platte River at Julesburg, Colo., as a part of NASQAN.

Elkhorn Subregion

Sediment data are being collected on an intermittent basis during periods of high flow at Elkhorn River near Norfolk, Nebr., and Logon Creek at Pender, Nebr., in cooperation with the Nebraska Natural Resources Commission.

Sediment data are being collected on a miscellaneous basis at Mill Creek at Louisville, Nebr., and Cedar Creek near Louisville, Nebr., in cooperation with the Nebraska Department of Water Resources.

Sediment data are being collected on a daily basis at Platte River at Louisville, Nebr., in cooperation with the U.S. Corps of Engineers, Omaha District.

Sediment data are being collected on a monthly basis at Salt Creek at Greenwood, Nebr., in cooperation with the Nebraska Natural Resources Commission.

Missouri - Little Sioux Subregion

Sediment data, which includes bed-material, suspended-sediment samples, and velocities at several points in a vertical, are being collected at the following stations in cooperation with the Corps of Engineers, Omaha District:

Missouri River near Ponca City, Nebr. (replaces site near Sioux City, Iowa)
Missouri River at Omaha, Nebr.
Missouri River at Nebraska, Nebr.

Sediment data are being collected at Missouri River at Sioux City, Iowa, and at Missouri River at Nebraska City, Nebr. as a part of NASQAN.

Sediment data are being collected on a miscellaneous basin at Weeping Water Creek at Weeping Water, Nebr., South Branch Weeping Water Creek near Union, Nebr., and Weeping Water Creek near Union, Nebr.

Missouri - Nishnabotna - Nodaway Subregion

Sediment data are being collected on a periodic basis at Walnut Creek near Fairview, Kans., Walnut Creek near Hamlin, Kans., Walnut Creek at Reserve, Kans., Wolf River at Hiawatha, Kans., Buttermilk Creek near Willis, Kans., Wolf River at Leona, Kans., Wolf River near Sparks, Kans., and begun at Wolf River southwest of Hiawatha, Kans., in cooperation with the U.S. Soil Conservation Service.

Sediment data are being collected on a daily basis at Nodaway River at Clarinda, Iowa, in cooperation with the Iowa Geological Survey.

Sediment data are being collected on a monthly basis at Missouri River at St. Joseph, Mo., as a part of NASQAN.

Republican Subregion

Sediment data are being collected on a near-monthly basis at Beaver Creek at Cedar Bluffs, Kans., South Fork Sappa Creek near Brewster, Kans., Prairie Dog Creek above Norton Reservoir, Kans., and White Rock Creek near Burr Oak, Kans., in cooperation with the Kansas Water Resources Board.

Sediment data are being collected on a flow rate basis at Frenchman River in cooperation with the U.S. Bureau of Reclamation.

Smoky Hill Subregion

Sediment data are being collected on a near-monthly basis at Smoky Hill River near Enterprise, Kans., Saline River near Tescott, Kans., Solomon River at Niles, Kans., North Fork Smoky Hill River near McAllaster, Kans., Ladder Creek below Chalk Creek near Scott City, Kans., Big Creek near Hays, Kans., North Fork Big Creek near Victoria, Kans., Saline River near Russell, Kans., North Fork Solomon River at Glade, KS, Deer Creek near Phillipsburg, Kans., South Fork Solomon River above Webster Reservoir, Kans., and Kill Creek near Bloomington, Kans., in cooperation with the Kansas Water Resources Board.

Kansas Subregion

Sediment data are being collected on a near monthly basis at Kansas River at Wamego, Kans., Little Blue River near Barnes, Kans., and Stranger Creek near Tonganoxie, Kans., in cooperation with the Kansas Water Resources Board.

Sediment data are being collected on a periodic basis at Little Delaware River near Horton, Kans. Little Grasshopper Creek near Effingham, Kans., Little Grasshopper Creek at Muscotah, Kans., Coal Creek near Arrington, and Coal Creek near Halfmound, Kans., in cooperation with the U.S. Soil Conservation Service.

Sediment data are being collected on a periodic basis at Kansas River at Lecompton, Kans., and Kansas River at DeSoto, Kans., as part of Corps of Engineers studies.

Sediment data are being collected on a periodic basis at Sixmile Creek trib. 5 mi. NE of Auburn, Kans., Sixmile Ck. trib. 4 mi. NE of Auburn, Kans., Wakarusa River 5 mi. West of Auburn, Kans., and Wakarusa River 4 mi. west of Auburn, Kans., in cooperation with the U.S. Soil Conservation Service.

Grand-Chariton Subregion

Sediment data are being collected on an intermittent basis at Elk Creek near Decatur City, Iowa, as part of the National Hydrologic Benchmark Network.

Sediment data are being collected on a monthly basis at Grand River near Summer, Mo., as a part of NASQAN.

Osage-Gasconade Subregion

Sediment data are being collected on a near-monthly basis at Dragon Creek near Burlingame, Kans., and Pottawatomie Creek near Garnett, Kans., in cooperation with the Kansas Water Resources Board.

Sediment data are being collected on a monthly basis at Osage River below St. Thomas, Mo., as a part of NASQAN.

Lower Missouri Subregion

Sediment data are being collected on a monthly basis and sand-size break at Missouri River at Hermann, Mo., as a part of NASQAN.

Special Studies

A report, in preparation, for release in the Journal of Research compares the sediment yield from two adjacent small drainage basins, in Wyoming one of which was partially disturbed by mining activity 25 years ago and not rehabilitated and the other one was left virtually undisturbed. Sediment yield was found to be eleven times greater from the disturbed basin than from the undisturbed one.

Sediment data are being collected at several sites in the Little Powder River basin of Wyoming and the adjacent Donkey sediment discharge to water discharge. The purpose is to compare the sediment yield characteristics from these two basins, one of which has considerable mining activity and contains a rapidly growing municipality while the other is relatively untouched.

Sediment data is being collected at several sites in the Rock Creek-Clear Creek drainage basin of Wyoming to relate suspended-sediment discharge to water discharge. The purpose is to attempt detection of changes in the sediment discharge characteristics of the stream as it heads in the mountains, flows through a municipal area, through an agricultural area and finally through a badlands, semi-arid region.

Sediment samples were obtained during a period of high flow from the Platte River at North Bend, Nebr., Elkhorn River at Waterloo, Nebr., Logan Creek at Pender, Nebr., Little Blue River at Hollenberg, Kans., and Big Blue River at Crete, Nebr., in cooperation with the Nebraska Natural Resources Commission to determine relative concentrations of minor elements, nutrients, and pesticides in the water and in the sediments.

A study by the Kansas district is in progress to find relations between channel bed and bank material, gradient, discharge, and channel geometry for streams throughout the Missouri River basin.

Through a program in cooperation with the Bureau of Land Management to help define baseline conditions in the potential coal mining Bull Mountain region of Montana, six monthly suspended sediment stations were established in October.

As part of the program to establish baseline data in areas of potential development for coal extraction in the Tongue and Powder River drainages of Montana, 22 sites were sampled for suspended sediment. Sampling frequencies ranged from monthly on perennial streams to periodic on intermittent streams.

SOIL CONSERVATION SERVICE

1. Studies of sediment damages and determinations of sediment yields were made in the following watersheds:

   a. Public Law 566

Major Drainage	Watershed	Stream	County(s)	State
Vermillion River	Turkey-Clay Creek	Turkey and Clay Creeks	Yankton Turner Hutchinson Clay	South Dakota
Boyer River	Mill-Picayune	Mill and Picayune Creeks	Shelby Crawford Harrison	Iowa
Republican River	Dry Creek	Dry Creek	Washington Republic Cloud Clay	Kansas
Missouri River	Wolf River	Wolf River	Brown Doniphan	Kansas
Wind River	Hidden Valley	Off channel	Fremont	Wyoming
Elkhorn	Maple Creek	Maple Creek	Stanton Cuming Colfax Dodge	Nebraska
Big Blue River	Swan Creek	Swan Creek	Saline Jefferson	Nebraska
Platte River	Stevens-Callahan	Stevens Creek Callahan Creek	Lancaster Cass Saunders	Nebraska
Platte River	Oak Middle (North Oak Subwatershed)	North Oak Creek	Lancaster Butler Saunders	Nebraska

   b. Public Law 534

Major Drainage	Watershed	Stream	County	State
Little Sioux River	Railroad Creek	Direct Tributaries	Cherokee	Iowa

c. Public Law 46

Major Drainage	Watershed	Stream	County	State
Big Horn	Crystal Creek	Off Channel	Big Horn	Wyoming

d. River Basin Investigations

Major Basin	Basin(s) Reported	State
Missouri River	Moreau, Grand, Bad, Cheyenne, and White Rivers	South Dakota
Missouri River	Northern Missouri River Tributaries	Missouri Iowa
Kansas River	Republican River	Nebraska

e. Resource Conservation and Development

Name of Project	Name of Measure	County(s)	State
Nebraksa Panhandle	White River Critical Area Treatment	Sioux, Dawes	Nebraska

f. A soil erosion and sediment yield study was made on the following watersheds in South Dakota for the Sixth District Council of Local Governments. The study was conducted in conjunction with a water quality management plan under Section 208 of the Federal Water Quality Pollution Control Amendments of 1972.

Major Drainage	Watershd	County(s)	State
Grand River	Sand and Squaw Creeks	Harding	South Dakota
Cheyenne	Dry and Horse Creeks	Butte	South Dakota
Cheyenne River	False Bottom Creek	Lawrence	South Dakota
Cheyenne River	Red Owl and White Owl Creeks	Meade	South Dakota
Cheyenne River	Elk Creek	Meade	South Dakota
Cheyenne River	Roxelder Creek	Pennington	South Dakota
Cheyenne River	Deep Creek	Pennington	South Dakota
Cheyenne River	Battle and Squaw Creeks	Custer Pennington	South Dakota
Cheyenne River	Horsehead Creek	Fall River	South Dakota

g. The Iowa Department of Soil Conservation was assisted in a sediment and erosion study on the following watersheds conducted under Section 208 of the Federal Water Pollution Control Act Amendments of 1972:

Major Drainage	Watershed	Stream	County(s)	State
Mud Creek	Unnamed	Direct Tributaries	Lyon	Iowa
Little Sioux River	Montogomery Creek	Montgomery Creek	Clay	Iowa
Soldier River	East Soldier	East Solider River	Crawford	Iowa

2. Reservoir Sediment Surveys

a. Reservoir sediment surveys of Van Oosting and Burns & Retling Reservoirs in Oliver County and Davis Reservoir in Slope County, all in North Dakota, have been made. Computations have not been completed.

b. A sediment survey was made on structure No. 1, Pattee Creek Watershed, Lincoln County, South Dakota. Computations are not completed.

c. The following reservoir sediment surveys were made in Kansas:

Reservoir	Date of Survey	Location Sec	Twp	Rge	Drainage Area (Sq Mi)	Original Capacity (Ac-Ft)	Age (Yrs)	Sediment Accum/Yr (Ac-Ft/Sq Mi)	Capacity Loss (Pct/Yr)
White Clay Brewery #14	5/77	17	6S	20E	0.45	311.8	15.7	2.78	1.6
Walnut Creek W-2	5/77	9	2S	16E	0.77	208.8	13.3	2.0	2.25
Lower Salt FRD #1	3/77	26	9S	5W	3.15	679.5	5.0	0.52	2.0
Lost Creek D-1	3/77	15	11S	8W	1.05	231.5	22	0.34	0.44
Turkey Creek #3	7/77	31	13S	3W	1.91	449.0	9	0.88	1.5

A sediment accumulation survey was completed on one reservoir in Weston County, Wyoming.

Reservoir	Date	Location Sec.	Twp.	Rge.	Drainage Area (Sq Mi)	Orig. Cap. (Ac-Ft)	Age (Yrs)	Sediment Accum/Yr (Ac Ft/Sq Mi)
Hayday	12/77	29	45N	67W	16	255	5	0

CORPS OF ENGINEERS

Southwestern Division

Sedimentation activities of the Southwestern Division office for the calendar year 1977 were as follows:

a. DM No. 11, Los Esteros Lake, Sedimentation and Degradation Ranges was approved.

b. The Eufaula Lake Resurvey was approved. The recommended establishment of a sediment sampling station to monitor sediment outflow at Trinidad Lake was approved.

c. ENG Form 1787 (Reservoir Sediment Data Summary Sheets) was approved for Hulah Lake.

d. The SWD Laboratory received 1,426 suspended sediment samples for determination of percent sediment. There were 22 samples of bed material received to be tested for grain size distribution.

Albuquerque District

Sediment Load Measurements. Suspended sediment measurements are made on the Arkansas and Purgatoire Rivers near Las Animas, Colorado, and daily measurements are made on the Arkansas River below John Martin Reservoir. These measurements are continued to supply data for sediment inflow and outflow computations at John Martin Reservoir. Daily suspended sediment sampling on the Purgatoire River was started below Trinidad Reservoir in order to supply data for sediment inflow and outflow computations.

Little Rock District

Sedimentation Surveys.

a. Index ranges on Beaver, Greers Ferry, and Nimrod Lakes were resurveyed. The underwater portions were surveyed with Bludworth Survey Recorder.

b. Sediment ranges in Ozark Lake, Lake Dardanelle, and Pool 9 were resurveyed with Motorola automated hydrographic survey equipment.

Sediment Load Measurements. Two hundred and thirty seven suspended sediment measurements were made at 44 stations during the year.

Other Investigations. Sediment surveys scheduled for the period FY 78 through FY 79 are Ozark Lake; Lake Dardanelle; David D. Terry Lake; Pools 9, 8, 7, 5, 4, 3, 2; Arkansas Post Canal; White River Entrance Channel; Blue Mountain, Bull Shoals, and Norfork Lakes.

Tulsa District

Sedimentation Surveys. The installation of sedimentation survey ranges on Birch and Waurika Lakes and the 4th resurvey of Canton Lake, all initiated in 1976, were completed in early 1977. Resurveys of Eufaula, Keystone, Oologah, and Toronto Lakes were conducted during the year. Reports on these surveys are not expected until 1979 or 1980 due to lack of personnel and an increased workload. Previously scheduled reports on W. D. Mayo, Robert S. Kerr, and Webber's Falls Locks and Dams have been rescheduled for 1978. The Reservoir Sediment Data Summary (ENG Form 1787) for the second resurvey of Hulah Lake and the detailed report on Eufaula Lake were completed and approval received. The detailed reports on Fort Supply Lake and Lake Texoma are about 90 percent complete and should be submitted in early 1978.

Sediment Load Measurements. Three suspended sediment gaging stations were discontinued and one station added; resulting in forty-six Arkansas River and fourteen Red River stations.

Other Investigations.

a. Maintenance dredging in the McClellan-Kerr Arkansas River Navigation System totaled 250,300 cubic yards in 1977. About 108,000 cubic yards were dredged from Robert S. Kerr Reservoir, 100,100 from above Newt Graham Lock and Dam, and 42,200 cubic yards from the pool above Choteau Lock and Dam.

b. Model studies of the area above and below W. D. Mayo Lock and Dam were completed in 1977. Construction of structures planned as a result of the model studies has also been completed. Effects of these structures on sedimentation in this area are as yet unknown; however, no dredging in this reach was required in 1977.

c. Construction of dikes in Robert S. Kerr Reservoir in the vicinity of navigation mile 358.5 has been completed. These dikes should prevent Canadian River sediment from entering the navigation channel.

d. Computerization of all data on suspended sediment sampling stations is in progress. When completed, this program will provide updated data on sediment concentrations, flow duration, and sediment loads at all stations within the Tulsa District.

e. The Motorola Mini-Ranger System for hydrographic surveys of lake beds was modified to provide more versatility and a Track Indicator added. This equipment has been tested on five district lakes during 1977 and is now ready for use throughout the Southwestern Division.

f. Analysis and adaptability of HEC-6, Scour and Deposition in Rivers and Reservoirs, for application to Tulsa District sediment problems are under study. Application of this program to small drainage areas with limited hydrologic data is the primary concern.

Bureau of Reclamation

The 100-year sediment inflow to Cookietown Reservoir was estimated to be 31,000 acre-feet. This volume represents 13.5 percent of capacity at the top of the conservation pool and gives a depth of sediment at the dam of 20.5 feet.

A 100-year scour estimate of 13 feet was made for replacing the Altus Pipeline at the North Fork Red River crossing. The pipeline was damaged by the May 28, 1977 flood.

Forest Service

ARKANSAS - WHITE - RED REGION

Kisatchie National Forest

Water quality was monitored at five stations. Forty acres of critically eroding Forest lands were stabilized resulting in an estimated annual sediment reduction of 1,000 tons.

Ouachita National Forest

Water quality was monitored at three stations. Five acres of critically eroding Forest lands were stabilized resulting in an estimated annual sediment reduction of 250 tons.

Ozark National Forest

Water quality was monitored at 46 stations. Turbidity was monitored at several of these stations in order to evaluate the impacts of management activities on the water resource. Three acres of critically eroding soils were stabilized resulting in an estimated sediment reduction of 150 tons annually.

ARKANSAS-WHITE-RED REGION

GEOLOGICAL SURVEY

Upper White Subregion

Sediment data are being collected on a monthly basis at North Sylamore Creek near Fifty Six, Ark., as part of the National Hydrologic Benchmark Network.

Upper Arkansas Subregion

Sediment data are collected on a twice monthly basis at Arkansas River at Canon City, Ark., and Arkansas River at Portland, Ark., in cooperation with the U.S. Bureau of Reclamation, Lower Missouri River Basin Region.

Sediment data are being collected on a monthly basis at Halfmoon Creek near Malta, Ark., as a part of the National Hydrologic Benchmark Network.

Sediment data are being collected on a daily basis at Purgatoire River below Trinidad Dam, Ark., starting in April, 1977, in cooperation with the U.S. Corps of Engineers, Albuquerque District.

Middle Arkansas Subregion

Sediment data are being collected on a near monthly basis at the following sites in cooperation with the Kansas Water Resources Board:

Arkansas River at Syracuse, Kans.
Whitewoman Creek near Leoti, Kans.
Mulberry Creek near Dodge City, Kans.
Arkansas River near Kinseley, Kans.
Guzzler's Gulch near Ness City, Kans.
Pawnee River near Larned, Kans.
Walnut Creek at Albert, Kans.
Rattlesnake Creek near Macksville, Kans.
Cow Creek near Claflin, Kans.
Blood Creek near Boyd, Kans.
Arkansas River near Hutchinson, Kans.
Little Arkansas River at Alta Mills, Kans.
Little Arkansas River at Valley Center, Kans.
North Fork Ninnescah River above Cheney Reservoir, Kans.
South Fork Ninnescah River near Pratt, Kans.
Ninnescah River near Peck, Kans.
Slate Creek at Wellington, Kans.
Cole Creek near De Graff, Kans.
Whitewater River at Towanda, Kans.
Arkansas River at Arkansas City, Kans.
Walnut River at Winfield, Kans.

Upper Cimarron Subregion

Sediment data are being collected on a near monthly basis at Bear Creek near Johnson, Kans., at Cavalry Creek at Coldwater, Kans., at North Fork Cimarron River near Richfield, Kans., and Crooked Creek near Nye, Kans., in cooperation with the Kansas Water Resources Board.

Lower Cimarron Subregion

Sediment data are being collected from Cimarron River near Buffalo, Okla., and Cimarron River at Perkins, Okla., as a part of NASQAN.

Arkansas-Keystone Subregion

Sediment data are being collected on a near monthly basis at Medicine Lodge River near Kiowa, Kans., in cooperation with the Kansas Water Resources Board.

Verdigris-Neosho Subregion

Sediment data are being collected at Newt Graham Lock and Dam (Verdigris River) Near Inola, Okla., and at Neosho River below Fort Gibson Lake near Fort Gibson, Okla., as a part of NASQAN.

Upper Canadian Subregion

Sediment data are being collected on a monthly basis at Canadian River near Sanchez, N.Mex., in conjunction with the Water Quality Surveillance Program and in cooperation with the NMISC (New Mexico Interstate Stream Commission).

Sediment data are being collected on a monthly basis at Revuelto Creek near Logan, N.Mex., in cooperation with NMISC

Sediment data are being collected on a monthly basis at Canadian River above New Mexico-Texas State line as a part of NASQAN.

Sediment data are being collected on a quarterly basis at Vermejo River near Dawson, N.Mex., in cooperation with NMISC.

Lower Canadian Subregion

Sediment data are being collected at Canadian River at Calvin, Okla., and at Canadian River near Whitefield, Okla., as part of NASQAN.

Sediment data are being collected at Canadian River near Canadian, Tex., as a part of NASQAN.

Sediment data are being collected at Beaver River near Guymon, Okla., at Beaver River at Beaver, Okla., and at North Canadian River at Woodward, Okla., as a part of NASQAN.

Lower Arkansas Subregion

Sediment data are bein collected at Arkansas River at Sands Spring Bridge near Tulsa, Okla., as a part of NASQAN.

Sediment data are being collected on a monthly basis at Arkansas River at Dam 13 near Van Buren, Ark., and at Arkansas River at David D. Terry Lock and Dam below Little Rock, Ark., as a part of NASQAN.

Red Headwaters Subregion

Sediment data are being collected at North Fork Red River near Headrick, Okla., as a part of NASQAN.

Sediment data are being collected on a monthly basis at Prairie Dog Town Fork Red River near Wayside, Tex., and at Salt Fork Red River near Wellington, TX, as a part of NASQAN.

Red-Washita Subregion

Sediment data are being collected at Blue Beaver Creek near Cache, Okla., as a part of the National Hydrologic Benchmark Network.

Sediment data are being collected on a periodic basis at Wichita River near Seymour, Tex., as a part of the Federal CBR program.

Sediment data are being collected on a monthly basis at Red River near Burkburnett, Tex., at Red River at Denison Dam near Denison, Tex., and at Washita River near Durwood, Okla., as a part of NASQAN.

Red-Sulphur Subregion

Sediment data are being collected from Kiamichi River near Big Cedar, Okla., as a part of the National Hydrologic Benchmark Network.

Laboratory Activities

The Geological Survey sediment laboratory located in Baton Rouge, La., analyzed suspended-sediment and bed-material samples collected by the U.S. Corps of Engineers at the following locations.

Red River at Fulton, Ark.
Red River at Shreveport, La.
Red River at Colfax, La.

SOIL CONSERVATION SERVICE

1. Studies of sediment damages and determinations of sediment yields were made for work plans in the following watersheds:

   a. Public Law 566

Major Drainage	Watershed	Strream	County(s)	State(s)
White River	Upper Strawberry River	Strawberry River	Fulton Izard Sharp	Arkansas Arkansas Arkansas
Arkansas River	Vache Grasse	Vache Grasse Creek	Sebastian	Arkansas
Arkansas River	San Bois Creek	Featherton Sans Bois Beaver Fish Mule Mtn. Fort	Haskell Pittsburg Latimer Latimer Latimer Latimer	Oklahoma Oklahoma Oklahoma Oklahoma Oklahoma Oklahoma
Cimmaron River	Turkey Creek	Turkey Creek	Garfield Kingfisher	Oklahoma Oklahoma
Neosho River	Diamond Creek	Diamond Creek	Morris Chase	Kansas
Neosho River	Middle Creek	Middle Creek	Morris Chase Marion	Kansas
Neosho River	South Fork Cottonwood River	South Fork Cottonwood River	Butler Greenwood Chase	Kansas
Neosho River	Peyton Creek	Peyton Creek	Chase	Kansas

   b. River Basin Investigations

Major Basin	Basin Reported	State(s)
Red River	Upper Red River	Oklahoma

   c. Resource Conservation and Development

Project Name	County	State(s)
Upper Mud Creek	Stephens	Oklahoma
Wyandotte	Delaware	Oklahoma
Lost Creek	Ottawa	Oklahoma
Carney Creek	Choctaw	Oklahoma
Flint Hills	Lyon	Kansas

2. Reservoir Sediment Surveys

The following reservoir sediment surveys were made in Kansas:

Reservoir	Date of Survey	Location Sec Twp Rge	Drainage Area (Sq Mi)	Original Capacity (Ac-Ft)	Age (Yrs)	Sediment Accum/Yr (Ac-Ft/Sq Mi)	Capacity Loss (Pct/Yr)
Big Caney # 41A	5/77	9 31S 9E	7.53	2045.9	10.25	0.54	1.8
Middle Caney #13-12	5/77	12 32S 9E	6.17	1373.6	12.5	0.42	0.96
Spring Creek #L-1	7/77	16 27S 4W	1.01	11.2	16	0.69	1.56

A sediment deposition survey was completed on the following reservoir during 1977.

Reservoir	Major Drainage	County	State(s)
Cobb Creek No. 3	Washita River	Custer	Oklahoma

Results of the above reservoir survey are summarized as follows:

Structure #	Date of Survey	Total Drainage Area	Length of Record	Original Capacity		Total Deposit	Average Annual Sed't Deposit		Annual Capacity Loss	
				Sed. Pool	Both Pools		Sed. Pool	Both Pools	Sed. Pool	Both Pools
		(Sq Mi)	(Yrs)	(Ac-Ft)		(Ac-Ft)	(Ac-Ft/Sq Mi)		(Percent)	
3	7/21/77	8.28	20.50	597.9	2401.9	200.9	0.11	0.31	.89	.41

2. An erosion map was completed for El Paso County, Colorado

1. Basic Data Collection

a. A Sedimentation Survey was performed on the following reservoir during 1976 but the summary was not reported.

Reservoir	Major Drainage	County	State
Site 1, San Diego-Rosita Creek	San Fernando	Duval	Texas

b. The following reservoirs are summarized as follows:

Watershed and Site No.	Date of Survey	Total Drainage Area (Sq Mi)	Length of Record (Yrs)	Original Capacity Sed. Pool (Ac-Ft)	Original Capacity Both Pools (Ac-Ft)	Total Drainage (Ac-Ft)	Average Annual Sed't. Deposit Sed. Pool (Ac-Ft/Sq Mi)	Average Annual Sed't. Deposit Both Pools (Ac-Ft/Sq Mi)	Annual Capacity Loss Sed. Pool (Percent)	Annual Capacity Loss Both Pools (Percent)
Site 1, San Diego-Rosita Cr.	4/13/76	23.19	15.54	284.30	5,189.60	223.06	1.62	14.35	0.57	0.28

Range lines were established on Green Canyon 1A structure in the Sibley, Green, Jaralosa and Candler Arroyos Waterhsed, Dona Ana and Sierra Counties, New Mexico. A new contour map and stage storage curve were developed. Sediment accumulation will be determined during 1978.

Under PL 92-500, Section 208, Nonpoint Source Pollution, erosion data have been collected on a county-wide basis and county maps were prepared on the following counties in New Mexico.

Bernalillo	Lincoln
Chavez	Luna
Dona Ana	Otero
Eddy	Sierra
Hidalgo*	Socorro
Lea**	Valencia*

The data and maps will be included with the 208 plans for each county.

*Counties partially in Lower Colorado Region.
**County Partially in Texas-Gulf Region.

CORPS OF ENGINEERS

Southwestern Division

Fort Worth District

The resurvey of Lavon Lake, East Fork of Trinity River, Trinity River Basin, Texas, was commenced in October 1975. Deliberate impoundment for the modified project was scheduled for December 1975. As many ranges as possible were profiled by land prior to the scheduled impoundment date and it was proposed to complete the remaining ranges when the water surface elevation reached the new conservation pool elevation. However, due to below normal rainfall and runoff conditions within the watershed the lake level remained below normal during 1976. In 1977 the lake level was high enough to complete the resurvey, even though it did not reach to new conservation pool elevation. The report of the resurvey is scheduled to complete in 1978.

Galveston District

Five hundred seventy-two (572) inplace samples were obtained from eleven navigation projects. These samples were analyzed to determine the quality of the sediment relative to chemical constituents which would be resuspended during dredging and disposal activities. Navigation projects sampled and the number of samples taken are as follows:

Navigation Project	No. Samples Taken
Gulf Intracoastal Waterway	263
Corpus Christi Ship Channel	73
Sabine-Neches Waterway	66
Houston Ship Channel	38
Matagorda Ship Channel	33
Double Bayou	23
Brazos Island Harbor	21
Trinity River & Tribs.	19
Texas City Channel	18
Freeport Harbor	10
Clear Creek & Clear Lake	8

Work on the analysis of sediment ranges at Addicks and Barker Reservoirs was suspended because land surface subsidence made the range data meaningless.

Bureau of Reclamation

An evaluation of the scour potential of the Frio River at Lone Star Gas Pipeline indicates the existing 5-foot depth is sufficient for a discharge of 1,200 ft^3/s but will probably be washed out if the spillway is ever used.

TEXAS - GULF REGION

National Forests in Texas

Water quality was monitored at 22 stations. Turbidity was measured at several of these stations in order to evaluate the impacts of management activities on the water resource. Three hundred eleven acres of critically eroding land were stabilized resulting in an estimated sediment reduction of 15,000 tons. Much of this acreage was in the Denton Creek Sub-watershed of the Trinity River basin.

TEXAS-GULF REGION

GEOLOGICAL SURVEY

Sabine Subregion

Sediment data are being collected at Sabine River near Ruliff, Tex., as a part of NASQAN.

Sediment data are being collected on periodic basis at Cow Bayou near Mauriceville, Tex., as a part of the Federal CBR program.

Neches Subregion

Sediment data are being collected on a monthly basis at Neches River at Evadale, Tex. as a part of NASQAN.

Trinity Subregion

Sediment data were being collected on a daily or more frequent basis at Big Sandy Creek near Bridgeport, Tex., and at Clear Creek near Sanger, Tex., in cooperation with Texas Department of Water Resources. These stations were discontinued September 30, 1977.

Sediment data are being collected on a periodic basis at West Fork Trinity River near Jacksboro, Tex., at Mountain Creek near Cedar Hill, Tex., at Duck Creek near Garland, Tex., and at Kings Creek near Kaufman, Tex., as a part of the Federal CBR program.

Sediment data are being collected, starting October 1, 1977, at Trinity River at Trinidad, Tex., as a part of NASQAN.

Sediment data are being collected on a periodic basis at Cypress Creek near Westfield, Tex., and Greens Bayou near Houston, Tex., as part of the Federal CBR program.

Sediment data are being collected on a daily or more frequent basis at Trinity River near Oakwood, Tex., in cooperation with the U.S. Corps of Engineers.

Sediment data were being collected on a monthly basis at Trinity River at Romayor, Tex., and Trinity River near Crockett, Tex., as a part of NASQAN. Trinity River near Crockett, Tex., was discontinued September 30, 1977.

Middle Brazos Subregion

Sediment data are being collected at Miller Creek near Munday, Tex., at Double Mountain Fork Brazos River at Justiceburg, Tex., and at Stinking Creek near Aspermont, Tex., as a part of the Federal CBR program.

Sediment data are being collected on a monthly basis at Salt Fork Brazos River near Aspermont, Tex., at Brazos River at Seymour, Tex., at Brazos River near Highbank, Tex., and at Brazos River near South Bend, Tex., as a part of NASQAN. Brazos River at Seymour, Tex., was discontinued September 30, 1977.

Lower Brazos Subregion

Sediment data are being collected on a daily basis at Brazos River at Richmond, Tex., as part of the Federal CBR program.

Sediment data are being collected on a monthly basis at South Fork Rocky Creek near Briggs, Tex., as a part of the National Hydrologic Benchmark Network.

Sediment data are being collected on a periodic basis at Berry Creek near Georgetown, Tex., as a part of the Federal CBR program.

Sediment data are being collected on a weekly or more frequent basis at Navasota River near Bryan, Tex., in cooperation with the U.S. Corps of Engineers.

Sediment data are being collected at Brazos River near Rosharon, Tex., as a part of NASQAN.

Upper Colorado Subregion

Sediment data were being collected on a monthly basis at Beals Creek near Westbrook, Tex., and begun October 1, 1977, at Colorado River above Silver, Tex., as a part of NASQAN. Beals Creek near Westbrook, Tex., was discontinued September 30, 1977.

Lower Colorado-San Bernard Coastal Subregion

Sediment data are being collected on a periodic basis at Walnut Creek at Webberville Road, Austin, Tex., and at Onion Creek at US Hwy. 183, Austin, Tex., as a part of the Federal CBR program.

Sediment data are being collected on a monthly basis at Colorado River at Austin, Tex., at Colorado River near Stacy, Tex., at Colorado River at Wharton, Tex., and begun October 1, 1977, at Colorado River near San Saba, Tex., as a part of NASQAN. Colorado River near Stacy was discontinued September 30, 1977.

Central Texas Coastal Subregion

Sediment data are being collected on a monthly basis at Guadalupe River at Victoria, Tex., at San Antonio River at Goliad, Tex., at Navidad River near Ganado, Tex., and begun October 1, 1977, on Lavaca River near Edna, Tex., as a part of NASQAN. Navidad River near Ganado, Tex. was discontinued September 30, 1977.

Nueces-Southwestern Texas Coastal Subregion

Sediment data are being collected on a periodic basis at Nueces River at Simmons, Tex., at Frio River at Calliham, Tex., and at Atascosa River at Whitsett, Tex., and begun October 1, 1977, at San Miguel Creek near Tilden, Tex., as a part of the Federal CBR program. Nueces River at Simmons, Tex., was discontinued September 30, 1977.

Sediment data are being collected on a monthly basis at Nueces River near Three Rivers, Tex., and Los Olmos Creek near Falfurrias, Tex., as a part of NASQAN.

SOIL CONSERVATION SERVICE

1. Basic Data Collection

   a. Sedimentation Surveys were made on the following reservoirs during 1977:

Reservoir	Major Drainage	County(s)	State(s)
White Rock Lake	Trinity River	Dallas	Texas
Site 2, East Laterals of Trinity	Trinity River	Henderson	Texas
Site 23, Upper Lake Fork Creek	Sabine River	Hopkins	Texas
Site 3B, Denton Creek*	Trinity River	Montague	Texas
Site 3-4, Denton Creek*	Trinity River	Montague	Texas
Site 3-6, Denton Creek*	Trinity River	Montague	Texas
Site 3-7, Denton Creek*	Trinity River	Montague	Texas
Site 6, Cummins Creek	Colorado River	Fayette	Texas
Site 9, Lower San Saba River	Colorado River	San Saba	Texas
Site 3, Sulphur Creek	Brazos River	Lampasas	Texas
Site 18, Valley Creek	Colorado River	Runnels	Texas

*Denton Creek Sites were surveyed during 1976 but were not reported in the 1976 Report.

b. Results of the above Reservoir Surveys are summarized as follows:

Watershed and Site No.	Date of Survey	Total Drainage Area	Length of Record	Original Capacity			Average Annual Sed't. Deposit		Annual Capacity Loss	
				Sed. Pool	Both Pools	Total Drainage	Sed. Pool	Both Pools	Sed. Pool	Both Pools
		(Sq Mi)	(Yrs)	(Ac-Ft)		(Ac-Ft)	(Ac-Ft/Sq Mi)		(Percent)	
White Rock Lake	4/4/77	99.10	67.00	--	18,158.00	7,437.00	--	1.14	--	0.61
Site 2, East Lat. of Trin.	5/31/77	19.80	22.50	442.40	9,113.80	48.43	1.24	2.15	0.28	0.02
Site 23, Upper Lake Fork	8/8/77	9.39	15.00	240.00	3,303.50	47.30	2.01	3.15	0.84	0.10
Site 3B, Denton Cr.	9/7/76	2.71	6.83	296.61	1,232.05	110.46	10.76	16.17	3.63	1.31
Site 3-4, Denton Cr.	10/22/76	0.17	6.83	20.99	43.87	5.43	0.59	0.80	2.81	1.82
Site 3-6, Denton Cr.	10/20/76	0.21	6.83	35.34	52.92	14.90	2.12	2.18	6.00	4.12
Site 3-7, Denton Cr.	10/13/76	0.31	6.83	29.23	82.68	14.00	0.66	2.05	2.26	2.48
Site 6, Cummins Creek	10/3/77	2.99	19.10	60.80	858.30	11.30	0.30	0.59	0.49	0.07
Site 9, L. San Saba	7/5/77	3.03	17.50	94.67	645.79	19.04	0.56	1.09	0.59	0.17
Site 3, Sulphur Cr.	5/2/77	10.81	17.30	258.30	3,229.20	32.40	1.28	1.87	0.50	0.06
Site 18 Valley Cr.	7/18/77	4.21	12.90	69.82	719.89	11.99	0.41	0.93	0.59	0.13

Under P1 92-500, Section 208, Nonpoint Source Pollution, erosion data have been collected and maps made for Lea County, New Mexico, Lea County is partially in the Rio Grande Region.

CORPS OF ENGINEERS

Southwestern Division

Albuquerque District

Sedimentation Surveys.

a. No sediment resurveys were made during Calendar Year 1977.

b. The sediment observation system for Trinidad Lake, Purgatoire River, Colorado, was installed in 1977 and consists of fourteen transverse ranges and nine degradation ranges. The entire system was surveyed by ground survey methods.

c. The sediment observation system for Los Esteros Lake, Pecos River, New Mexico, consisting of 24 sedimentation ranges and 9 degradation ranges, was submitted to SWD and approved. Installation will be in CY 78.

Sediment Load Measurements. Daily suspended samples of the outflow are taken by Corps personnel at Jemez Canyon Dam and Abiquiu Dam. Daily samples of the releases from Cochiti Lake are taken by the U.S.G.S. and samples on the Chama River are taken by the U.S.G.S. whenever stream flow measurements are made.

Other Investigations. Sediment Control -- Galisteo, Jemez Canyon, and Abiquiu Dams were operated to control sediment inflow to the Rio Grande.

RIO GRANDE REGION

GEOLOGICAL SURVEY

Rio Grande Headwaters Subregion

Sediment data are being collected on a monthly basis at Rio Grande near Lobatos, Colo., as a part of NASQAN.

Rio Grande - Elephant Butte Subregion

Sediment data are being collected on a monthly basis at Red River at Fish Hatchery near Questa, N. Mex., in cooperation with the New Mexico Interstate Streams Commission (NMISC).

Sediment data are being collected on a monthly basis at Rio Chama above Abiquiu Reservoir, N. Mex., at Rio Chama below Abiquiu Dam, N. Mex., and Rio Chama near Chamita, N. Mex., in cooperation with the U.S. Corps of Engineers.

Sediment data are being collected on a daily basis at Rio Grande at Otowi Bridge near San Ildefonso, N. Mex., and Rio Grande near Albuquerque, N. Mex., as a part of the Federal CBR program.

Sediment data are being collected on a daily basis at Rio Grande below Cochiti Dam, N. Mex., in cooperation with the U.S. Corps of Engineers.

Sediment data are being collected on a daily basis at Galisteo Creek below Galisteo Dam, N. Mex., and at Rio Puerco near Bernardo, N. Mex., as a part of the Federal CBR program.

Sediment data are being collected on a monthly basis at Rio Grande at San Felipe, N. Mex., and at Rio Grande at Isleta, N. Mex., in conjunction with the Water Quality Surveillance Program and financed cooperatively by NMISC.

Sediment data are being collected on a daily basis at Rio Grande near Bernardo, N.Mex., at Rio Grande at San Acacia, N. Mex., and at Rio Grande at San Marcial, N. Mex., in cooperation with NMISC.

Sediment data for total-load determinations are being collected on a bi-weekly basis at Rio Grande at Albuquerque, N. Mex., at Rio Grande near Bernardo, N. Mex., at Rio Grande at San Acacia, N. Mex., and Rio Grande at San Marcial, N. Mex., in cooperation with NMISC.

Sediment data are being collected on a daily basis at Rio Grande Conveyance Channel at San Acacia, N. Mex., and at Rio Grand River conveyance channel at San Marcial, N. Mex., in cooperation with NMISC. This includes bi-weekly determination of total-sediment loads at Rio Grande conveyance channel at San Marcial, N. Mex.

Sediment data are being collected on an intermittent basis at Rio Salado near San Acacia, N. Mex., in cooperation with NMISC.

Sediment data are being collected on a monthly basis at Rio Grande at Anthony, N. Mex., in conjunction with the Water Quality Surveillance Program and in cooperation with NMISC.

Sediment data are being collected on a monthly and storm-event basis at Rio Mora near Terrero, N. Mex., as a part of the National Hydrologic Benchmark Network.

Sediment data are being collected on a intermittent basis at Pecos River below Sumner Dam, N. Mex. (formerly called Alamagordo Dam), in cooperation with NMISC.

Sediment data are being collected on a daily basis at Pecos River at Santa Rosa, N. Mex., and at Pecos River near Artesia, N. Mex., as part of the Federal CBR program.

Sediment data were collected on a monthly basis at Pecos River near Anton Chico, N. Mex., and Pecos River below Six Mile Dam, N. Mex., and are being collected at Pecos River near Puerto de Luna, N. Mex., in conjunction with the Water Quality Surveillance Program and in cooperation with NMISC.

Sediment data are being collected on a monthly basis at Pecos River at Red Bluff, N. Mex., as a part of NASQAN.

Rio Grande-Mimbres Subregion

Sediment data are being collected on a monthly basis at Rio Grande at Fort Quitmon, Tex., as a part of NASQAN.

Rio Grande - Amistad Subregion

Sediment data are being collected on a monthly basis at Rio Grande at Foster Ranch, near Langtry, Tex., as a part of NASQAN.

Rio Grande Closed Basins Subregion

Sediment data are being collected on a monthly basis at Rio Tularosa near Bent, N. Mex., as a part of NASQAN.

Lower Pecos Subregion

Sediment data are being collected on a monthly basis at Pecos River near Langtry, Tex., as a part of NASQAN.

Rio Grande - Falcon Subregion

Sediment data are being collected on a monthly basis at Rio Grande at Laredo, Tex., as a part of NASQAN.

Lower Rio Grande Subregion

Sediment data are being collected on a daily basis at Rio Grande River near Brownsville, Tex., as part of the Federal CBR program.

Sediment data are being collected on a weekly or more frequent basis on North Floodway near Sebastion, Tex., and at Arroyo Colorado Floodway at El Fuste Siphon, south of Mercedes, Tex., as part of the Federal CBR program.

Special Studies

A study financed by Federal funds, "Channel Adjustments Downstream from Cochiti Dam on the Rio Grande," was continued. Its objectives are to document channel changes with time and distance downstream from the dam. Cross-section data, stream-bed levels, and sediment size distributions, are among the items studied for change. Funding for this project was discontinued in September 1977. A basic data report is now in preparation.

UPPER COLORADO REGION

Bureau of Reclamation

Degradation was found to be negligible downstream from a proposed Southern Ute Diversion Dam. Degradation was also found to be negligible for a proposed La Plata Diversion Dam. Preliminary estimates show that a desilting basin for the La Plata Diversion Dam 75 feet wide, 1,000 feet long, and 8 feet deep would trap all sand and gravel and about 50 percent of silt-size and smaller material.

A degradation of 1 foot for the tailwater reach of Soap Creek below Soap Park damsite was recommended for use in preparing final designs and estimates of Soap Park Dam.

Studies show a 100-year sediment accumulation of 163 acre-feet for Upper Stillwater Reservoir and 94 acre-feet for Lower Stillwater Reservoir. These values represent less than 1 percent of the reservoir capacity in either case.

Forest Service

UPPER COLORADO RIVER REGION

1. The Wasatch N.F. as part of the Barometer Watershed Program is monitoring the impact of reservoir construction on water quality, with special emphasis on suspended sediment, on the East Fork of Smiths Fork, a tributary to the Green River. The Stateline Dam, a 125-foot high rolled earth and rock fill dam, is being constructed by the Bureau of Reclamation. The study will continue during the three-year construction period.

2. The Wasatch N.F. as part of the Barometer Watershed Program is also undertaking a remote sensing study on the North Slope of the Uinta Mountains in May 1978 to evaluate suspended sediment concentrations in the East Fork of Smiths Fork. By correlating film density with depth integrated suspended sediment samples, they hope to locate natural sediment sources and evaluate the impacts of forest management activities. For preliminary information on either of these studies, contact Pete Bengeyfield on the Wasatch N.F.

UPPER COLORADO REGION

GEOLOGICAL SURVEY

Colorado Headwaters Subregion

Sediment data are being collected on a daily basis by automatic pumping samplers at West Tenmile Creek at Wheeler Junction, Colo., at Black Fox Creek near Vail, Colo., and Gore Creek at Vail, Colo., in cooperation with the Colorado Department of Highways.

Sediment data are being collected at Colorado River near Deboque, Colo., in cooperation with the Colorado River Water Conservation District.

Sediment data are being collected on a monthly basis at Parachute Creek near Grand Valley, Colo., in cooperation with the U.S. Environmental Protection Agency.

Sediment data are being collected on a daily basis at Parachute Creek near Grand Valley, Colo., and at Roan Creek near Deboque, Colo., as a part of Federal sedimentation study in oil shale areas.

Sediment data are being collected on a daily basis at East Middle Fork Parachute Creek near Rio Blanco, Colo., and East Fort Parachute Creek near Rulison, Colo., in cooperation with the U.S. Navy.

Sediment data are being collected on a monthly basis at Gunnison River near Grand Junction, Colo., and Colorado River near Colorado-Utah State line as a part of NASQAN.

Upper Colorado-Dolores Subregion

Sediment data are being collected on a comprehensive level at Colorado River near Cisco, Utah.

Great Divide-Upper Green Subregion

Sediment data are being collected on a monthly and storm-event basis at the following sites to relate suspended-sediment discharge to water discharge as a part of the U.S. Geological Survey Federal Energy Program:

Green River at Warren Bridge, near Daniel, Wyo.
Green River near Big Piney, Wyo.
Pine Creek above Freemont Lake, Wyo.
East Fork River near Big Sandy, Wyo.
Sand Springs Draw tributary near Boulder, Wyo.
New Fork River near Big Piney, Wyo.
Dry Basin Creek near Big Piney, Wyo.
LaBarge Creek near LaBarge Meadows ranger station, Wyo.

Fontenelle Creek near Herschler ranch, near Fontenelle, Wyo.
Green River below Fontenelle Reservoir, Wyo.
Fourmile Gulch tributary near Fontenelle, Wyo.
Big Sandy River at Lechkie Ranch, near Big Sandy, Wyo.
Little Sandy Creek above Eden, Wyo.
Big Sandy River at Gasson bridge, near Eden, Wyo.
East Otterson Wash near Green River, Wyo.
Green River at Big Island, near Green River, Wyo.
Skunk Canyon Creek near Green River, Wyo.
Deadman Wash near Point of Rocks, Wyo.
Salt Wells Creek near South Baxter, Wyo.
Gap Creek above Beans Spring Creek, near South Baxter, Wyo.
Beans Spring Creek near South Baxter, Wyo.
Beans Spring Creek at mouth, near South Baxter, Wyo.
Big Flat Draw near Point of Rocks, Wyo.
Cutthroat Draw near Rock Springs, Wyo.
No Name Creek near Rock Springs, Wyo.
Blacks Fork near Millburne, Wyo.
East Fork of Smith Fork near Robertson, Wyo.
West Fork of Smith Fork near Robertson, Wyo.
Smith Fork near Lyman, Wyo.
Mud Spring Hollow near Church Butte, near Lyman, Wyo.
Blacks Fork near Lyman, Wyo.
Hams Fork below Pole Creek, near Frontier, Wyo.
Meadow Springs Wash tributary near Green River, Wyo.
Blacks fork tributary number 2 near Green River, Wyo.
Blacks Fork tributary number 3 near Green River, Wyo.
Blacks Ford tributary number 4 near Green River, Wyo.
Summers Dry Creek near Green River, Wyo.
Squaw Hollow near Burntfork, Wyo.
Green River tributary number 2 near Burntfork, Wyo.
Burnt Fork near Burntfork, Wyo.
Henrys Fork near Manila, Utah

Sediment data are being collected on a daily basis at Green River near Green River, Wyo., to measure suspended-sediment from the upper Green River basin, as a part of the U.S. Geological Survey Federal Energy Program.

Sediment data are being collected at the following sites on a monthly and storm-event basis to relate suspended-sediment discharge to water discharge in cooperation with the Wyoming State Engineer:

Green River near LaBarge, Wyo.
Big Sandy River near Farson, Wyo.
Big Sandy River below Eden, Wyo.
Hams Fork near Granger, Wyo.
Blacks Fork near Little America, WY

Sediment data are being collected at the following sites on a monthly and storm-event basis to relate suspended-sediment discharge to water discharge in cooperation with the U.S. Bureau of Land Management:

Bitter Creek near Bitter Creek, Wyo.
Bitter Creek above Salt Wells Creek, near Salt Wells, Wyo.
Gap Creek below Beans Spring Creek, near South Baxter, Wyo.
Dry Canyon near South Baxter, Wyo.
Salt Wells Creek near Salt Wells, Wyo.
Little Muddy Creek near Glencoe, Wyo.
Muddy Creek near Hampton, Wyo.
Vermillion Creek near Hiawatha, Colo.

Sediment data are being collected on a daily basis at Separation Creek near Riner, Wyo., to measure sediment discharge from an area that has potential mine development. This is done in cooperation with the U.S. Bureau of Land Management.

Sediment data are being collected on a monthly and storm-event basis at Separation Creek at upper station, near Riner, Wyo., and Delaney Draw near Red Desert, Wyo., to relate sediment discharge to water discharge. This is done in cooperation with the U.S. Bureau of Land Management.

Yampa-White Subregion

Sediment data are being collected on a monthly and storm-event basis at Little Snake River near Dixon, Wyo., to relate sediment discharge to water discharge. This is done in cooperation with the Wyoming State Engineer.

Sediment data are being collected on a storm-event basis at Dry Cow Creek near Baggs, Wyo., to relate sediment discharge to water discharge. This is done for the Federal energy program.

Sediment data were obtained on a monthly basis at Yampa River near Maybell, Colo., and at Little Snake River near Lily, Colo., as a part of NASQAN.

Sediment data are being collected at several sites in the coal mining region of the Yampa River basin. Two stations are equipped with pumping samplers and where the flow is continuous, daily samples are collected. The following stations are operated at the indicated frequencies.

Station	Frequency of data collection
Middle Creek above Foidel Creek, Colo.	Monthly
Foidel Creek at Fish Canyon Road, Colo.	Monthly
Foidel Creek at mouth near Oak Creek, Colo.	Daily
Jubb Creek near mouth, Colo.	Monthly
Taylor Creek at mouth near Axial, Colo.	Monthly
Good Springs Creek near Axial, Colo.	Weekly
Wilson Creek below Taylor Creek near Axial, Colo.	Daily
Stokes Gulch near Hayden, Colo.	Daily

These stations are funded by the Bureau of Land Management.

Sedimentation data are being collected at several stations in the Piceance Creek basin to monitor the potential impact of the oil shale development project. All stations are equipped with pumping sediment samplers and where the flow is continuous, daily samples are collected. Intermittent stations are designed to sample all significant peaks and low flow samples are collected when possible. The following stations are operated at the indicated frequency:

Station	Frequency of data collection
Piceance Cr. bl. Rio Blanco, Colo.	Daily
Stewart Gulch above West Fork, Colo.	Daily
W. F. Stewart Gulch at mouth, Colo.	Peaks
Sorgham Gulch at mouth nr. Rio Blanco, Colo.	Peaks
Cottonwood Gulch nr. Rio Blanco, Colo.	Peaks
Piceance Cr. trib. nr. Rio Blanco, Colo.	Peaks
Scandard Gulch at mouth, Colo.	Peaks
Willow Cr. nr. Rio Blanco, Colo.	Daily
Piceance Cr. above Hunter Cr., Colo.	Daily
Black Sulfur Cr. nr. Rio Blanco, Colo.	Daily
Piceance Cr. bl. Ryan Gulch, Colo.	Daily
Piceance Cr. at White River, Colo.	Daily
Stake Springs Draw nr. Rangely, Colo.	Peaks
Corral Gulch bl. Water Gulch, Colo.	Peaks
Dry Fk. nr Rangely, Colo.	Peaks
Box Elder Gulch nr. Rangely, Colo.	Peaks
Trib. to Box Elder Gulch nr. Rangely, Colo.	Peaks
Corral Gulch nr. Rangely, Colo.	Daily
Corral Gulch at 84 Ranch, Colo.	Peaks
Yellow Cr. trib. at 84 Ranch, Colo.	Peaks
Duck Cr. at upper station nr. 84 Ranch, Colo.	Peaks
Duck Cr. nr 84 Ranch, Colo.	Peaks
Yellow Cr. nr. White River, Colo.	Daily

These stations are operated in cooperation with the Colorado River Water Conservation District.

Sedimentation data are being collected on a monthly basis at White River below Meeker, Colo., and White River above Rangely, Colo., in cooperation with the Environmental Protection Agency, and on a weekly basis at White River above Rangely, Colo., from May 1 to September 30 in cooperation with the Colorado River Water Conservation District.

Sedimentation data are being collected on a monthly basis at North Fork White River at Buford, Colo., and South Fork White River at Buford, Colo., and on a daily basis at Douglas Creek near mouth near Rangely, Colo., in cooperation with the Northwest Colorado Council of Governments.

Sediment data are being collected on a comprehensive level at White River near Colorado-Utah State line as part of a baseline data network for areas of potential oil-shale development in the White River Basin in Utah.

Sediment data are being collected on a comprehensive level at White River near mouth near Ouray, Utah, in cooperation with the U.S. Bureau of Land Management.

Lower Green Subregion

Sediment data are being collected on a comprehensive level at Green River near Jensen, Utah.

Sediment data are being collected at Willow Creek near Ouray, Utah, as a part of the baseline data network for areas of potential oil-shale development.

Sediment data are being collected on a comprehensive level at Green River at Green River, Utah.

San Juan Subregion

Sediment data are being collected on a monthly basis at Vallecito Creek near Bayfield, Colo., as a part of the National Hydrologic Benchmark Network.

Sediment data are being collected on a comprehensive level at Fremont River near Cainville, Utah, in cooperation with the Utah Department of Natural Resources.

Sediment data are being collected on a daily basis at Animas River at Farmington, N. Mex., and at San Juan River at Shiprock, N. Mex., as a part of the Federal CBR Program.

Sediment data are being collected on a weekly basis at Colorado River at Lees Ferry, Ariz., in cooperation with the U.S. Bureau of Reclamation.

Sediment data are being collected on a comprehensive level at San Juan River near Bluff, Utah.

Special Studies

Data are being obtained monthly at 15 sites as part of the establishment of baseline data for areas of potential oil-shale development in the White River basin, Utah.

A summary report of daily streamflow, sediment concentration, and sediment load data collected over a period of 29 years at the USGS gaging station on the Paria River at Lees Ferry, Ariz., is in preparation.

An energy project "Hydrologic Surveillance of Coal Lease Areas in Northwestern New Mexico" was continued. Sediment stations were established throughout the coal lease areas and are financed by Federal CBR and Bureau of Land Management funds.

SOIL CONSERVATION SERVICE

Erosion maps were completed for Routt, Mesa, and Garfield Counties, Colorado.

LOWER COLORADO REGION

GEOLOGICAL SURVEY

Little Colorado Subregion

Sediment data are being collected at North Fork Virgin River below Bullock Canyon near Glendale, Utah, in cooperation with the Utah Department of Natural Resources.

Sediment data are being collected on a periodic basis at Las Vegas Wash near Boulder City, Nev., as a part of the Federal CBR program.

Lower Colorado-Lake Meade Subregion

Sediment data are being collected on a daily basis at Moenkopi Wash near Moenkopi, Ariz.

Upper Gila Subregion

Sediment data are being collected on a monthly and storm-event basis as Mogallon Creek near Cliff, N. Mex., as a part of the National Hydrologic Benchmark Network.

Sediment data are being collected on a monthly basis at Gila River near Redrock, N. Mex., and at San Francisco River near Glenwood, N. Mex., in cooperation with NMISC.

Salt Subregion

Sediment data are being collected on a weekly basis at Santa Cruz near Nogales, Ariz., in cooperation with the Arizona Water Commission.

Sediment data are being collected on a monthly basis at Wet Bottom Creek near Childs, Ariz., as a part of the National Hydrologic Benchmark Network.

Sediment data are being collected on a monthly basis at thirteen sites in Arizona as a part of NASQAN.

Laboratory Activities

Size analysis of sediment samples collected by the Arizona, Arkansas, and Colorado districts are performed in the Albuquerque, N. Mex., sediment laboratory.

Special Studies

Sediment data were collected during infrequent periods of flow at three small watersheds in the area of strip mining along Coal Mine Wash near Kayenta, Ariz., as part of a study pertaining to the effects of mining and rehabilitation of spoil piles on the sediment yield.

LOWER COLORADO REGION

Bureau of Reclamation

It was recommended that a scour depth of 5 feet be used for the Centennial Wash crossing and the Jackrabbit Wash crossing and that a scour depth of 10 feet be used for the Hassayampa Wash crossing in preparing specifications designs for the Granite Reef Aqueduct. Furthermore, scour estimates were prepared for the downstream end of three overchutes for Granite Reef Aqueduct, Reach 7. These estimates were 7.0 feet for two overchutes and 6.0 feet for the other.

Scour estimates for 50-year frequency flood for the Pittman Lateral from the River Mountains Tunnel to the junction with the start of the Twin Lakes lateral at the Oakey Turnout were performed. In all, 18 drainages were considered, with scour estimates ranging from 2 to 15 feet.

Scour estimates were made for each of seven stations downstream from a proposed barrier dam in Las Vegas Wash for the Colorado River Basin Salinity Control Program. The height of the proposed barrier dam has been increased thereby necessitating a revised degradation study.

A value of 3,070 acre-feet of sediment was estimated to be the 100-year inflow to Cottonwood Dam for the Gallup-Navajo Indian Water Supply Project. The estimated elevation of sediment at the dam would be 5689.5 feet, representing a depth of 22.5 feet. It was also estimated that there is a sand load of 81,000 acre-feet per year at the San Juan Diversion Dam, the alternative to Cottonwood Dam.

The annual sediment inflow to Havasu Pumping Plant is estimated at 0.74 acre-foot using the Southwestern U.S. Sediment Yield Curve for the drainage area of 139 acres.

SOIL CONSERVATION SERVICE

1. Studies of erosion and sediment yields were made in the following watersheds:

   a. Public Law 56

Major Drainage	Watershed	Stream	County	State
Gila River	Lower Queen Creek	Queen Creek	Maricopa & Pinal	Oregon

An investigation was initiated to estimate depth of scour due to flow from proposed reservoir emergency spillway operation.

   b. River Basin Investigation

Major Basin	Basin Reported	State
Lower Colorado	Little Colorado	Arizona-New Mexico

   c. Under Public Law 92-500, Section 208, Nonpoint Source Pollution, erosion data have been collected and maps made for Hidalgo and Valencia Counties, New Mexico. These counties are partially in the Rio Grande Region.

2. A sediment accumulation survey was carried out for the Millet Swale Reservoir in Navajo County, Arizona.

Reservoir	Survey	Location Sec	Twp	Rge	Drainage Area (Sq Mi)	Orig. Cap. (Ac-Ft)	Age (Yrs)	Sediment Accum/Yr (Ac-Ft/Sq Mi)	Cap. Loss (Pct/Yr)
Millet Swale	6/77	20	12N	22E	40	1,342	18	0.66	2

Forest Service

GREAT BASIN REGION

The Forest Service participated in intensively monitoring the Cottonwood Landflow in Manti Canyon. Many techniques were used for monitoring landflow movement and deposition into the stream channels including (a) ground surveys, (b) aerial and ground photography, (c) Leupold-Stephens chart recorders mounted on firm ground but with an extension line connected to the landflow, and (d) a sediment trap at the mouth of the canyon. Preliminary analysis of this monitoring is available from Earl Olson, Soil and Water Management staff.

GREAT BASIN REGION

GEOLOGICAL SURVEY

Bear Subregion

Sediment data are being collected on a monthly and storm-event basis at Twin Creek at Sage, Wyo., to relate suspended-sediment discharge to water discharge. This is done in cooperation with the U.S. Bureau of Reclamation.

Great Salt Lake Subregion

Sediment data are being collected on a monthly basis at Red Butte Creek at Fort Douglas, near Salt Lake City, Utah, as part of the National Hydrologic Benchmark Network.

Black Rock Desert-Humboldt Subregion

Sediment data are being collected periodically at McDermitt Creek near McDermitt, Nev., as part of the Federal CBR program.

Sediment data are being collected periodically at Humboldt River at Inlay, Nev., and at Humboldt River at Rye Patch Dam, Nev., in cooperation with the Nevada Division of Water Resources.

Central Lahontan Subregion

Sediment data are being collected periodically at Truckee River near Nixon, Nev., at Truckee River near Farad, Calif., at Martis Creek near Truckee, CA, at Carson River at Fort Churchill, NV, and at Walker River near Wabuska, Nev., as part of the Federal CBR program.

Central Nevada Desert Basins Subregion

Sediment data are being collected periodically at Steptoe Creek near Ely, Nev., and at South Twin River near Round Mountain, Nev., as part of the Federal CBR program.

SOIL CONSERVATION SERVICE

River Basin Investigations

Major Basin	Basin Reported	State
Bear River	Bear River	Idaho
Little Malad River	Little Malad River	Idaho

PACIFIC NORTHWEST REGION

CORPS OF ENGINEERS

North Pacific Division

Portland District

a. Sediment sampling was conducted at stations on Rogue River, Applegate River and Umpqua River for planning and design purposes. Data are being maintained on suspended sediment, dissolved solid, temperature, turbidity, conductivity, pH and dissolved oxygen.

b. Information on sedimentation ranges is listed below.

Project: Lost Creek Reservoir
Activity: Installing monuments and surveying sedimentation ranges. All 22 designated ranges have been surveyed and tied in. The draft report will be finalized by 1 October 1978.
Purpose: Initial survey of reservoir and upstream and downstream channels for later evaluation of aggradation, degradation, and siltation.
Type of survey: Range Survey
Elements measured: Position of monuments, profile of ground surface and river sections.
Equipment used: Survey scope

Seattle District

a. Resurveys of riverine sedimentation ranges have been curtailed due to funding limitations except for those ranges directly associated with reservoirs.

b. The following table indicates the reservoir sediment range resurveys made in 1977:

Project	Ranges Resurveyed
Albeni Falls	none
Chief Joseph	14
Howard A. Hanson	none
Libby	14
Mud Mountain	none
Wynoochee	28

Walla Walla District

The following ranges in Lower Granite Reservoir were resurveyed:

a. Forty-four ranges on the Snake River between R.M. 107.7 and R.M. 149.0.

b. Three ranges on Asotin Creek, tributary to the Snake River at R.M. 145.34.

c. Twenty-four ranges on Clearwater River between R.M. 0.67 and R.M. 7.85.

The suspended sediment and bedload sampling program at the stream-gaging stations, Snake River near Anatone and Clearwater at Spalding, has not changed since last year and is planned to continue through 1979.

Forest Service

PACIFIC NORTHWEST REGION

1. The South Fork of the Salmon River (SFSR), Payette and Boise National Forest personnel continue to measure channel cross sections and bottom core samples in the major salmon spawning areas. In addition, suspended sediment and bedload are measured on several tributaries to evaluate the extensive watershed restoration efforts which were completed several years ago. Also, in 1976 a new series of low-level aerial photographs were taken of the SFSR. These photos will be compared with those taken in 1965 and 1972 to analyze changes in the size of sandbars and pools in the channel system.

2. In the phosphate mining areas of southeastern Idaho, personnel from the Caribou N.F. are collecting suspended sediment data in order to refine their sediment prediction model called SEDROUTE. The objectives and limitations of this computer model were spelled out completely in this report to you in 1975.

PACIFIC NORTHWEST REGION

GEOLOGICAL SURVEY

Kootenai-Pend Oreille-Spokane Subregion

Sediment data are being collected on a periodic basis from Pend Orielle River at international boundary and at Spokane River at Long Lake, Wash., as a part of NASQAN.

Sediment data are being collected on a periodic basis at Ross Creek near Troy, Mont., at Stanley Creek near Troy, Mont., and at Lake Creek near Troy, Mont., in cooperation with the Montana Department of Fish and Game.

Sediment data are being collected on a daily basis to determine sediment transport at the international boundary at Kootenai River near Copeland, Idaho, as part of the U.S. Geological Survey waterways-treaty program.

Upper Columbia Subregion

Sediment data are being collected on a periodic basis at Columbia River at Northport, Wash., as a part of NASQAN.

Sediment data are being collected on a periodic basis at Andrews Creek near Mazama, Wash., as a part of the National Hydrologic Benchmark Network.

Sediment data are being collected on a daily basis at Flathead River at Flathead, B.C., and at North Fork Flathead River near Columbia Falls, Mont., in cooperation with the Environmental Protection Agency.

Yakima Subregion

Sediment data are being collected on a daily basis at Yakima River at Kiona, Wash., as a part of NASQAN.

Sediment data are being collected at various flow rates at South Fork Coru d' Alene River at Kellogg, Idaho, at Lapwai Creek near Lapwai, Idaho, and at Palouse River near Potlatch, Idaho, in cooperation with the Idaho Department of Water Resources.

Sediment data are being collected on a bimonthly basis at Haden Creek above North Fork near Hayden Lake, Idaho, as a part of the National Hydrologic Benchmark Network.

Upper Snake Subregion

Sediment data are being collected on a monthly basis at Cache Creek near Jackson, Wyo., as a part of the National Hydrologic Benchmark Network.

Sediment data are being collected on a monthly basis at Snake River above Reservoir near Alpine, Wyo., and at Snake River near Heise, Idaho, as a part of NASQAN.

Sediment data are being collected on a periodic basis at Teton River near Driggs, Idaho, at Blackfoot River near Blackfoot,Idaho, at Port Neuf River near Tyhee, Idaho, and at Bruneau River near Hot Spring, Idaho, in cooperation with the Idaho Department of Water Resources.

Middle Snake Subregion

Sediment data are being collected on a monthly basis at Big Jacks Creek near Bruneau, Idaho, as a part of the National Hydrologic Benchmark Network.

Sediment data are being collected at various flow rates at Snake River at King Hill, Idaho, at Mores Creek near Arrow Rock Dam, Idaho, and at Weiser River near Weiser, Idaho, in cooperation with the Idaho Department of Water Resources.

Lower Snake-Salmon Subregion

Sediment data are being collected on a periodic basis at Minam River at Minam, Oreg., as a part of the National Hydrologic Benchmark Network.

Sediment data are being collected at Snake River at Burbank, Wash., as a part of NASQAN.

Middle Columbia Subregion

Sediment samples are being collected on a monthly basis at John Day River near McDonald Ferry, Oreg., at Klickitat River near Pitt, Wash., at Deschutes River at Moody, Oreg., and at Deschutes River near Biggs, Oreg., as a part of NASQAN.

Sediment data are being collected on a daily basis to evaluate the effect of land use within the basin, at Bear Creek near Prineville, Oreg., in cooperation with the U.S. Bureau of Land Management.

Lower Columbia Subregion

Sediment data are being collected on a monthly basis at Clearwater River at Spalding, Idaho, and at Columbia River at Warrendale, Oreg., as a part of NASQAN.

Sediment data are being collected on a quarterly basis at three sites on the Cowlitz River in Oregon.

Sediment data are being collected on daily basis at Bull Run River near Multnomah Falls, Oreg., and at Fir Creek near Brightwood, Oregon, in cooperation with the city of Portland, Oreg., to provide some information needed to define the effects of activities in the basin.

Willamette Subregion

Sediment data are being collected on a monthly basis from Tualatin River at West Linn, Oreg., and at Willamette River at Portland, Oreg., as a part of NASQAN.

Washington-Oregon Coastal Subregion

Sediment data are being collected on a monthly basis at Rogue River near Agress, Oreg., at Umpqua River near Elkton, Oreg., at Neholam River near Foss, Oreg., and at Chehalis River at Porter, Wash., as a part of NASQAN.

Sediment data are being collected at North Fork Quinatut River near Amanda Park, Wash., as part of the National Hydrologic Benchmark Network.

Sediment data are being collected at Soleduck River at mouth near La Push, Wash., at Bogachiel River near La Push, Wash., at Calawah River at mouth, near Forks, Wash., at Dickey River near Mora, Wash., at Waatch River at Meah Bay, Wash., at Sooes River near Ozette, Wash., and at Pilchuck Creek near Ozette, Wash.

Sediment data are being collected on a daily basis by an automatic sampler at Elliott Creek near Copper, Oreg., in cooperation with the U.S. Forest Service.

Sediment data are being collected on a daily basis by automatic samplers at Rogue River below Prospect, Oreg., at South Fork Rogue River, south of Prospect, Oreg., and at Rogue River at McCloud, Oreg., in cooperation with the U.S. Corps of Engineers.

Sediment data are being collected on a periodic basis at Big Butte Creek near McCloud, Oreg., at Elk Creek near Trail, Oreg., and Rogue River at Dodge Bridge, Oreg.

Puget Sound Subregion

Sediment data are being collected on a periodic basis at Elwha River at McDonald Bridge near Port Angeler, Wash., and at Skagit River near Mount Vernon, Wash., as a part of NASQAN.

Oregon Closed Basins Subregion

Sediment data are being collected on a monthly basis at Donner and Blitzer River near Frenchglen, Oreg., as a part of NASQAN.

Special Studies

Suspended sediment and turbidity samples are collected from irrigation return flows and canal flows in the Sulphur Creek basin.

As part of a continuing investigation of the hydrologic environment in the upper Salmon River, periodic suspended-sediment data were collected representing high, medium, and low flows at five selected tributaries. Previous to the investigation, which began in 1973, no sediment data were available for this part of Idaho. These data, plus other water-quality parameters, are being collected to indicate the general quality of water from a delicately balanced ecosystem and to determine possible stream degradation from numerous mining activities and poor road maintenance practices throughout the area. The White Cloud Peaks region is known for scenic vistas and primitive pristine character. Monthly suspended-sediment data and particle-size analyses are being collected at the Salmon River near White Bird gaging station.

During 1977 the special study of suspended and bedload transport in the Snake and Clearwater Rivers in the vicinity of Lewiston, Idaho, produced very little data because of extreme low flows occurring under drought conditions.

Periodic sampling of suspended-sediment at five sites in the Santiam River basin in Oregon was continued during 1977 in cooperation with the U.S. Forest Service. The purpose of the high-and medium-flow sampling program is to provide information on sediment yields from forested lands.

Miscellaneous suspended-sediment samples are collected on the Sail River near Neah Bay, Washington.

Failure of the Teton Dam (June 5, 1976) drastically altered the geomophic character of the existing valley river systems. Since that time continual effort has been toward rehabilitating the North Fork of the Teton River to pre-flood conditions. Under funding auspices of the Soil Conservation Service, monitoring of channel changes and sediment transport rates began in late 1976. However, vast gravel deposits several miles below the collapsed damsite are creating a pseudo-equilibrium effect on downstream sediment-transport processes. Analysis of data collected along the 27-kilometer length of river during the drought year of 1977 indicate minimal local adjustments in channel geometry and low transport rates. Continued data collection planned for 1978 include field measurement of water slope, flow depth, channel width, flow velocity, total sediment load, and particle-size distribution of sediment. An open-file basic data release is planned for late 1978.

PACIFIC NORTHWEST REGION

Bureau of Reclamation

A design was completed of a rock-gravel dike to be placed in front of trashracks at an elevation of 141.7 feet to eliminate bed material from entering Spring Hill Pumping Plant. Sediment of fine sand-size and smaller is carried in suspension in about an equal distribution from the water surface to the streambed. This material remains in suspension with water velocities as low as 0.5 foot per second. A trashrack cover was installed so that most of the sediment will be swept past the plant. Accumulation of sediment in the pump bays has been greatly reduced.

PACIFIC NORTHWEST REGION

SOIL CONSERVATION SERVICE

1. Studies of erosion and sediment yields were made in the following watersheds.

   a. Public Law 566

Major Drainage	Watershed	Stream	County	State
Umpqua River	Calapooya Creek	Calapooya Creek	Douglas	Oregon
Hood River	Oak Grove	Greenpoint	Hood River	Oregon

   b. River Basin Investigations

Major Basin	Basin Reported	State
North Coast Drainage	Tillamook*	Oregon
Columbia	Yakima	Washington
Columbia	Entiat	Washington
Snake	Palouse	Washington
Columbia	Kootenai River	Idaho
Columbia	Clark Fork River	Idaho
Columbia	Spokane River	Idaho
Columbia	Snake River	Idaho

*Tillamook Basin Study

Erosion and sediment yield studies have been completed on both agricultural and forest lands in the basin. Core samples taken from the Bay area by the USGS have been classified and the geologic age of the sediments determined.

   c. RC&D Investigation

Major Basin	Watershed	Stream	County	State
Willamette	Ash Creek	Ash Creek	Polk	Oregon

d. Nonpoint Pollution Study

Area	Counties	State
North Central	Wasco, Sherman, Gillman, Morrow, Umatilla	Oregon

2. Sedimentation Surveys

A sediment survey and watershed evaluation was completed on Plat "I" Reservoir in Sutherlin Creek Watershed, Oregon. A watershed and sediment accumulation survey was completed on Cooper Creek Reservoir in Sutherlin Creek Watershed and calculation of sediment volumes are expected to be completed in 1978.

Reservoir	Date	Location Sec	Twp	Rge	Drainage Area (Sq Mi)	Orig. Cap. (Ac-Ft)	Age (Yrs)	Sediment Accum/Yr (Ac-Ft/Sq Mi)	Cap. Loss (Pct/Yr)
Plat "I"	2/76	14	25S	5W	9	891	8	0.268	0.27

Data was developed on Lower Willow Creek, Granite County, Montana, to compare suspended sediment yield to reservoir based on stream gage data with a completed sediment accumulation survey on the reservoir. Data indicated that the stream gage and reservoir measurements were not comparable in this particular case.

CALIFORNIA REGION

CORPS OF ENGINEERS

South Pacific Division

Los Angeles District

Operation of four sediment stations in cooperation with the USGS is being continued in the Santa Ana River Basin. No significant data were collected until late December 1977. These data are not currently available and will be reported with the CY 1978 report.

Sediment surveys were conducted at seventeen debris basins and two flood control basins. Reservoir Sedimentation Data Summary Sheets (ENG Form 1787) for these projects are completed. These basins are: Blanchard, Bluegum, Brand, Cloud Creek, Cooks Canyon, Golf Club Drive, Hay, Irving Drive, La Tuna, Limekiln, Lincoln, Little Dalton, Live Oak, Oak, Pickens, San Dimas, Starfall, Stough and Sturtevant.

Sacramento District

Routine samples of lake outflow were collected and analyzed for suspended sediment at Black Butte, Pine Flat, Kaweah, Success and Isabella Lakes.

Detailed surveys of sediment ranges at Lake Kaweah and Success Lake were completed during 1977. Results of the surveys have not been received and will be submitted on ENG Form 1787 when they become available.

San Francisco District

Sedimentation activities in the District during 1977 encompassed one study in progress regarding the distribution and circulation of contaminants in San Francisco Bay, and obtaining data on sediment transport and turbidity in connection with water resources projects currently authorized, under construction, or in operation. A summary of work accomplished in Calendar Year 1977 is given in the following paragraphs.

Sedimentation Studies for Water Resources Projects.

a. There are five cooperative sediment sampling stations currently in operation in the San Francisco District, including a station on Corte Madera Creek which went into operation in Fiscal Year 1978. Data from these stations will be used to evaluate the effects of the Coyote Dam - Lake Mendocino and Warm Springs Dam - Lake Sonoma Projects on the sedimentation characteristics of the Russian River, and to evaluate the sediment transport characteristics of the Napa River, Wildcat Creek and Corte Madera Creek. The data gathered on Wildcat Creek and

Corte Madera Creek will be used to develop maintenance requirements associated with the authorized flood control projects on these streams. The Napa River Flood Control project is currently inactive. The sediment sampling station on the Napa River will be discontinued after Fiscal Year 1978.

b. A program designed to monitor the turbidity of inflow to and releases from Lake Mendocino has been in operation since March 1973. Measurements are made bi-weekly by reservoir operations personnel under the guidance of the U.S. Geological Survey. The data are then published in USGS water supply papers.

c. The turbidity monitoring program being conducted for the Warm Springs Dam - Lake Sonoma Project was continued in 1977. Water quality samples taken four times a year at four stations above the damsite are analyzed for turbidity to augment the turbidity data being gathered at the cooperative sediment sampling station Dry Creek near Geyserville.

Dredge Disposal Study - San Francisco Bay and Estuary.

a. One of the thirteen study elements of the Dredge Disposal Study is directly concerned with sedimentation in San Francisco Bay, the pollutant Distribution Study.

b. The Pollutant Distribution Study Element is an evaluation of the horizontal and vertical distribution of contaminants in the Bay and the association of contaminants with sediment types. The study discusses the Bay in general and includes an evaluation of all previous pollution sampling conducted by the Corps and others. Detailed evaluations are being made of three characteristic areas of the Bay. They are the Oakland Inner - Outer Harbor, a well developed, restricted current, industrial harbor complex, San Pablo Strait - Berkeley Flats, a shoaling area in the Central Bay, and San Pablo Bay - Carquinez Strait, a transition region from fresh water to saline water. Seismic profiles and deep core samples, which were analyzed by layers, were obtained from the three areas as tools for relating the physical and hydrodynamic factors in the areas with information on sources of pollutants and sediment circulation patterns. All field and laboratory work has been completed. The report appendix is scheduled to be completed in Fiscal Year 1978.

c. Other study elements address disturbances generated by the dredging and disposal operation and the impacts of dredging on the chemical, biological and physical factors in the Bay. All appendices and the Main Report except for the one study discussed above have been published.

Bureau of Reclamation

Scour estimates for Salt Creek Siphon, Petroleum Creek Siphon, Buckeye Creek Siphon, and Bird Creek Siphon were completed and were found to be 5.0 to 6.0 feet. Also, sediment estimates for 37 culverts for design of bathtub-type basin outlets were determined. These data were to be used in final designs and estimates for Reach 8, Tehama-Colusa Canal.

A scour of 5 feet where the Pacheco Tunnel crosses the South Fork of Pacheco Creek was estimated.

CALIFORNIA REGION

GEOLOGICAL SURVEY

Klamath - Northern California Coastal Subregion

Lumbering and sawmill operations at the preriphery of Redwoods National Park, Calif., may load the streams entering the park with sediment and unwanted nutrients. A study is being made to determine the present rates of sediment transport, the chemical quality, and the level of nutrients of the streams at the periphery and within the park, and to provide an overall appraisal of water resources in the park. Two data releases covering the period September 1, 1973, through September 30, 1975, have thus far been published. The study will aid the Park Service in developing and protecting the water resources and ecological system in the park. Work is being done in cooperation with the National Park Service.

Sacramento Subregion

Sediment data were collected during the infrequent periods of flow at Highland Creek below Highland Dam near Kelseyville, Calif., as part of a trap-efficiency study in cooperation with the U.S. Soil Conservation Service. Data collection was discontinued as of September 30 and a final report will be forthcoming.

The Cottonwood Creek Project is designed to solve problems found in the Cottonwood Creek drainage, and it fills specific needs of the U.S. Corps of Engineers. Streamflow data are collected at six sites, total-load sediment data and turbidity at four sites, and water temperature data at seven sites. This has been the first opportunity to collect high-flow data since the program began in 1976.

The Sacramento River Bank Stabilization project is a data-collection program for the U.S. Corps of Engineers. The Corps' purpose is to determine the benefits derived from their bank stabilization program. The area of consideration begins at Keswick Dam near Redding, Calif., and extends downstream to Collinsville, Calif., a distance of about 250 miles. Initially, however, the Survey is collecting data from Red Bluff to Chico Landing, Calif. a distance of about 100 miles. The data includes three total-load stations and four suspended-sediment stations. In addition, about 25 cross sections were surveyed for size and shape. A documentation of channel changes will result from re-surveys of the same cross sections.

The Grass Valley Creek project is a continung total-load data-collection program for the California Department of Water Resources. We monitor the major sediment contribution to the Trinity River below Lewiston Dam.

San Francisco Bay Subregion

A report on sediment transported by streams tributary to San Francisco Bay, Calif., is in preparation. Short-term sediment discharge records were used to estimate annual sediment discharge during the period 1909-66.

A combination scientific and land use planning analysis of Napa and Sonoma Counties in the San Francisco Bay, Calif., region is being prepared as a culmination of geomorphic studies begun in 1971. The analysis is based on a four-step procedure that defines the relations among terrain properties, land use activities, and erosional problems. The four steps are: (1) identification of land use activities, (2) collation of the critical physical factors that control land-surface stability, (3) mapping of erosional and depositional features, and (4) production of a matrix relating land use activities to erosional and depositional province disturbance potential. Study is part of the USGS-HUD San Francisco Bay, Calif., Regional Study.

Sediment yield and water-quality conditions in an urbanized basin and two relatively unurbanized subbasins are being monitored to determine changes caused by urbanization. A modified version of the U.S. Geological Survey rainfall-runoff model is being used in the study to simulate stormflows at ungaged sites where periodic sediment samples were obtained. Study is being made in cooperation with Santa Clara Valley, Calif., Water District.

Above normal runoff has resulted in overflow into Yolo Bypass and high flows at Sacramento, Calif., and on the San Joaquin River at Vernalis, Calif. The delta turbidity program, in cooperation with the California Department of Water Resources, is again operational after a 2-year drought that suspended data collection. This is a program designed to measure the concentration of suspended sediment, 4 microns or less in size, which is carried into the delta.

Central California Coastal Subregion

A study to determine the present storage capacity and the quantity of sediment accumulated within Santa Margarita Reservoir, Calif., since 1953 has been completed and is published as follows:

Glysson, D. G., 1977, Sedimentation in Santa Margarita Lake, San Luis Obispo County, Calif.: Menlo Park, Calif., U.S. Geological Survey Water-Resources Inv. 77-56, 15 p.

South Coastal Subregion
Sediment Discharge in the Santa Clara River Basin

Open file report, "Estimate of Sediment Discharge in the Santa Clara River Basin, California" by Rhea P. Williams is in the stages of final review.

SOUTHERN CALIFORNIA SEDIMENT MANAGEMENT PROJECT

Continued sediment data collection during infrequent storm periods at Los Angeles and San Gabriel Rivers, and at Coyote Creek near Long Beach, Calif., as part of a sediment management study by the California Institute of Technology. This study will assess the magnitude of erosion during a period of urbanization and evaluate erosion and transport.

LOWER SANTA ANA RIVER SEDIMENT SUMMARY

Continued sediment data collection for daily total load at the sediment stations between Prado Dam and the Pacific Ocean. The data are summarized yearly for spreading diversion and flood control operations. The work is being done in cooperation with Orange County Environmental Management Agency.

SOIL CONSERVATION SERVICE

Sedimentation Surveys

Sediment volumes have been measured in four stockwater ponds. The purpose was to test the validity of USLE as a predictor and subsequently use it for planning in the entire pilot area. The results indicated that in general the measured values were lower than those estimated by the USLE.

Reservoir	Date of Survey	Location Sec	Twp	Rge	Drainage Area (Sq Mi)	Age (Yrs)	Sediment Accum/Yr (Tons/Acre)
Cicala Pond	8/15/77	2	26N	4W	0.02	22	0.35
Heiber Pond	8/16/77	13	26N	7W	2.4	14	0.41
Lawrence Pond	8/17/77	6	26N	3W	0.13	16	0.02
McClure Pond	8/17/77	13	26N	5W	0.17	14	0.26

ALASKA REGION

CORPS OF ENGINEERS

North Pacific Division

Alaska District

a. A sediment transport study for the Tanana River near Fairbanks has been performed and the results of the study are contained in the Tanana River Sediment Transport Study. The analysis is based on thirteen sets of suspended and bedload samples collected by the USGS during the open water season. The purpose and study objectives are outlined in the Report. Results of the study showed that the average annual bedload transported is approximately 280,000 c.y. The study will be continued for the next three years.

b. The remaining sediment samples gathered during Calendar Year 1977 were procured through our Cooperative Stream Gaging Program with the USGS. Results of this program will be reported in the 1977 Water Resources Data for Alaska.

ALASKA REGION

GEOLOGICAL SURVEY

Arctic Slope Subregion

The environmental impact study on the National Petroleum Reserve of Alaska was begun in June 1977. Sediment data are being collected on the Colville River near Nuiqsut, Alaska, Meade River at Atkasuk, Alaska, and Miguakiak River near Teshekpuk Lake near Lonely, Alaska.

Although the Colville River and Meade River flow four months of the year, most of the discharge and suspended-sediment load occur during the first few weeks of spring breakup. The maximum instantaneous sediment discharges in Teshekpuk Lake and the Miguakiak River resulted from upstream flow (flow reversal) caused by floodwaters from the larger Ikpikpuk River. Maximum streamflow in the Ikpikpuk River occurred at about the same time as in the Colville and Meade Rivers, but preceded spring breakup in the Maguakiak River and Teshekpuk Lake.

Sediment data are being collected on a periodic basis at the Kuparuk River near Deadhorse, Alaska, as part of NASQAN.

Northwest Alaska Subregion

Sediment data are being collected on a periodic basis at Kobuk River near Kiana, Alaska, as part of NASQAN.

Yukon Subregion

A cooperative study with U.S. Corps of Engineers to collect and evaluate sediment-transport and river hydraulic data in the Tanana River near Fairbanks, Alaska, was initiated in April 1977. Sediment data are being collected in the Tanana River at Fairbanks, Alaska, and at Tanana River near the North Pole, Alaska. The Corps of Engineers will use these data in the design and operation of engineering structures on the Tanana River and the quarrying of gravel from the river in the vicinity of Fairbanks.

As part of the Alaska Coal Research Study, sediment data were collected on a periodic basis at the following sites:

Healy Creek at Suntrana, Alaska
Healy Creek near Usibelli, Alaska
Cripple Creek near Suntrana, Alaska
Coal Creek near Suntrana, Alaska
Lignite Creek above Sanderson Creek near Suntrana, Alaska
Lignite Creek below Sanderson Creek near Suntrana, Alaska
Lignite Creek near Healy, Alaska

In cooperation with the Alaska Department of Natural Resources, a study was initiated in August 1977 to evaluate the geohydrology of the Delta-Clearwater area in relation to the agricultural development in this area. Sediment data are being collected at Clearwater Creek above Sawmill Creek near Delta Junction, Alaska, at Granite Creek above Sawmill Creek near Delta Junction, Alaska, at Sawmill Creek above Granite Creek near Delta Junction, Alaska, at Clearwater Lake outlet near Delta Junction, Alaska, and at Clearwater Creek near Delta Junction, Alaska.

Suspended-sediment data are being collected on a periodic basis at the Yukon River at Pilot Station, Alaska, as a part of NASQAN.

Sediment data are being collected on a miscellaneous basis at the following sites:

Bear Creek at Hogatza, Alaska
Salcha River Site 2, 8 miles above gage near Salchaket, Alaska
Salcha River 8 miles above gage near Salchaket, Alaska
Middle Fork Koyukuk River near Wiseman, Alaska
Fish Creek near Livengood, Alaska
Hess Creek above Fish Creek near Livengood, Alaska

Southwest Subregion

Sediment data are being collected on a periodic basis at Kiskokwim River at Crooked Creek, Alaska, as a part of NASQAN.

South Central Alaska Region

The cooperative program with the U.S. Army Corps of Engineers was continued through 1977. Sediment data are being collected on a periodic basis at Susitna River near Denali, Alaska, and at Susitna River at Gold Creek, Alaska. This data will be used in the evaluation of the proposed Watana and Devil's Canyon hydroelectric power sites.

In cooperation with the Alaska Department of Fish and Game, sediment data are being collected on a periodic basis at Susitna River above Portage Creek near Gold Creek, Alaska, at Susitna River at Gold Creek, Alaska, and at Susitna River at Sunshine, Alaska.

As part of the Alaska Coal Research Study, sediment data are being collected at the following sites:

Bishop Creek near Tyonek, Alaska
Capps Creek near Tyonek, Alaska
Chuit Creek 5.4 miles above mouth near Tyonek, Alaska

Chuit Creek at mouth near Tyonek, Alaska
Chuitna River above Chuit Creek near Tyonek, Alaska
Chuitna River below Wolverine, Alaska
Chuitna River near Tyonek, Alaska
Peters Creek near Petersville, Alaska
Peters Creek above Martin Creek, at Peters Creek, Alaska

The cooperative program with the U.S. Forest Service was continued through 1977. Sediment data are being collected on a periodic basis at Dick Creek near Cordova, Alaska, and at West Fork Olsen Bay Creek near Cordova, Alaska. These data will be used to define the water quality on Forest Service lands.

Sediment data are being collected on a periodic basis at Talkeetna River near Talkeetna, Alaska, as part of the National Hydrologic Benchmark Network.

Sediment data are being collected on a periodic basis at Susitna River at Susitna Station, Alaska, as a part of NASQAN.

Sediment data are being collected on a miscellaneous basis at the following sites:

Gulkana River near Sourdough, Alaska
Gulkana River at Sourdough, Alaska
Little Tonsina River near Tonsina, Alaska

Southeast Alaska Subregion

As part of the cooperative program with the U.S. Forest Service, sediment data are being collected on a periodic basis at Kalinin Creek near Sitka, Alaska, at Old Tom Creek near Kasaan, Alaska, at Big Creek near Point Baker, Alaska, at Perkins Creek near Ketchikan, Alaska, and at Rocky Pass Creek near Kake, Alaska. These data will be used to define the water quality of Forest Service lands.

A cooperative study with the Alaska Department of Environmental Conservation on the Hydrology and Water Quality of the Keta River Basin near Ketchikan was initiated in 1977. Sediment data are being collected at Keta River near Ketchikan, Alaska, and at White Creek near Ketchikan, Alaska.

Sediment data are being collected on a periodic basis at the Stikine River near Wrangell, Alaska, as a part of NASQAN.

Sediment data are being collected on a miscellaneous basis at the following sites:

Skagway River near Skagway, Alaska
Kadashan River above Hook Creek
near Tenakee, Alaska
Tonalite Creek near Tenakee, Alaska
Hook Creek near Tenakee, Alaska
Nakwasina River near Sitka, Alaska
Taiya River near Skagway, Alaska
Gold Creek at Juneau, Alaska
Staney Creek near Craig, Alaska

Special Studies

Trans-Alaska Pipeline System

Channel erosion surveys were made at 28 sites along the Trans-Alaska Pipeline System (TAPS) at most major stream crossings. This work continued a surveillance project begun in 1971 before construction, and continued through construction and early operation of TAPS. An additional site was surveyed in 1977 along a reach of the Sagavanirktok River near Prudhoe Bay.

Significant Results.--During 1977 TAPS construction was completed and oil flow began. No significant flooding occurred. Icings were exceptionally large in a few locations. Spring breakup along the Sagavanirktok River overtopped several river training structures (spur dikes) even through discharge was probably well below the pipeline design flood magnitude. Overtopping was caused by spur dikes damming large anabranches of the braided channel. At the Salcha River, deep scour (over six feet) occurred at the TAPS crossing during spring highwater, which was well below bankfull. An icing at the Hammond River crossing near Wiseman was partly caused by the Haul Road bridge just downstream from the pipeline. This icing caused no significant erosion, even though water was diverted out of the channel by the icing.

HAWAII REGION

GEOLOGICAL SURVEY

Hawaii Subregion

Sediment data are being collected on a monthly basis at Wailuku River at Piihonua, Hawaii, as a part of NASQAN.

Sediment data are being collected on a monthly basis at Honolii Stream near Papaikou, Hawaii, as a part of the National Hydrologic Benchmark Network.

Sediment data are being collectd on a daily basis at one site in the Wailuku River basin, Hawaii, in cooperation with the U.S. Corps of Engineers. An automatic sampler was installed at the sampling site in Hilo.

Maui Subregion

Sediment data are being collected on a monthly basis at Kahakulsa Stream near Honokohau, Hawaii, as a part of NASQAN.

Molokai Subregion

Sediment data are being collected on a monthly basis at Halawa Stream near Halawa, Hawaii, as part of NASQAN.

Oahu Subregion

Sediment data are being collected at the following sites:

(1) Waikele and Kalihi Streams, Hawaii, as a part of NASQAN

(2) Kipapa and Kalihi forest reserves, Hawaii, in cooperation with the U.S. Forest Service.

(3) Kamooalii Stream near Kaneohe, Hawaii, in cooperation with the U.S. Corps of Engineers.

(4) Moanalua Valley in cooperation with the State of Hawaii, Department of Transportation.

Kauai Subregion

Sediment data are being collected on a monthly basis at Waimea River at Waimea, Hawaii, as a part of NASQAN.

SOIL CONSERVATION SERVICE

The Soil and Water Conservation Districts were assisted in assembling data regarding land use, location of erosion and other nonpoint pollution sources to be used in the water quality plan for the state.

CARIBBEAN REGION

Caribbean National Forest

The Caribbean National Forest installed four water quality monitoring stations to evaluate possible sediment production from management activities. Two acres of mass soil failures associated with road construction were stabilized resulting in an estimated annual 100 ton reduction in sediment yield.

CARIBBEAN REGION

GEOLOGICAL SURVEY

Puerto Rico Subregion

Sediment data are being collected on a daily basis at two sites.

Sediment data are being collected on a monthly basis at six sites as a part of NASQAN.

Sediment data are being collected on a monthly basis at 55 sites to measure pollution in the streams.

Records of sediment data have been published through 1974. Records of sediment data for 1975 are being processed for publication. Records of sediment data through 1976 have been partially computed.

SOIL CONSERVATION SERVICE

Sediment yields were determined for the following Public Law 566 Watershed:

Caribbean Region

Major Drainage	Watershed	Stream	County(s)	State
Guayanes River	Guayanes River	Guayanes River	Yabucoa	PR
Guayanes River	Guayanes River	Limones River	Yabucoa	PR
Guayanes River	Guayanes River	Guayabo Creek	Yabucoa	PR

The Soil Conservation Service, Caribbean Area, participated in a study conducted by the U.S. Geological Survey concerning the water resources of Puerto Rico. Our watershed geologist presented a paper concerning the need for local government to develop erosion and sediment abatement legislation, especially in watersheds having reservoirs or potential for reservoirs.

FOREIGN ACTIVITIES

Bureau of Reclamation

An answer was prepared to an inquiry on Bureau practices for sluicing sediment through a dam from Dr. S. M. Thompson, Investigations Section, Ministry of Works and Development, New Zealand, and review comments on a report entitled "Siltation of Hydro-Electric Lakes, August 1976" were submitted to Dr. Thompson.

A report entitled "Channel Stability Study of the Behedero River System" was submitted for publication and transmitted to the Costa Rican government.

A proposal involving a study of hydraulic, sediment transport, and morphological behavior on selected Pakistan canals requested by the National Science Foundation was reviewed.

LABORATORY AND OTHER RESEARCH ACTIVITIES

Bureau of Reclamation

General

The sediment pumping sampler, PS-69, was asssembled and tested for field operation in the hydraulic laboratory.

A technical paper entitled "Bureau of Reclamation Research Needs in Erosion and Sedimentation" was presented at the American Geophysical Union meeting in Washington, D.C., on May 31, 1977.

A field inspection was made with aerial observations of 14 reservoirs in northern California and ground observations on Lake Oroville for developing a possible research program in cooperation with the Geological Survey and the California Department of Water Resources on sediment deposition and delta formations. Although the reservoirs were low and the deltas were exposed, it was concluded that a report of conditions observed, along with aerial photographs taken in 1976 and 1977, would satisfactorily document the sediment deposition patterns observed.

A report with the title "Morphological Study of Sandbars in the Platte River from Overton to Grand Island, Nebraska" was written. With no expected change in dominant discharge or ice jams, the open-channel, unvegetated channel widths between Overton and Grand Island, Nebraska, on the Platte River, varying from 1,000 to 1,200 feet, will remain the same with or without Narrows Dam.

Control of Turbidity at Construction Sites

The report "Control of Turbidity at Construction Sites" was published as a result of work by a study team at the E&R Center. The report was compiled by the team leader in the Hydraulics Branch of the Division of Research.

USDA, Science and Education Administration, Federal Research
(Formerly USDA, Agricultural Research Service)

The research on erosion and sedimentation of concern to agriculture made considerable progress during 1977. The research program is covered under one of 67 national research programs and 8 special research programs that encompass farm-related research under SEA-FR. The research program on problems of erosion and sedimentation is covered under NRP 20800 "Control of Water Erosion, Wind Erosion and Sedimentation." The program is divided into five Technological Objectives as follows:

1. Improved water erosion prediction and control to preserve and improve productivity of land and prevent water quality degradation.

2. Improved wind erosion prediction and control to protect crops and soils and reduce air pollution.

3. Improved evaluation and prediction of sediment transport, yields, and properties.

4. Improved prediction and control of sediment deposition in reservoirs, valleys, and channels.

5. Improved stabilization of stream channels and control of gullies.

The research is carried on at about 20 research centers and field locations located throughout the U.S.A. Selected research findings from locations in Arizona, Colorado, Georgia, Idaho, Indiana, Iowa, Maryland, Minnesota (2), Mississippi, Missouri, Nebraska, Ohio, Oklahoma, Texas, and Washington States are presented.

ARIZONA

1. Work has continued at the Southwest Watershed Research Center to enable using the Universal Soil Loss Equation (USLE) for rangeland areas. The effects of brush to grass conversion on the hydrology and erosion of a semiarid southwestern rangeland watershed were studied on a 110-acre watershed which was converted in 1971 from brush to grass by rootplowing and seeding. The fenced watershed has been control grazed in the late winter for the past 3 years. Based on the USLE, there should have been a reduction in sediment production of about 25% after conversion. Actual measures indicated a reduction of over 90%, but the results are uncertain because of possible measurement errors and extreme rainfall variability. More data are being collected from this watershed to substantiate the preliminary results and to hopefully get a greater range of precipitation patterns in the pre- and post-treatment periods.

2. The additional tracer studies on Walnut Gulch during the 1977 monsoon season have supported the partial area concept previously developed in the Santa Rita Experimental Range as suggested by geomorphic features. Such work is very important in erosion studies because the nonuniform distribution of runoff greatly affects the spatial variability of shear for both sediment detachment and transport.

3. Progress has been made on developing the analytic techniques and computer program. However, due to the complexity of the small watersheds used in the analysis, results are disappointing. Additional research is needed to develop methods to estimate sediment yields from the Santa Rita watersheds. Erosion estimates based on the USLE were very poor for the Santa Rita watersheds, whereas they were acceptable for the Walnut Gulch watersheds.

4. Sediment samples were obtained on 8 small watersheds on the Santa Rita Range near Tucson, Az., and sediment yields have been computed for two of the watersheds. Concentration data for the other watersheds is still in the laboratory processing stage. Using parameters of the USLE determined from Walnut Gulch have revealed wide differences between observed and predicted values. The yields in the Santa Rita watersheds (Area < 10 ha) for a given volume of runoff are much higher than on Walnut Gulch, and may reflect differences due to the previously reported influences of alluvial stream channels. Continuing investigations may facilitate quantifying these differences.

5. New electronic circuits for improved speed control of the moving slot were developed, tested, and installed at a number of field sites. The circuitry has been modularized and incorporated in a printed circuit board, which has improved the system reliability and made it easier to calibrate the traversing slot speed at individual field sites.

6. Equations for rill and interrill erosion on upland areas have been formulated and solved to give sediment concentration throughout the entire overland flow hydrograph. In addition, the partial differential equation was integrated to produce a sediment yield equation for individual storm events. A computer program was written to produce optimal values of the erosion parameters from observed runoff and sediment concentration data.

7. Sediment yield and runoff analyses were completed from the Alamogordo Creek Experimental Watershed near Santa Rosa, N.M. For the period 1955 to 1973, the weighted mean annual precipitation over the 67-sq-mi. watershed was 12.5 in., with a standard deviation of 4.5 in. The corresponding mean annual runoff was 0.32 in., with a standard deviation of 0.40 in. Therefore, the relative variability of the runoff exceeds that of the precipitation, a situation normal in many arid and semiarid areas. For the same period, sediment yields were calculated and found to be highly correlated (R^2=0.96) to runoff in the expression $Q_s = 137{,}500\ Q^{1.2}$ where Q_s is the sediment yield in tons and Q is the runoff volume in inches. With this relationship, the mean annual sediment yield was estimated to be 32,000 tons, with a standard deviation of 50,000 tons.

8. Eight years of runoff and sediment yield from a 40-ac. subwatershed on Alamogordo Creek averaged 0.89 in. and 4.6 tons/acre, respectively. This amounts to a rate 6 times the rate for the larger (67 mi^2) watershed. These values are in approximate agreement with the sediment delivery curve used by the Soil Conservation Service.

9. A survey of bacteriological constituents in surface and subsurface water was instituted in anticipation of the building of a sewage treatment plant on the Walnut Gulch Experimental Watershed near Tombstone. The plant is to be located on the main channel of Walnut Gulch midway between Flumes #2 and 6. Thus, the effluent from the plant will be discharged into the channel, and contaminants in the effluent will be transported through Flume 2 during storm events. Wells drawing from regional ground water and from perched aquifers in the vicinity of the proposed plant were sampled as were stock watering ponds and a spring used only by small animals. All sources were found to contain coliform and other bacteria at one time or another. A yeast culture for a sample of the regional ground water was positive. This discovery was surprising because yeast have complex nutritional requirements. Coliform bacterial counts from all sources increased in the well samples following runoff-producing rains, and receeded to near zero after a time. These facts seem to demonstrate that microorganisms are transportable through coarse alluvium -- until recently thought to be unlikely or impossible. A freon-type chemical was introduced during a runoff event and was subsequently detected in a well several hundred feet from the channel and several miles below the point of introduction. This work will aid in monitoring changes in the ground water microbiology resulting from the discharge of urban waste water into the Walnut Gulch channel.

10. Equipment for continuous, automatic sampling of pH and EC at Flume 6 on Walnut Gulch worked better during the 1977 runoff season. For most storm events, the critical pH of between 7 and 7.5 rises to a terminal value of approximately 8 to 8.5 at the hydrograph peak. EC behavior is not consistent, but seems to show changes during the flow.

For additional information contact Dr. Kenneth G. Renard, Research Leader
Southwest Watershed Research Center
442 East Seventh Street
Tucson, Arizona 85705

COLORADO

Erosion research activities at Fort Collins, Colorado, include the following:

1. A portable rainfall simulator is being developed for use on reclaimed mine areas to allow study of erosion on long slopes and to allow testing of erosion potential reduction with increased cover density. The new simulator is patterned after the rainfall simulator used on the Colorado State University Rainfall-Runoff Experimental Facility. This device is simple, with no moving parts, and applies a continuous rain flux at all points. It will be initially calibrated against a Purdue Rainulator.

2. A laboratory study of various aspects of erosion and runoff relations is being conducted in a 1.22m wide by 12.2m long flume equipped with overhead rainfall modules. Fifteen cm of soil has been placed in the flume bottom, over a network of desaturation candles which prevent oversaturation during operation. Runoff rate is continuously monitored and discharge samples are taken at close intervals at the flume outlet.

3. A field study to characterize the relation of on-site and downstream water quality (sediment concentration plus dissolved chemical concentration) for a stripmine area in Routt County, Colorado, is currently underway. Common meteorologic and hydrologic data are being taken on (a) a 26 ha reclaimed watershed, and (b) a 36 ha pre-mined watershed. In addition, several sites on the larger streams draining the larger mining area are being sampled to indicate the levels of suspended sediment attributable to mining activity.

For additional information contact D. A. Woolhiser or R. E. Smith, USDA, SEA-FR, Engineering Research Center, CSU Foothills Campus, Fort Collins, Colorado 80523.

GEORGIA

1. At the Southeast Watershed Research Program, efforts have been devoted to collected rainfall, streamflow and sediment records on Little River Watershed near Tifton, Georgia. Streamflow is measured at nine sites. Pumping samplers have been installed at two sites and the remaining sites are sampled at selected times. Also, nutrient and pesticide concentrations are measured at these sites. Watersheds range in size from 1 to 120 square miles.

2. Sediment sampling program has continued on the 6.7 square mile agricultural watershed and the 3.2 square mile urban watershed (3 samples/day) and also on eight agricultural watersheds (weekly sampling). Laboratory analyses (mg/l-fractions greater than- and less than- 125 μm) of samples has been completed through December 1976. Suspended sediment loads have been computed for the continuously sampled station, Station K. Total suspended sediment load in streamflow past Station K is quite low, 259.2 kg/ha (230 #/ac) for 1975 and 393.2 kg/ha (350 #/ac) for 1976. However, erosion and soil movement has been observed in cropped areas of the watershed. A sediment-rating curve suited to design application by action agencies has been developed from sediment load data from Station K. Also, a topographic cover map has been prepared for Station K for use in sediment studies. For additional information contact Loris E. Asmussen, USDA, SEA, Box 946, Tifton, Georgia 31794.

IDAHO

Research at the Northwest Watershed Research Center, Boise, Idaho includes the following:

1. Measured soil losses from rangeland hillslope rills during the June 11, 1977 thunderstorm, the greatest runoff-producing thunderstorm of record, were from 15.7 to 35.8 tonnes per ha. The USLE rainfall-runoff factor was about 50 at the storm center, nearly 2.5 times the normal yearly factor value at this site. The nearest rain gage, about 2.4 km from the storm center, showed rainfall intensities of 305 mm per hour for a 2-minute storm burst and 168 mm per hour for a 6-minute burst. Peak streamflow was about 8 $m^3/sec/km^2$ near the storm center and averaged about 2.74 $m^3/sec/km^2$ from the 11.6 km^2 runoff contributing area. The maximum suspended sediment concentration exceeded 100,000 mg/l and some stream channels were scoured to bedrock.

2. Rangeland vegetation and slope survey data were used to compute soil losses from hillslopes, roads, and streambanks by the Universal Soil Loss Equation (USLE). Results of this study show that soil loss per ha from steep, bare streambanks is about 50 times greater and from unimproved roads about 5 times greater than from nearby grazed hillslopes. Rangeland erosion control programs should concentrate on major soil loss areas. The USLE was used to compute average soil losses from 8 grazed and 8 ungrazed rangeland vegetation study sites, 1973-77. Results of this study showed 0.9 tonnes per ha per year soil loss from ungrazed sites and 1.12 tonnes per ha per year soil loss from comparable grazed sites. Generally, ground cover was less and soil loss greater in drought years.

3. Runoff from Reynolds Creek Watersheds during the 1976-77 drought was only 10-15 percent of normal and the streams carried no measurable bedload, except during a summer thunderstorm. Sediment yields at most stations were less than 5 percent of normal, the lowest of record.

For additional information contact C. W. Johnson, Suite 116, Patti Plaza, 1175 South Orchard, Boise, Idaho 83705.

Indiana

Activities at Lafayette, Indiana included the following:

1. Agricultural Handbook 282, now titled tentatively "Predicting rainfall-erosion losses as a guide to conservation planning" has been revised. The revision includes an analysis of irregular slopes, cover-management factors for conservation tillage, and extension of the USLE to the western and northwestern U.S. and Hawaii. The revision has been reviewed by SEA scientists and USDA-SCS personnel. Comments are being incorporated in a final version.

2. Data on rill erosion rates as a function of a wide range of discharges were collected from rainfall simulator experiments on a field soil. Analysis showed that erosion was independent of hydraulic flow properties. This is in contrast to what is usually assumed in erosion models. More information on the relationship between rill erosion and especially soil properties is needed. Soil disturbance by tillage evidently may greatly accelerate rill erosion on some soils.

3. From analyses of data from field experiments designed to separately identify rill erosion and interrill erosion and past soil erodibility studies, a rill erosion relationship was developed for an erosion model. However, attempts at relating a rill erosion soil erodibility factor to soil properties were unsuccessful. Development of a rainfall simulator to measure interrill erosion and a jet to measure rill erosion was begun for further tests to explore this objective on a variety of soils.

4. No progress was made on the actual development of the mathematical model. Laboratory data required to validate portions of the model are currently being provided by the extramural project "Deposition of Overland Flow Sediment" (CWU 3090-20901-002A). Field data were obtained from constructed concave field plots exposed to simulated rainfall which will also be used to develop and validate the model.

5. The preliminary deposition equation was refined and combined with the USLE to make an erosion-deposition-sediment yield model useful for analyzing sediment yield from farm fields, construction slopes, and other overland flow areas. Field data collected in 1977 for deposition of sediment in residue strips by overland flow is being used for additional validation. More information is needed on the deposition mechanics of particles less than 30μm.

6. Data from natural runoff plots which were used to develop the USLE were put on magnetic tape to facilitate computer analyses. Development of an erosion equation for single storms based on fundamental erosion modeling principles has begun. Successful development of this equation could lead to a replacement of the USLE.

7. Size distribution of aggregates in the runoff was determined at 10 minute intervals from all field rainulator experiments in 1976 and 1977. A paper was presented at the Soil Science Society meetings at Los Angeles and will be submitted to the Journal. Interrill erosion produced aggregates considerably smaller than those produced by rill erosion. Only 13% of the interrill aggregates were larger than 0.5 mm while 36% of the rill aggregates were larger than 0.5 mm. Added rill flow to the top of the plots at rates ranging from 4 to 60 kg/min. had little effect on the size distribution of rill aggregates.

8. Long term chiselled plots, both with and without surface cover, were compared with moldboard plowed plots for soil loss and runoff. Residual effect of long term chiselling was pronounced on the plots without surface cover for a time but at the end of simulated rain soil losses were similar to those from moldboard plowing. The residual effect of long term chiselling was also evident when all treatments were brought to the same percentage of surface residue. Data collected using a Purdue Sprinkling Infiltrometer showed little difference in hydraulic conductivity of layers tilled by moldboard plowing, chiselling or subsoiling. Compaction layers below the tilled layer did not appear to affect hydraulic conductivity of the tilled layer. Untilled and surface compacted layers had lower hydraulic conductivities than the moldboard, chiselled or subsoiled layers.

9. Analysis of rill erosion data from 1974 using flow equations and erosion mechanics led to semi-empirical equations that estimate the effect of a non-erodible layer on rill erosion. The method simulates the typical decrease in erosion with time as a function of previous erosion.

10. Three meetings were held with USDA-SCS and FS personnel which led to the development of tentative C-factor values for disturbed forest lands. These values were included in SCS technical manuals used to estimate erosion. Also, a preliminary procedure was developed to estimate C-factor values for disturbed forest lands using values reflecting conditions of basic erosion controlling variables like surface cover, degrees of mechanical disturbance, and canopy cover.

11. Design criteria were developed for an improved rainfall simulator to cover field plots as wide as 12 ft. and as long as 150 ft. Expected major improvements over the present rainfall simulator include a reduction of the intermittent application from 25 sec. to 1 sec., improved reliability, and easier setup and operation. Booker and Associates, St. Louis, Missouri, under contract with SEA is currently developing a design based on the criteria.

12. The Fiscal Year 1978 Budget for the Science and Education Administration included $400,000 for planning a National Soil Erosion Laboratory at Purdue University. Plans for the projected research program of this new laboratory are completed. Design criteria needed by the Architectural/Engineering Firm for development of construction plans are essentially completed. An Architectural/Engineering Firm will be selected by April 7, 1978. Construction plans will be completed by May 1, 1979.

For additional information contact W. C. Moldenhauer (SEA, Agronomy Department, Life Science Building) or G. R. Foster (SEA, Agricultural Engineering Department) Purdue University, West Lafayette, Indiana 47907.

Iowa

Activities in Council Bluffs include the following:

1. Some redirection of ongoing studies has occurred. Operation of the four corn-cropped watersheds (75 to 150 acres in size) near Treynor was continued. Two of these are contoured, one is level-terraced (double the recommended horizontal spacing) and conservation-tilled with underground pipe drains, and the fourth is conservation-tilled. A 15-acre contour-corn subwatershed is also instrumented, along with another 15-acre watershed that is in a corn-soybean rotation. Four unbordered natural plots, up to one-half acre in size, are also instrumented. These watersheds are operated primarily to determine basic erosion mechanisms needed to fill knowledge gaps in development of sediment yield models and to study gully erosion processes. Specific research items are: (1) evaluate the components of the Universal Soil Loss Equation (USLE), which are basic ingredients in present conceptual models, on a storm basis; (2) measure rill and interrill erosion rates and relate them to cultural and seasonal influences; (3) by complementary remote sensing techniques, measure landform changes on sloping cornland due to erosion, deposition, and tillage; (4) determine the amount of particle aggregation of sediment in transport on hillslopes and the degree of clay enrichment (ratio of transported to in situ clay); (5) define soil strength properties of eroding gully banks; (6) relate gully erosion thresholds to runoff regimes; (7) define soil stresses induced by upstream-migrating headcuts by measuring geometry of vertical tension cracks and shear planes; and (8) define historic erosion rates of upland gullies and channels in the region to obtain a better perspective of their ultimate degradation. A portion of this study involves the location, in time and space, of channel scarps advancing through at least six stratigraphic units (five alluvial members of the DeForrest formation and the original loess) so that incipient gullying can be predicted--and optimum controls effected.

2. Studies have been conducted since 1969 on Missouri Valley deep loess research watersheds near Treynor to determine the movement of nitrogen and phosphorus from agricultural land as influenced by conservation management. Nutrient contributions by precipitation and applied fertilizer are considered. Movement of nutrients by crop use, losses by the runoff-erosion process, percolation through the soil, and discharges by return flow (base flow) are being studied. For additional information contact Ralph G. Spomer, USDA SEA, Room 318, Federal Office Building, P.O. Box 896, Council Bluffs, Iowa 51501.

Maryland

Sedimentation research activities at the Hydrograph Laboratory, Beltsville, Maryland, include the following:

A new research project was started in June to study and improve prediction techniques for reservoir sedimentation processes, especially reservoir sediment trap efficiency by sediment particle sizes. Current efforts are concentrated on collecting all sediment trap efficiency data and information. Additional information and data would be appreciated. As part of this effort, a cooperative field study is being initiated with the USDA Sedimentation Laboratory, Oxford, Mississippi, and the Watershed Research Unit, Columbia, Missouri, to study in detail the movement of sediment in a reservoir (one at each location).

For additional information contact H. G. Heinemann, USDA-SEA-FR, Hydrograph Laboratory, Room 139, Building 007, BARC-West, Beltsville, Maryland 20705.

Minnesota

Current research at the St. Anthony Falls Hydraulic Laboratory, Minneapolis, Minnesota, is on the local scour caused by a cantilevered spillway or culvert pipe discharging onto a bed of uniform size, cohesionless sand. Variables partly investigated are bed material size (0.5, 1, 2, 4, and 8 mm), effect of pipe elevation relative to the tailwater elevation (-2, -1, 0, 1, and 2 pipe diameters), and effect of pipe slope. The temperature is maintained constant at 20° C. Dimensionless discharges $Q/\sqrt{gD^5}$ are 0.5, 1, 2, 3, 4, and 5. (Q is the discharge, g is the acceleration due to gravity, and D the pipe diameter.) The flow is interrupted and the scour hole is measured at 10, 31.6, 100, 316, 1000, 3162, and 10000 minutes after the beginning of each test. Because the apparatus would otherwise be idle for lack of a technician, scour was allowed to continue to see if it reached a limit. Sediment was still being carried from the scour hole after 220 days. Current work is on data analysis of the 48 test series and nearly 300 scour holes. Analyses made so far show that the scour hole contours, expressed as a percentage of the maximum depth of scour, can be reduced to a single set of contours for all 6 discharges and 7 times of otherwise identical variables if suitable normalizing parameters are chosen. Attempts to mathematically describe the maximum depth of scour--one of the normalizing parameters--has so far eluded our best efforts.

For additional information contact Fred W. Blaisdell, Research Leader, SEA, USDA, St. Anthony Falls Hydraulic Laboratory, Third Avenue SE. at Mississippi River, Minneapolis, Minnesota 55414.

Minnesota

The following research is being conducted at the North Central Soil Conservation Research Center at Morris, Minnesota:

1. Field determination of nutrients and sediment from non-point sources--assess the impact of man on nutrient and sediment enrichment of lakes and streams; develop hydrologic and nutrient budget for an agricultural and non-agricultural watershed; relate water quality and sediment yield to land use practices; provide data for agricultural chemical transport and sediment yield modeling.

2. Animal waste management--determine the effect on water quality, erosion, and runoff of applying animal wastes to frozen ground; determine optimum rates and times for winter application of animal wastes; evaluate the ability of various land and cropping treatments to absorb and retain sediment and nutrients in rainfall and snowmelt runoff from livestock feedlots.

3. Particle sizes of eroded material--relate particle size distribution of eroded soil material to various soil physical parameters, organic matter enrichment, and soil "rillability."

4. Soil "rillability"--develop a rill meter to measure rill formation on different soils to indicate susceptibility to rill erosion and relate this to various soil physical parameters.

5. Soil compaction--determine the effect of controlled wheel traffic on erosion patterns and water distribution patterns.

6. Long slope lengths--to determine limiting slope lengths when using modifications of the USLE, erosion plots up to 450 feet long, in multiples of 72.6 feet, established and tested for soil loss and runoff using a modified rainulator and irrigation sprinklers.

7. Estimate watershed sediment yield on a storm basis--sediment yields from small watersheds for individual storms have been predicted with good success for 55 storms from two Treynor, Iowa watersheds. The method used was a detachment-transport mechanism based on a modification of the USLE.

8. Estimate watershed sediment yield on an annual basis--annual sediment yields from five watersheds in northern Mississippi were estimated with good success using a USLE modification coupled with a sediment routing technique. The routing technique utilizes a decay function involving average channel slope length and steepness.

9. Estimate sediment sources within a watershed--each of these models has the capability of predicting sediment sources within a watershed. Basically, this is accomplished by treating the watershed as a series of segments, each calculated separately and having a unique contribution to the total watershed sediment yield.

10. Estimate sediment occurring in various agricultural areas for the State of Minnesota--amounts and distribution of erosion and sediment entering streams will be estimated using existing techniques for the purpose of PL 92-500 sec. 208 planning.

For additional information contact R. F. Holt, USDA-SEA, Morris, MN 56267

Mississippi

The following research is being conducted at the USDA Sedimentation Laboratory at Oxford, Mississippi:

1. Studies on a number of small watersheds in the eastern United States showed that 4 to 6 variables, i.e., erosion susceptibility (R-factor of USLE), particle size, amount of runoff, and organic matter, accounted for most of the observed variation in the Cs-137 content of reservoir sediments. In similar studies in the Southwest, the distribution of fallout Cs-137 in surface soils and sediments could be predicted from the areal concentration of fallout, size of watershed, and an expression, as cation exchange capacity, of the activity of the soil. These studies indicate a high probability of predicting the areal distribution and redistribution of radioisotopes, as Cs-137, in small watersheds from a minimum of environmental data.

2. Continuing studies have shown that a reliable linear relationship can be obtained for the amount of solar reflectance from a body of water and the suspended sediment concentration. Such a relationship held for Lake Chicot in southeast Arkansas. The regression coefficients obtained for this oxbow lake were different from those obtained on flood control reservoirs of the loess hill country of North Mississippi. Thus it appears a regional interpretation of remotely sensed data will be necessary.

3. An analysis was made of the processes involved in the detention of water in reservoirs. Five different flow conditions were studied in the laboratory and the results indicated that some control may be achieved in the detention time of portions of the reservoir by rather simple outlet designs.

4. Working in continued cooperation with the Wisconsin Department of Natural Resources, sedimentation rates were measured in six Wisconsin flowage reservoirs. These reservoirs are used as recreational areas and concern regarding their useful life triggered the studies. In all these southwestern Wisconsin reservoirs recent sediment accumulation rates were in the order of 2 to 3 cm/yr. Because these reservoirs are relatively shallow, 2-3 meters maximum, the present sedimentation rate is unacceptable. Much of the incoming sediment is from channel erosion so plans of minimizing upland erosion alone will not be sufficient to protect these structures.

5. In cooperation with the Vicksburg District, CE, the University of Mississippi, and Northeast Louisiana University, the hydrological, chemical and biological assessment of Bear Creek, MS, and Lake Chicot, AR, continued with measurements of stage, velocity, temperature, conductivity, dissolved oxygen, and pH being recorded at 4-hour intervals at

six automated stations. Water and suspended sediment are collected every 12 hours by automatic pump samplers. In addition bi-weekly monitoring, begun in 1976, continued at 15 locations. Sediment samples were collected and analyses are underway: chemical (N, P, C) and pesticide measurements (chlorinated hydrocarbons) continue. Concentration data are available with conversion to volume discharges being currently obtained as data from automatic water quality gaging stations become available. Short term records from two single cover (cotton) watersheds indicate highly variable sediment yield rates with season. As the amount of vegetation cover increased during the growing season, sediment concentration in runoff dropped from 2,500 ppm in April to under 300 ppm in September. Chemical (N and P) concentrations were highly variable both during and between storms.

6. Sedimentation studies in the upper Mississippi River corridor, in cooperation with the Great River Environmental Action Team (GREAT) were continued. Field data were collected from Pools 7 and 8 and Lake Pepin. Sediment accumulation is a serious problem in Pool 9. The estimating time for filling of the lower (navigation) pool in Pool 9 was 50 to 250 years. The 50-year estimate is based on the Cs-137 data, a measure of the fine sediment accumulation rates and applies only to these areas where fines are deposited. The 250-year estimate, a conservative one, is based on a comparison of the changes in the cross sectional bottom profile from 1930 to 1977. The backwater lokes above the main pool are seriously threatened with a life expectancy of less than a century.

7. Sediment and chemical yield measurements were continued on instrumented watersheds in the Mississippi Delta to determine nitrogen (N), phosphorus (P), toxaphene, and DDT concentrations and yields in runoff from these flat lands. The toxaphene concentration in runoff was a linear function of the organic matter-clay concentration. Toxaphene was transported primarily by the sediments and only 7 percent was transported in solution. Only 0.5 percent (54 g/ha) of the toxaphene applied to the watershed in 1975 was lost by runoff (58 cm) and sediment (13.4 metric tons/ha). The sediment/dissolved concentration ratio for toxaphene, Csm/Cd, where Csm = µg toxaphene/g sediment and Cd = mg dissolved toxaphene/liter, was about 6000, indicating the strong adsorption characteristics of the sediments for toxaphene. This joint research effort with the SEA Soil and Water Pollution Research Unit, Baton Rouge, LA, will be continued to measure the transport and disappearance of toxaphene and DDT applied in 1976 (EPA Permit 11312-EUP-6).

8. No-till research in north Mississippi on loessial soils indicates that corn can be grown on highly erodible soils with reduced soil loss and reduced total (solution plus sediment) nitrogen (N), phosphorus (P), organic carbon (C), and chemical oxygen demand (COD) losses. The 1976 annual soil loss from no-till corn grown for grain was only 0.9 metric tons/ha (MT/ha) compared 22.4 MT/ha from conventional till. All plots received 170 kg N/ha and 16 kg P/ha. Total N, P, C, and COD annual losses in 1976 from no-till corn

(grain) were only 16, 3, 73, and 157 kg/ha, respectively, compared with 56, 17, 290, and 920 kg/ha from conventional till. Crop residues left on the soil surface increased soluble P and C concentrations (mg/l) in runoff from both conventional and no-till practices. Sediment-P and C concentrations (mg/kg) from no-till grain and silage practices were considerably larger than from comparable conventional till practices, and can be attributed to a selective erosion of fine enriched sediments. However, due to lower runoff and soil losses, total solution plus sediment losses of P and C were significantly reduced in runoff from no-till. The no-till system, where applicable, is a best management practice for reducing potential nonpoint pollution by sediments, plant nutrients, and organic carbon in surface runoff from agriculture.

9. Erosion, runoff and sediment-sizes resulting from simulated rainstorms on crop row sideslopes are being measured for various soils, cropstages, and rain intensities. The results show that row sideslope erosion depends greatly on the rainfall intensity and the interrill erodibility of a soil. Sediment sizes may be quite different than soil particle sizes because part of the sediment consists of aggregates. Companion laboratory studies have been started to determine how much of this sediment that is delivered to row middles will be transported down the rows for different runoff rates, row gradients, and row lengths.

10. Erosion and runoff from intense simulated rainstorms on flatland areas in soybean production are being studied experimentally for several cropping systems. Improved methods of evaluating field soil moisture using dual energy sources and parallel access tubes are being developed. A technique for incorporating the effect of rainfall-induced surface sealing on soil water intake was perfected for infiltration simulation in mathematical models.

11. Sediment modeling activities have progressed in two directions. One was the development of a distributed conceptual model that simulates the routing of sediment for use in watershed management studies. This model uses deterministic representations of all major processes influencing the production and movement of sediment. It has been successfully applied to a small mixed watershed (1.76 sq. miles) in Northern Mississippi. The second study is directed toward the modeling of sediment movement within a field size unit. A crop-growth model has been interfaced with a hydrologic model to simulate the effects of various land use and management alternatives on sediment and chemicals movement within field units.

12. The existing tractive-force models of sediment entrainment are based on the estimation of time-averaged tractive forces. These models ignore the dependence of bed-particle stability upon the instantaneous values of the tractive forces. A more realistic approach to the modeling of sediment

entrainment should incorporate information about the probabilistic distributions of the tractive force fluctuations. Measurements were carried out to determine such probabilistic distributions. Data collected in a laboratory flume was used to evaluate some stochastic properties of the instantaneous point tractive forces. The results obtained so far indicate that the probability density distributions are strongly skewed, and are influenced by large-scale flow structures such as secondary currents.

13. Four varieties of willows (Black, Halbert, MS859, and MS878) were planted in 1976 on Pigeon Roost Creek in Northern Mississippi. They were planted at the toe of eroded banks of the 120-foot wide dredged channel. Twenty percent failed due to high water velocities and bank slides; 40 percent failed due to poor site conditions. The 40 percent that survived show promise of stabilizing these highly erodible banks. This work and other research using vegetation to control erosion of streambanks is continuing.

14. Work on flatland watersheds in the Mississippi Delta is continuing. The 5-yr average sediment yield from a 38.5 acre Sharkey clay watershed was 7.6 tons per acre compared to almost 8 tons computed with the Universal Soil Loss Equation and a sediment delivery ratio. Yield from an adjoining Commerce soil watershed compared similarly with the USLE estimate.

15. Several significant conclusions were made from research on minimum tillage systems for corn and soybeans. The no-till system effectively controls soil erosion; however, it generally requires more careful management and may require more chemicals for weed control as compared with conventional tillage. The use of two corn cultivations in an otherwise no-till system resulted in a soil loss of about 0.5 ton per acre, not significantly greater than from no-till without cultivation. Also of interest, no-till controlled erosion from corn silage as well as it did from corn grain where stover residue was left after harvest. Research is continuing to determine the effect of soybean cultivation in an otherwise no-till system.

16. Hipping, or bedding, is a common primary tillage practice in the Southeast. It consists of throwing the soil up in high beds that are vulnerable to erosion by rainfall. Two plots, each 70 feet long, were established on a 1.3 percent slope at the North Mississippi Branch Experiment Station. Rainulator runs in late 1976 and summer 1977 resulted in about 2.5 times as much soil eroded from the bedded plot as from the standard flat fallow plot. These high erosion rates indicate that a C-factor of over 2 should be used in the USLE for the time of year that land is in high beds. Beds that are lowered by tillage or rainfall should have a lower C-factor.

17. A model study of rock, low-drop structures is continuing to develop generalized design criteria for maximum energy dissipation. An energy dissipation basin is incorporated as an integral part of the design of the structure. A prototype structure with a design discharge of 8000 cfs and 4 feet of drop was constructed on Tillatoba Creek, Charleston, MS. This and previously constructed structures are being used to verify the model tests.

18. A study has been initiated to relate the mode and magnitude of channel instability to the properties and distributions of stratigraphic units within alluvial valleys. The study area includes selected watersheds in the Bluff Line, immediately East of the Mississippi Delta, Mississippi. The study has been implemented as an integral part of a comprehensive study of the influences of all watershed processes on channel stability. Initial field observations have established the significance of paleosols with respect to channel stability. Massive types of bank failure have been observed to be associated with polygonal development within the paleosols. This polygonal development creates planes of minimum strength which lead to failure. Channel stability is also influenced indirectly by these units on the paleosols restrict the vertical movement of water in the soil profile. This subsurface ponding of the groundwater frequently results in seep-induced bank instability problems.

19. Intensive instrumentation of a highly complex watershed to serve as an outdoor laboratory for the personnel at the Sedimentation Laboratory was started. A reconnaissance of watersheds in the vicinity of Oxford was made early in 1977 and Goodwin Creek with a drainage area of about 2,200 hectares was chosen. An aerial photo mosaic of the entire watershed was obtained by the Corps of Engineers and used to distinguish watershed features. In all respects, the watershed met criteria established by researchers at the Lab. It has about 1/3 each in pasture, cropland, and timber. Cropland is located on upland, hill side and bottom land soils. The geology and soils are representative of a fairly large geographical area. A wide variety of sediment sources are obvious. These include gullies, cropland and channels. The channels themselves have an extremely wide range in character from very stable to extremely unstable and range from sandbed to large cobble bed. Fourteen stream gaging stations have been located in the watershed. These sites isolate the various land uses which include cotton, soybeans, pasture, and timber. They also monitor all major tributaries to the main channel. The reach between the lower two stations has no major tributaries or high sediment source areas and is excellent for studying sediment transport. Detailed engineering ground surveys of the Goodwin Creek channels were obtained by the Corps of Engineers. These maps along with other information were used in designing "critical depth" measuring flumes for the 14 stream flow measuring sites. The Corps of Engineers are using our hydraulic designs as a basis for structural design of the flumes. They will be installed during CY 1978. During CY 1977 instruments for most of the sites were purchased.

These included FW-1's to measure stream flow depth, dynatrols to monitor sediment concentrations, Chickasha pumping samplers for concentration and water quality analyses, raingages, a meteorological network and extensive soil moisture monitoring equipment. A radio telemetry system was designed and purchased to transmit all hydrometeorological data to the main building at the Laboratory. The data will be automatically recorded and processed using a computer system dedicated to that purpose. Other equipment such as a digitizer and additional storage for the main computer have also been purchased in conjunction with this project.

For additional information contact D. G. DeCoursey at the USDA Sedimentation Laboratory, P. O. Box 1157, Oxford, Mississippi 38655.

Missouri

Activities in Columbia include the following:

1. Field-plot studies have been conducted since 1970 on the Midwest Claypan Experiment Station near Kingdom City (formerly McCredie) to determine the effects of intensive corn and soybean cropping under various tillage, residue management and fertility management methods on runoff, soil losses and associated losses of nitrogen and phosphorus. The study has shown that no-till planting of corn through the previous crop residues has effectively reduced soil losses compared to conventional tillage. However, runoff has been consistently greater from the no-till planting system than from the conventional tillage system. This research will be redirected in 1978 to study soil erosion characteristics from intensive soybean cropping systems.

2. Trap efficiency research by the SEA Watershed Research Unit on three central Missouri reservoirs was continued through 1977. This research included the measurement of inflow and outflow of sediment to determine trap efficiency on a storm basis. To improve the quality of water stored in small reservoirs, a bottom-withdrawal spillway is being studied to see what effect it has on the water quality in and downstream from two reservoirs. This spillway is expected to lower the trap efficiency because it eliminates the "dead" storage below the spillway intake which, in turn, reduces the detention time of storm runoff since density currents are discharged as soon as they reach the lowest point in the reservoir. As an example of the effect this spillway has on water quality, the phosphorus discharged from the spillway was compared to that stored in the reservoir. For one reservoir, the total P discharged was 3.5 times greater than that stored, total solution P was 1.9 times greater, and ortho-P was 2.2 times greater. For the other reservoir, total P was 2.2 times greater, total solution P was 1.1 times greater, and ortho-P was 1.2 times greater in the outflow than that stored in the reservoir. Sediment and inorganic nitrogen were likewise greater in the outflow than in the stored water. These trends should reduce the problems of sedimentation and eutrophication in reservoirs equipped with the bottom-withdrawal spillway. For additional information contact Carroll R. Amerman, USDA SEA WRU, 207 Business Loop 70 East, Columbia, Missouri 65201.

Nebraska

Erosion research activities at Lincoln, Nebraska include field studies of soil losses on row-cropped land with slopes up to 14% and topography such that terraces cannot be installed and farmed with reasonable effort. Two field sites in Stanton County, Nebraska, about 100 miles north of Lincoln, are representative of the continuing erosion and sedimentation problems in the Missouri Valley Deep Loess and Table Land areas. Instrumentation, including programmed samplers, was installed in late 1976 on a subwatershed at each location. The subwatersheds instrumented contain 4 and 6 acres, respectively, and are about 12 miles apart. High-intensity rainfall in May produced runoff transporting 20 tons of soil per acre inch of runoff from a row-cropped area without conservation measures. Sediment and water control basins (discontinuous terraces) with underground outlets will be installed on similar drainways within the same field at each site. The basins are short earth embankments constructed generally across the slope on minor water courses and parallel to the direction of row-crop planting. Runoff from the basins will be measured and sampled. Accretion of soil in the basins will be measured. Conservation tillage will be practiced and soil loss measurements continued.

For additional information contact Norris P. Swanson, SEA-FR, Room 5 Agricultural Engineering Building, UNL, Lincoln, Nebraska 68583.

OHIO

1. At the North Appalachian Experimental Watershed, Coshocton, Ohio research is concerned with the hydrology and water quality of four watersheds subjected to surface mining. Sediment yield data is obtained from the 40-50 acre watersheds and erosion data will be obtained from about 80 erosion and treatment plots (initiated in 1978) on disturbed land areas in the vicinity of the study watersheds. These plots of varying length will be located on four different slopes at each of three sites. Data collected will be used to investigate erosion and sediment yield models, and to develop new techniques for prediction storm erosion from disturbed lands on steep slopes. For further information contact James V. Bonta or W. Russell Hamon, Box 478, Coshocton, Ohio 43812.

Oklahoma

1. At the Southern Great Plains Research Watershed, Chickasha, collection of suspended sediment transport data continued in 1977 at two stations on the Washita River, eight major tributaries, five subdivided watersheds, four unit source rangeland watersheds, two gully watersheds, and one unpaved road. Sediment yield data was also collected from eight unit source rangeland watersheds near El Reno and four others near Woodward. Although 14 flood retarding reservoirs have sedimentation ranges, none were resurveyed this year.

2. Estimates of gully erosion associated with runoff from the gullied area only, indicates approximately 2 percent of the total yield can be attributed to runoff from the gullied area. The rainfall and runoff directly associated with the gullied area probably removes a large amount of material from the gully banks but has the capacity to transport only a small amount of this material from the system. Runoff from the ungullied area of the watershed is the major transporting agent even though it may not be the major eroding agent.

3. The amount of sediment leaving fields and watersheds is only a fraction of the gross erosion within the field as estimated by the Universal Soil Loss Equation (USLE). Annual values of this fraction, known as the delivery ratio (DR), were calculated using USLE estimates and measured sediment yields for field-size watersheds near Chickasha. These annual DR values varied widely for each watershed, the largest range being 5 to 276 percent. This greatly limits using the USLE for making reliable estimates of watershed sediment yields and identifies an important research need. DR's averaged 5 percent higher and the average range was reduced from 98 to 81 percent when EI values for the USLE were determined from local rainfall data instead of the handbook.

4. A procedure has been developed for particle size analysis of suspended sediment samples using a Sedigraph instrument. A sample is analyzed in native water and then dispersed and reanalyzed, all in a short time.

5. Evaluation of the WASEG runoff and sediment yield model (under development at Colorado State University) was started using data from a 19-acre watershed. Predicted runoff rates and volumes were extremely low--only about 1/10 of measured data. Because the infiltration routine seemed illogical, it was replaced by an empirical relation of infiltration vs. soil moisture. This greatly improved runoff prediction accuracy. The standard error of estimate improved to 0.336 where the variance of the measured data was 0.269. With the exception of the added empirical infiltration routine, the runoff portion of the model is fully deterministic, however the sediment prediction portion requires calibration of two parameters.

This calibration was not accomplished in 1977, but runs were made with values determined by CSU for two U. S. Forest Service watersheds in northern Arizona. Sediment predictions were about 100 times too high, indicating that these are very sensitive parameters and suggests that predicted sediment yields will rarely approach the accuracy of runoff predictions.

For additional information contact M. H. Frere, Location Leader, USDA, Science and Education Administration, Southern Great Plains Research Watershed, P. O. Box 400, Chickasha, Oklahoma 73018.

TEXAS

Activities at the Grassland, Soil and Water Research Laboratory at Temple, Texas, included:

1. A runoff-sediment modeling technique was developed for deriving sediment delivery ratio prediction equations. The runoff model is based on the SCS curve number system and HYMO. Sediment yield from small basins (area < 40 km^2) is predicted with the modified universal soil loss equation (MUSLE). Sediment routing is used to predict sediment yield on larger areas. Sheet erosion is predicted with the USLE. Thus, delivery ratios (average annual sediment yield divided by average annual sheet erosion) can be computed for ungaged basins. Delivery ratios computed with the model are related to basin characteristics to obtain a delivery ratio prediction equation for use on nearby ungaged basins. The model was demonstrated on Little Elm Creek near Aubrey, Texas, a basin of about 194 km^2. The sediment delivery ratio prediction equation developed from the Little Elm Creek modeling results was tested on 15 other Texas basins. Sediment yield was predicted by applying the delivery ratios to USLE sheet erosion estimates. Comparing the predicted and measured average annual sediment yields gave $R^2 = 0.80$.

2. A technique was developed for calculating the value of the K, C, P, and LS factors of MUSLE for complex basins. Previously the factors were determined separately on an area weighted basis. This shortcut approach usually produced acceptable results on mixed land-use basins, but can introduce considerable error in basins that have subareas with great differences in combinations of K, C, P, and LS. For this reason the product of the factors is now weighted on an area basis for use in MUSLE. To expedite calculations, basins are divided into land capability classes because land classes have characteristic land uses, soils, and slopes.

3. A sediment routing model was refined and tested on two basins. The entire particle size distribution is used in determining sediment deposition in the revised model. Originally only the median particle size was considered. Also, a technique was developed for determining the routing coefficient for each routing reach instead of using one value for the entire basin as in the original model. Since only one reach is considered at a time, travel time becomes a constant and is simply combined with the routing coefficient. Sediment routing was tested on the Little Elm Creek basin (194 km^2) near Aubrey, Texas, and the Clear Fork of the Trinity River basin (173 km^2) near Weatherford, Texas. Measured average annual sediment yield was 3.33 t/ha for Little Elm and 3.92 t/ha for Clear Fork as compared with routed values of 3.41 and 4.08 t/ha respectively.

For additional information, contact J. R. Williams, Grassland, Soil and Water Research Laboratory, P. O. Box 748, Temple, TX 76501.

WASHINGTON

The following research is being conducted by the Land Management and Water Conservation Research Unit at Pullman, Washington:

1. A portable, photographically recording rill meter is being used to measure soil loss from rills from selected field sites at the end of the erosion season. The purposes of the study are to determine (1) the effect of slope length and steepness on soil loss, and (2) the variation of soil loss across the climatic belts of eastern Washington and northern Idaho. The results from part (1) of this study, initiated in 1973, will be available in 1978 and will be used in developing a second generation adaptation to the Pacific Northwest of the Universal Soil Loss Equation.

2. Runoff plots have been installed on cropland in eastern Washington and northern Idaho to determine the effect of slope length on relative magnitudes of rill and sheet erosion, as well as the effect of certain erosion control practices on runoff and erosion.

3. Runoff plots have been installed on cropland and bluegrass seed fields in eastern Washington to determine relative soil losses from different crop treatments including grass, conventionally and no-tillage planted fall-seeded wheat, and various primary tillages, the amount of nitrogen and phosphorous lost in runoff water, and the influence of grass residues on soil loss in subsequent years of the crop rotation.

4. A crop management factor evaluation model is being developed for use in the first and second generation adaptations of the Universal Soil Loss Equation to the Pacific Northwest. The model will consider such factors as surface residue, tillage operations, vegetative cover, and soil moisture content prior to and during the winter erosion season.

5. A sediment transport and delivery rate study is being conducted on a 27.1 square mile watershed. A PS-69 automatic pump sampler, located near a USGS gaging station, is used to collect suspended sediment samples. Several channel cross sections are measured before and after the erosion season to estimate the amount of channel aggradation or degradation and are used with upland erosion and valley deposition measurements and estimates to calculate delivery ratio. Data from the study are also being used to determine sampling frequency requirements for streams in agricultural watersheds of the Palouse.

   For additional information, contact Donald K. McCool, USDA, SEA, FR, Agricultural Engineering Dept., 219 Smith Engineering Building, Washington State University, Pullman, WA 99164.

Coastal Engineering Research Center

I. COASTAL SEDIMENTS

1. Analysis and Interpretation of Inner Shelf Geology.

The study and analysis of geophysical and sediment data from inner continental shelf studies along U.S. Atlantic, Pacific, and Great Lakes coasts continued during 1977. Phase I of the field data collection program for the U.S. near-shore portion of Lake Erie from Presque Isle, Pennsylvania, west to Toledo, Ohio, was successfully completed in 1977. Almost 900 kilometers of high resolution seismic reflection profiles were collected and are undergoing analysis and interpretation as an aid in determining the number and location of cores to be taken as part of Phase II during the 1978 field season. This program is a cooperative effort with the Ohio Geological Survey and the Lake Erie Marine Science Consortium. The results, in the form of CERC reports, will delineate potential sources of offshore sand for beach nourishment projects and will provide scientific and engineering information on the geologic history and sub-bottom character of the Lake Erie Basin.

The paper "Geologic Effects of Ocean Dumping in the New York Bight Inner Shelf" was completed as a chapter in a book on geologic aspects of ocean waste disposal to be published in 1978. Sedimentation of anthropogenic materials in that shelf area were found to far exceed natural sedimentation rates. Consequently, much of the natural sea floor morphology has been altered.

Two reports on the Cape Fear, North Carolina, inner shelf region were completed. One, dealing with an inventory and description of offshore sand resources was published by CERC in 1977 (MR 77-11, "Sand Resources on the Inner Continental Shelf of the Cape Fear Region, North Carolina," by Edward P. Meisburger) and the second providing information on the geologic character will be available in 1978.

A comprehensive study using subbottom seismic profiles and 34 long cores was initiated for the Texas Gulf shelf centered on the Galveston region. Data collection and partial analysis was completed in 1977 and a report will be produced in 1978. Analysis of the cored sediments will be done in cooperation with the U.S. Geological Survey office in Corpus Christi, Texas.

Work is continuing on sediment and geologic data previously collected in Lake Michigan, along the southern California coast and in Long Island Sound. Reports on these areas should be available in 1978.

II. SEDIMENT HYDRAULIC INTERACTION

1. Sedimentation in High Tide Range Areas.

Objectives of this study are to indicate the degree of shoaling that might be expected in a prototype harbor basin in Alaskan waters or other high tide range areas, and to develop a means for minimizing shoaling. Emphasis in 1977 was on data analysis and report writing. Two reports were completed:

(a) Everts, Craig H., "Self-Maintaining Nagivation Channels for Certain Enclosed Harbors" preprint, Fourth International Conference on Port and Ocean Engineering Under Arctic Conditions, St. John's, Newfoundland, 1977.

(b) Everts, Craig H., "A Method to Forecast Sedimentation Rates Resulting from the Settlement of Suspended Solids within Inclosed Harbors", in review, 1977.

A method to predict the stable configuration of a navigation channel connecting open tidal waters with an enclosed harbor is presented in the first paper. The stable cross-sectional area, cross-sectional shape, and bottom elevation of the channel are considered. A relationship between these variables and the water discharge through the channel is determined using the geometric characteristics of nearby natural channels and the hydraulic regimes that sustain the channels. An example is given using data obtained from a navigation channel at the harbor of Dillingham, Alaska, and from natural drainage channels on a tidal flat and in rivers near Anchorage, Alaska. The resulting relationships may be used when sediments are like those on northern tidal flats, i.e., highly compacted glacial silt and mud-sized material generally lacking in clay minerals and organic constituents. However, using appropriate field data, the method may be applied to the design of a navigation channel in any regior where natural tidewater drainage channels exist.

The second report is a technical aid which presents a method to forecast the sedimentation rate resulting when waters laden with suspended solids enter a harbor during a rising tide, or rising river stage, and settle out before they can be removed in suspension as the water level subsequently declines. Planning harbor maintenance expenses prior to construction in an area where significant quantities of sediment are transported in suspension is one example of its use. Geometric characteristics of the proposed harbor are considered and, consequently, the method may also be used to evaluate design tradeoffs, i.e., sedimentation rate vs harbor size, project depth, and channel characteristics.

2. Data Collection of Littoral Materials and Forces (LEO).

The Littoral Environment Observation (LEO) program in 1977 was a cooperative program carried out among Corps of Engineers District Offices, CERC, representative state agencies and volunteer observers. The present program involves the States of California, Michigan, Texas, Florida, Maryland, Oregon, Ohio, Georgia, Wisconsin, Washington, North Carolina and South Carolina. The parameters measured daily are: breaker height, period, direction, type; longshore current velocities; wind speed and direction; foreshore slope; rip current spacing; beach cusp spacing and monthly sand samples.

Weekly profile measurements are made at the sites on the Great Lakes. The LEO data is collected, collated and summarized for participating Corps Districts, state agencies and other volunteer. These data summaries show the climatology of surf, nearshore currents, coastal winds, beach geometry and sediment characteristics.

3. Evaluation and Testing of Profile Response Model (Great Lakes Shore Evolution).

Long-term changes in the water elevation of Great Lakes are cyclic, but unpredictable. As the weather varies, periods of increasing lake levels lasting for several years are followed by several years of falling levels; the cycle is then repeated. After reaching a 115-year record low in 1964, the annual mean surface elevation of Lake Michigan rose steadily to an 86-year record high in 1973. Beach profile sites initially established by the Lake Survey (USCEC) in 1967 on the east shore of Lake Michigan in the vicinity of Pentwater, Michigan, were resurveyed in 1969 and 1971. The purpose of the survey program was to gain insight into beach changes which accompany the lake level changes.

Comparison of short-term profile changes (days to months) with the net change over a number of years, indicated that storm and seasonal effects were overshadowed by a gradual, cumulative adjustment of the shore to the longer term increase in lake levels. Between 1967 and 1971 the annual mean elevation of Lake Michigan rose 0.5 meters. In the restricted area where profiles dated back to 1967, most of the inner three longshore bars also rose 0.5 meters in elevation and migrated 26 meters landward. The shoreline retreated an average of only 15 meters during this period. Roughly one-half of this retreat was attributable to simple submergence as the lake rose; the other half represented recession due to actual erosion. A report summarizing bar characteristics and profile changes between 1967 and 1971 was published, (TR 76-1, "Observations of Barred Coastal Profiles Under the Influence of Rising Water Levels, Eastern Lake Michigan, 1967-71," by E.B. Hands).

In a cooperative program with NOAA the profile sites were resurveyed in 1975. Results showed that the rate of shore retreat remained well above the historic average even though the water level had reached its peak two years earlier. A presentation on the effect of submergence on shore erosion rates was made before the 2d International Symposium on Land Subsidence (December 1976) and the text of this presentation will be distributed as a CERC reprint in 1978. ("Some Data Points on Erosion and Flooding for Subsiding Coastal Regions," by E.B. Hands)

The study area was resurveyed in 1976 to test, among other things, if recession was still continuing. At most stations the recession had slowed and some accretion had isolated the formerly receding dune face from continued wave erosion. By this time the net shore retreat had reached a position in good agreement with that predicted in CERC TR 76-1 based on the earlier repsonse of the offshore profile. A CERC report on the changes in rates of shore retreat is being prepared. A report on the impact of coastal subsidence, presented at the ASCE Sediments Symposium (November 1977) was prepared based on the 1967 to 1975 profile measurements together with data on changes in historic shoreline position elsewhere around Lake Michigan. ("Implications of Submergence for Coastal Engineers," by E.B. Hands)

A very rapid decline in lake levels in the fall of 1976 brought to a close another period of extreme erosion in the Great Lakes. Interpretation of all the collected shore and offshore profile data is underway; and a final report will be prepared in 1978.

4. Littoral Transport Testing Procedures.

The purpose of this work unit is to improve the understanding and operation of coastal engineering laboratory experiments and models.

CERC Miscellaneous Report No. 77-7, Volume I by Robert P. Stafford and Charles B. Chesnutt and Volume II by Chesnutt and Stafford were published during 1977. Contents of these reports were described in the 1976 Annual Report on Sedimentation.

Five other volumes of MR 77-7, "Laboratory Effects in Beach Studies," were completed and accepted for publication during 1977 and are planned for publication and distribution in 1978.

Volume III "Movable-Bed Experiments with H_o/L_o = 0.021 (1971)" by Chesnutt and Stafford concluded that tank width affects the rate of profile development and recommended that experimenters should be cautious in defining equilibrium profile conditions.

Volume IV "Movable-Bed Experiments with H_o/L_o = 0.021 (1972)" by Chesnutt and Stafford concluded that initial slope does affect the profile development in two-dimensional experiments.

Volume V "Movable-Bed Experiemtns with H_o/L_o = 0.039" by Chesnutt and Stafford concluded that lateral variations in profile development

become quite significant when the wavelength is on the order of the tank width.

Volume VI "Movable-Bed Experiments with H_o/L_o = 0.004" by Chesnutt and Stafford concluded that a strong circulation current, which developed between antinodes of the standing wave in the narrower of the two tanks, significantly affected profile development and reflectivity.

Volume VII "Movable-Bed Experiments with H_o/L_o = 0.013" by Chesnutt and Stafford concluded that a transverse wave generated by gap at the side of the generator blade caused significant lateral variations in profile shape.

The final volume in the series, which will provide a comprehensive analysis of results from all ten experiments, will be prepared in 1978.

5. Seaward Limit of Effective Sediment Transport.

a. Wave-Sediment Interaction Studies in a Water Tunnel. Under an interagency agreement with CERC, Karl Lofquist of the National Bureau of Standards completed a study of sand ripple growth in sinusoidal flow. A CERC report on the test results will be published in 1978. In February 1977, CERC published Lofquist's report on the design, construction and operation of the sinusoidal-flow water tunnel. (MR 77-1, "A Positive Displacement Oscillatory Water Tunnel," by K.E.B. Lofquist)

b. Suspended Sediments. In February 1977, ASCE Proceedings Paper 12736 reported conclusions on wave entrainment of quartz sand from rippled beds; the lab study by Tatsuaki Nakato and others at University of Iowa was partially supported by a CERC contract. In April 1977, CERC published a laboratory study of sediment suspension and turbulence, done by Thomas MacDonald at the University of California, Berkeley, under a CERC contract. (TP 77-4, "Sediment Suspension and Turbulence in an Oscillating Flume," by T.C. MacDonald)

A sediment entrainment parameter was used to calculate the maximum water depth for intense agitation of a sand bed by shoaling waves with given height and period. The procedure was documented in TP 77-9 "Calculating a Yearly Limit Depth to the Active Beach Profile," by R.J. Hallermeier.

6. Beach Profile Studies.

The objectives of these studies are to observe the response of beaches to waves and tides of specific intensity and duration and to develop predictive techniques for estimating seasonal and storm-induced beach changes.

During the 1977 calendar year all active field data collection in this work unit ceased. Emphasis continued on the preparation of locality reports summarizing data collected since 1962.

A draft of the Westhampton Beach, New York, locality report was completed. Surveys were made along 11 profile lines from 1962 to 1973. In addition, surveys were made along 9 profile lines which were variably spaced within two groin compartments. Over the 11 years, the profile lines at Westhampton Beach showed a net accretion. The MSL shoreline accreted at an average rate of 2.1 meters/year and the above MSL sand volume increased at 6.7 cubic meters/meter/year. Although these averages include the effects of a groin field that was constructed during the study, and two associated beach fills, profile lines undergoing "natural" changes also showed net accretion. Beach changes at Westhampton are seasonal, with a 15 meter range in beach width and a 42 cubic meters/meter onshore-offshore sand volume exchange. Storm-induced changes were variable, with both erosion and accretion occurring on different profile lines during most storms. The largest storm changes measured on any profile line were a shoreline erosion of 45 meters and an above MSL volume loss of 89 cubic meters/meter.

A draft paper entitled "Sand Size Trends Along and Across North Carolina Beaches" by Headland and DeWall was completed. A total of 1,455 precisely-located sand samples were collected at 15 locations along a 50 kilometers section of the North Carolina Coast, north of Oregon Inlet, between May 1974 and January 1977. Mean sand size generally decreases landward along the profile lines and decreases southward in an alongshore direction (downdrift). Mean size of the dune sand remains nearly constant along the 50 kilometers shoreline (0.3 to 0.4 millimeters) and medium sand (0.2 to 0.3 millimeters). Correlations were found between mean grain size, foreshore slope and wave height.

The following six reports were published during 1977:

(a) Ramsey, M.D. and Galvin, C.J., Jr., "Size Analysis of Sand Samples from Southern New Jersey Beaches," MR 77-3.

(b) DeWall, A.E., Pritchett, P.C. and Galvin, C.J., Jr., "Beach Changes Caused by the Atlantic Coast Storm of December 1970," TP 77-1.

(c) DeWall, A.E., "Littoral Environment Observations and Beach Changes Along the Southeast Florida Coast," TP 77-10.

(d) DeWall, A.E. and Richter, J.J., "Beach and Nearshore Processes in Southeastern Florida," ASCE Coastal Sediments '77.

(e) Everts, C.H. and Czerniak, M.T., "Spacial and Temporal Changes in New Jersey Beaches," ASCE Coastal Sediments '77.

(f) Goldsmith, V., Sturm, S.C. and Thomas, G.R., "Beach Erosion and Accretion at Virginia Beach, Virginia and Vicinity," MR 77-12.

Principal results of most of these reports have been identified in previous Annual Reports on Sedimentation.

A major effort has been devoted to rewriting and combining existing computer programs used for editing, analyzing, and displaying beach profile survey data. The objective of the effort is to produce a package that will be usable on a number of different computer systems. A draft users' guide and technical paper on the package is in preparation.

7. Effects of Long Term Great Lakes Water Level Changes.

The purpose of this study is to develop a better understanding of the effects of the Great Lakes water level variations on bluff and shore erosion. One part of the study examined the lake shore and bluff changes which occurred at 17 profile lines located along the eastern shore of Lake Michigan between 1970 and 1974. Two contract reports discussing this part of the study have been previously published:

(a) Davis, R.A., Jr., Fingleton, W.G. and Pritchett, P.C., "Beach Profile Changes: East Coast of Lake Michigan, 1970-72," MP 10-75.

(b) Davis, R.A., Jr., "Coastal Changes, Eastern Lake Michigan, 1970-73," TP 76-16.

The second part of the project is examining the effects of changing lake levels over relatively short stretches of lakeshore in Berrien County, Michigan. Through the use of semiannual air photographs taken between 1971 and 1974, bluff recession amounts and rates have been calculated every 100 feet for 5 miles of shore. Using these data it is possible to determine the effect of high lake levels, storms, and shore structures on the recession rate. Of particular interest are the effects of a 1,900 foot long vertical sheet pile seawall which appears to have stabilized the bluff behind it while locally accelerating the erosion of the bluff adjacent to it. Average measured bluff recession was 12 feet/year with some sections experiencing losses of over 25 feet/year during the 4 year period. Results of this phase of the study are scheduled for publication in early 1979.

8. Checklist for Longshore Transport Prediction.

a. Longshore Transport. Five experiments relating wave conditions to longshore transport rate were completed in the Shore Processes Test Basin, all for a generator angle of 10 degrees. The measurements include hourly values of breaker angle and height, and four-hourly values of transport rate. The data show considerable variability in all measured quantities that does not appear to have been reported in previous tests, probably because data were not previously measured so systematically.

Initial results at the 10 degree angle resemble Saville's early longshore transport results. Work is continuing at higher values of generator angle. There has been a preliminary office investigation into the sediment size effect in longshore transport. Two CERC publications and one technical paper will be released in 1978 on this work.

b. Suspended Sediments-Field. The report on suspended sediment data at Nags Head, North Carolina and Ventor, New Jersey, was published as TP 77-5 "Suspended Sediment in the Littoral Zone at Ventor, New Jersey, and Nags Head, North Carolina," by J.C. Fairchild. Contents described in last annual report.

9. Channel Islands Longshore Transport Study.

This study was initiated to determine the empirical coefficient relating longshore energy flux with longshore sediment transport. Hydrographic and topographic surveys were taken at intervals ranging from 20 to 45 days and wave data collected on a regular basis. Both wave gage data and visual surf observations were obtained. The data collection phase of the project is nearing completion and data analysis is underway. A preliminary report on project results was made at the 15th International Conference on Coastal Engineering, "Longshore Transport at Total Littoral Barrier," by R.O. Bruno and C.B. Gable. These results indicate that transport rates may be larger than is currently believed for a given energy flux level; however, conclusions must await the completion of a more detailed data analysis. Following dredging of the sand trap in early 1978 a determination will be made on whether to initiate a new monitoring program.

10. Beachfill Sediment Criteria.

a. Sediment Response to Littoral Processes. An integrated study of sedimentary features and littoral processes is being made as an approach to the problems of beach sampling, beach fill, and sediment transport and beach erosion. Basic data input includes sediment texture for samples taken along profiles extending from the beach through the littoral zone; sedimentary bed form types; wave and current properties; other basic environmental properties; and sediment transport patterns (from literature, diver observations, and support programs).

b. Guidelines for Solving Problems Involving Beach Nourishment. Existing mathematical techniques for predicting the stability of borrow materials as beach fill were presented and compared in CERC TM 60, "Techniques in Evaluation Suitability of Borrow Material for Beach Nourishment," by W.R. James. In 1977 TP 77-6, "Review of Design Elements for Beach Fill Evaluation," by R.D. Hobson was published. This report provides a summary and review of: a) analyzing and characterizing sediments, b) sampling beaches and borrow sites, c) calculating composite grain-size distributions, and d) use of existing beach fill

schemes. State-of-the-art recommendations relating to these topics are provided at the conclusion of the report.

Field investigations of the performance of beach fills at Imperial Beach, California, and Rockaway Beach, New York, are underway and are providing textural and volumetric data needed to test, and improve if necessary, the proposed mathematical nourishment models. Although the investigations will last two to three years, data sets from each field episode can be analyzed individually to assist in "short-term" evaluation of the models.

Additional experiments were conducted in North Carolina and New York to evaluate modifications to sediment texture caused by dredging and handling operations. The purpose of these experiments is to improve beach fill model predictions by providing more accurate descriptions of fill sediment texture. These experiments are scheduled to continue and a mathematical model to predict textural changes due to handling operations has been proposed. The two completed studies indicate that winnowing losses of 10 to 16 percent from the finer grain sizes produce a sediment that is coarser and better sorted than original borrow sediments and which has an improved predicted performance as beach fill.

A lightweight coring device (SLIC cover) was constructed in 1976 which has proved very useful during the handling-loss experiments. This device will also be used during field studies planned for this summer to core sample sediments from across active beach profiles. These studies are designed to evaluate the depth component of textural variability for beach and the data collected will be used to establish improved sampling guidelines for characterizing the composite texture of beach sediments.

11. Storm Erosion Studies.

The purpose of this study is to develop a method for predicting storm-induced beach changes. The first three years of study have been devoted to collecting field data from various storms by attempting to survey a number of beaches just before and immediately following a storm. Study localities include Ludlam Island, New Jersey, Long Beach Island, New Jersey and Dare County, North Carolina, (near CERC's North Carolina Field Research Facility). As of January 1978, 14 storms had been monitored, varying in intensity from minor storms to Hurricane Belle on 9 August 1976.

The effect of Hurricane Belle on Ludlam Island was to cause multiple breaks in the dune line and to cause the face of the dune to recede an average of 24 feet. One of the most significant northeasters studied, occurred 14 October 1977. Though it lasted less than 1 day, the 20 miles per hour winds and 8-10 foot waves caused considerable beach erosion. At Ludlam Island an average of 6.4 cubic yards/foot were lost. At one particular profile line, 12 cubic yards/foot were removed leaving a very narrow

and featureless beach.

The primary factors affecting the amount of erosion are: the duration of strong onshore winds and high waves, coupled with the storm surge height, fetch length and the characteristics of the beach (width, elevation, sand size). In the final phase of the study, the data collected, combined with other available storm change data, will be analyzed in order to understand the relationships between these variables and to develop the predictive method.

12. Currituck Sand By-Pass Test.

During the summer of 1976, 26,750 cubic meters of relatively coarse sediment was dredged from the New River Inlet, North Carolina, moved downcoast using a split hull barge, and placed in a 240 meter coastal reach between the 2 meter and 4 meter depth contours. Bathymetric changes on the disposal piles and in the adjacent beach-nearshore area were studied for a 13-week period to determine the net transport direction of the disposal sediment and the modification of the surrounding beach-nearshore profile. The predominant transport direction of the disposal sediment was found to be shoreward into the surf zone and then in the direction of the longshore current.

An initial report on this test was published in 1977 (ASCE Sediment '77, "Nearshore Disposal: Onshore Sediment Transport," by R.K. Schwartz and F.R. Musialowski). A more extensive CERC report will be published in 1978.

A second test (Phase II) will begin in summer 1978 and continue for six to twelve months. The second test will examine the effects of disposing sand at different water depths.

III. STRUCTURE-SEDIMENT-HYDRAULIC INTERACTION

1. General Investigation of Tidal Inlets

During the 1977 calendar year, the following reports were published on tidal inlet sedimentation topics described in previous sedimentation reports:

(a) Behrens, E.W., Watson, R.L. and Mason, C., "Hydraulics and Dynamics of New Corpus Christi Pass, Texas: A Case History, 1972-73," GITI Report 8.

In 1972, a 2-mile channel was dredged through Mustang Island, Texas, to increase water exchange and fish migration between Corpus Christi Bay and the Gulf of Mexico. The pass' initial adjustment to tides, waves, and other

forces was measured the first year following the opening. Hydraulic and sedimentary effects of the pass were studied by obtaining detailed bathymetric, topographic, and hydraulic surveys of the pass and adjacent gulf beaches; daily wave observations provided information on the seasonal variability in wave height, period and direction. An estimated 1 million cubic yards of sand accumulated at the pass during construction of two gulf jetties. Thereafter, a loss of sand greater than the estimated net annual longshore transport rate occurred on beaches south (downdrift) of the jetties. Considerable sediment was deposited on shoals at the bay end of the pass with little accumulation in the pass. Hydraulic measurements indicate that channel frictional resistance increased by about 50 percent over the study period, although greater variability occurred during individual tidal cycles. Tidal discharge through the pass was highly dependent upon variations in the gulf tides, with equal volumes of ebb and flood flows during diurnal tides and strong flood predominance during mixed and semidiurnal cycles. The average discharge through the pass was only about 3 percent of the total tidal prism of Corpus Christi Bay, indicating that the bay tides, which partly control flow through the pass, result primarily from passage of the tide through Aransas Pass, the major bay-gulf connection.

The pass was marginally stable during the first year, but the wide range of climatic conditions in the region will probably cause the pass to be stable in some years and unstable in others. Although the pass undoubtedly influences bay water within the immediate vicinity, no significant effect on flushing of Corpus Christi Bay resulted from the pass construction.

(b) Mayor-Mora, R.E., "Laboratory Investigation of Tidal Inlets on Sandy Coasts," GITI Report 11.

Experiments were conducted on a fine sand barrier separating two 1-foot-deep basins representing an ocean and a 94- by 64-foot bay. Pilot channels with varying geometric characteristics were cut through the barrier to communicate the basins and thus create an ocean-inlet-bay system subsequently subjected to ocean tide and wave action. Measurements were made of cross-sectional areas, water surface elevations at ocean, bay, and inlet, and inlet current velocities for a number of cycles (sinusoidal tides) until the water surface fluctuations in the bay became periodic for each run. Exploratory studies included runs with jettied inlets, a run with "freshwater" inflow into the bay, inlets under mild and steep ocean waves, and runs to determine the effect of model bed ripple orientation on the friction coefficient of the inlet channel. Experimental data are presented in tabular and photographic form, and as plots correlating the various dimensionless hydraulic parameters (e.g., tidal range damping coefficient, bay superelevation, mean current velocity timelag between maxima and minima, duration of ebbtide) to the repletion coefficient, K, and to a proposed parameter, K F. These results are then compared to the

basic theoretical solution of the problem by Keulegan (1967) and to an extension of the Keulegan theory (the lumped parameter approach) developed by Huval and Wintergerst (in preparation, 1977). Comparison of tidal prisms and minimum flow areas are made between the laboratory results and available field data. An appendix includes plots summarizing the inlet channel's geometrical properties for the experiments.

(c) Kieslick, J.M., "A Case History of Port Mansfield Channel, Texas," GITI Report 12.

This report presents a case history and analysis of Port Mansfield channel, an artificial, jettied inlet between the Gulf of Mexico and Laguna Madre, Texas. Deposition has occurred in the channel entrance since its opening. Seaward migration of the updrift beach and shoaling in the channel entrance indicate that sand is bypassing the jettied entrance. Short-term predictions of inlet stability using the O'Brien prism-area relationship (Jarrett, 1976), Escoffier's (1940) stability criteria, and the Bruun and Gerritsen (1960) ratio of tidal prism to the gross annual longshore transport rate, correctly predict the unstable nature of the channel. Tidal exchange volumes and velocities are not large enough to maintain the design cross-sectional area in the presence of the existing longshore transport.

(d) Escoffier, F.F., "Hydraulics and Stability of Tidal Inlets," GITI Report 13.

This report presents a summary of several of the important basic developments pertaining to analysis of the hydraulics and related stability of tidal inlets. In particular, it covers the work reported by Brown (1928) and Keulegan (1967) on inlet hydraulic calculations, and by O'Brien (1931, 1966), Jarrett (1976), Bruun (1966), Johnson (1973), O'Brien and Dean (1972), and Escoffier (1940) on the analysis of inlet channel stability. The original inlet stability concept proposed by Escoffier is extended in light of recent work. The report also contains brief discussions on tidal inlet characteristics and functional design requirements as well as case studies of selected inlets on the U.S. coasts.

2. Evaluation of Shore Protection Structure.

Reports on the following projects have been completed and are currently under review: (1) Beach nourishment at Treasure Island, Florida, and at Virginia and Biscayne Keys, Florida; (2) Revetments at Ft. Story, Virginia; (3) The New Hampshire Groins; and (4) The Sand Bat Groins at Virginia Beach, Virginia. A request for proposals has been prepared for advertising for the analysis of data on North Carolina Beaches. A second draft of a report on the Present Status of Guidelines for the Design of Weir Jetty Complexes has been completed and is under review. A monitoring program for the offshore breakwaters at Lorain, Ohio was completed and monitoring begun. Also, a monitoring program for Murrells Inlet was completed and cost estimates for the program determined.

3. Develop Functional and Structural Design Criteria.

A comprehensive study has been underway to create an annotated bibliography of patents related to coastal engineering. The collection includes patents in categories of offshore construction methods and equipment, oceanographic instrumentation, wave tanks and generators, and devices for shore protection. The bibliography will be published in 1979.

A literature review has been underway as a prelude to developing design criteria for the planning and design of offshore breakwaters for shore stabilization. The literature review will culminate in an annotated bibliography being published in 1978. From the information contained in the literature, design criteria will be developed and areas identified where laboratory testing is needed to better define design criteria.

A report has been in progress which will provide information concerning the use of hydraulic scale models for solving coastal engineering problems. The report will be published in 1978 and will present sufficient information so that the state-of-the-art of scale modeling of the important types of coastal problems can be discerned.

The third edition of the Shore Protection Manual will be published early in 1978. This is a comprehensive manual written for engineers concerned with designing jetties, seawalls, bulkheads, revetments, and groins for protection of beaches and coastal harbors from the interaction of waves, winds, tides and currents.

CERC Coastal Engineering Technical Aid No. 77-6, "A Method for Estimating Wind-Wave Growth and Decay in Shallow Water With High Values of Bottom Friction," by F.E. Camfield was published in 1977. This report presents an approximate method for estimating the growth or decay of waves traveling through shallow water over areas with a high frictional resistance from vegetation. The method is based on previously developed equations for wave growth over areas with low bottom friction given in the Shore Protection Manual, and an equation for the decay of gravity waves over areas with a constant water depth and high bottom friction. The method uses existing shallow-water wave forecasting curves by adjusting fetch lengths to account for higher bottom friction. Simplifying assumptions are used. The water depth is assumed to have only gradual variations, and the frictional resistance is treated as bottom friction. The method presented has not been verified in the field and may not be applicable to other problems relating frictional resistance to wave development.

CERC Coastal Engineering Technical Aid No. 77-5, "Wave Setup on a Sloping Beach," by J.R. Lesnik was published in 1977. Design of coastal structures requires consideration of abnormally high water levels produced by storms. An important component of the storm surge can be the rise in water level produced by wave action. This report provides the designer with a simplified method of estimating wave setup on a sloping beach.

A report is in preparation which will provide information concerning the prediction of tsunami effects in coastal areas. The report will in general summarize the knowledge presently available on tsunami engineering and in particular will provide guidance in determining the flooding and wave forces at any coastal area as a result of tsunami attack. The report will be published in 1979.

A report is in preparation to improve and supplement the runup guidelines given in the Shore Protection Manual. A means of estimating runup on rough slopes for conditions not tested is being investigated. Report will be published in 1978.

A report is in preparation which will provide information and guidance on the creation and stabilization of dunes by the use of vegetation and fencing. The report will be published in 1978.

4. Prototype Experimental Groin, Point Mugu, California.

The experimental and data collection phase of the study was completed 30 June 1976. All components of the permeable groin were removed by January 1977. The study is currently in the data analysis phase.

The final hydrographic survey and sediment samples were obrained in May 1976. Approximately 500 sand samples have been analyzed to determine mean particle size distribution and other statistical parameters. These parameters are being studied to determine their relationship to the longshore energy transport, foreshore beach slope and beach firmness.

This information will be included in the report on the functional performance of the experimental groin due to be published in 1978.

5. Weir Jetty Orientation and Elevation.

A three-phase study to investigate the behavior of weir jetty systems was initiated in late 1976. A draft report summarizing the behavior of five completed weir jetty systems and providing interim design guidelines was completed in 1977 and will be published in 1978. The three-phase research program will include two series of laboratory experiments and a field measurement program. A series of movable-bed laboratory tests will seek to quantify the distribution of sediment transport across a weir jetty for various wave and tidal flow conditions. A second series of tests will also use tracer materials in the model to determine relative volumes of sediment carried over the weir section and around the jetty into the navigation channel and to determine the response of the updrift shoreline to changes in wave direction. The field measurement program will measure the distribution of sediment transport over a full scale weir section by mounting sediment traps at various locations along a weir section and determining the transport rate there.

Expected output from the program will permit designers to use the empirical data in a stepwise integration procedure to evaluate proposed weir jetty designs and to establish weir crest elevation, orientation and length.

6. Numerical Modeling of Coastal Systems.

This study was initiated in 1976 to investigate the feasibility of developing a numerical model that would predict the response of a shoreline to changes in wave energy acting on it. Initial conclusions are that an approximate model suitable for use in planning studies can be developed that will provide estimates of the effects of various coastal structures on adjacent shorelines. A detailed literature survey of publications relating to mathematical prediction of shoreline evolution was published in 1977. (MR 77-10, "Mathematical Modeling of Shoreline Evolution," by B. LeMehaute and M. Soldate)

Current efforts are being directed toward the development of a numerical computer model based on the equations for longshore sediment transport and the mass balance equation for the sediment. A report describing the mathematical model will be published in 1978. The eventual product will be a computer program that will permit pre-construction estimates of the effects of proposed coastal structures, the interaction among several coastal structures along a shoreline and a method of estimating the damages attributable to the construction of a given navigation project.

7. Low-Cost Shore Protection (SEAP).

An information pamphlet on erosion control devices and methods has been forwarded to concerned Corps of Engineers Divisions and Districts where demonstration projects were authorized under Section 54 of the Water Resources Development Act of 1974. This knowledge will be reviewed and returned to the Shoreline Erosion Advisory Panel to assist with its Demonstration Erosion Control Program. Data is presently being collected and collated in a bibliographic type report on the various types of shore protection alternative methods (SPAM) with an annotation on the testing which has been done on each of the concepts. Another part of this effort is partial funding under CERC R/D program for the State of Michigan's Demonstration Erosion Control Program on which three reports have been prepared by the Michigan Department of Natural Resources.

CORPS OF ENGINEERS

The Hydrologic Engineering Center

The "HEC-6, Scour and Deposition in Rivers and Reservoirs" computer program continued to be the focal point of activity at HEC in the area of sedimentation. Several improvements to and applications of the model were made. Guidelines for the use of the HEC-6 model are currently being drafted. A methodology was developed for calculating a single representative water discharge from an annual hydrograph of mean daily flows. This will facilitate the model calibration but will not replace the need for a hydrograph in project studies.

The HEC-6 program has been modified to include simulation of the scour and deposition of cohesive materials. The deposition algorithm is based on a relationship developed by Dr. Ray Krone, University of California, Davis campus. Scour is calculated by the Parthenaides equation. The cohesive sediment transport methodology has been tested but it has not yet been incorporated into the standard library version of the program. Feedback from the Sediment Transport training course indicated several uses for the present HEC-6 model as well as the need to modify it to subdivide a cross section into several strips for calculating sediment movement into reservoirs. Initial theoretical development and coding were computed for the "strip" version of HEC-6. This version (developed for the North Central Division, NCD) will allow the channel cross section to be subdivided into several strips, each of which can have different amounts of scour or deposition. Testing of the model, on both hypothetical and real situations, was undertaken by NCD. The strip version of HEC-6 and the new network version are both being accomplished with the assistance of Mr. W. A. Thomas, Waterways Experiment Station. The network capability permits the movable bed water surface profile computations to proceed up both the tributaries and the main stem of a river. Without this capability, it was previously necessary to compute tributary flows and sediment loads in separate applications of HEC-6 and then include them as point sources in a single main stem river model. The proposed network model methodology is being reviewed by the HEC in an effort to implement a network capability into the standard HEC-6 model. Work to include the Einstein sediment transport method in HEC-6 has been completed.

Work was completed on the application of HEC-6 to reconstitute observed movement of sediment following removal of the Washington Power Dam on the Clearwater River, Idaho. Calculated rates of scour differed noticeably from observed rates during the first year following removal of the structure; however, in later years the calculated streambed profile converged to that of the observed. The study involved the development of procedures and techniques of calibration and verification of the model, the comparison of actual and predicted bed elevation changes along the stream, and the evaluation of the predicted results. The applicability of the model to this type of problem and the limitations of a one-dimensional model are discussed in an HEC technical paper and were presented at the ASCE Annual Convention, 1977.

CORPS OF ENGINEERS

Waterways Experiment Station

Title of Study:

Dredged Material Research Program

Conducted by:

U.S. Army Engineer Waterways Experiment Station

Conducted for:

Office, Chief of Engineers

Summary of Accomplishments:

During 1977 all of the DMRP studies concerned with sedimentation dealt with the evaluation of the short-term dispersion of sediment in the vicinity of open-water disposal operations and any related environmental impacts. This included both hopper as well as pipeline disposal operations primarily in environments such as Corpus Christi Bay, Galveston Bay, Mobile Bay, Atchafalaya Bay, Apalachicola Bay, Lake Erie, Lake Ontario, and the James River. Measurement techniques for determining suspended sediment concentrations/bulk density of dredged material suspensions included the use of transmissometers, nephelometers, nuclear density probes, water sampling devices, and multifrequency acoustical techniques. All field investigations planned under the DMRP were completed during 1977 and are described in detail in numerous DMRP publications scheduled for publication in 1978 within areas dealing with aquatic disposal field investigations, movements of dredged material, and turbidity prediction and control. All studies performed to date indicate that in general regardless of the characteristics of the dredged material 95 to over 99 percent of the dredged material slurry disposed in open-water environments descends rapidly to the bottom of the designated disposal site without any detectable impact on the water column or its associated organisms. However, there is a relatively significant short-term impact associated with the burial of benthic organisms under fluid mud layers generated by open-water pipeline disposal operations. Mathematical models describing the short- and long-term fate of dredged material have also been developed and are presently being verified using field data collected at numerous disposal sites. (Translations of numerous publications by C. Migniot, Central Hydraulics Laboratory of France, are available upon request from the Technical Information Center at the WES.)

Title of Study:

Beach Nourishment Techniques

Conducted by:

U.S. Army Engineer Waterways Experiment Sation

Conducted for:

Office, Chief of Engineers

Summary of Accomplishments:

The Beach Nourishment Techniques project is a portion of the Improvement of Operations and Maintenance Techniques (IOMT) program, funded by the Office, Chief of Engineers. The objective of the project is to develop new techniques, procedures, and equipment that will open new supply sources of beach nourishment materials and permit economic exploitation of these resources with a minimum disturbance of ecosystems.

Accomplishments during Calendar Year 1977 include the following:

a. Completion of contract work to identify and quantify existing and future beach erosion projects in the continental U.S.

b. Initiation of work by CERC and WES on detailed description of example nourishment projects.

Future efforts will be directed toward the completion of work described in paragraph b and the selection and engineering development of nourishment systems suitable for the example projects thus defined.

Title of Study:

Development of an Eductor System for Sand Bypassing

Conducted by:

U.S. Army Engineer Waterways Experiment Station

Conducted for:

Office, Chief of Engineers

Summary of Accomplishments:

The purpose of this study is to develop effective systems for bypassing sand at tidal inlets and other obstructions to littoral transport, including dredged channels, jetties with and without weir sections and deposition basins, and breakwaters. Laboratory and field tests are required for development and evaluation of equipment and operating techniques.

During early CY 77, storm conditions at the Santa Cruz Harbor, CA, test site closed the harbor mouth and sanded in the jet pump supply water intake which prohibited any attempt to re-establish the channel using the jet pump system. Subsequent to the annual maintenance dredging, the intake was relocated in a nonshoaling spot, and an additional year of operation and testing was scheduled. Two permanently emplaced jet pumps were installed, in addition to the several buoyed pumps, and during the period May through the end of CY 77, about 55,000 cubic yards of sand were bypassed.

In late December, a dredge under contract to the San Francisco District completed the first of three scheduled interim dredgings. After removal of about 30,000 cubic yards of material, the harbor entrance was in usable condition.

Two positive conclusions from the field tests at Santa Cruz Harbor are (a) the 4- by 4- by 6-inch jet pump system that was designed specifically for the experiment is inadequate to handle on a production basis the volume of sand at the rates it is deposited at Santa Cruz Harbor during severe weather; however, a system can be sized to bypass at the rates experienced at the site and (b) bypassing during storms should be accomplished by the permanently emplaced pumps; the buoyed pumps will not withstand the severe storm wave action and should be used during less severe periods.

The laboratory tests were continued in early CY 77, and revisions to the test facility were initiated. A new liner is to be placed in the facility, and an addition to the pier was completed.

Title of Study:

Section 32 Program, Streambank Erosion Control

Conducted by:

U.S. Army Engineer Waterways Experiment Station

Conducted for:

Office, Chief of Engineers

Summary of Accomplishments:

The purpose of the investigation is two-fold: to develop the state-of-the-art through a literature survey and develop new methods and techniques for streambank protection through hydraulic and soil research.

Accomplishments during calendar year 1977 included the following:

a. WES published and distributed TR H-77-9 "Literature Survey and Preliminary Evaluation of Streambank Protection Methods" dated May 1977.

b. Numerous field inspection trips were conducted throughout the U.S. to both existing and newly-constructed demonstration sites.

c. Wave and Channel Flow Research was conducted in separate experimental facilities.

d. A 1:80-scale model was used to demonstrate (only qualitatively) the effects of propeller wash in various depths of water on cohesionless bed materials.

e. Evaluation of the applicability of a two-dimensional mathematical model for describing stream flow distributions and velocities to assist in designing bank protection measures was initiated.

f. Meade Laboratory also conducted hydraulic model tests of bank protective works to be used in Missouri River demonstration projects.

Future work will include additional field inspections to evaluate and report on existing bank protective works and demonstration sites, and continued conduct and reporting the results of hydraulic and soils research through 1981. An interim report to Congress will be prepared and submitted to OCE during July 1978.

Title of Study:

Advance Maintenance Techniques

Conducted by:

U.S. Army Engineer Waterways Experiment Station

Conducted for:

Office, Chief of Engineers

Summary of Accomplishments:

The Advance Maintenance Dredging study is a portion of the Improvement of Operations and Maintenance Techniques (IOMT) program, funded by the Office, Chief of Engineers. The objective of the project is to evaluate the effectiveness of advance maintenance dredging in reducing frequency and costs in coastal and inland channel and harbor maintenance and to establish guidelines necessary for governing this practice. Thus far, the major area of investigation has been literature and Corps of Engineers districts surveys and the evaluation of advance maintenance dredging projects. An empirical technique based on historical dredging records has been developed to predict the effect of depth and width on dredging frequency and volume.

Accomplishments during Calendar Year 1977 include the following:

a. Completion of a draft report which describes current Corps' advance maintenance dredging criteria and identifies all previous and current advance maintenance projects.

b. Completion of 25 percent of a draft report which describes an empirical technique, based on historical dredging records to predict the effect of depth and width on dredging frequency and volume.

c. Completion of evaluation of 40 Corps' dredging projects to determine effect of depth and width on dredging frequency and volume.

d. Completion of hydraulic model testing in the Houston Ship Channel model.

Future work will include both the continued evaluation of existing advance maintenance dredging projects and the testing with physical hydraulic models and/or numerical models to study effects of individual physical factors. The final objective of the study is to publish a series of technical reports which (1) describe current advance maintenance criteria and identify previous and current projects; (2) describe an empirical technique, based on historical dredging records, to predict the effect of depth and width on dredging frequency and volume; (3) evaluate the shoaling results from existing advance maintenance projects; and (4) classify Corps' dredging projects with regard to advance maintenance effectiveness.

FEDERAL INTER-AGENCY SEDIMENTATION PROJECT
ST. ANTHONY FALLS HYDRAULIC LABORATORY, UNIVERSITY OF MINNESOTA, MINNEAPOLIS, MINNESOTA

The following report summarizes activities of personnel of the Federal Inter-Agency Sedimentation Project located at the St. Anthony Falls Hydraulic Laboratory during the calendar year 1977.

Laboratory Research, Work in Progress - Construction of the bedload sampler calibration facility is nearly complete, and testing is scheduled to start in April 1978. During much of 1977, project personnel were engaged in designing and supervising construction of the instrumental system, the sampler test carriage, the fathometer carriage, the water-discharge monitors, and the gravel-sieving equipment. The instrumentation system consists of a magnetic tape recorder, seven strip-chart recorders, a seven-channel timer for weigh-bucket control, an elapsed time digital output crystal-controlled clock, a two-channel digital to analog converter, and a manually-controlled coding channel. The entire instrumentation package is housed in a sealed temperature-controlled enclosure. The moveable test carriage spans the nine-foot channel and is twelve feet long. Mounted on the platform, six overhead tracks and trolleys support the test samplers which facilitates sample extraction. On the downstream end the tracks intersect another trolley that supports an air-driven hoist so that any of the six samplers can be lowered to any desired point in the channel. To speed the sampling process, one sampler can be emptied while another is being positioned.

To profile the bed, a recording fathometer is positioned on a second, smaller carriage which will roll along the entire length of the flume. The fathometer carriage rolls on separate tracks and is low enough to pass under the sampler carriage. The water-discharge monitor is a commercial oscillating-conductive probe level sensor positioned to record the head on the discharge weir. Signals are continuously displayed on the carriage so that operators can quickly correct deviation in discharge.

For each run, approximately 4,000 cubic feet of gravel must be screened prior to loading it into the flume. The gravel is sifted through a 3 x 6 foot screen, mounted in a steel frame which is supported from cables and springs. To maintain flow, a vibrator oscillates the screen at 1800 Hertz. To provide room for accumulations of the processed gravel, the screen and vibrator are mounted atop a twenty-foot steel tower which also supports two wooden chutes. The chutes collect the processed gravel and convey the two fractions to areas where they can be loaded into trucks. The unprocessed gravel is elevated to the screen by a forty-foot conveyor belt.

New Suspended-Sediment Sampler for Freezing Conditions - A new sampler has been developed, termed the D-77. The sampler holds a 3-liter plastic container. The sampler departs from conventional design in that the nozzle and air exhaust ports are molded into a 1-piece standard mason-jar threaded plastic cap that threads directly to the mouth of the container. To minimize cold weather freeze-up problems, the traditional sampler head has been eliminated so that the container can be inserted directly into the mating cavity. To maintain balance, buoyancy is provided by the tail which consists of a streamlined air chamber.

Recommended Methods - In cooperation with members of the ASTM committee D-19.07.03, the project revised a draft of recommended procedures for sampling sediment in motion. Except for addition of sections pertaining to safety, the draft is nearly ready for a committee vote.

Testing of Pumping Samplers - In an attempt to establish standard procedures for testing pumping samplers, the project devised a series of laboratory tests, then refined the procedures by testing five different samplers.

Isokinetic Sampling - To provide a measure of errors involved in the basic isokinetic-sampling procedure, the project conducted a series of small scale flume tests. Sediment fed to the flow was sampled throughout the flow cross section and the mass flow rates computed from the samples were compared with feed rates.

Pumping Sampler Modifications - To increase the versatility of the P-69 pumping sampler, the project designed and tested a high-lift system with a peristaltic pump. The high lift system will pump samples to one-hundred foot elevations. The peristaltic pump recluses power requirements and eliminates metallic contamination of the samplers. The project made some design changes in the Chickasha pumping sampler and is stocking the samplers for sale to all agencies.

Training Model of P-61 Sampler - For training purposes the project arranged for fabrication of a special cut-away model of the P-61 point-integrating sampler for the Geological Survey's National Training Center. The model displays the interior construction of the sampler, and by means of color-coded parts, shows the pneumatic and hydraulic passageways within the valve, head, and body.

Equipment Supply - Supply, repair, and calibration of variety of samplers and analyzers was continued. A catalog and detailed equipment manuals are available upon request.

Other Pertinent Items - End-of-the-year status of sediment sampling and analyzing equipment manufactured and distributed to Federal Agencies is as follows:

Instrument		Sold since 1940	Sold during year	Number on hand
US D-49	Sampler, depth-integrating	899	2	12
US D-74	Sampler, depth-integrating	124	54	23
US D-74AL	Sampler, depth-integrating	85	13	12
US DH-48	Hand Sampler	2413	170	30
US DH-59	Hand-line sediment sampler	942	68	8
US DH-75P	Hand Sampler	62	13	25
US DH-75Q	Hand Sampler	54	48	19
US DH-76	Hand-line sediment sampler	66	50	45
US P-61	Sampler, point-integrating	183	29	13
US P-63	Sampler, point-integrating	33	1	1
US P-72	Sampler, point-integrating	18	3	7
US BM-54	Bed-material sampler	165	20	4
US BMH-53	Bed-material sampler	269	30	22
US BMH-60	Bed-material sampler	181	27	5
US-SA	Particle-size analyzer	80	3	2
PS-67	Pumping sampler	42	0	0
PS-69	Pumping sampler	249	18	2
PS-C76	Chickasha pumping sampler	12	1	0
SS-22	Sample splitter	30	4	8
BP-76	Power supply	65	21	15

Inter-Agency Sedimentation Project, St. Anthony Falls Hydraulic Laboratory, Third Avenue S.E. and Hennepin Island, Minneapolis, Minnesota 55414.

FEDERAL HIGHWAY ADMINISTRATION

The Federal Highway Administration (FHWA) concentrated its activities on three major areas: control of culvert outlet erosion, control of local scour around bridge piers, and control of sediment produced by highway construction. Its major efforts were carried out by staff and contract research, and by the various studies in the Highway Planning and Research Program (HPR) and in the National Cooperative Highway Research Program (NCHRP).

Control of Culvert Outlet Erosion - The objectives of these studies are to investigate the various flow conditions and the forces involved at the outlet area, the material necessary to resist the erosion, and the special designs of energy dissipators and stilling basins to control the erosion.

A. Sponsored by FHWA, the U.S. Geological Survey Hydroscience Center at Bay St. Louis, Mississippi is conducting an energy dissipator study entitled "Investigation of Rigid Boundary Basins in Flared Outlets from Circular Culverts." This study will yield basin drag coefficients for serrated roughness elements in flared transition sections at culvert outlets. Instrumentation was being debugged; testing should be started soon and should require six months to complete.

B. The University of Akron continued the study, sponsored under the HPR program by the Ohio Department of Transportation (ODOT), on Field and Laboratory Evaluation of Energy Dissipators for Culvert and Storm Drain Outlets. This study is directed toward two dissipator concepts that can be precast for culvert installation that do not require field concrete work. One is the modular basin which can be precast in components and assembled in the field by a maintenance crew; the other is the concrete pipe roughness ring which can also be precast and bolted into regular culvert sections. Field evaluation for both types of dissipators were started.

   Another important aspect for this study is the evaluation of the ODOT procedures for providing channel protection for culvert outlets that do not require dissipators. The evaluation focuses on the so called "Cincinnati Method" for designing rip-rap protection and will involve some 400 field sites.

C. FHWA initiated a new study at the Colorado State University for investigation of scour at culvert outlets. This study is for developing better guidelines for predicting the amount of scour for cohesive as well as cohesionless bed material at culvert outlet without energy dissipators. It will include four bed materials: a uniform sand, a uniform gravel, a sand-gravel mixture, and a sand-silt-clay mixture.

Control of Local Scour Around Bridge Piers - The objectives of these studies are to investigate the mechanics of this dynamic process, the methods of accurate prediction of its magnitude, the adequate means of controlling its damaging effect to bridge piers, and the stream-related hazards to highways and bridges.

A. The contract study on the study of Scour Around Bridge Piers was almost completed by the West Virginia University except the final revisions of the final report. The objectives of this study were to collect parameters which influence scour depth around bridge piers on rivers with noncohesive soils, and to test existing methods and/or to provide an improved method for predicting the scour depth. The researchers experimented with instrumentation and monitored three bridge sites in the mid-continent - Shreveport (Louisiana), Homochitto (Mississippi), and Richmond (Texas) - for approximately five years. The portable, truck-mounted scour monitor was found very helpful as backup to the fixed monitors which had been used previously.

B. The University of Iowa started a FHWA study on Scour Around Bridge Piers at High Froude Numbers. This study is a selective investigation to determine trends of scour under flow conditions that exceed the conditions of most of the previous tests. The investigators are documenting conditions under which the general bed form patterns will overwhelm local scour. They are investigating scour in three sizes of cohesionless bed materials at Froude numbers that range from 0.5 to 1.5 and at depth to pier diameter ratios that range from 0.25 to 1.0. This study is scheduled for completion in 1978.

C. The U.S. Geological Survey (USGS) is conducting a research study for the FHWA entitled "Countermeasures for Hydraulic Problems at Selected Bridges in the United States." This research shall examine the uses throughout the United States of various measures to alleviate hydraulic problems at highway bridge sites. Hydraulic problems under examination include: scour, bank erosion, channel degradation and aggradation, impact or abrasion damage, and wave action. General groups of countermeasures which have been examined and for which case histories have been obtained include: protective coverings and walls, flow control structures, special devices for protection of piers or pile bents, modifications of bridge or approach channel, and measures incorporated into the design of the bridge structure or crossing. Over 200 individual case histories have been accumulated representing many various stream types, hydraulic conditions and problems and measures to correct these problems. Data on general stream problems has also been obtained for most of the United States. This study was modified to include examination of stream channel changes made by highway agencies. The reason for the modification was that while investigating numerous countermeasures it became apparent that the best countermeasure for some situations would have been to realign the channel. However, environmental restrictions and bad experiences with some changes have made this option less appealing in most States and impossible in a few. This is unfortunate as a well conceived and constructed channel alteration of limited extent is often both economically and environmentally advantageous. The study will document numerous channel changes and show why they were successful or caused problems. Hopefully this type

of documentation will provide incentive to highway engineers to utilize their expertise in stream engineering to provide stream crossings that are environmentally sound and hydraulically efficient.

D. The USGS is also conducting a FHWA study entitled "Roughness Coefficients in Vegetated Flood Plains." It is to provide methods for estimating roughness coefficients in heavily vegetated flood plains. The study will take advantage of data collected in those completed HPR studies in the Gulf Coast States of Louisiana, Mississippi and Alabama. Detailed data will be used to field validate methods of roughness coefficient estimation which have been developed theoretically and only laboratory tested. The study will strive to attain a quantitative method that is relatively simple to apply and results in accurate estimates; at a minimum it will provide comparative methods that will make present estimates more consistent.

E. A FHWA contract entitled "Methods for Assessment of Stream-Related Hazards to Highways and Bridges" was awarded to the Colorado State University. Hazards of particular concern for this study are debris accumulation, stream bed level changes, channel bank erosion, changes in flow alignment, waves, wind and tidal erosion, and ice problems. The study will result in a systematic evaluation approach for determination of hydraulic conditions at a stream crossing, giving consideration to the entire stream environment including its geology, geomorphology and landuse on the flood plain. The approach will, hopefully, make determination of the hazards which pose stream crossing design problems more accurate and complete. The structure of the approach will also be useful in assuring that some seemingly potential problems are not serious. By using the approach the hydraulic or bridge engineer would be less likely to overlook a hydraulic problem and may be able to complete his site evaluation with less trouble and greater confidence. The study is designed to be a combined research-implementation package. The research will be conducted over the next year and development follows for an additional 6 months.

F. The Federal Highway Administration has contracted with Tye Engineering of Fairfax, Virginia to conduct a study entitled "Debris Problems in the River Environment." This study is aimed at determining the importance of trees and other water borne debris in causing bridge damage during floods. Also the study will examine the significance of the factors which determine debris potential for accumulation at bridges. Preliminary results from the effort show that debris is estimated to be a contributing factor in almost 20% of all bridge failures.

Control of Sediment Produced by Highway Construction - This problem consists of two stages: during construction and just after the construction.

A. It is important that during the construction of highways, the sediment produced by roadway excavation and embankment construction must be controlled so it will not pollute the natural streams. Sponsored by

the Pennsylvania Department of Transportation, the Pennsylvania State University and the U.S. Geological Survey continued a cooperative research study entitled "Prediction of Sediment Flow from Proposed Highway Construction Sites." This study capitalizes on the extensive work of others by utilizing modified Universal Soils Loss Equation which has incorporated a factor for surface runoff. The study will produce a computer program that can be accessed from any of the State's district offices and allows the engineer to try numerous sediment control methods mathematically before attempting to use any measures in the field.

B. The U.S. Geological Survey Hawaii District, through the sponsorship of Hawaii Department of Transportation, continued its study on Rainfall-runoff and Rainfall-sedimentation Discharge Relations in Hawaiian-type Watersheds. The objective of this study is to determine the effects of highway construction on the rainfall-runoff and rainfall-sedimentation discharge relations of a watershed in Moanalua Valley, Oahu, considering all significant basin characteristics. The results obtained will be used as a basis for deriving similar relations for other basins in Hawaii. Data collection and analysis were continued in 1977.

C. The Utah State University, under the National Cooperative Highway Research Program administrated by the Transportation Research Board, completed a 2-year study on Erosion Control During Highway Construction. The objective is to develop more effective techniques and materials to control erosion during highway construction activities. It consists of three major parts: to assess the effectiveness of methods presently being used throughout the United States, to develop a manual of recommended techniques and design criteria for the control of erosion, and to identify research needs. The final report consists of 3 volumes: Volume I - a summary of the research, Volume II - an erosion control manual, and Volume III - bibliography. This final report will not be published, but it will be summarized by the Transportation Research Board and then published in their regular NCHRP series as an NCHRP Research Results Digest. Negotiation was in progress to extend this study for one year mainly for conducting an experimental program on temporary erosion control methods.

D. The USGS, district office at Harrisburg, Pennsylvania, was conducting a research project entitled "Field Evaluation of Erosion Control Measures used in Highway Construction" under the HPR program. The object of this study is to evaluate different types of erosion and sediment control measures to determine the ability of each measure to prohibit sediment from entering a stream system, and to determine if sediment concentrations and discharges return to their preconstruction levels once the construction has ended. The study area consists of five basins. Sediment ponds built on and off on streams, small rock dams, seeding, mulching and erosion control measures used before the issuance of erosion-control guidelines were being compared with the use of sediment and discharge measurements. Sediment load and turbidity were shown to be much higher in the drainage basin

protected by the onstream ponds than that protected by offstream ponds.

E. It is equally important that upon completion of highway construction, immediate and adequate protection against erosion be provided for slopes and other roadside areas affected by grading. In most regions of the country this has been accomplished with the establishment and proper management of vegetative cover. In 1977, 21 States were conducting studies designed to improve vegetation establishment techniques and subsequent management practices. The participating States were Alaska, Alabama, California, Connecticut, Georgia, Hawaii, Illinois, Indiana, Louisiana, Maryland, Massachusetts, Michigan, Minnesota, Montana, New Jersey, Rhode Island, South Dakota, Texas, Washington, West Virginia, and Wyoming. Following are reports published in 1977.

1. Purdue University is developing methods of improved vegetation establishment and maintenance for the Indiana State Highway Commission. Reports from this research include "Evaluation of Several Methods of Establishing Plant Cover by Seeding on the Roadside," by P. Carpenter, et. al. (NTIS publication number PB 278275/AS); "Development of Techniques for Plant Establishment on the Roadside" (NTIS publication number 278604/AS); "Landscape Plant Response to Different Levels of Four Slow Release Fertilizers" (NTIS publication number PB 278603/AS); "Superior Bluegrass for Roadside Turf (NTIS publication number PB 275813/AS); and "A 5-Year Evaluation of Highway Mowing Practices: Summary and Recommendations," by D. J. Morre, et. al, (NTIS publication number PB 270031/AS).

2. The State of Alaska has just completed a study concerned with erosion control on silt cut banks. The final report "Re-vegetating Silt Cut Banks for Erosion Control" is available from NTIS. The publication number is PB 276634/AS.

3. The Louisiana Department of Highways is having a study conducted by Louisiana State University which is looking for ground covers for areas which cannot be mowed. An interim report by R. Stadtherr and D. Newsom entitled "Establishment of Ground Covers for Non-Mowable and Locked-In Areas of Louisiana Interstate Highways" is available from NTIS (publication number PB 275954/AS).

4. California has been conducting several studies concerned with erosion control and vegetation management. Several of the reports available through NTIS from these studies include: "Propagation and Culture of New Drought - Tolerant Plants for Highways," by B. Dehgan, et. al. (PB 273477/AS); and "Methods for Measuring Erosion from Road Slopes," by R. Howell and E. Shirley (Publication number not known).

5. The University of Nebraska has completed a study for the Nebraska Department of Roads plant establishment along highways. Copies of the final report "Collection, Propagation, Culture, Evaluation, and Maintenance of Plant Materials for Highway Improvement" by S. Salac are available from NTIS (PB 273478/AS).

6. Louisiana, in a followup to a study concerned with predicting erosion from construction sites, has finished a study entitled "Statistical Evaluation of Rainfall-Simulator and Erosion Testing Procedure." Copies of the final report by S. Law are available from NTIS (PB 264469/AS).

If more information is desired about these research studies, inquiries should be addressed to the sponsoring agencies.

Forest Service

PUBLICATIONS AND SPECIAL STUDIES

The Southeastern Area, State and Private Forestry, has used Modified Universal Soil Loss Equation, in cooperation with ARS, to predict more realistic rates for forest management practices. The C-Factor is computed using ten elements. The procedure is being validated using Forest Service research watersheds with final results published in 1978.

The Southeastern Area Erosion Data Bank contains more than 9,000 field observations from River Basin Studies. This data is being summarized with a publication planned for 1978 presenting predicted erosion rates for forest management activities in the southeast.

PUBLICATIONS AND SPECIAL STUDIES

The Northeastern Area, State and Private Forestry, has computed and compiled, from general data sources, erosion and sediment rates in forest land by the following categories: 1) undisturbed forest land, 2) managed logging, 3) unmanaged logging, 4) light grazing, 5) heavy grazing, and 6) logging roads. The rates are shown by Water Resources Council Subareas, by State for the Northeastern 20 States. The rates are not intended to be used for site specific estimates of erosion and sediment rate, but are intended for broad area planning purposes such as river basin planning and non-designated area 208 planning. These rates will be updated periodically as more data are gathered.

Northeastern Station

A truck-mounted crane was used to harvest timber from part of a 140-acre watershed in the central Appalachians. Sediment in the stream was monitored just below the logged area and at the mouth of the watershed. H-type flumes fitted with Coshocton wheels are installed at both places to measure streamflow and obtain a continuous sample of water for sediment determination. Road building and logging costs were determined by on-the-job tally of man and machine hours. Roads were constructed using culverts on live seeps and streams and all other drainage was provided by broad-based dips spaced at intervals of 200 feet. Residual stand damage was determined by sampling after logging.

Results: (1) Sediment production was minimal and did not exceed amounts recorded from other areas for undisturbed forest land. (2) Logging costs were comparable to those reported being paid to local logging contractors using wheeled skidders. (3) The road system provided efficient access at a reasonable cost. (4) Residual stand damage, about 10 percent, was concentrated on small trees.

Oregon

Progress Report: Soil Erosion and Stream Sedimentation Research in Western Oregon, Forestry Sciences Laboratory, Corvallis, Oregon

Soil erosion often increases as a result of timber harvesting and construction of logging roads. The increase in soil erosion among sites currently under study in western Oregon has been variable, and increases are due to a variety of causes.

The increase in suspended sediment yield has ranged from barely perceptible at Fox Creek (FC-1 and 3) to nearly 23 times the natural rate in the H. J. Andrews Experimental Forest (HJA-2). The general level of soil erosion increases with increasing average slope of the contributing basins. Also, the general level of erosion varies according to the erosion processes that deliver soil to streams and the occurence of large runoff events from heavy precipitation and snowmelt. The greatest natural rates of erosion occur at Coyote Creek where mantle creep is the dominant process. Natural rates are notably lower where sources of erosion materials are debris avalanches at the Alsea Study and streambank erosion at Fox Creek.

Standards of road construction have largely determined the rates of soil erosion from sites with high erosion potentials. At HJA-3, construction in 1959 was typical; road fills were not compacted and soil was sidecast downslope--some of it reaching channels at the time of construction on slopes that frequently exceeded 60 percent. Also, in December 1964 soon after timber was harvested, these experimental watersheds experienced one of the most severe runoff events in recorded history. About 81 percent of the material lost from HJA-3 over a 16-year period occurred in a 2-day period during this runoff. Roads were the source of most of this material. In CC-1 and CC-2, logging roads caused little erosion because of careful location, design, and construction even though the bedrock is deeply weathered and incompetent. The design called for compaction of subgrades and road fills and waste soil was transported to disposal sites. Taken together, these improved standards have undoubtedly contributed to the lack of erosion from these roads in CC-1 and CC-2. However, to date, these roads have not been impacted by a storm event of the magnitude experienced earlier at the H. J. Andrews. Roads have not been a source of sediment to streams at the Fox Creek site.

Suspended Sediment Concentration and Water Quality

The suspended sediment concentration of streams closely follows streamflow. Maximum concentrations often occur just before peak flows and minimum concentrations occur at low to moderate flows. The close correspondence of the hydrograph and the suspended sediment trace indicates that in many instances soil erosion is correlated with streamflow. By contrast, suspended sediment traces that do not follow storm hydrographs are often the result of soil mass movements deposited directly into the channel. Streams reach maximum concentration of 10-50 percent soil by volume when debris torrents pass down channels.

Chearcutting causes little soil erosion on gently to moderately sloping land surfaces, but on steeper sites with higher erosion potentials, much greater soil losses may result. At Fox Creek, increased soil erosion was easily prevented because of stable terrain and competent bedrock. Soils losses from the Alsea watersheds were relatively small although slopes are relatively steep. But complete clearcutting, such as was done at HJA-1 and CC-3, often cause much greater soil losses. Combined losses from roads and clearcutting on steep land not only may degrade stream habitat by deposition of sediment, but also such losses will eventually reduce productivity of forests on these landscapes. Harvest by shelterwood or very small clearcuts (CC-1 and CC-2) can greatly reduce soil losses. Depletion of soil also may be reduced by growing forests or long rotations on steep land such as that of HJA-1, 2, and 3.

There have been variable erosional responses to disposal of logging residue by broadcast burning. Where surface soils are well structured such as at the Fox Creek and H. J. Andrews sites, burning had no discernible effect on soil loss. But the principal source of soil lost from AL-1 was apparently surface erosion after an unusually hot slash fire. Such hot slash fires break down soil aggregates (Dyrness and Youngberg 1957).

Increased suspended sediment concentrations are the result of increased sediment supply to the channel caused by timber harvesting. Ten mg/l of mineral sediment will not be noticed in a glass of drinking water. However, increasing concentrations, soon make the water undesirable for such uses as drinking, fish rearing and spawning, and recreation. Where timber harvesting has increased soil erosion, increased sediment concentrations in the stream are also evident. The streams with the highest concentrations are also those that continue to have the highest concentrations for the longest time among the sites. Fox Creek water meets the highest criteria of water quality at all times, whereas sediment concentrations in the other study watersheds exceeds the 10 mg/l limit for drinking water. While undisburbed, Coyote Creek watersheds produced water of the poorest quality, but important increases in sediment concentration occurred only at CC-3. The greatest increases in concentration have occurred at HJA-1 and HJA-3.

Several general conclusions can be drawn from these studies. Forest vegetation effectively prevents soil erosion where the dominant process is debris avalanching. At the Alsea and the H. J. Andrews Experimental Forest sites, where debris avalanching is the predominant process, rates of erosion with mature forest cover were all low compared to adjacent harvested sites. Forest cover was much less effective in reducing erosion at Coyote Creek where erosion processes are earthflows and creep.

The time required for vegetation to stabilize soils appears to be related to the erosion potentials at the sites. Erosion potential generally increases with angle of slope. On gently sloping topography at the Fox Creek, there was essentially no increase in erosion after timber harvest. At AL-1, a vegetation stand composed of shrubs and herbs effectively controlled soil erosion 5 years after harvest. But soil erosion has continued at a rapid rate in HJA-1 and HJA-3 and remains unaffected by a dense stand of shrubs and Douglas-fir regeneration 15 years after commencement of clearcutting in HJA-1 and 18 years after roads were constructed in HJA-3. Roads and clearcutting cause the highest levels of soil erosion from the steepest sites, and erosion may remain active from these sites from more than 20 years. Soil erosion rate has continued unabated on CC-3 for 7 years since clearcutting and stabilization of soils may be as long term as that observed at the H. J. Andrews site. A similar response to clearcutting can be expected on earthflows.

Published Since Last Report

Yee, C. S., and R. D. Harr. 1975. Soil factors influencing the slope stability of two cohensionless soils of the central Coast Range of Oregon. Northwest Sci. Prog. and Abstr., #121. 48th Meet. Ellensburg, Washington, March 27-29, 1975.

Physical properties, hydraulic characteristics, and shear strengths were determined for two major soils of the central Coast Range of Oregon. Although differing in parent material, the two soils are very similar. Each exhibits a high degree of aggregation which markedly influences its shear strength and its subsurface hydraulic response to precipitation. Shear tests revealed large decreases in the angle of internal friction for saturated soils compared to dry soils. Such large decreases, atypical of cohensionless soils, appear related to soil aggregate stability under different modes of wetting.

Swanson, F. J., C. T. Dyrness, and R. L. Fredriksen. 1975. Landslides in the H. J. Andrews Experimental Forest, western Cascades, Oregon. Northwest Sci. Prog. and Abstr., #75. 48th Meet. Ellensburg, Washington, March 27-29, 1975.

The H. J. Andrews Experimental Forest near Blue River, Oregon can be divided into two zones of strikingly different susceptiblities to rapid soil mass movements. A stable zone occurs at elevations above 900-1000

m and is underlain by lava flow bedrock. Since logging and roadbuilding began in 1950 only two small road-related sldies have occurred in the stable zone. The unstable zone, located below 1000 m and underlain by altered volcaniclastic rock, has been the site of 138 slides during the same period.

Swanson, F. J. and C. T. Dyrness. 1975. Impact of clearcutting and road construction on soil erosion in the western Cascade Range, Oregon. Geol. 3(7):393-396.

See preceding abstract. Slide erosion from clearcut areas in the unstable zone has totaled 6,030 m^3/km^2, or 2.8 times the level of activity in forested areas of the unstable zone. Along road rights-of-way, slide erosion has been 30 times greater than on forested sites in the unstable zone. The combined management impacts in the unstable zone (assuming 8 percent road right-of-way and 92 percent clearcut) appear to have increased slide activity on road and clearcut sites by about 5 times relative to forest areas over a period of about 20 yr.

Swanston, Douglas N. 1976. Erosion processes and control methods in North America. In XVL IUFRO World Congress Proceedings, Division I, 1976. USDA For. Serv., Pac. Northwest For. and Range Exp. Stn., Corvallis, OR. p. 251-275.

Forest operations in mountainous regions of North America have a major impact on site erosion and accelerated transport of soil materials to the stream. The resultant downstream damage from aggradation and degradation of the channel frequently causes flooding and siltation of terrace and lowland areas, destroys spawning habitat of anadromous fish, and produces deleterious changes to estuarine habitats by siltation and channel alterations. This is particularly true in the northwestern portion of the continent where mountains are in a dynamic stage of geomorphic development.

Swanston, Douglas N., and Frederick J. Swanson. 1976. Timber harvesting, mass erosion, and steepland forest geomorphology in the Pacific Northwest. In Donald R. Coates, ed., Geomorphology and engineering. Dowden, Hutchinson & Ross, Inc. Stroudsburg, PA. p. 199-221.

Creep, slump-earthflows, debris avalanches and debris torrents function as primary links in the natural transport of soil material to streams in the Pacific Northwest. Timber harvesting operations, particularly clearcutting and road construction, accelerate these processes, the former by destroying the stabilizing influence of vegetation cover and altering the hydrologic regime of the site, the latter by interrupting the balanced strength-stress relationships existing under natural conditions by cut and fill activities, poor construction of fills and alteration of surface and subsurface water movement.

Fredriksen, R. L., D. N. Swanston, and F. J. Swanson. 1976. Sediment yield from soil erosion and channel storage after clearcutting and logging road construction, central western Cascade Range, Oregon. 1976 Annu. Meet. Soil Sci. Soc. Am. Agron. Abstr. p. 184.

Although soil lost due to road construction was much greater than from clearcut areas, losses from clearcut areas have been longer lasting. Mass wasting was the delivery process on disturbed sites, while on undisturbed sites, streambank erosion was predominant.

Yee, Carlton S. and R. Dennis Harr. 1977. Influence of soil aggregation on slope stability in the Oregon Coast Ranges. Environ. Geol. 1:367-377.

Soil aggregation in two major cohesionless soils of the central Coast Ranges of Oregon was found to be the most important soil property influencing shear strength and movement of subsurface water. Mode of wetting significantly affected angle of internal friction of both soils. Considering the large area covered by the two soils, aggregation appears to be an important slope-stability property of regional significance.

Yee, Carlton S. and R. Dennis Harr. 1977. Effect of wetting mode on shear strength of two aggregated soils. USDA For. Serv. Res. Note PNW 303. 9 p.

See preceding abstract. High degrees of soil aggregation caused anomalously large angles of internal friction of 40°-42° for two cohesionless soils of the Oregon Coast Ranges. Soil aggregation and wetting by immersion during shear tests caused angles of internal friction of saturated soil to be atypically 9.5°-11° smaller than angles of internal friction of dry soil. Also, amounts of water-stable aggregates were 23 to 35 percent less after saturation by immersion of soil samples than after saturation by tension wetting. This suggests that the mode of wetting a sample may influence the apparent angle of internal friction for such soils.

Swanson, Frederick J. and Douglas N. Swanston. 1977. Complex mass-movement terrains in the western Cascade Range, Oregon. In Reviews in Engineering Geology. Geol. Soc. Am. 3:113-124.

A variety of mass-movement processes interact to form complex mass-movement terrains in the western Cascade Range in Oregon. Slow, deep-seated (>5 m depth) processes of creep, slump, and earthflow operate simultaneous and sequentially, resulting in unstable conditions that may initiate rapid, shallow (<5 m) soil mass movements on hillslopes and debris torrents in stream channels. This combination of mass-movement processes supplies large volumes of sediment to streams and determines the geometry of the channel and valley floor. Mass-movement terrains involve a great variety of processes that transport earth minerals downslope by gravity. In the western Cascade Range, mass-movement

phenomena need to be considered as an entire geomorphic continuum, as they act together in parallel and serial fashion. The mass-movement processes include a number of types of landslides, as well as related creep and certain stream-channel processes.

Ziemer, R. R., and D. N. Swanston. 1977. Root strength changes after logging in southeast Alaska. USDA For. Serv. Res. Note PNW-306, 10 p. Pac. Northwest For. and Range Exp. Stn., Portland, Oreg.

A crucial factor in the stability of steep forested slopes is the role of plant roots in maintaining the shear strength of soil mantles. Roots add strength to the soil by vertically anchoring through the soil mass into failures in the bedrock and by laterally tying the slope together across zones of weakness or instability. Once the covering vegetation is removed, these roots deteriorate and much of the soil strength is lost. Measurements of change in strength of roots remaining in the soil after logging at Staney Creek on Prince of Wales Island, southeast Alaska, indicate that loss of strength in smaller roots occurs rapidly for all species the first 2 years.

Granite Creek Landslip Survey

Following a sluice-out producing storm in January 1974, on steep granitic slopes, a survey was conducted to determine the magnitude of resultant sedimentation and to compare damage in recent clearcuts versus interspersed uncut leave strips. Specific causes of land slips were investigated and related to the landform inventoried in each slip source area.

The study area is located on the west slopes of the Cascade Mountains in southwest Oregon. It encompasses a 200-acre area south of Granite Creek between the stream and a ridgetop, in Soil Resource Inventory Mapping Unit 61. Landtype 61 is a shallow granitic soil on steep, highly dissected slopes. It is extremely prone to debris avalanche failures. The study area includes 5 clearcut units, totalling 76 acres interspersed between 124 uncut acres. The clearcut units were high-lead yarded to a ridgetop road system.

The survey was conducted by tracing all sidestreams which sluiced into Granite Creek to their source. Lengths and widths of sluice paths were measured, and depths of soil loss were estimated.

The 1974 storm represented a recurrence interval in the study area which cannot be ascertained precisely. Based on data from the nearest precipitation and streamflow stations, the following recurrence intervals are indicated: Maximum storm intensity--the

recurrence interval for a 24 hour storm was somewhere between 5 and 12 years. Flood frequency--the recurrence interval was somewhere between 15 and 60 years. Frozen ground contributed to this high runoff event. Snowmelt was not a major factor, in contrast to usual flood producing storms in this area.

The frequency of sluice-outs from tributary intermittent streams in clearcuts was about 8 times as great, on a per acre basis, as in undisturbed areas. Sluices from intermittent streams in clearcuts were much larger than in uncut areas. Clearcut acres yielded an average of 482 cubic yards of sediment per acre from sluice-outs versus 18 cubic yards per acre in the uncut areas. This represents a 27-fold increase in sediment production. These figures for clear-cuts include the road slips, of which all three occurred in clearcut units.

If roads are excluded, the accelerated sedimentation rates from logging only was by about 10 times (179 cubic yards per acre versus 18 cubic yards per acre in the undisturbed area). In the clearcut units 17% of the acreage harvested suffered long-term damage from mass soil movement. Less than 1% of the acreage in the undisturbed area suffered such damage.

Ten out of twelve sluice-out source areas were in headwalls of intermittent streams. Major suspected causes of the sluice-outs are morality of small roots (which rapidly reduces soil tensile strength), log gouges from yarding, plugged culverts, and cut-and-fill slope failures. Management implications are discussed.

Umpqua National Forest
Pacific Northwest Region
U.S. Department of Agriculture
Roseburg, Oregon 97470

Dallas R. Hughes, Hydrologist
and
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The following Erosion and Sediment Studies on forested lands have been completed. Copies can be obtained by writing Clif Benoit, State and Private Forestry, United States Forest Service, Portland, Oregon 97208, or calling FTS 8-423-2727.

Oregon:

1. Goose Summer Lake Basin, Lake Country
   a. Erosion range - .13 to 225 tons/acre/year.
   b. Fluvial sediment range - .12 to 157 tons/acre/year.
   c. Channel sediment range - 10 to 100 tons/mile/year.

2. Tillamook Basin, Tillamook County
   a. Erosion range - .01 to 12 tons/acre/year.
   b. Fluvial sediment range - .0001 to 10.8 tons/acre/year.
   c. Channel sediment range - 6 to 531 tons/mile/year.

Washington:

1. Palouse Basin (Idaho Portion)
   a. Erosion range - .06 to 3.95 tons/acre/year.
   b. Fluvial sediment range - .05 5o 3.36 tons/acre/year.
   c. Channel sediment range - 10 to 150 tons/mile/year.

2. Entiat Basin, Chelan County
   a. Erosion range - .001 to 4.17 tons/acre/year.
   b. Fluvial sediment range - .001 to .265 tons/acre/year.
   c. Channel sediment range - 2.5 to 300 tons/mile/year.

GEOLOGICAL SURVEY

Research Activities

Active research projects concerned with the processes and principles of fluvial sedimentation are summarized in the following statements.

Mid Atlantic Region

Special Studies

Length of Sediment Records

The study of data from long-term sediment records was initiated to determine the length of sediment record needed in order to obtain information of a given quality. Consideration will be given to the effects of size of drainage area, climate, topography, land use, and other factors likely to affect the variability of the rate of sediment in streams. Criteria are also being developed by which computer methods can be used to subtract out the daily base flow from the listed daily flow to determine storm-event sediment discharge for these long-term records.

Recommended Methods

The "Sediment" chapter for the National Handbook of Recommended Methods for Water-Data Acquisition passed final review and retyping. Final editing is scheduled for February-March and printing for April-May 1978.

ASTM Subcommittee on Fluvial Sediment

ASTM D-19 on water has been reorganized to include a subcommittee dealing exclusively with fluvial sediment. Present and future activity has been set for sections on (1) terminology, (2) sampling methods, (3) physical characterization, (4) chemical characterization, (5) optical properties, (6) morphology of water bodies, and (7) transport.

Upper Mississippi Region

Special Studies

Studies of erosion and sedimentation rates in Coon Creek basin in the Driftless Area, southwestern Wisconsin, continued during 1977. Resurveys of 20 transverse valley profiles were completed along survey lines originally measured in 1938-40. Also, several sediment-accumulation markers, such as buried roads, building foundations, and bridge piers, were excavated and related to reference bench marks and surveyed lines to supplement the sedimentation history. Sediment accumulation was measured in 5 reservoirs in the Coon Creek basin and in Lake Marinuka in nearby Beaver Creek basin.

Upper Colorado, Missouri,
and Great Basin Regions

Special Studies

Elkhorn Subregion

A reconnaissance investigation was undertaken to determine whether the channels of the North Platte and Platte Rivers in western and central Nebraska have been changing in character since the latter part of the 19th century and, if so, the general nature and extent of such changes. The 480-kilometer study reach extended from Minatare on the North Platte River to Grand Island on the Platte River.

Publications in Press

Williams, G. P., The case of the shrinking channels--The North Platte and Platte Rivers in Nebraska: U.S. Geol. Survey Circ. (in press).

Tongue-Powder Subregion

Work was continued on a study begun in 1974 to evaluate sediment yields and assess the impacts of surface mining on sediment yields in coal-rich Campbell County, Wyoming. A draft map showing source-area sediment yields was completed for all drainage areas upstream from coal outcrops to the basin divides for the whole county.

Sediment surveys of two stock ponds indicated that sediment yields were about 11 times greater from a small basin that was partially surface mined and left unrehabilitated than from an adjacent unmined rangeland basin. The mining was done about 25 years ago near Sheridan, Wyoming.

Upper Colorado and Missouri Regions

Studies begun in 1974 to obtain baseline sediment yields and to assess impacts of surface mining on sediment yields were continued in cooperation with the Bureau of Land Management. Four final Interagency reports containing sections on sediment yields were issued by the cooperator for study areas in North Dakota, Montana, Wyoming, and New Mexico. Included in the reports were maps showing estimates of source-area sediment yields, maps showing channel conditions with respect to sediment transport, and estimates of sediment yields from small drainage basins. Estimates were made using the PSIAC method and extended with aerial photographs. A few stock ponds were surveyed in each study area and those data were used to check the PSIAC estimates. Work is progressing on four additional reports for study areas in the same four States.

Yampa-White Subregion

A sediment-transport study, designed to measure the relation between hillslope erosion and stream channel aggradation, was continued in a small basin (1.06 sq mi) on the northwest corner of oil shale lease tract C-b in the Piceance basin, Colorado. Hillslope erosion is being measured by collecting runoff and sediment from five plots representative of four of the vegetation-landform types found in the basin. Runoff and sediment is diverted by Gerlach-type troughs into barrels for measurement. Channel changes are measured by surveying monumented cross sections. During the period January 1 through September 20, 1977, three rainstorms and one snowmelt period produced approximately 11.2 ac-ft of runoff and 195 tons of sediment from the 1.06 sq mi basin. These quantities were determined by projecting quantities measured at the plots to the total basin. Channel measurements show that the two largest storms caused net aggradation in the main channels. The capacity of the lower 3,600-ft reach of the main channel was reduced about 22 percent. The remainder of the channel aggraded slightly.

Monitoring of erosion at selected channel and hillslope sites throughout the Piceance basin also continued.

Great Basin Region

Studies of the effect of simulated rainfall on the hydrology of small natural watersheds (370 m^2) are being conducted in cooperation with the Bureau of Land Management. Included in the studies are the determination of sediment yield from watersheds under simulated rainfall of 38 mm in 45 minutes. During 1977, studies were conducted at 16 sites in Nevada and Utah for determination of the hydrologic aspects of grazing land. Administrative reports summarizing the data obtained on runoff, sediment yield, infiltration rates and chemical constituents in the runoff water are being prepared for distribution to the cooperator.

Publications

Lusby, Gregg C., 1977, Determination of runoff and sediment yield by rainfall simulation, in Erosion: Research techniques, erodibility and sediment delivery: Geo. Abstracts, Ltd., Norwich, England.

Special Studies

Bedload Transport Research

The median particle size of bedload in the East Fork River, Wyoming, generally is coarse sand. To extend the relations of bedload-transport rate as functions of stream power, bedload data are being collected in rivers with gravel beds and gravel in transport. One study, in cooperation with the Alaska District, USGS, and the Alaska District, USCE, is for the Tanana River, Alaska, and includes data from both a braided reach and a single-channel reach. Another study, in cooperation with the Idaho District, USGS, and the Walla Walla District, USCE, is for the Snake and Clearwater Rivers in the vicinity of Lewiston, Idaho, and now includes six consecutive years of bedload and suspended-load measurements. Another study was begun in 1977 on the New Fork River, Wyoming, and is expected to be the site of intensive studies for gravel transport in streams.

The significance of the field studies is emphasized by a comparison of the observed sediment-transport rates with rates computed using existing formulas. The comparison showed an inapplicability of existing transport equations, at least those tested, to correctly predict sediment-transport rates as particle sizes and degree of heterogeneity of particle sizes increase from the values used in equation derivation.

Publications

Druffel, L., Emmett, W. W., Schneider, V. R., and Skinner, J. V., 1976, Laboratory hydraulic calibration of the Helley-Smith bedload sediment sampler: U.S. Geol. Survey Open-File Rept. 76-752, 63 p.

Emmett, W. W., and Leopold, L. B., 1977, A comparison of observed sediment-transport rates with rates computed using existing formulas (abs.): Proc., Eighth Ann. Geomorphology Symp., State Univ. of New York, Binghamton, Sept. 23-24.

Articles With Director's Approval

Emmett, W. W., and Thomas, W. A., 1977, Scour and deposition in lower Granite Reservoir, Snake and Clearwater Rivers near Lewiston, Idaho, USA: submitted to Jour. Internat. Assoc. Hyd. Research.

Articles in Review

Emmett, W. W., 1978, A field calibration of the sediment-trapping characteristics of the Helley-Smith bedload sampler: U.S. Geol. Survey.

Emmett, W. W., Burrows, R. L., and Parks, Bruce, 1978, Sediment transport in the Tanana River in the vicinity of Fairbanks, Alaska, 1977: U.S. Geol. Survey.

Bedload Samplers for Sediment in Streams: Development and Calibration

This project is concerned with the development and calibration of bedload samplers for measuring the rates of transport and the size distributions of particles from about 2 to 64 mm in diameter. Promising existing, modified, and new bedload samplers will be studied and calibrated in a large laboratory flume to obtain one or more samplers capable of measuring bedload transport accurately throughout the range of sedimentation conditions encountered in nature. Construction of the calibration facility at St. Anthony Falls Hydraulic Laboratory, University of Minnesota, will be completed in the spring of 1978, and sampler testing will commence at that time.

Rio Grande Region

A project to study "channel adjustments downstream of Cochiti Dam on the Rio Grande" was continued and financed by Federal funds. The objectives were to document channel changes with time and distance downstream from the dam. Cross-section data, streambed levels, and sediment size distributions, at 37 cross sections established along a 59 mile study reach, were among the items studied for change from 1970 through 1975. Funding for the project was discontinued September 30, 1977. A basic data report is in preparation.

Estuarine sedimentation studies

Pacific Northwest Region
Oregon-Washington Coastal Subregion

Sediments are rapidly filling the Tillamook estuary. Compositional analyses have been used to identify sediment contributions from three different sources; the major upland rivers, the shoreline, and the adjacent ocean. The rate of filling, determined by radiocarbon dating, decreased about 6,000 years ago at about the same time as the rate of sea level rise decreased.

Mid-Atlantic Region

Suspended- and bottom-sediment samples were collected at selected locations along the Potomac River Estuary for the purpose of defining areal and temporal variations in sediment concentrations and characteristics. Suspended-sediment concentrations show the existence of a turbidity maximum in the central part of the estuary and exhibit a tidal cycle variation at most locations. Bottom sediments from channels are dominantly silt and clay size materials.

California Region

Forest Geomorphology

The U.S. Geological Survey in cooperation with the National Park Service has since 1974 been monitoring hillslope erosion processes, changes in stream channel geometry, and sediment discharge for a suit of drainage basins that impact in various ways upon the resources of Redwood National Park in northwestern California. This program presently (FY 1978) includes the following: (1) repeated surveys of 36 stakelines on 10 prominent landslides, (2) repeated measurements of 90 clusters of erosion and deposition pins, (3) repeated surveys of monumental stream-channel cross sections at 50 sites along Redwood Creek, 90 sites along tributaries to Redwood Creek, and 10 sites along Mill Creek, (4) determination of daily total sediment discharge at two sites along Redwood Creek, and (5) periodic determination of total sediment discharge at four additional sites along Redwood Creek, at one site on Mill Creek, and at 11 tributaries to Redwood Creek. In previous years periodic determinations were made at as many as 24 Redwood Creek tributaries and 5 sites along Mill Creek. Sites were selected to represent a wide range of geologic, physiographic, and land use conditions. Data analysis is focused primarily on attempting to place limits on the relative importance of timber harvest and associated road construction in accounting for the exceptionally high sediment yields that characterize this area. Sediment discharge data collected through FY 1976 have been published. A series of interpretative reports is in preparation.

Special Studies (Not by River Basin)

Countermeasures to reduce bridge losses

A report is in preparation on a three-year study of hydraulic problems and countermeasures at bridges, carried out by the Geological Survey for the Federal Highway Administration. Case histories of 210 bridge sites in 28 States and 3 Canadian provinces have been written. Hydraulic problems, which include scour and bank erosion, are being related to stream type, to bridge characteristics, and to flow factors. The performance of countermeasures is being evaluated.

Sediment Studies in the Amazon River

As part of an international research effort on the geochemistry and sediment of the Amazon River, C. F. Nordin, Jr., R. H. Meade, and W. F. Curtis during the 1976 and 1977 flood season measured the suspended sediment at five rated and a number of unrated cross sections of the Amazon River and in several of its major tributaries. Measurements were made from the Research Vessel ALPHA HELIX (operated for the National Science Foundation by Scripps Institution of Oceanography), and the research involved scientists from Brazil, United States, Scotland, and Italy. Results of the measurements support the prevailing view that

most of the suspended sediment in the Amazon system is carried by rivers that drain the Andes. Suspended loads measured both years at Óbidos were near $4x10^6$ tonnes/day: about half of this was contributed by the Rio Solimões, and at least another fourth was contributed by the Rio Madeira. Rio Negro contributed less than one percent of the total suspended sediment measured at Óbidos.

Sand (>63μm) comprised a fourth to a third of the material in suspension during high water.

Silt and clay particles (<53μm) are not distributed uniformly--either vertically through the water column or laterally across the river. Cross-channel differences in the concentrations of silt and clay particles can be related to incomplete mixing of tributary inflows or to secondary circulations in the channel.

The streambed is mostly fine sand with small amounts of gravel evident along sources of local outcrops. Bedrock outcrops of conglomerates or clay of the Solimões or Alter do Chao Formations were encountered at several locations, especially on the outsides of meander bends.

Publications

Meade, R. H., Nordin, C. F., and Curtis, W. F., 1978, Suspended sediment in Amazon River during high-water seasons of 1976 and 1977 (abs.): EOS, Transactions, Am. Geophys. Union, v. 59, no. 4.

Meade, R. H., Nordin, D. F., Curtis, W. F., Costa Rodrigues, F. M., Vale, C. M. do, and Edmond, J. M., 1978, Sediment loads in the Amazon River during the high-water season of 1977: submitted to Science.

Nordin, C. F., Jr., 1977, Graphical aids for estimating general scour in long channel contractions: U.S. Geol. Survey Open-File Rept. 77-837, 12 p.

Nordin, C. F., Jr., Meade, R. H., Mahoney, H. A., and Delaney, B. M., 1977, Particle size of sediments collected from the bed of the Amazon River and its tributaries in June and July 1976: U.S. Geol. Survey Open-File Rept. 77-400, 18 p.

Nordin, C. F., Jr., and Skinner, J. V., 1977, Sediment-sampling equipment for deep fast currents: Proc. of IAHR, 4 p.

SOIL CONSERVATION SERVICE

Publication and Special Studies

"An assessment of the sediment accumulation in pool 9 of the Upper Mississippi River," was submitted to the Great River Environmental Action Team and the Soil Conservation Service by the USDA Sedimentation Laboratory, Science and Education Administration, January 1978.

Cheetham, R.N., Jr., and Ahl, L. M., 1977, "Erosion and Sedimentation in Wisconsin Counties with Drainage to the Mississippi River and to the Wisconsin River Below Prairie du Sac Dam", Reference Report 4, Wisconsin River Basin Cooperative Study, USDA, Soil Conservation Service, 135 p.

Cheetham, R.N., Jr., 1977, "Working Bibliography for Land and Water Resources, Red Clay Area, Western Lake Superior", Wisconsin, USDA, Soil Conservation Service, 39 p.

"Estimating Sheet-Rill Erosion and Sediment Yield on Disturbed Forest and Woodlands", West Technical Service Center, SCS, Portland, Oregon, September 1977.

A sediment yield map for Idaho has been prepared and will be reproduced in 1978.

Trap Efficiency of Small Flood-Retarding Reserviors

In 1955 the Soil Conservation Service (SCS) initiated a study of the factors that determine how much of the sediment that reaches a small reservoir will be retained. Over the succeeding years data have been collected for extended periods from 18 SCS-designed reservoirs. Under agreement with the U.S. Geological Survey, (USGS) they measured the characteristics of sediment and patterns of flow entering certain of the reservoirs; the rate and amount of sediment passing the dams; and obtained sediment samples for analysis. Periodic measurement of the amount of sediment deposited in the reservoir and representative sampling has been done by the SCS and in some instances by the Agricultural Research Service.

During 1977 data collection by USGS was completed on the last two reservoirs: Highland Creek in California and Rock Creek #1 in Maryland. Terminal reports have been written by the USGS on 15 of the reservoirs and are planned for 2 more.

This study shows that during the early years of their design life the small ponded reservoirs trap 90 percent or more of the incoming sediment and the dry dams were 80 percent or more efficient in trapping sediment.

This appendix is a computerized index of available sediment data from the National Water Data Exchange (NAWDEX). NAWDEX is an interagency program to facilitate the exchange of water data and to promote the standardization of water-data handling procedures. The participants in the NAWDEX program are those Federal, State, and local governmental organizations, and private organizations that collect and use water data.

NAWDEX maintains a "Master Water Data Index" which is a computerized index of available water data. The index contains information on sites for which water data are available, the location of these sites, the type of site, the data-collection organization, the types of data available, the major water-data parameters for which data are available, the frequency at which these parameters are measured, and the media in which the data are stored.

NAWDEX Definitions

Hydrologic Unit Codes--This an eight-digit numeric code identifying the site's location with reference to the areal definitions shown on the USGS State Hydrologic Unit Maps. The first two digits represent Water Resources Council regions (see Figure 1), the second two digits represent Water Resources Council subregions, the third two digits represent the National Water Data Network accounting units, and the fourth two digits are the cataloging units of the Catalog of Information on Water Data maintained by the Office of Water Data Coordination.

Station Name--The station name is assigned by the participating organization for the sites where it conducts water-data collection activities. It may contain both the name and location of the site.

State--This two-digit number is assigned to those sites which are physically located within the conterminous United States, Alaska, Hawaii, Puerto Rico, and Okinawa. It bears no relationship to the organization or office that is responsible for the operation of the sites (see Table 1).

County--This three-digit number is assigned to those sites which are physically located within a specific county. Census divisions are used, instead of counties, for Alaska (see Table 1).

Site Type--This two-character alphabetic code describes the type of water body subject to hydrologic data collection activities at the site, or the type of data collected at the site.

Code	Meaning
SW-Stream	A body of water flowing in a natural channel as distinct from a canal.
CN-Canal	An artificial waterway designed for navigation or for transporting water for municipal water supply, land irrigation, or drainage.

DR-Drain	A small artificial water-course designed to drain swampy areas or irrigated lands. Theoretically it is actually a small canal, but it is referred to as a "drain" in many localities.
ES-Estuarine Zone or Estuary	The term "estuarine zone" means an environmental system consisting of an estuary and those transitional areas which are consistently influenced or effected by water from an estuary such as, but not limited to, salt marshes, coastal and intertidal areas, bays, harbors, lagoons, onshore water, and channels. The term "estuary" means that part of a river or stream, or other body of water having unimpaired connection with the open sea where the sea water is measurably diluted with fresh water derived from land drainage. The term includes estuary-type areas of the Great Lakes.
SS-Specific Source	An artificial conduit or other conveyance where pollutants are discharged (from factories, sewage treatment plants, etc.) into a water body or aquifer.
OC-Ocean	A site located in any of the world's oceans.

Drainage Area--is the area of the stream at the specific location of the site, measured in a horizontal plane, enclosed by a topographic divide from which direct surface runoff from precipitation normally drains by gravity into the stream above the site; it includes all closed basins, or noncontributing areas, within the total drainage area.

Basin Description--This numeric code may contain up to three digits. It is used to classify conditions in the drainage area of the data collection site. Code "3" (urban) and code "4" (natural) are mutually exclusive; one or the other will always be present but both will never be present for one specific site.

Code	Meaning
1 Regulation	The artificial manipulation of the flow of a stream.
2 Diversion	The taking of significant quantities of water from a stream or other body of water into a canal, pipe, or other conduit.
3 Urban	The situation where streamflow patterns at a site are effected significantly by urban development. The effect is considered to be significant when approximately 20-25 percent or more of the drainage area is covered by a dense road grid (indicating the presence of impermeable surfaces of roads, parking lots, and building roofs).
4 Natural	The opposite of "urban."

QW Begin Year--This four-digit number identifies the calendar year in which the acquisition of water quality data was first begun at a site, regardless of the types of water quality data that were collected. This date will never change even though water quality data collection may be deactivated and reactivated several times during a site's history.

QW End Year--This four-digit number identifies the calendar year in which all water quality data collection activity at a site was discontinued. If at a later date the collection of any of the water quality parameters is resumed, the former end date is deleted.

Data Collection Frequency Codes--These codes indicate the intervals of time for which records of water data are available. The meaning of the codes sited in the table below are self explanatory except for "continuous." Continuous records are those which are based upon recordings of data at intervals of 4 hours or less (6 or more times in a 24-hour period). Continuous records based upon data automatically recorded by a recording instrument are associated with frequency codes "I" or "J," while continuous records based upon manually recorded observations are associated with codes "C" or "D." Data collected at intervals greater than 4 hours but at least once daily fall under the codes designated as "daily." Data collection intervals that actually fall between those listed below are recorded under the next longer frequency.

Meaning	Code Year-Round	Code Seasonal	Code Eliminated[1/]
Continuous-Recorder Instrument	I	J	L
Continuous Nonrecorder	C	D	T
Daily	0	P	2
Weekly	W	X	3
Bi-weekly	F	G	4
Monthly	M	N	5
Bi-monthly	H	K	6
Quarterly	Q	R	7
Semiannual (twice per year)	S		8
Annual (once per year)	A		9
Other Periodic (less often than once per year)	B		
Seasonal (no time period specified)		Y	
Data collected at an irregular or unspecified frequency	Z		
Unique (one-time measurement)	U		
Eliminated Activity	E		

[1/] The Eliminated Frequency Codes may be used to indicate that the collection of data for a single parameter, or data component, has been discontinued at a site and that data were being collected at the frequency indicated at the time of discontinuance.

Organization Code--This code is assigned by the NAWDEX Program Office and is the unique identifier for participating Federal and non-Federal organizations that actively collect and store water data. Non-Federal organizations include State, county, and municipal organizations as well as intergovernmental compacts, private organizations, universities, and any local organizations at other than county or municipal level (see Table 2).

Storage Media--This one-character alphabetic code identifies the type of data storage.

Code	Meaning
P	Published--Includes methods of data dissemination such as documents (work sheets, etc.) which may be copied or communicated over the telephone, as well as formal publications.
C	Computer recognizable format--Includes data stored in digital form in punched paper tapes, punched cards, magnetic tapes, magnetic disks, etc., that potentially can be transmitted to computer terminals and displayed on cathode-ray tube screens, printed out on paper, or copied to another digital recording media.
M	Microfilm--Includes data that has been recorded on microfilm or microfiche.
D	C and P--Computer recognizable format and published.
E	C and M--Computer recognizable format and microform.
F	C, P, and M--Computer recognizable format, published, and microform.
G	M and P--Microform and published.

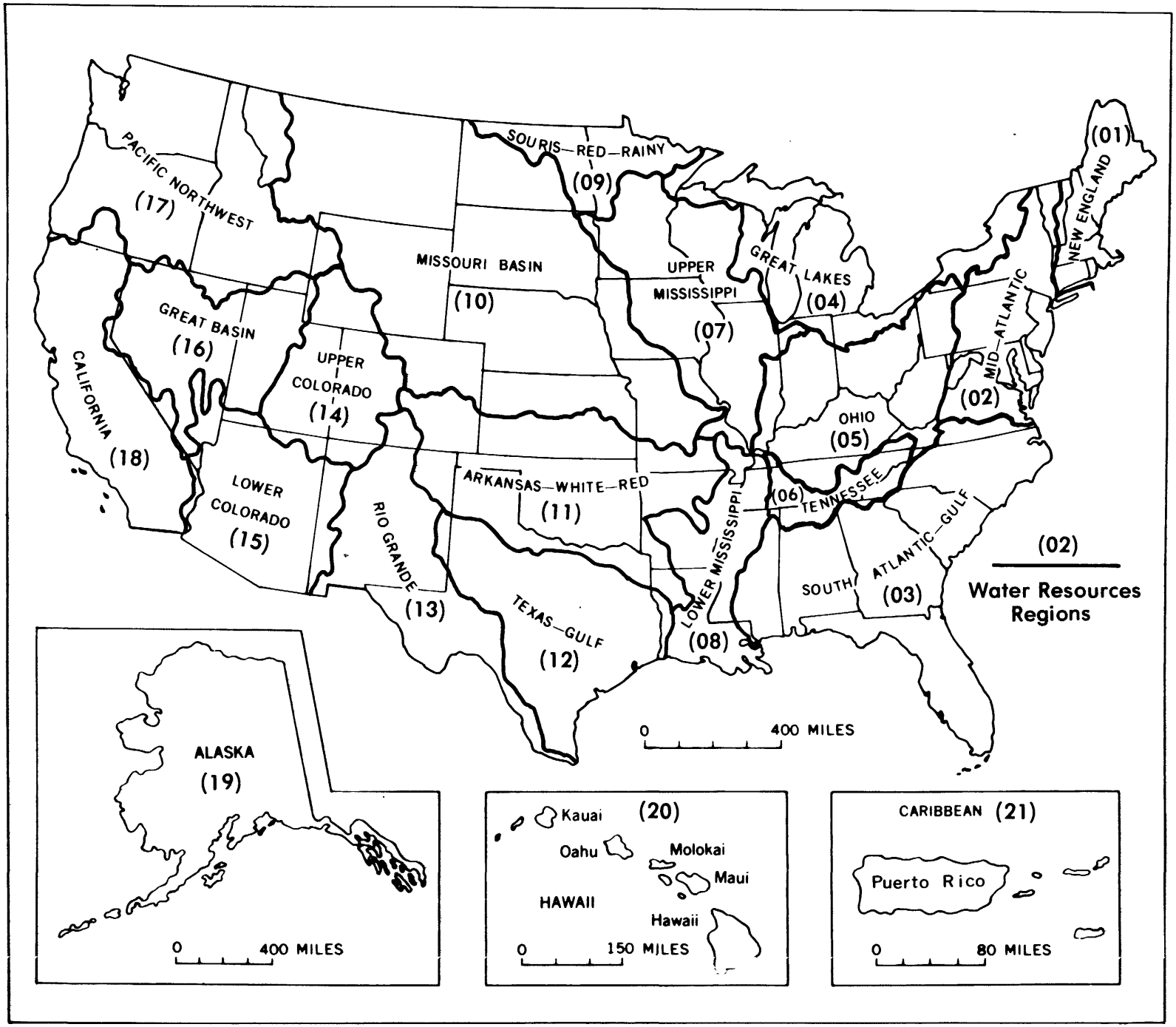

Figure 1.--Water Resources Regions of the United States.

Table 1.—*Code numbers and abbreviations used for States (and other areas) and code numbers used for counties and independent cities*

STATES AND THEIR CODES AND ABBREVIATIONS

	Code	Abbr.		Code	Abbr.		Code	Abbr.		Code	Abbr.		Code	Abbr.
Alabama	01	AL	Hawaii	15	HI	Massachusetts	25	MA	New Mexico	35	NM	South Dakota	46	SD
Alaska	02	AK	Idaho	16	ID	Michigan	26	MI	New York	36	NY	Tennessee	47	TN
Arizona	04	AZ	Illinois	17	IL	Minnesota	27	MN	North Carolina	37	NC	Texas	48	TX
Arkansas	05	AR	Indiana	18	IN	Mississippi	28	MS	North Dakota	38	ND	Utah	49	UT
California	06	CA	Iowa	19	IA	Missouri	29	MO	Ohio	39	OH	Vermont	50	VT
Colorado	08	CO	Kansas	20	KS	Montana	30	MT	Oklahoma	40	OK	Virginia	51	VA
Connecticut	09	CT	Kentucky	21	KY	Nebraska	31	NB	Oregon	41	OR	Washington	53	WA
Delaware	10	DE	Louisiana	22	LA	Nevada	32	NV	Pennsylvania	42	PA	West Virginia	54	WV
District of Columbia	11	DC	Maine	23	ME	New Hampshire	33	NH	Rhode Island	44	RI	Wisconsin	55	WI
Florida	12	FL	Maryland	24	MD	New Jersey	34	NJ	South Carolina	45	SC	Wyoming	56	WY
Georgia	13	GA												

STATES, COUNTIES, AND INDEPENDENT CITIES

[States are arranged alphabetically by their symbols; counties (census divisions) and independent cities are in numerical order within each State]

*Alaska

Alabama

County

001 Autauga
003 Baldwin
005 Barbour
007 Bibb
009 Blount
011 Bullock
013 Butler
015 Calhoun
017 Chambers
019 Cherokee
021 Chilton
023 Choctaw
025 Clarke
027 Clay
029 Cleburne
031 Coffee
033 Colbert
035 Conecuh
037 Coosa
039 Covington
041 Crenshaw
043 Cullman
045 Dale
047 Dallas
049 De Kalb
051 Elmore
053 Escambia
055 Etowah
057 Fayette
059 Franklin
061 Geneva
063 Greene
065 Hale
067 Henry
069 Houston
071 Jackson
073 Jefferson
075 Lamar
077 Lauderdale
079 Lawrence
081 Lee
083 Limestone
085 Lowndes
087 Macon
089 Madison
091 Marengo
093 Marion
095 Marshall
097 Mobile
099 Monroe
101 Montgomery
103 Morgan
105 Perry
107 Pickens
109 Pike
111 Randolph
113 Russell
115 St. Clair
117 Shelby
119 Sumter
121 Talladega
123 Tallapoosa
125 Tuscaloosa
127 Walker
129 Washington
131 Wilcox
133 Winston

Arkansas

County

001 Arkansas
003 Ashley
005 Baxter
007 Benton
009 Boone
011 Bradley
013 Calhoun
015 Carroll
017 Chicot
019 Clark
021 Clay
023 Cleburne
025 Cleveland
027 Columbia
029 Conway
031 Craighead
033 Crawford
035 Crittenden
037 Cross
039 Dallas
041 Desha
043 Drew
045 Faulkner
047 Franklin
049 Fulton
051 Garland
053 Grant
055 Greene
057 Hempstead
059 Hot Spring
061 Howard
063 Independence
065 Izard
067 Jackson
069 Jefferson
071 Johnson
073 Lafayette
075 Lawrence
077 Lee
079 Lincoln
081 Little River
083 Logan
085 Lonoke
087 Madison
089 Marion
091 Miller
093 Mississippi
095 Monroe
097 Montgomery
099 Nevada
101 Newton
103 Ouachita
105 Perry
107 Phillips
109 Pike
111 Poinsett
113 Polk
115 Pope
117 Prairie
119 Pulaski
121 Randolph
123 St. Francis
125 Saline
127 Scott
129 Searcy
131 Sebastian
133 Sevier
135 Sharp
137 Stone
139 Union
141 Van Buren
143 Washington
145 White
147 Woodruff
149 Yell

Arizona

County

001 Apache
003 Cochise
005 Coconino
007 Gila
009 Graham
011 Greenlee
013 Maricopa
015 Mohave
017 Navajo
019 Pima
021 Pinal
023 Santa Cruz
025 Yavapai
027 Yuma

California

County

001 Alameda
003 Alpine
005 Amador
007 Butte
009 Calaveras
011 Colusa
013 Contra Costa
015 Del Norte
017 El Dorado
019 Fresno
021 Glenn
023 Humboldt
025 Imperial
027 Inyo
029 Kern
031 Kings
033 Lake
035 Lassen
037 Los Angeles
039 Madera
041 Marin
043 Mariposa
045 Mendocino
047 Merced
049 Modoc
051 Mono
053 Monterey
055 Napa
057 Nevada
059 Orange
061 Placer
063 Plumas
065 Riverside
067 Sacramento
069 San Benito
071 San Bernardino
073 San Diego
075 San Francisco
077 San Joaquin
079 San Luis Obispo
081 San Mateo
083 Santa Barbara
085 Santa Clara
087 Santa Cruz
089 Shasta
091 Sierra
093 Siskiyou
095 Solano
097 Sonoma
099 Stanislaus
101 Sutter
103 Tehama
105 Trinity
107 Tulare
109 Tuolumne
111 Ventura
113 Yolo
115 Yuba

Colorado

County

001 Adams
003 Alamosa
005 Arapahoe
007 Archuleta
009 Baca
011 Bent
013 Boulder
015 Chaffee
017 Cheyenne
019 Clear Creek
021 Conejos
023 Costilla
025 Crowley
027 Custer
029 Delta
031 Denver
033 Dolores
035 Douglas
037 Eagle
039 Elbert
041 El Paso
043 Fremont
045 Garfield
047 Gilpin
049 Grand
051 Gunnison
053 Hinsdale
055 Huerfano
057 Jackson
059 Jefferson
061 Kiowa
063 Kit Carson
065 Lake
067 La Plata
069 Larimer
071 Las Animas
073 Lincoln
075 Logan
077 Mesa
079 Mineral
081 Moffat
083 Montezuma
085 Montrose
087 Morgan
089 Otero
091 Ouray
093 Park
095 Phillips
097 Pitkin
099 Prowers
101 Pueblo
103 Rio Blanco
105 Rio Grande
107 Routt
109 Saguache
111 San Juan
113 San Miguel
115 Sedgwick
117 Summit
119 Teller
121 Washington
123 Weld
125 Yuma

Connecticut

County

001 Fairfield
003 Hartford
005 Litchfield
007 Middlesex
009 New Haven
011 New London
013 Tolland
015 Windham

District of Columbia

001 Washington

Delaware

County

001 Kent
003 New Castle
005 Sussex

Florida

County

001 Alachua
003 Baker
005 Bay
007 Bradford
009 Brevard
011 Broward
013 Calhoun
015 Charlotte
017 Citrus
019 Clay
021 Collier
023 Columbia
025 Dade
027 De Soto
029 Dixie
031 Duval
033 Escambia
035 Flagler
037 Franklin
039 Gadsden
041 Gilchrist
043 Glades
045 Gulf
047 Hamilton
049 Hardee
051 Hendry
053 Hernando
055 Highlands
057 Hillsborough
059 Holmes
061 Indian River
063 Jackson
065 Jefferson
067 Lafayette
069 Lake
071 Lee
073 Leon
075 Levy
077 Liberty
079 Madison
081 Manatee
083 Marion
085 Martin
087 Monroe
089 Nassau
091 Okaloosa
093 Okeechobee
095 Orange
097 Osceola
099 Palm Beach
101 Pasco
103 Pinellas
105 Polk
107 Putnam
109 St. Johns
111 St. Lucie
113 Santa Rosa
115 Sarasota
117 Seminole
119 Sumter
121 Suwannee
123 Taylor
125 Union
127 Volusia
129 Wakulla
131 Walton
133 Washington

Georgia

County

001 Appling
003 Atkinson
005 Bacon
007 Baker
009 Baldwin

*At end of State listings.

Table 1.—*Code numbers and abbreviations used for States (and other areas) and code numbers used for counties and independent cities* – Cont.

STATES, COUNTIES, AND INDEPENDENT CITIES–Continued

Con.	
053	Ellsworth
055	Finney
057	Ford
059	Franklin
061	Geary
063	Gove
065	Graham
067	Grant
069	Gray
071	Greeley
073	Greenwood
075	Hamilton
077	Harper
079	Harvey
081	Haskell
083	Hodgeman
085	Jackson
087	Jefferson
089	Jewell
091	Johnson
093	Kearny
095	Kingman
097	Kiowa
099	Labette
101	Lane
103	Leavenworth
105	Lincoln
107	Linn
109	Logan
111	Lyon
113	McPherson
115	Marion
117	Marshall
119	Meade
121	Miami
123	Mitchell
125	Montgomery
127	Morris
129	Morton
131	Nemaha
133	Neosho
135	Ness
137	Norton
139	Osage
141	Osborne
143	Ottawa
145	Pawnee
147	Phillips
149	Pottawatomie
151	Pratt
153	Rawlins
155	Reno
157	Republic
159	Rice
161	Riley
163	Rooks
165	Rush
167	Russell
169	Saline
171	Scott
173	Sedgwick
175	Seward
177	Shawnee
179	Sheridan
181	Sherman
183	Smith
185	Stafford
187	Stanton
189	Stevens
191	Sumner
193	Thomas
195	Trego
197	Wabaunsee
199	Wallace
201	Washington
203	Wichita
205	Wilson
207	Woodson
209	Wyandotte
	Kentucky
	County
001	Adair
003	Allen
005	Anderson
007	Ballard
009	Barren
011	Bath
013	Bell
015	Boone
017	Bourbon
019	Boyd

Con.	
021	Boyle
023	Bracken
025	Breathitt
027	Breckinridge
029	Bullitt
031	Butler
033	Caldwell
035	Calloway
037	Campbell
039	Carlisle
041	Carroll
043	Carter
045	Casey
047	Christian
049	Clark
051	Clay
053	Clinton
055	Crittenden
057	Cumberland
059	Daviess
061	Edmonson
063	Elliott
065	Estill
067	Fayette
069	Fleming
071	Floyd
073	Franklin
075	Fulton
077	Gallatin
079	Garrard
081	Grant
083	Graves
085	Grayson
087	Green
089	Greenup
091	Hancock
093	Hardin
095	Harlan
097	Harrison
099	Hart
101	Henderson
103	Henry
105	Hickman
107	Hopkins
109	Jackson
111	Jefferson
113	Jessamine
115	Johnson
117	Kenton
119	Knott
121	Knox
123	Larue
125	Laurel
127	Lawrence
129	Lee
131	Leslie
133	Letcher
135	Lewis
137	Lincoln
139	Livingston
141	Logan
143	Lyon
145	McCracken
147	McCreary
149	McLean
151	Madison
153	Magoffin
155	Marion
157	Marshall
159	Martin
161	Mason
163	Meade
165	Menifee
167	Mercer
169	Metcalfe
171	Monroe
173	Montgomery
175	Morgan
177	Muhlenberg
179	Nelson
181	Nicholas
183	Ohio
185	Oldham
187	Owen
189	Owsley
191	Pendleton
193	Perry
195	Pike
197	Powell
199	Pulaski
201	Robertson
203	Rockcastle

Con.	
205	Rowan
207	Russell
209	Scott
211	Shelby
213	Simpson
215	Spencer
217	Taylor
219	Todd
221	Trigg
223	Trimble
225	Union
227	Warren
229	Washington
231	Wayne
233	Webster
235	Whitley
237	Wolfe
239	Woodford
	Louisiana
	County
001	Acadia
003	Allen
005	Ascension
007	Assumption
009	Avoyelles
011	Beauregard
013	Bienville
015	Bossier
017	Caddo
019	Calcasieu
021	Caldwell
023	Cameron
025	Catahoula
027	Claiborne
029	Concordia
031	De Soto
033	East Baton Rouge
035	East Carroll
037	East Feliciana
039	Evangeline
041	Franklin
043	Grant
045	Iberia
047	Iberville
049	Jackson
051	Jefferson
053	Jefferson Davis
055	Lafayette
057	Lafourche
059	La Salle
061	Lincoln
063	Livingston
065	Madison
067	Morehouse
069	Natchitoches
071	Orleans
073	Ouachita
075	Plaquemines
077	Pointe Coupee
079	Rapides
081	Red River
083	Richland
085	Sabine
087	St. Bernard
089	St. Charles
091	St. Helena
093	St. James
095	St. John The Baptist
097	St. Landry
099	St. Martin
101	St. Mary
103	St. Tammany
105	Tangipahoa
107	Tensas
109	Terrebonne
111	Union
113	Vermilion
115	Vernon
117	Washington
119	Webster
121	West Baton Rouge
123	West Carroll
125	West Feliciana
127	Winn
	Massachusetts
	County
001	Barnstable
003	Berkshire
005	Bristol
007	Dukes

Con.	
009	Essex
011	Franklin
013	Hampden
015	Hampshire
017	Middlesex
019	Nantucket
021	Norfolk
023	Plymouth
025	Suffolk
027	Worcester
	Maryland
	County
001	Allegany
003	Anne Arundel
005	Baltimore
009	Calvert
011	Caroline
013	Carroll
015	Cecil
017	Charles
019	Dorchester
021	Frederick
023	Garrett
015	Harford
027	Howard
029	Kent
031	Montgomery
033	Prince Georges
035	Queen Annes
037	St. Marys
039	Somerset
041	Talbot
043	Washington
045	Wicomico
047	Worcester
	Independent City
510	Baltimore City
	Maine
	County
001	Androscoggin
003	Aroostook
005	Cumberland
007	Franklin
009	Hancock
011	Kennebec
013	Knox
015	Lincoln
017	Oxford
019	Penobscot
021	Piscataquis
023	Sagadahoc
025	Somerset
027	Waldo
029	Washington
031	York
	Michigan
	County
001	Alcona
003	Alger
005	Allegan
007	Alpena
009	Antrim
011	Arenac
013	Baraga
015	Barry
017	Bay
019	Benzie
021	Berrien
023	Branch
025	Calhoun
027	Cass
029	Charlevoix
031	Cheboygan
033	Chippewa
035	Clare
037	Clinton
039	Crawford
041	Delta
043	Dickinson
045	Eaton
047	Emmet
049	Genesee
051	Gladwin
053	Gogebic
055	Grand Traverse
057	Gratiot
059	Hillsdale
061	Houghton
063	Huron

Con.	
065	Ingham
067	Ionia
069	Iosco
071	Iron
073	Isabella
075	Jackson
077	Kalamazoo
079	Kalkaska
081	Kent
083	Keweenaw
085	Lake
087	Lapeer
089	Leelanau
091	Lenawee
093	Livingston
095	Luce
097	Mackinac
099	Macomb
101	Manistee
103	Marquette
105	Mason
107	Mecosta
109	Menominee
111	Midland
113	Missaukee
115	Monroe
117	Montcalm
119	Montmorency
121	Muskegon
123	Newaygo
125	Oakland
127	Oceana
129	Ogemaw
131	Ontonagon
133	Osceola
135	Oscoda
137	Otsego
139	Ottawa
141	Presque Isle
143	Roscommon
145	Saginaw
147	St. Clair
149	St. Joseph
151	Sanilac
153	Schoolcraft
155	Shiawassee
157	Tuscola
159	Van Buren
161	Washtenaw
163	Wayne
165	Wexford
	Minnesota
	County
001	Aitkin
003	Anoka
005	Becker
007	Beltrami
009	Benton
011	Big Stone
013	Blue Earth
015	Brown
017	Carlton
019	Carver
021	Cass
023	Chippewa
025	Chisago
027	Clay
029	Clearwater
031	Cook
033	Cottonwood
035	Crow Wing
037	Dakota
039	Dodge
041	Douglas
043	Faribault
045	Fillmore
047	Freeborn
049	Goodhue
051	Grant
053	Hennepin
055	Houston
057	Hubbard
059	Isanti
061	Itasca
063	Jackson
065	Kanabec
067	Kandiyohi
069	Kittson
071	Koochiching
073	Lac Qui Parle
075	Lake

Con.	
077	Lake of the Woods
079	Le Sueur
081	Lincoln
083	Lyon
085	McLeod
087	Mahnomen
089	Marshall
091	Martin
093	Meeker
095	Mille Lacs
097	Morrison
099	Mower
101	Murray
103	Nicollet
105	Nobles
107	Norman
109	Olmsted
111	Otter Tail
113	Pennington
115	Pine
117	Pipestone
119	Polk
121	Pope
123	Ramsey
125	Red Lake
127	Redwood
129	Renville
131	Rice
133	Rock
135	Roseau
137	St. Louis
139	Scott
141	Sherburne
143	Sibley
145	Stearns
147	Steele
149	Stevens
151	Swift
153	Todd
155	Traverse
157	Wabasha
159	Wadena
161	Waseca
163	Washington
165	Watonwan
167	Wilkin
169	Winona
171	Wright
173	Yellow Medicine
	Missouri
	County
001	Adair
003	Andrew
005	Atchison
007	Audrain
009	Barry
011	Barton
013	Bates
015	Benton
017	Bollinger
019	Boone
021	Buchanan
023	Butler
025	Caldwell
027	Callaway
029	Camden
031	Cape Girardeau
033	Carroll
035	Carter
037	Cass
039	Cedar
041	Chariton
043	Christian
045	Clark
047	Clay
049	Clinton
051	Cole
053	Cooper
055	Crawford
057	Dade
059	Dallas
061	Daviess
063	De Kalb
065	Dent
067	Douglas
069	Dunklin
071	Franklin
073	Gasconade
075	Gentry
077	Greene
079	Grundy

Table 1.—*Code numbers and abbreviations used for States (and other areas) and code numbers used for counties and independent cities* – Cont.

STATES, COUNTIES, AND INDEPENDENT CITIES—Continued

Con.		Con.		Con.		Con.		Con.		Con.	
011	Banks	193	Macon	031	Cedar	007	Bear Lake	093	Kendall	063	Hendricks
013	Barrow	195	Madison	033	Cerro Gordo	009	Benewah	095	Knox	065	Henry
015	Bartow	197	Marion	035	Cherokee	011	Bingham	097	Lake	067	Howard
017	Ben Hill	199	Meriwether	037	Chickasaw	013	Blaine	099	La Salle	069	Huntington
019	Berrien	201	Miller	039	Clarke	015	Boise	101	Lawrence	071	Jackson
021	Bibb	205	Mitchell	041	Clay	017	Bonner	103	Lee	073	Jasper
023	Bleckley	207	Monroe	043	Clayton	019	Bonneville	105	Livingston	075	Jay
025	Brantley	209	Montgomery	045	Clinton	021	Boundary	107	Logan	077	Jefferson
027	Brooks	211	Morgan	047	Crawford	023	Butte	109	McDonough	079	Jennings
029	Bryan	213	Murray	049	Dallas	025	Camas	111	McHenry	081	Johnson
031	Bulloch	215	Muscogee	051	Davis	027	Canyon	113	McLean	083	Knox
033	Burke	217	Newton	053	Decatur	029	Caribou	115	Macon	085	Kosciusko
035	Butts	219	Oconee	055	Delaware	031	Cassia	117	Macoupin	087	Lagrange
037	Calhoun	221	Oglethorpe	057	Des Moines	033	Clark	119	Madison	089	Lake
039	Camden	223	Paulding	059	Dickinson	035	Clearwater	121	Marion	091	La Porte
043	Candler	225	Peach	061	Dubuque	037	Custer	123	Marshall	093	Lawrence
045	Carroll	227	Pickens	063	Emmet	039	Elmore	125	Mason	095	Madison
047	Catoosa	229	Pierce	065	Fayette	041	Franklin	127	Massac	097	Marion
049	Charlton	231	Pike	067	Floyd	043	Fremont	129	Menard	099	Marshall
051	Chatham	233	Polk	069	Franklin	045	Gem	131	Mercer	101	Martin
053	Chattahoochee	235	Pulaski	071	Fremont	047	Gooding	133	Monroe	103	Miami
055	Chattooga	237	Putnam	073	Greene	049	Idaho	135	Montgomery	105	Monroe
057	Cherokee	239	Quitman	075	Grundy	051	Jefferson	137	Morgan	107	Montgomery
059	Clarke	241	Rabun	077	Guthrie	053	Jerome	139	Moultrie	109	Morgan
061	Clay	243	Randolph	079	Hamilton	055	Kootenai	141	Ogle	111	Newton
063	Clayton	245	Richmond	081	Hancock	057	Latah	143	Peoria	113	Noble
065	Clinch	247	Rockdale	083	Hardin	059	Lemhi	145	Perry	115	Ohio
067	Cobb	249	Schley	085	Harrison	061	Lewis	147	Piatt	117	Orange
069	Coffee	251	Screven	087	Henry	063	Lincoln	149	Pike	119	Owen
071	Colquitt	253	Seminole	089	Howard	065	Madison	151	Pope	121	Parke
073	Columbia	255	Spalding	091	Humboldt	067	Minidoka	153	Pulaski	123	Perry
075	Cook	257	Stephens	093	Ida	069	Nez Perce	155	Putnam	125	Pike
077	Coweta	259	Stewart	095	Iowa	071	Oneida	157	Randolph	127	Porter
079	Crawford	261	Sumter	097	Jackson	073	Owyhee	159	Richland	129	Posey
081	Crisp	263	Talbot	099	Jasper	075	Payette	161	Rock Island	131	Pulaski
083	Dade	265	Taliaferro	101	Jefferson	077	Power	163	St. Clair	133	Putnam
085	Dawson	267	Tattnall	103	Johnson	079	Shoshone	165	Saline	135	Randolph
087	Decatur	269	Taylor	105	Jones	081	Teton	167	Sangamon	137	Ripley
089	De Kalb	271	Telfair	107	Keokuk	083	Twin Falls	169	Schuyler	139	Rush
091	Dodge	273	Terrell	109	Kossuth	085	Valley	171	Scott	141	St Joseph
093	Dooly	275	Thomas	111	Lee	087	Washington	173	Shelby	143	Scott
095	Dougherty	277	Tift	113	Linn			175	Stark	145	Shelby
097	Douglas	279	Toombs	115	Louisa		Illinois	177	Stephenson	147	Spencer
099	Early	281	Towns	117	Lucas		*County*	179	Tazewell	149	Starke
101	Echols	283	Treutlen	119	Lyon	001	Adams	181	Union	151	Steuben
103	Effingham	285	Troup	121	Madison	003	Alexander	183	Vermilion	153	Sullivan
105	Elbert	287	Turner	123	Mahaska	005	Bond	185	Wabash	155	Switzerland
107	Emanuel	289	Twiggs	125	Marion	007	Boone	187	Warren	157	Tippecanoe
109	Evans	291	Union	127	Marshall	009	Brown	189	Washington	159	Tipton
111	Fannin	293	Upson	129	Mills	011	Bureau	191	Wayne	161	Union
113	Fayette	295	Walker	131	Mitchell	013	Calhoun	193	White	163	Vanderburgh
115	Floyd	297	Walton	133	Monona	015	Carroll	195	Whiteside	165	Vermillion
117	Forsyth	299	Ware	135	Monroe	017	Cass	197	Will	167	Vigo
119	Franklin	301	Warren	137	Montgomery	019	Champaign	199	Williamson	169	Wabash
121	Fulton	303	Washington	139	Muscatine	021	Christian	201	Winnebago	171	Warren
123	Gilmer	305	Wayne	141	O'Brien	023	Clark	203	Woodford	173	Warrick
125	Glascock	307	Webster	143	Osceola	025	Clay			175	Washington
127	Glynn	309	Wheeler	145	Page	027	Clinton		Indiana	177	Wayne
129	Gordon	311	White	147	Palo Alto	029	Coles		*County*	179	Wells
131	Grady	313	Whitfield	149	Plymouth	031	Cook	001	Adams	181	White
133	Greene	315	Wilcox	151	Pocahontas	033	Crawford	003	Allen	183	Whitley
135	Gwinnett	317	Wilkes	153	Polk	035	Cumberland	005	Bartholomew		
137	Habersham	319	Wilkinson	155	Pottawattamie	037	De Kalb	007	Benton		Kansas
139	Hall	321	Worth	157	Poweshiek	039	De Witt	009	Blackford		*County*
141	Hancock			159	Ringgold	041	Douglas	011	Boone	001	Allen
143	Haralson		Hawaii	161	Sac	043	Du Page	013	Brown	003	Anderson
145	Harris		*County*	163	Scott	045	Edgar	015	Carroll	005	Atchison
147	Hart	001	Hawaii	165	Shelby	047	Edwards	017	Cass	007	Barber
149	Heard	003	Honolulu	167	Sioux	049	Effingham	019	Clark	009	Barton
151	Henry	005	Kalawao	169	Story	051	Fayette	021	Clay	011	Bourbon
153	Houston	007	Kauai	171	Tama	053	Ford	023	Clinton	013	Brown
155	Irwin	009	Maui	173	Taylor	055	Franklin	025	Crawford	015	Butler
157	Jackson			175	Union	057	Fulton	027	Daviess	017	Chase
159	Jasper		Iowa	177	Van Buren	059	Gallatin	029	Dearborn	019	Chautauqua
161	Jeff Davis		*County*	179	Wapello	061	Greene	031	Decatur	021	Cherokee
163	Jefferson	001	Adair	181	Warren	063	Grundy	033	De Kalb	023	Cheyenne
165	Jenkins	003	Adams	183	Washington	065	Hamilton	035	Delaware	025	Clark
167	Johnson	005	Allamakee	185	Wayne	067	Hancock	037	Dubois	027	Clay
169	Jones	007	Appanoose	187	Webster	069	Hardin	039	Elkhart	029	Clond
171	Lamar	009	Audubon	189	Winnebago	071	Henderson	041	Fayette	031	Coffey
173	Lanier	011	Benton	191	Winneshiek	073	Henry	043	Floyd	033	Comanche
175	Laurens	013	Black Hawk	193	Woodbury	075	Iroquois	045	Fountain	035	Cowley
177	Lee	015	Boone	195	Worth	077	Jackson	047	Franklin	037	Crawford
179	Liberty	017	Bremer	197	Wright	079	Jasper	049	Fulton	039	Decatur
181	Lincoln	019	Buchanan			081	Jefferson	051	Gibson	041	Dickinson
183	Long	021	Buena Vista		Idaho	083	Jersey	053	Grant	043	Doniphan
185	Lowndes	023	Butler		*County*	085	Jo Daviess	055	Greene	045	Douglas
187	Lumpkin	025	Calhoun	001	Ada	087	Johnson	057	Hamilton	047	Edwards
189	McDuffie	027	Carroll	003	Adams	089	Kane	059	Hancock	049	Elk
191	McIntosh	029	Cass	005	Bannock	091	Kankakee	061	Harrison	051	Ellis

Table 1.—*Code numbers and abbreviations used for States (and other areas) and code numbers used for counties and independent cities* – Cont.

STATES, COUNTIES, AND INDEPENDENT CITIES—Continued

Con.	
081	Harrison
083	Henry
085	Hickory
087	Holt
089	Howard
091	Howell
093	Iron
095	Jackson
097	Jasper
099	Jefferson
101	Johnson
103	Knox
105	Laclede
107	Lafayette
109	Lawrence
111	Lewis
113	Lincoln
115	Linn
117	Livingston
119	McDonald
121	Macon
123	Madison
125	Maries
127	Marion
129	Mercer
131	Miller
133	Mississippi
135	Moniteau
137	Monroe
139	Montgomery
141	Morgan
143	New Madrid
145	Newton
147	Nodaway
149	Oregon
151	Osage
153	Ozark
155	Pemiscot
157	Perry
159	Pettis
161	Phelps
163	Pike
165	Platte
167	Polk
169	Pulaski
171	Putnam
173	Ralls
175	Randolph
177	Ray
179	Reynolds
181	Ripley
183	St. Charles
185	St. Clair
187	St. Francois
189	St. Louis
193	Ste Genevieve
195	Saline
197	Schuyler
199	Scotland
201	Scott
203	Shannon
205	Shelby
207	Stoddard
209	Stone
211	Sullivan
213	Taney
215	Texas
217	Vernon
219	Warren
221	Washington
223	Wayne
225	Webster
227	Worth
229	Wright
	Independent City
510	St. Louis City
	Mississippi
	County
001	Adams
009	Alcorn
005	Amite
007	Attala
009	Benton
011	Bolivar
013	Calhoun
015	Carroll
017	Chickasaw
019	Choctaw
021	Claiborne
023	Clarke
025	Clay
027	Coahoma
029	Copiah
031	Covington
033	De Soto
035	Forrest
037	Franklin
039	George
041	Greene
043	Grenada
045	Hancock
047	Harrison
049	Hinds
051	Holmes
053	Humphreys
055	Issaquena
057	Itawamba
059	Jackson
061	Jasper
063	Jefferson
065	Jefferson Davis
067	Jones
069	Kemper
071	Lafayette
073	Lamar
075	Lauderdale
077	Lawrence
079	Leake
081	Lee
083	Leflore
085	Lincoln
087	Lowndes
089	Madison
091	Marion
093	Marshall
095	Monroe
097	Montgomery
099	Neshoba
101	Newton
103	Noxubee
105	Oktibbeha
107	Panola
109	Pearl River
111	Perry
113	Pike
115	Pontotoc
117	Prentiss
119	Quitman
121	Rankin
123	Scott
125	Sharkey
127	Simpson
129	Smith
131	Stone
133	Sunflower
135	Tallahatchie
137	Tate
139	Tippah
141	Tishomingo
143	Tunica
145	Union
147	Walthall
149	Warren
151	Washington
153	Wayne
155	Webster
157	Wilkinson
159	Winston
161	Yalobusha
163	Yazoo
	Montana
	County
001	Beaverhead
003	Big Horn
005	Blaine
007	Broadwater
009	Carbon
011	Carter
013	Cascade
015	Chouteau
017	Custer
019	Daniels
021	Dawson
023	Deer Lodge
025	Fallon
027	Fergus
029	Flathead
031	Gallatin
033	Garfield
035	Glacier
037	Golden Valley
039	Granite
041	Hill
043	Jefferson
045	Judith Basin
047	Lake
049	Lewis and Clark
051	Liberty
053	Lincoln
055	McCone
057	Madison
059	Meagher
061	Mineral
063	Missoula
065	Musselshell
067	Park
069	Petroleum
071	Phillips
073	Pondera
075	Powder River
077	Powell
079	Prairie
081	Ravalli
083	Richland
085	Roosevelt
087	Rosebud
089	Sanders
091	Sheridan
093	Silver Bow
095	Stillwater
097	Sweet Grass
099	Teton
101	Toole
103	Treasure
105	Valley
107	Wheatland
109	Wibaux
111	Yellowstone
113	Yellowstone Natl Park–Part
	Nebraska
	County
001	Adams
003	Antelope
005	Arthur
007	Banner
009	Blaine
011	Boone
013	Box Butte
015	Boyd
017	Brown
019	Buffalo
021	Burt
023	Butler
025	Cass
027	Cedar
029	Chase
031	Cherry
033	Cheyenne
035	Clay
037	Colfax
039	Cuming
041	Custer
043	Dakota
045	Dawes
047	Dawson
049	Deuel
051	Dixon
053	Dodge
055	Douglas
057	Dundy
059	Fillmore
061	Franklin
063	Frontier
065	Furnas
067	Gage
069	Garden
071	Garfield
073	Gosper
075	Grant
077	Greeley
079	Hall
081	Hamilton
083	Harlan
085	Hayes
087	Hitchcock
089	Holt
091	Hooker
093	Howard
095	Jefferson
097	Johnson
099	Kearney
101	Keith
103	Keya Paha
105	Kimball
107	Knox
109	Lancaster
111	Lincoln
113	Logan
115	Loup
117	McPherson
119	Madison
121	Merrick
123	Morrill
125	Nance
127	Nemaha
129	Nuckolls
131	Otoe
133	Pawnee
135	Perkins
137	Phelps
139	Pierce
141	Platte
143	Polk
145	Red Willow
147	Richardson
149	Rock
151	Saline
153	Sarpy
155	Saunders
157	Scotts Bluff
159	Seward
161	Sheridan
163	Sherman
165	Sioux
167	Stanton
169	Thayer
171	Thomas
173	Thurston
175	Valley
177	Washington
179	Wayne
181	Webster
183	Wheeler
185	York
	North Carolina
	County
001	Alamance
003	Alexander
005	Alleghany
007	Anson
009	Ashe
011	Avery
013	Beaufort
015	Bertie
017	Bladen
019	Brunswick
021	Buncombe
023	Burke
025	Cabarrus
027	Caldwell
029	Camden
031	Carteret
033	Caswell
035	Catawba
037	Chatham
039	Cherokee
041	Chowan
043	Clay
045	Cleveland
047	Columbus
049	Craven
051	Cumberland
053	Currituck
055	Dare
057	Davidson
059	Davie
061	Duplin
063	Durham
065	Edgecombe
067	Forsyth
069	Franklin
071	Gaston
073	Gates
075	Graham
077	Granville
079	Greene
081	Guilford
083	Halifax
085	Harnett
087	Haywood
089	Henderson
091	Hertford
093	Hoke
095	Hyde
097	Iredell
099	Jackson
101	Johnston
103	Jones
105	Lee
107	Lenoir
109	Lincoln
111	McDowell
113	Macon
115	Madison
117	Martin
119	Mecklenburg
121	Mitchell
123	Montgomery
125	Moore
127	Nash
129	New Hanover
131	Northampton
133	Onslow
135	Orange
137	Pamlico
139	Pasquotank
141	Pender
143	Perquimans
145	Person
147	Pitt
149	Polk
151	Randolph
153	Richmond
155	Robeson
157	Rockingham
159	Rowan
161	Rutherford
163	Sampson
165	Scotland
167	Stanly
169	Stokes
171	Surry
173	Swain
175	Transylvania
177	Tyrrell
179	Union
181	Vance
183	Wake
185	Warren
187	Washington
189	Watauga
191	Wayne
193	Wilkes
195	Wilson
197	Yadkin
199	Yancey
	North Dakota
	County
001	Adams
003	Barnes
005	Benson
007	Billings
009	Bottineau
011	Bowman
013	Burke
015	Burleigh
017	Cass
019	Cavalier
021	Dickey
023	Divide
025	Dunn
027	Eddy
029	Emmons
033	Golden Valley
035	Grand Forks
037	Grant
039	Griggs
041	Hettinger
043	Kidder
045	La Moure
047	Logan
049	McHenry
051	McIntosh
053	McKenzie
055	McLean
057	Mercer
059	Morton
061	Mountrail
063	Nelson
065	Oliver
067	Pembina
069	Pierce
071	Ramsey
073	Ransom
075	Renville
077	Richland
079	Rolette
081	Sargent
083	Sheridan
085	Sioux
087	Slope
089	Stark
091	Steele
093	Stutsman
095	Towner
097	Traill
099	Walsh
101	Ward
103	Wells
105	Williams
	New Hampshire
	County
001	Belknap
003	Carroll
005	Cheshire
007	Coos
009	Grafton
011	Hillsboro
013	Merrimack
015	Rockingham
017	Strafford
019	Sullivan
	New Jersey
	County
001	Atlantic
003	Bergen
005	Burlington
007	Camden
009	Cape May
011	Cumberland
013	Essex
015	Gloucester
017	Hudson
019	Hunterdon
021	Mercer
023	Middlesex
025	Monmouth
027	Morris
029	Ocean
031	Passaic
033	Salem
035	Somerset
037	Sussex
039	Union
041	Warren
	New Mexico
	County
001	Bernalillo
003	Catron
005	Chaves
007	Colfax
009	Curry
011	De Baca
013	Dona Ana
015	Eddy
017	Grant
019	Guadalupe
021	Harding
023	Hidalgo
025	Lea
027	Lincoln
028	Los Alamos
029	Luna
031	McKinley
033	Mora
035	Otero
037	Quay
039	Rio Arriba
041	Roosevelt
043	Sandoval
045	San Juan
047	San Miguel
049	Santa Fe
051	Sierra
053	Socorro
055	Taos
057	Torrance
059	Union
061	Valencia
	Nevada
	County
001	Churchill

Table 1.—*Code numbers and abbreviations used for States (and other areas) and code numbers used for counties and independent cities* – Cont.

STATES, COUNTIES, AND INDEPENDENT CITIES—Continued

Con.	
003	Clark
005	Douglas
007	Elko
009	Esmeralda
011	Eureka
013	Humboldt
015	Lander
017	Lincoln
019	Lyon
021	Mineral
023	Nye
027	Pershing
029	Storey
031	Washoe
033	White Pine
	Independent City
510	Carson City
	New York
	County
001	Albany
003	Allegany
005	Bronx
007	Broome
009	Cattaraugus
011	Cayuga
013	Chautauqua
015	Chemung
017	Chenango
019	Clinton
021	Columbia
023	Cortland
025	Delaware
027	Dutchess
029	Erie
031	Essex
033	Franklin
035	Fulton
037	Genesee
039	Greene
041	Hamilton
043	Herkimer
045	Jefferson
047	Kings
049	Lewis
051	Livingston
053	Madison
055	Monroe
057	Montgomery
059	Nassau
061	New York
063	Niagara
065	Oneida
067	Onondaga
069	Ontario
071	Orange
073	Orleans
075	Oswego
077	Otsego
079	Putnam
081	Queens
083	Rensselaer
085	Richmond
087	Rockland
089	St. Lawrence
091	Saratoga
093	Schenectady
095	Schoharie
097	Schuyler
099	Seneca
101	Steuben
103	Suffolk
105	Sullivan
107	Tioga
109	Tompkins
111	Ulster
113	Warren
115	Washington
117	Wayne
119	Westchester
121	Wyoming
123	Yates
	Ohio
	County
001	Adams
003	Allen
005	Ashland
007	Ashtabula
009	Athens
011	Auglaize
013	Belmont

Con.	
015	Brown
017	Butler
019	Carroll
021	Champaign
023	Clark
025	Clermont
027	Clinton
029	Columbiana
031	Coshocton
033	Crawford
035	Cuyahoga
037	Darke
039	Defiance
041	Delaware
043	Erie
045	Fairfield
047	Fayette
049	Franklin
051	Fulton
053	Gallia
055	Geauga
057	Greene
059	Guernsey
061	Hamilton
063	Hancock
065	Hardin
067	Harrison
069	Henry
071	Highland
073	Hocking
075	Holmes
077	Huron
079	Jackson
081	Jefferson
083	Knox
085	Lake
087	Lawrence
089	Licking
091	Logan
093	Lorain
095	Lucas
097	Madison
099	Mahoning
101	Marion
103	Medina
105	Meigs
107	Mercer
109	Miami
111	Monroe
113	Montgomery
115	Morgan
117	Morrow
119	Muskingum
121	Noble
123	Ottawa
125	Paulding
127	Perry
129	Pickaway
131	Pike
133	Portage
135	Preble
137	Putnam
139	Richland
141	Ross
143	Sandusky
145	Scioto
147	Seneca
149	Shelby
151	Stark
153	Summit
155	Trumbull
157	Tuscarawas
159	Union
161	Van Wert
163	Vinton
165	Warren
167	Washington
169	Wayne
171	Williams
173	Wood
175	Wyandot
	Oklahoma
	County
001	Adair
003	Alfalfa
005	Atoka
007	Beaver
009	Beckham
011	Blaine
013	Bryan
015	Caddo

Con.	
017	Canadian
019	Carter
021	Cherokee
023	Choctaw
025	Cimarron
027	Cleveland
029	Coal
031	Comanche
033	Cotton
035	Craig
037	Creek
039	Custer
041	Delaware
043	Dewey
045	Ellis
047	Garfield
049	Garvin
051	Grady
053	Grant
055	Greer
057	Harmon
059	Harper
061	Haskell
063	Hughes
065	Jackson
067	Jefferson
069	Johnston
071	Kay
073	Kingfisher
075	Kiowa
077	Latimer
079	Le Flore
081	Lincoln
083	Logan
085	Love
087	McClain
089	McCurtain
091	McIntosh
093	Major
095	Marshall
097	Mayes
099	Murray
101	Muskogee
103	Noble
105	Nowata
107	Okfuskee
109	Oklahoma
111	Okmulgee
113	Osage
115	Ottawa
117	Pawnee
119	Payne
121	Pittsburg
123	Pontotoc
125	Pottawatomie
127	Pushmataha
129	Roger Mills
131	Rogers
133	Seminole
135	Sequoyah
137	Stephens
139	Texas
141	Tillman
143	Tulsa
145	Wagoner
147	Washington
149	Washita
151	Woods
153	Woodward
	Oregon
	County
001	Baker
003	Benton
005	Clackamas
007	Clatsop
009	Columbia
011	Coos
013	Crook
015	Curry
017	Deschutes
019	Douglas
021	Gilliam
023	Grant
025	Harney
027	Hood River
029	Jackson
031	Jefferson
033	Josephine
035	Klamath
037	Lake
039	Lane

Con.	
041	Lincoln
043	Linn
045	Malheur
047	Marion
049	Morrow
051	Multnomah
053	Polk
055	Sherman
057	Tillamook
059	Umatilla
061	Union
063	Wallowa
065	Wasco
067	Washington
069	Wheeler
071	Yamhill
	Pennsylvania
	County
001	Adams
003	Allegheny
005	Armstrong
007	Beaver
009	Bedford
011	Berks
013	Blair
015	Bradford
017	Bucks
019	Butler
021	Cambria
023	Cameron
025	Carbon
027	Centre
029	Chester
031	Clarion
033	Clearfield
035	Clinton
037	Columbia
039	Crawford
041	Cumberland
043	Dauphin
045	Delaware
047	Elk
049	Erie
051	Fayette
053	Forest
055	Franklin
057	Fulton
059	Greene
061	Huntington
063	Indiana
065	Jefferson
067	Juniata
069	Lackawanna
071	Lancaster
073	Lawrence
075	Lebanon
077	Lehigh
079	Luzerne
081	Lycoming
083	McKean
085	Mercer
087	Mifflin
089	Monroe
091	Montgomery
093	Montour
095	Northampton
097	Northumberland
099	Perry
101	Philadelphia
103	Pike
105	Potter
107	Schuylkill
109	Snyder
111	Somerset
113	Sullivan
115	Susquehanna
117	Tioga
119	Union
121	Venango
123	Warren
125	Washington
127	Wayne
129	Westmoreland
131	Wyoming
133	York
	Rhode Island
	County
001	Bristol
003	Kent
005	Newport

Con.	
007	Providence
009	Washington
	South Carolina
	County
001	Abbeville
003	Aiken
005	Allendale
007	Anderson
009	Bamberg
011	Barnwell
013	Beaufort
015	Berkeley
017	Calhoun
019	Charleston
021	Cherokee
023	Chester
025	Chesterfield
027	Clarendon
029	Colleton
031	Darlington
033	Dillon
035	Dorchester
037	Edgefield
039	Fairfield
041	Florence
043	Georgetown
045	Greenville
047	Greenwood
049	Hampton
051	Horry
053	Jasper
055	Kershaw
057	Lancaster
059	Laurens
061	Lee
063	Lexington
065	McCormick
067	Marion
069	Marlboro
071	Newberry
073	Oconee
075	Orangeburg
077	Pickens
079	Richland
081	Saluda
083	Spartanburg
085	Sumter
087	Union
089	Williamsburg
091	York
	South Dakota
	County
003	Aurora
005	Beadle
007	Bennett
009	Bon Homme
011	Brookings
013	Brown
015	Brule
017	Buffalo
019	Butte
021	Campbell
023	Charles Mix
025	Clark
027	Clay
029	Codington
031	Corson
033	Custer
035	Davison
037	Day
039	Deuel
041	Dewey
043	Douglas
045	Edmunds
047	Fall River
049	Faulk
051	Grant
053	Gregory
055	Haakon
057	Hamlin
059	Hand
061	Hanson
063	Harding
065	Hughes
067	Hutchinson
069	Hyde
071	Jackson
073	Jerauld
075	Jones
077	Kingsbury

Con.	
079	Lake
081	Lawrence
083	Lincoln
085	Lyman
087	McCook
089	McPherson
091	Marshall
093	Meade
095	Mellette
097	Miner
099	Minnehaha
101	Moody
103	Pennington
105	Perkins
107	Potter
109	Roberts
111	Sanborn
113	Shannon
115	Spink
117	Stanley
119	Sully
121	Todd
123	Tripp
125	Turner
127	Union
129	Walworth
131	Washabaugh
135	Yankton
137	Ziebach
	Tennessee
	County
001	Anderson
003	Bedford
005	Benton
007	Bledsoe
009	Blount
011	Bradley
013	Campbell
015	Cannon
017	Carroll
019	Carter
021	Cheatham
023	Chester
025	Claiborne
027	Clay
029	Cocke
031	Coffee
033	Crockett
035	Cumberland
037	Davidson
039	Decatur
041	De Kalb
043	Dickson
045	Dyer
047	Fayette
049	Fentress
051	Franklin
053	Gibson
055	Giles
057	Grainger
059	Greene
061	Grundy
063	Hamblen
065	Hamilton
067	Hancock
069	Hardeman
071	Hardin
073	Hawkins
075	Haywood
077	Henderson
079	Henry
081	Hickman
083	Houston
085	Humphreys
087	Jackson
089	Jefferson
091	Johnson
093	Knox
095	Lake
097	Lauderdale
099	Lawrence
101	Lewis
103	Lincoln
105	Loudon
107	McMinn
109	McNairy
111	Macon
113	Madison
115	Marion
117	Marshall
119	Maury

Table 1.—*Code numbers and abbreviations used for States (and other areas) and code numbers used for counties and independent cities* – Cont.

STATES, COUNTIES, AND INDEPENDENT CITIES—Continued

Con.	
121	Meigs
123	Monroe
125	Montgomery
127	Moore
129	Morgan
131	Obion
133	Overton
135	Perry
137	Pickett
139	Polk
141	Putnam
143	Rhea
145	Roane
147	Robertson
149	Rutherford
151	Scott
153	Sequatchie
155	Sevier
157	Shelby
159	Smith
161	Stewart
163	Sullivan
165	Sumner
167	Tipton
169	Trousdale
171	Unicoi
173	Union
175	Van Buren
177	Warren
179	Washington
181	Wayne
183	Weakley
185	White
187	Williamson
189	Wilson
	Texas
	County
001	Anderson
003	Andrews
005	Angelina
007	Aransas
009	Archer
011	Armstrong
013	Atascosa
015	Austin
017	Bailey
019	Bandera
021	Bastrop
023	Baylor
025	Bee
027	Bell
029	Bexar
031	Blanco
033	Borden
035	Bosque
037	Bowie
039	Brazoria
041	Brazos
043	Brewster
045	Briscoe
047	Brooks
049	Brown
051	Burleson
053	Burnet
055	Caldwell
057	Calhoun
059	Callahan
061	Cameron
063	Camp
065	Carson
067	Cass
069	Castro
071	Chambers
073	Cherokee
075	Childress
077	Clay
079	Cochran
081	Coke
083	Coleman
085	Collin
087	Collingsworth
089	Colorado
091	Comal
093	Comanche
095	Concho
097	Cooke
099	Coryell
101	Cottle
103	Crane
105	Crockett
107	Crosby

Con.	
109	Culberson
111	Dallam
113	Dallas
115	Dawson
117	Deaf Smith
119	Delta
121	Denton
123	De Witt
125	Dickens
127	Dimmit
129	Donley
131	Duval
133	Eastland
135	Ector
137	Edwards
139	Ellis
141	El Paso
143	Erath
145	Falls
147	Fannin
149	Fayette
151	Fisher
153	Floyd
155	Foard
157	Fort Bend
159	Franklin
161	Freestone
163	Frio
165	Gaines
167	Galveston
169	Garza
171	Gillespie
173	Glasscock
175	Goliad
177	Gonzales
179	Gray
181	Grayson
183	Gregg
185	Grimes
187	Guadalupe
189	Hale
191	Hall
193	Hamilton
195	Hansford
197	Hardeman
199	Hardin
201	Harris
203	Harrison
205	Hartley
207	Haskell
209	Hays
211	Hemphill
213	Henderson
215	Hidalgo
217	Hill
219	Hockley
221	Hood
223	Hopkins
225	Houston
227	Howard
229	Hudspeth
231	Hunt
233	Hutchinson
235	Irion
237	Jack
239	Jackson
241	Jasper
243	Jeff Davis
245	Jefferson
247	Jim Hogg
249	Jim Wells
251	Johnson
253	Jones
255	Karnes
257	Kaufman
259	Kendall
261	Kenedy
263	Kent
265	Kerr
267	Kimble
269	King
271	Kinney
273	Kleberg
275	Knox
277	Lamar
279	Lamb
281	Lampasas
283	La Salle
285	Lavaca
287	Lee
289	Leon
291	Liberty

Con.	
293	Limestone
295	Lipscomb
297	Live Oak
299	Llano
301	Loving
303	Lubbock
305	Lynn
307	McCulloch
309	McLennan
311	McMullen
313	Madison
315	Marion
317	Martin
319	Mason
321	Matagorda
323	Maverick
325	Medina
327	Menard
329	Midland
331	Milam
333	Mills
335	Mitchell
337	Montague
339	Montgomery
341	Moore
343	Morris
345	Motley
347	Nacogdoches
349	Navarro
351	Newton
353	Nolan
355	Nueces
357	Ochiltree
359	Oldham
361	Orange
363	Palo Pinto
365	Panola
367	Parker
369	Parmer
371	Pecos
373	Polk
375	Potter
377	Presidio
379	Rains
381	Randall
383	Reagan
385	Real
387	Red River
389	Reeves
391	Refugio
393	Roberts
395	Robertson
397	Rockwall
399	Runnels
401	Rusk
403	Sabine
405	San Augustine
407	San Jacinto
409	San Patricio
411	San Saba
413	Schleicher
415	Scurry
417	Shackelford
419	Shelby
421	Sherman
423	Smith
425	Somervell
427	Starr
429	Stephens
431	Sterling
433	Stonewall
435	Sutton
437	Swisher
439	Tarrant
441	Taylor
443	Terrell
445	Terry
447	Throckmorton
449	Titus
451	Tom Green
453	Travis
455	Trinity
457	Tyler
459	Upshur
461	Upton
463	Uvalde
465	Val Verde
467	Van Zandt
469	Victoria
471	Walker
473	Waller
475	Ward

Con.	
477	Washington
479	Webb
481	Wharton
483	Wheeler
485	Wichita
487	Wilbarger
489	Willacy
491	Williamson
493	Wilson
495	Winkler
497	Wise
499	Wood
501	Yoakum
503	Young
505	Zapata
507	Zavala
	Utah
	County
001	Beaver
003	Box Elder
005	Cache
007	Carbon
009	Daggett
011	Davis
013	Duchesne
015	Emery
017	Garfield
019	Grand
021	Iron
023	Juab
025	Kane
027	Millard
029	Morgan
031	Piute
033	Rich
035	Salt Lake
037	San Juan
039	Sanpete
041	Sevier
043	Summit
045	Tooele
047	Uintah
049	Utah
051	Wasatch
053	Washington
055	Wayne
057	Weber
	Virginia
	County
001	Accomack
003	Albemarle
005	Alleghany
007	Amelia
009	Amherst
011	Appomattox
013	Arlington
015	Augusta
017	Bath
019	Bedford
021	Bland
023	Botetourt
025	Brunswick
027	Buchanan
029	Buckingham
031	Campbell
033	Caroline
035	Carroll
036	Charles City
037	Charlotte
041	Chesterfield
043	Clarke
045	Craig
047	Culpeper
049	Cumberland
051	Dickenson
053	Dinwiddie
057	Essex
059	Fairfax
061	Fauquier
063	Floyd
065	Fluvanna
067	Franklin
069	Frederick
071	Giles
073	Gloucester
075	Goochland
077	Grayson
079	Greene
081	Greensville
083	Halifax

Con.	
085	Hanover
087	Henrico
089	Henry
091	Highland
093	Isle of Wight
095	James City
097	King and Queen
099	King George
101	King William
103	Lancaster
105	Lee
107	Loudoun
109	Louisa
111	Lunenburg
113	Madison
115	Mathews
117	Mecklenburg
119	Middlesex
121	Montgomery
123	Nansemond
125	Nelson
127	New Kent
131	Northampton
133	Northumberland
135	Nottoway
137	Orange
139	Page
141	Patrick
143	Pittsylvania
145	Powhatan
147	Prince Edward
149	Prince George
153	Prince William
155	Pulaski
157	Rappahannock
159	Richmond
161	Roanoke
163	Rockbridge
165	Rockingham
167	Russell
169	Scott
171	Shenandoah
173	Smyth
175	Southampton
177	Spotsylvania
179	Stafford
181	Surry
183	Sussex
185	Tazewell
187	Warren
191	Washington
193	Westmoreland
195	Wise
197	Wythe
199	York
	Independent City
510	Alexandria
515	Bedford
520	Bristol
530	Buena Vista
540	Charlottesville
550	Chesapeake
560	Clifton Forge
570	Colonial Heights
580	Covington
590	Danville
595	Emporia
600	Fairfax
610	Falls Church
620	Franklin
630	Fredericksburg
640	Galax
650	Hampton
660	Harrisonburg
670	Hopewell
678	Lexington
680	Lynchburg
690	Martinsville
700	Newport News
710	Norfolk
720	Norton
730	Petersburg
740	Portsmouth
750	Radford
760	Richmond
770	Roanoke
775	Salem
780	South Boston
790	Staunton
800	Suffolk
810	Virginia Beach
820	Waynesboro

Con.	
830	Williamsburg
840	Winchester
VT	**Vermont**
	County
001	Addison
003	Bennington
005	Caledonia
007	Chittenden
009	Essex
011	Franklin
013	Grand Isle
015	Lamoille
017	Orange
019	Orleans
021	Rutland
023	Washington
025	Windham
027	Windsor
	Washington
	County
001	Adams
003	Asotin
005	Benton
007	Chelan
009	Clallam
011	Clark
013	Columbia
015	Cowlitz
017	Douglas
019	Ferry
021	Franklin
023	Garfield
025	Grant
027	Grays Harbor
029	Island
031	Jefferson
033	King
035	Kitsap
037	Kittitas
039	Klickitat
041	Lewis
043	Lincoln
045	Mason
047	Okanogan
049	Pacific
051	Pend Oreille
053	Pierce
055	San Juan
057	Skagit
059	Skamania
061	Snohomish
063	Spokane
065	Stevens
067	Thurston
069	Wahkiakum
071	Walla Walla
073	Whatcom
075	Whitman
077	Yakima
	Wisconsin
	County
001	Adams
003	Ashland
005	Barron
007	Bayfield
009	Brown
011	Buffalo
013	Burnett
015	Calumet
017	Chippewa
019	Clark
021	Columbia
023	Crawford
025	Dane
027	Dodge
029	Door
031	Douglas
033	Dunn
035	Eau Claire
037	Florence
039	Fond Du Lac
041	Forest
043	Grant
045	Green
047	Green Lake
049	Iowa
051	Iron
053	Jackson
055	Jefferson

Table 1.—*Code numbers and abbreviations used for States (and other areas) and code numbers used for counties and independent cities* – Cont.

STATES, COUNTIES, AND INDEPENDENT CITIES—Continued

Con.		Con.		West Virginia		Con.		Con.		Con.	
057	Juneau	099	Price	*County*		041	Lewis	083	Randolph	009	Converse
059	Kenosha	101	Racine	001	Barbour	043	Lincoln	085	Ritchie	011	Crook
061	Kewaunee	103	Richland	003	Berkeley	045	Logan	087	Roane	013	Fremont
063	La Crosse	105	Rock	005	Boone	047	McDowell	089	Summers	015	Goshen
065	Lafayette	107	Rusk	007	Braxton	049	Marion	091	Taylor	017	Hot Springs
067	Langlade	109	St. Croix	009	Brooke	051	Marshall	093	Tucker	019	Johnson
069	Lincoln	111	Sauk	011	Cabell	053	Mason	095	Tyler	021	Laramie
071	Manitowoc	113	Sawyer	013	Calhoun	055	Mercer	097	Upshur	023	Lincoln
073	Marathon	115	Shawano	015	Clay	057	Mineral	099	Wayne	025	Natrona
075	Marinette	117	Sheboygan	017	Doddridge	059	Mingo	101	Webster	027	Niobrara
077	Marquette	119	Taylor	019	Fayette	061	Monongalia	103	Wetzel	029	Park
078	Menominee	121	Trempealeau	021	Gilmer	063	Monroe	105	Wirt	031	Platte
079	Milwaukee	123	Vernon	023	Grant	065	Morgan	107	Wood	033	Sheridan
081	Monroe	125	Vilas	025	Greenbrier	067	Nicholas	109	Wyoming	035	Sublette
083	Oconto	127	Walworth	027	Hampshire	069	Ohio			037	Sweetwater
085	Oneida	129	Washburn	029	Hancock	071	Pendleton		Wyoming	039	Teton
087	Outagamie	131	Washington	031	Hardy	073	Pleasants		*County*	041	Uinta
089	Ozaukee	133	Waukesha	033	Harrison	075	Pocahontas	001	Albany	043	Washakie
091	Pepin	135	Waupaca	035	Jackson	077	Preston	003	Big Horn	045	Weston
093	Pierce	137	Waushara	037	Jefferson	079	Putnam	005	Campbell		
095	Polk	139	Winnebago	039	Kanawha	081	Raleigh	007	Carbon		
097	Portage	141	Wood								

	Alaska	Con.		Con.		Con.		Con.		Con.	
	Census division	060	Bristol Bay	110	Juneau	160	Kuskokwim	210	Seward	250	Upper Yukon
010	Aleutian Islands		Borough	120	Kenai-Cook	170	Matanuska-	220	Sitka	260	Valdez-Chitina-
020	Anchorage	070	Bristol Bay		Inlet		Susitna	230	Skagway-		Whittier
030	Angoon	080	Cordova-McCarthy	130	Ketchikan	180	Nome		Yakutat	270	Wade Hampton
040	Barrow-North	090	Fairbanks	140	Kobuk	190	Outer Ketchikan	240	Southeast	280	Wrangell-Petersburg
	Slope	100	Haines	150	Kodiak	200	Prince of Wales		Fairbanks	290	Yukon-Koyukuk
050	Bethel										

Table 2--NAWDEX Organizational Codes

Foreign Organizations

Code	Organization Name
CAX01	Inland Water Directorate, Water Resources Branch, Canada

Federal Organizations

USBLM	Bureau of Land Management
USBR	Bureau of Reclamation
USCE	Corps of Engineers
USEPA	Environmental Protection Agency
USERD	Energy Research and Development Administration
USFS	Forest Service
USGS	Geological Survey
USIBW	International Boundary and Water Commission
USSCS	Soil Conservation Service
USTVA	Tennessee Valley Authority

Non-Federal Organizations with State or Local Jurisdiction

AZ001	Water Resources Research Center, Arizona University
AZ003	Arizona Game and Fish Department
AR001	Bureau of Environmental Engineering, Arkansas Department of Health
CA001	California Department of Water Resources
CA009	California State Water Resources Control Board
CA059	Orange County Health Department, California
CA064	Lahontan Region, California Regional Water Quality Control Board
CA066	Southern California Edison Company
CA070	San Diego State University, Center for Marine Studies, California
CA092	San Luis Obispo County Health Agency, California
CA103	Moss Lunding Marine Laboratory, California
CA104	University of California, Sanitary Engineer Research Laboratory
CA105	University of California, Lawrence Livermore Laboratory
CA113	San Francisco Bay Region, California Regional Water Quality Control Board
CA114	Central Coast Region, California Regional Water Quality Control Board
CA115	Los Angeles Region, California Regional Water Quality Control Board
CA119	San Diego Region, California Regional Water Control Board
CA120	University of Southern California

CO003	Water Division, City of Colorado Springs, Colorado
FL051	Florida Department of Environmental Regulation
IN001	Division Stream Pollution Control, Indiana State Board of Health
IA007	Agricultural Engineering Department, Iowa State University
KY001	Kentucky Department for National Resources and Environmental Protection
MN012	Minnesota Pollution Control Agency
NV005	Division of Renewable Natural Resources, University of Nevada
NC004	North Carolina Department of Natural Resources and Community Development
OR001	Department of Forest Engineering, Oregon State University
OR005	Oregon Department of Fish and Wildlife
TX001	Texas Department of Natural Resources
UT001	Utah State Health Department
WA004	College of Fisheries, University of Washington
WA006	Department of Zoology, University of Washington
WA011	Seattle Water Pollution Control, Washington
WI001	Wisconsin Department of Natural Resources
WI003	Dairyland Power Cooperative, Wisconsin
WY004	Water Resources Research Institute, University of Wyoming

NEW ENGLAND REGION 01

HYDROLOGIC UNIT CODE	STATION NAME AND LOCATION	STATE	COUNTY	TYPE OF SITE	DRAINAGE AREA	BASIN DESCRIPTOR	QW BEGIN YEAR	QW END YEAR	SUSP SED CONCEN	SUSP PART SIZE	BED MAT PART SIZE	SUSP DISCHARGE	ORGANIZATION CODE	SED STOR MEDIA
01010001	ST. JOHN RIVER AT DICKEY, ME	023	003	SW	2700.00	004	1974		K			K	USGS	D
01010001	LITTLE BLACK R. @ ROAD CROSSING	023	003	SW			1975		E				USCE	C
01010001	SHIELDS BRANCH @ FIELD MARKER	023	003	SW			1975		E				USCE	C
01010001	ST. JOHN R. E. OF BR. AT DICKEY	023	003	SW			1975		E				USCE	C
01010001	LITTLE BLACK R. N. OF BR. @ ALLA	023	003	SW			1975		E				USCE	C
01010001	LITTLE BLACK R. AT BOAT LANDING	023	003	SW			1975		E				USCE	C
01010001	CHIMENTICOOK STR. @ CROSSING	023	003	SW			1975		E				USCE	C
01010001	POCWOCK STR. @ FIELD MARKER	023	003	SW			1975		E				USCE	C
01010001	BIG BLACK R. NR ST. JOHN R.	023	003	SW			1975		E				USCE	C
01010001	ST. JOHN R. @ NINE MILE BRK.	023	003	SW			1975		E				USCE	C
01010001	NINE MILE BRK. @ ST. JOHN R.	023	003	SW			1975		E				USCE	C
01010002	ALLAGASH RIVER NEAR ALLAGASH, ME	023	003	SW	1250.00	004	1952		K			K	USGS	D
01010002	ALLAGASH R. W. OF BR. @ ALLAGASH	023	003	SW			1975		E				USCE	C
01010004	AROOSTOOK RIVER AT CARIBOU, ME	023	003	SW	1943.00	014	1974		E	E		E	USGS	D
01020005	PENOBSCOT RIVER AT WEST ENFIELD, ME	023	019	SW	6670.00	014	1960		E	E		E	USGS	D
01030003	KENNEBEC RIVER AT BINGHAM, ME	023	025	SW	2720.00	014	1966		E	E		E	USGS	D
01040002	WILD RIVER AT GILEAD, ME	023	017	SW	69.50	004	1963		Q	A		E	USGS	D
01040002	ANDROSCOGGIN RIVER NEAR AUBURN, ME	023	001	SW	3257.00	013	1966	1978	N	N		N	USGS	D
01040002	ANDROSCOGGIN RIVER AT BRUNSWICK, ME	023	005	SW		014	1974		E	E			USGS	D
01050001	ST. CROIX RIVER AT MILLTOWN, ME	023	029	SW	1460.00	013	1971		E	E		E	USGS	D
01060002	SACO RIVER AT CORNISH, ME	023	005	SW	1298.00	004	1968		E	E		E	USGS	D
01060003	BLACKSMITH BROOK AT WELLS, ME.	023	031	SW	2.48	004	1975	1975	S			S	USGS	D
01070001	PEMIGEWASSET RIVER AT PLYMOUTH, NH	033	009	SW	622.00	004	1952		E			E	USGS	D
01070002	SOUCOOK RIVER NEAR CONCORD, NH	033	013	SW	76.80	004	1967	1978	R			R	USGS	D
01070002	SOUHEGAN R AT MERRIMACK, NH	033	011	SW	171.00	014	1952	1974	R			R	USGS	D
01070002	MERRIMACK RIVER ABOVE LOWELL, MA	025	017	SW		013	1969		R	R		R	USGS	D
01070002	MERRIMACK RIVER ABOVE LOWELL	025	017	SW			1958	1969	E				USEPA	C
01070003	WEST BRANCH WARNER RIVER NEAR BRADFORD, NH	033	013	SW	5.75	004	1976		A	A			USGS	D
01070005	ASSABET RIVER AT MAYNARD, MA	025	017	SW	116.00	004	1953	1978	K			K	USGS	D
01070005	CONCORD R BELOW R MEADOW BROOK, AT LOWELL, M	025	017	SW	312.00	124	1952		E			E	USGS	D
01070005	MERRIMACK RIVER BL CONCORD RIVER AT LOWELL.	025	017	SW	4425.00	124	1953	1978	2			2	USGS	D
01070005	CHARLES RIVER AT CHARLES RIVER VILLAGE, MA	025	021	SW	184.00	124	1959		E			E	USGS	D
01080101	AMMONOOSUC RIVER AT BETHLEHEM JUNCTION, NH	033	009	SW	87.60	004	1967	1978	A			A	USGS	D
01080102	PASSUMPSIC RIVER AT PASSUMPSIC, VT	050	005	SW	436.00	004	1952	1978	K			K	USGS	D
01080104	CONNECTICUT RIVER AT NORTH WALPOLE, NH	033	005	SW	5493.00	014	1954		R	R			USGS	D
01080104	CONNECTICUT R AT WALPOLE, NH	033	005	SW	5612.00	014	1955		E	E		E	USGS	D
01080105	WHITE RIVER AT WEST HARTFORD, VT	050	027	SW	690.00	004	1952	1978	K			K	USGS	D
01080107	WILLIAMS RIVER AT BROCKWAYS MILLS, VT	050	025	SW	103.00	004	1956	1978	K			K	USGS	D
01080202	MILLERS RIVER NEAR WINCHENDON, MA	025	027	SW	83.00	014	1956	1978	E			E	USGS	D
01080202	OTTER RIVER NEAR BALDWINSVILLE,	025	027	SW	60.80	004	1964	1966	E			E	USGS	D

HYDROLOGIC UNIT CODE	STATION NAME AND LOCATION	STATE	COUNTY	TYPE OF SITE	DRAINAGE AREA	BASIN DESCRIPTOR	QW BEGIN YEAR	QW END YEAR	SUSP SED CONCEN	SUSP PART SIZE	BED MAT PART SIZE	SUSP DISCHARGE	ORGANIZATION CODE	SED STOR MEDIA
01080202	MILLERS RIVER AT SOUTH ROYALSTON, MA	025	027	SW	187.00	014	1957	1978	A			A	USGS	D
01080202	EAST BRANCH TULLY RIVER NEAR ATHOL, MA	025	027	SW	50.40	014	1965	1978	A			A	USGS	D
01080202	MILLERS RIVER AT ERVING, MA	025	011	SW	375.00	014	1952	1978	A			A	USGS	D
01080203	BEAVER BROOK AT WILMINGTON, VT	050	025	SW	6.38	004	1967		E			E	USGS	D
01080203	DEERFIELD RIVER AT CHARLEMONT, MA	025	011	SW	362.00	014	1954	1978	A			A	USGS	D
01080203	NORTH RIVER AT SHATTUCKVILLE, MA	025	011	SW	88.40	004	1956	1978	A			A	USGS	D
01080203	SOUTH RIVER NEAR CONWAY, MA	025	011	SW	24.00	004	1967	1978	A			A	USGS	D
01080203	DEERFIELD RIVER NEAR WEST DEERFIELD, MA	025	011	SW	558.00	014	1952	1978	A			A	USGS	D
01080203	GREEN RIVER NEAR COLRAIN, MA	025	011	SW	41.40	004	1967	1978	A			A	USGS	D
01080204	QUABOAG R AT W BRIMFIELD, MA	025	013	SW	151.00	004	1952	1978	R			R	USGS	D
01080205	CONNECTICUT R AT THOMPSONVILLE, CT	009	003	SW	9661.00	124	1952		E	E		E	USGS	D
01080205	SCANTIC R AT BROAD BROOK, CT.	009	003	SW	98.20	004	1952		2	E		2	USGS	D
01080205	FARM RIVER, AT AUGUR ROAD, NEAR NORTHFORD, C	009	009	SW			1975		G			G	USGS	D
01080205	CONNECTICUT R CANAL LOCKS ENFIELD	009	003	SW			1964	1971	Q				CTOO1	P
01080206	W B WESTFIELD R AT HUNTINGTON, MA	025	015	SW	93.70	004	1956	1978	R			R	USGS	D
01080206	WESTFIELD R NR WESTFIELD, MA	025	013	SW	497.00	124	1952	1978	K			K	USGS	D
01080207	WINDSOR SITE WASTE EFFLUENT	009	003	SW			1959	1977			E		USERD	P
01080207	INFLOW	025	003	SW			1971		B				USCE	D
01090001	CHARLES RIVER AT WELLESLEY, MA	025	021	SW	211.00	124	1968		A			A	USGS	D
01090001	CHARLES RIVER AT WALTHAM, MA	025	017	SW	227.00	124	1952	1978	E			E	USGS	D
01090002	INDIAN HEAD RIVER AT HANOVER, MA	025	023	SW	30.30	014	1968	1978	E			E	USGS	D
01090002	JONES RIVER AT KINGSTON, MA	025	023	SW	15.80	014	1968	1978	E			E	USGS	D
01090002	EEL RIVER NEAR PLYMOUTH, MA	025	023	SW	14.70	004	1969	1971	E			E	USGS	D
01090002	WEWEANTIC RIVER AT SOUTH WAREHAM, MA	025	023	SW	56.10	014	1969	1971	E			E	USGS	D
01090004	TAUNTON RIVER AT STATE FARM, NR BRIDGEWATER,	025	023	SW	260.00	124	1952	1974	R			R	USGS	D
01090005	WOOD RIVER NEAR ARCADIA, RI	044	009	SW	35.20	004	1967	1978	R			R	USGS	D
01100001	QUINEBAUG R RT 197 BRIDGE THOMPSON	009	015	SW			1958	1971	Q				CTOO1	P
01100001	FRENCH R RT 12 BRIDGE GROSVENORDAL	009	015	SW			1958	1971	Q				CTOO1	
01100002	YANTIC R AT YANTIC, CT	009	011	SW	90.00	004	1910		O			O	USGS	D
01100002	THAMES R RT 2 BRIDGE NORWICH	009	011	SW			1958	1971	Q				CTOO1	P
01100002	WILLIMANTIC R RT 32 & RT 275	009	013	SW			1958	1971	Q				CTOO1	P
01100004	PATCHOGUE R AT WESTBROOK, CT.	009	007	OC			1971	1971	A			A	USGS	D
01100004	PATCHOGUE R AT GROVE BEACH, CT.	009	007	OC			1971	1972	A			A	USGS	D
01100004	MENUNKETESUCK R NR CLINTON, CT.	009	007	SW	11.20	004	1962	1971	A			A	USGS	D
01100004	MENUNKETESUCK RIVER AT GROVE BEACH, CT.	009	007	OC			1971	1972	A			A	USGS	D
01100004	INDIAN RIVER NR CLINTON, CT.	009	007	OC	5.64	004	1971	1971	A			A	USGS	D
01100004	INDIAN R AT CLINTON, CT.	009	007	OC			1971	1972	A			A	USGS	D
01100004	HAMMONASSET R NR CLINTON, CT.	009	007	OC			1971	1971	A			A	USGS	D
01100004	HAMMONASSET R AT CLINTON, CT.	009	007	OC			1971	1972	A			A	USGS	D
01100004	EAST R NR GUILFORD, CT.	009	009	OC			1971	1971	A			A	USGS	D

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01100004	EAST R NR GUILFORD, CT.	009	009	OC			1971	1972	A			A	USGS	D
01100004	NECK R NR MADISON, CT.	009	009	SW	6.55	004	1962	1972	A			A	USGS	D
01100004	WEST R NR GUILFORD, CT.	009	009	OC	12.60	124	1971	1971	A			A	USGS	D
01100004	WEST R AT GUILFORD, CT.	009	009	SW			1971	1972	E			E	USGS	D
01100004	FARM R, AT REEDS GAP ROAD EAST, NR NORTHFORD	009	009	SW			1975		G			G	USGS	D
01100004	PISTAPAUG POND OUTLET NEAR EAST WALLINGFORD,	009	009	SW			1975		G			G	USGS	D
01100004	TRIBUTARY TO FARM RIVER NEAR NORTHFORD, CT.	009	009	SW			1975		G			G	USGS	D
01100004	FARM RIVER NEAR NORTHFORD, CT	009	009	SW			1975		G			G	USGS	D
01100004	FARM RIVER AT NORTHFORD, CT	009	009	SW			1975		G			G	USGS	D
01100004	FARM RIVER NEAR TOTOKET, CT	009	009	SW			1975		G			G	USGS	D
01100004	TRIB TO FARM R, AT BARBERRY RD, AT TOTOKET,	009	009	SW			1975		G			G	USGS	D
01100004	TRIBUTARY TO FARM RIVER AT TOTOKET, CT.	009	009	SW			1975		G			G	USGS	D
01100004	BURRS BROOK AT TOTOKET, CT	009	009	SW			1975		G			G	USGS	D
01100004	FARM RIVER AT FOXON,CT	009	009	SW			1975		G			G	USGS	D
01100004	MALONEY BROOK AT FOXON,CT	009	009	SW			1975		G			G	USGS	D
01100004	FARM RIVER NEAR EAST HAVEN,CT	009	009	SW			1975		G			G	USGS	D
01100004	FARM RIVER AT EAST HAVEN,CT	009	009	OC			1975		G			A	USGS	D
01100005	HOUSATONIC R NR GREAT BARRINGTON, MA	025	003	SW	280.00	004	1956	1978	A			A	USGS	D
01100005	GREEN R NR GREAT BARRINGTON, MA	025	003	SW	51.00	004	1963	1972	S			S	USGS	D
01100005	HOUSATONIC R AT STEVENSON, CT	009	001	SW	1541.00	124	1909		Q	K		K	USGS	D
01100005	HOUSATONIC R AT STRATFORD, CT	009	001	ES	1941.00	013	1974				A		USGS	D
01100006	NORWALK R AT GEORGETOWN CT	009	001	SW	14.50	004	1964		Q			R	USGS	D
01100006	NORWALK RIVER AT CANNONDALE, CT	009	001	SW			1976		Q			K	USGS	D
01100006	COMSTOCK BK AT NORTH WILTON, CT.	009	001	SW	3.53	004	1964		A			A	USGS	D
01100006	NORWALK R AT SOUTH WILTON, CT.	009	001	SW	30.00	004	1962		E			E	USGS	D
01110000	CLYDE RIVER AT NEWPORT, VT	050	019	SW	142.00	014	1973		E	E			USGS	D

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	MID ATLANTIC REGION 02													
02010002	OTTER CREEK AT MIDDLEBURY, VT	050	001	SW	628.00	014	1953	1978	R			R	USGS	D
02010003	MAD RIVER NEAR MORETOWN, VT	050	023	SW	139.00	004	1954	1978	R			R	USGS	D
02010005	LAMOILLE R AT EAST GEORGIA, VT	050	011	SW	686.00	014	1954	1978	R			R	USGS	D
02010007	MISSISQUOI R NR E BERKSHIRE, VT	050	011	SW	479.00	004	1953	1978	R			R	USGS	D
02020003	HUDSON RIVER AT GLENS FALLS NY	036	113	SW	2810.00	014	1972		E			W	USGS	D
02020003	HUDSON RIVER AT FENIMORE NY	036	091	SW		014	1975	1975	A			A	USGS	D
02020003	HUDSON RIVER AT ROGERS ISLAND AT FORT EDWARD	036	115	SW		004	1975		A			A	USGS	D
02020003	HUDSON RIVER AT SCHUYLERVILLE NY	036	091	SW	3440.00	012	1976		A	A		A	USGS	D
02020003	KAYDEROSSERAS CREEK NR WEST MILTON N.Y.	036	091	SW	90.10	004	1949		A				USGS	P
02020003	HUDSON RIVER AT STILLWATER, N.Y.	036	091	SW	3773.00	014	1969		W			W	USGS	D
02020003	DRY BROOK NEAR ADAMS, MA	025	003	SW	7.53	004	1967	1969	E			E	USGS	D
02020003	HOOSIC RIVER AT ADAMS, MA	025	003	SW	46.30	014	1967	1978	E			E	USGS	D
02020003	N B HOOSIC R AT NORTH ADAMS, MA	025	003	SW	39.00	004	1967	1978	A			A	USGS	D
02020003	HOOSIC R NR WILLIAMSTOWN, MA	025	003	SW	132.00	014	1953	1978	A			A	USGS	D
02020003	GREEN RIVER AT WILLIAMSTOWN, MA	025	003	SW	42.60	004	1967	1978	A			A	USGS	D
02020003	HUDSON RIVER AT BRIDGE AT MECHANICVILLE NY	036	091	SW			1976		A	A		A	USGS	D
02020003	HUDSON RIVER AT WATERFORD NY RT 4 BRIDGE	036	091	SW	4620.00	014	1969		O	E		O	USGS	D
02020003	HUDSON RIVER AT GREEN ISLAND NY	036	001	SW	8090.00		1947		Q	Q		R	USGS	D
02020004	MOHAWK R AT REXFORD FLATS NY	036	091	SW	3375.00	004	1951	1959	W				USGS	
02020004	MOHAWK RIVER AT COHOES, N. Y.	036	001	SW	3456.00	124	1951		O	S		O	USGS	D
02020005	SCHOHARIE CREEK AT PRATTSVILLE, N.Y.	036	039	SW	236.00	004	1966	1977	A	A			USGS	D
02020005	SCHOHARIE CREEK AT GILBOA NY	036	095	SW	314.00		1971	1972	S			E	USGS	D
02020005	PLATTER KILL AT GILBOA N.Y.	036	095	SW	11.10		1971	1971	S	A		E	USGS	D
02020005	MINE KILL NEAR NORTH BLENHEIM NY	036	095	SW	16.30		1971	1971	S	A		E	USGS	D
02020005	SCHOHARIE CREEK AT NORTH BLENHEIM, N. Y.	036	095	SW	359.00	124	1970		S			E	USGS	D
02020005	WEST KILL AT NORTH BLENHEIM NY	036	095	SW	44.60		1975	1976	S	A		E	USGS	D
02020005	SCHOHARIE CREEK AT BREAKABEEN NY	036	095	SW	471.00		1971	1972	A	A		E	USGS	D
02020005	SCHOHARIE CREEK AT MIDDLEBURG NY	036	095	SW	532.00	024	1974	1976	A	A		E	USGS	D
02020006	MILL CREEK NR EAST GREENBUSH NY	036	083	SW	9.74		1974	1976	O	A		O	USGS	D
02020006	NORMANS KILL NEAR WESTMERE NY	036	001	SW	131.00	024	1970	1977	A				USGS	D
02020006	ESOPUS CREEK AT SHANDAKEN, NY	036	111	SW	59.50	004	1962		Q	N		K	USGS	D
02020006	ESOPUS CREEK AT COLDBROOK NY	036	111	SW	192.00	024	1962	1977	N			N	USGS	D
02030103	HACKENSACK R AT BROOKSIDE PK N Y	036	087	SW	13.20	003	1960	1962	A				USGS	
02030103	HACKENSACK R AT RIVERVALE NJ	034	003	SW	58.00	123	1959		E			E	USGS	D
02030103	PASSAIC R NR MILLINGTON NJ	034	035	SW	55.40	004	1923		E			E	USGS	D
02030103	PASSAIC R NR CHATHAM NJ	034	027	SW	100.00	004	1960		2	E		2	USGS	D
02030103	WHIPPANY R AT MORRISTOWN NJ	034	027	SW	29.40	014	1923		E			E	USGS	D
02030103	RAMAPO RIVER NEAR MAHWAH NJ	034	003	SW	118.00	004	1923		2	E		2	USGS	D
02030103	POMPTON R AT POMPTON PLAINS NJ	034	031	SW	355.00	123	1962	1975	A			A	USGS	D
02030103	PASSAIC R AT LITTLE FALLS NJ	034	031	SW	762.00	123	1952		2	E		2	USGS	D

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02030105	DRAKES BK AT BARTLEY NJ	034	027	SW	16.60	004	1963		E			E	USGS	D
02030105	SB RARITAN R NR HIGH BRIDGE NJ	034	019	SW	65.30	004	1923		E			E	USGS	D
02030105	SPRUCE RN AT CLINTON NJ	034	019	SW	41.30	014	1959		E	E			USGS	D
02030105	SB RARITAN R AT STANTON NJ	034	019	SW	147.00	124	1923		2	E		2	USGS	D
02030105	NB RARITAN R NR FAR HILLS NJ	034	035	SW	26.20	004	1923		E	E		E	USGS	D
02030105	NB RARITAN R AT BURNT MILLS NJ	034	035	SW			1963		K	R		K	USGS	D
02030105	SB ROCKAWAY C AT WHITEHOUSE NJ	034	019	SW	13.20	004	1963		Q	R		Q	USGS	D
02030105	ROCKAWAY C AT MILL RD AT WHITEHOUSE NJ	034	019	SW			1976		K			K	USGS	D
02030105	ROCKAWAY C AT WHITEHOUSE NJ	034	019	SW	37.10	004	1959		K	R		K	USGS	D
02030105	LAMINGTON (BLACK) R AT BURNT MILLS NJ	034	035	SW			1963		R	A		R	USGS	D
02030105	NB RARITAN R NR RARITAN NJ	034	035	SW	190.00	004	1923	1975	E	E		E	USGS	D
02030105	RARITAN R AT MANVILLE NJ	034	035	SW	490.00	124	1923		E	E		E	USGS	D
02030105	MILLSTONE R AT PLAINSBORO NJ	034	023	SW	65.80	024	1963	1975	N			N	USGS	D
02030105	WOODSVILLE BK AT WOODSVILLE NJ	034	021	SW	1.78	004	1970	1970	R			R	USGS	D
02030105	STONY BK TR 3 NR HOPEWELL NJ	034	021	SW	2.57	004	1970	1970	R			R	USGS	D
02030105	STONY BK AT GLENMOORE NJ	034	021	SW	17.00	004	1960	1970	A			A	USGS	D
02030105	BALDWIN C AT PENNINGTON NJ	034	021	SW	1.99	004	1960	1970	R			R	USGS	D
02030105	STONY BK AT PENNINGTON NJ	034	021	SW	26.70	004	1967	1969	R			R	USGS	D
02030105	HONEY B NR MOUNT ROSE NJ	034	021	SW	1.50	004	1968	1970	K			K	USGS	D
02030105	HONEY B TR NR PENNINGTON NJ	034	021	SW	.60	004	1968	1969	E	E			USGS	D
02030105	HONEY B NR ROSEDALE NJ	034	021	SW	3.83	004	1968	1970	K			K	USGS	D
02030105	STONY BK AT PRINCETON NJ	034	021	SW	44.50	004	1925	1975	2	E		2	USGS	D
02030105	MILLSTONE R AT BLACKWELLS MILLS NJ	034	035	SW	258.00	004	1923		E	E		E	USGS	D
02030105	ROYCE BK TR AT FRANKFORT NJ	034	035	SW	.29	004	1974	1975	K	E		K	USGS	D
02030105	ROYCE BK TR NR BELLE MEAD NJ	034	035	SW	1.20	004	1966	1975	N	E		N	USGS	D
02030105	RARITAN R BL CALCO DAM AT BOUND BROOK NJ	034	035	SW	785.00	004	1952	1974	B	B			USGS	D
02030105	RARITAN R AT QUEENS BRIDGE AT BOUND BROOK NJ	034	035	SW	804.00	023	1964		A	A		R	USGS	D
02030105	RARITAN R NR SOUTH BOUND BROOK NJ	034	035	SW	862.00	003	1943		Q	Q		K	USGS	D
02030105	RARITAN R AT PERTH AMBOY NJ	034	023	ES	1101.00	004	1966	1968	A				USGS	C
02030202	PECONIC RIVER AT RIVERHEAD NY	036	103	SW	75.00	014	1966		R	N		R	USGS	D
02030202	OAK BEACH INN NY	036	103	ES			1970		W	B	B		USCE	
02040103	LACKAWAXEN RIVER AT HAWLEY PA	042	127	SW	290.00	014	1969	1975	P	A			USGS	P
02040104	DELAWARE R AT PORT JERVIS NY	042	103	SW	3076.00	124	1956		O	K		O	USGS	D
02040104	SAWKILL CREEK AT MILFORD, PA.	042	103	SW			1972	1974	E	E		E	USGS	D
02040104	RAYMONDSKILL C. NR. SILVER SPRING, PA.	042	103	SW			1972	1973	R			R	USGS	D
02040104	DINGMANS C AT DINGMANS FERRY PA	042	103	SW	15.20	004	1964	1973	R	A		R	USGS	D
02040104	LITTLE BUSHKILL CREEK AT BUSHKILL, PA.	042	089	SW			1972	1973	R	A		R	USGS	D
02040104	FLAT BK NR FLATBROOKVILLE NJ	034	037	SW	65.10	004	1923		E			E	USGS	D
02040104	DELAWARE R NR DELAWARE WATER GAP, PA.	042	041	SW	3950.00	124	1964	1974	2	E		2	USGS	D
02040104	DELAWARE R AT DUNNFIELD NJ	034	041	SW	4150.00	124	1964		O	A		O	USGS	D

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02040105	HART BK NR PENNINGTON NJ	034	021	SW	.80	004	1968	1970	A			A	USGS	D
02040105	MUSCONETCONG R NR BLOOMSBURY NJ	034	041	SW	143.00	014	1923		E	E		E	USGS	D
02040105	TOHICKON CREEK NEAR PIPERSVILLE, PA.	042	017	SW	97.40	004	1926		P	A			USGS	P
02040105	DELAWARE R AT TRENTON NJ	034	021	SW	6780.00	123	1943		O	R		O	USGS	D
02040105	ASSUNPINK C AT TRENTON NJ	034	021	SW	89.40	024	1923		A			A	USGS	D
02040106	LEHIGH RIVER AT WALNUTPORT, PA.	042	095	SW	889.00	014	1948	1968	2			2	USGS	D
02040106	LITTLE LEHIGH CREEK NEAR ALLENTOWN, PA.	042	077	SW	80.80	004	1962		E			E	USGS	D
02040106	JORDAN CR NR PLEASANT CORNERS, PA.	042	077	SW		004	1972	1975	E			E	USGS	D
02040106	SWITZER CREEK NR PLEASANT CORNERS, PA.	042	077	SW	8.43	004	1967	1975	E			E	USGS	D
02040106	LYON CREEK AT LYON VALLEY, PA.	042	077	SW			1972	1975	E			E	USGS	D
02040106	MILL CR NR SCHNECKSVILLE, PA.	042	077	SW		004	1972	1975	E			E	USGS	D
02040106	JORDAN CREEK NEAR SCHNECKSVILLE, PA	042	077	SW	53.00	004	1966	1975	E			E	USGS	D
02040106	JORDAN CREEK AT ALLENTOWN, PA.	042	077	SW	75.80	004	1962		E	E		E	USGS	D
02040106	TULPEHOCKEN CR AT BERNVILLE, PA.	042	011	SW		004	1972		E			E	USGS	D
02040201	CROSSWICKS C AT EXTONVILLE	034	021	SW	83.60	014	1957		2	E		2	USGS	D
02040202	POQUESSING CREEK AT TREVOSE ROAD, PHILA., PA	042	017	SW	5.08	003	1967	1973	E			E	USGS	D
02040202	POQUESSING CR ABOVE BYBERRY CR AT PHILA., PA	042	101	SW	13.20	003	1967	1970	E			E	USGS	D
02040202	WALTON RUN AT PHILADELPHIA, PA.	042	101	SW	2.17	003	1967	1970	E			E	USGS	D
02040202	BYBERRY CREEK AT CHALFONT ROAD, PHILA., PA.	042	101	SW	5.34	003	1967	1973	E			E	USGS	D
02040202	BYBERRY CREEK AT GRANT AVE., PHILA., PA.	042	101	SW	7.13	003	1964	1970	Q	E		Q	USGS	D
02040202	MCDONALDS B IN LEBANON STATE FOREST NJ	034	005	SW	2.31	004	1958		K			K	USGS	D
02040202	MILL CREEK NEAR WILLINGBORO NJ	034	005	SW			1975		R			R	USGS	D
02040202	MILL C AT WILLINGBORO NJ	034	005	SW	8.00	004	1959		R			R	USGS	D
02040202	MILL CREEK AT LEVITT PKY AT WILLINGBORO NJ	034	005	SW			1975		R			R	USGS	D
02040202	PENNYPACK CREEK AT PINE RD., PHILADELPHIA, P	042	101	SW	37.90	003	1967	1973	E			E	USGS	D
02040202	PENNYPACK CREEK BELOW VEREE ROAD AT PHILA.,	042	101	SW	42.80	003	1940	1970	E			E	USGS	D
02040202	WOODEN BRIDGE RUN AT PHILA., PA.	042	101	SW	3.35	003	1968	1972	E			E	USGS	D
02040202	SB PENNSAUKEN C AT CHERRY HILL NJ	034	007	SW	9.16		1967		E			E	USGS	D
02040202	TACONY CREEK AT COUNTY LINE, PHILADELPHIA, P	042	101	SW	16.70	003	1967	1973	E			E	USGS	D
02040202	FRANKFORD CREEK AT TORRESDALE AVE., PHILA.,	042	101	SW			1967	1974	E			E	USGS	D
02040202	COOPER R AT HADDONFIELD NJ	034	007	SW	17.10	003	1925		2	E		2	USGS	D
02040202	SB BIG TIMBER C AT BLACKWOOD NJ	034	007	SW	19.00	003	1964	1972	K			K	USGS	D
02040202	SCHUYLKILL RIVER AT PHILADELPHIA, PA.	042	101	SW	1893.00	124	1925		2			2	USGS	D
02040202	MANTUA C AT SEWELL NJ	034	015	SW	14.70	004	1970	1972	K	A		K	USGS	D
02040202	DARBY CREEK AT WATERLOO MILLS NEAR DEVON, PA	042	029	SW	5.15	003	1972		A				USGS	C
02040202	DARBY CREEK NEAR DARBY, PA.	042	045	SW	37.40	003	1967	1972	E			E	USGS	D
02040202	COBBS CR AT U.S. HGHWY NO. 1 AT PHILA., PA.	042	101	SW	4.78	003	1964	1973	3	E		3	USGS	D
02040202	COBBS CR BLW INDIAN CR NR UPPER DARBY, PA.	042	101	SW	10.60	003	1967	1973	E			E	USGS	D
02040202	COBBS CREEK AT DARBY, PA.	042	045	SW	22.00	003	1967	1973	E			E	USGS	D
02040202	EAST BRANCH CRUM CREEK NEAR PAOLI, PA.	042	029	SW	5.30	003	1973		A				USGS	C

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02040202	WEST BRANCH CRUM CREEK NEAR PAOLI, PA.	042	029	SW	10.30	003	1973		A				USGS	C
02040202	RIDLEY CREEK NEAR GOSHENVILLE, PA.	042	029	SW	4.50	003	1973		A				USGS	C
02040202	RIDLEY CREEK NEAR DUTTON MILL, PA.	042	029	SW	9.70	003	1973		A				USGS	C
02040202	CHESTER CREEK NEAR WEST CHESTER, PA.	042	029	SW	2.00	003	1973		A				USGS	C
02040202	CHESTER CREEK NEAR MILLTOWN, PA.	042	029	SW	6.00	003	1973		A				USGS	C
02040202	CHESTER CREEK AT WESTTOWN SCHOOL, PA.	042	029	SW	10.10	003	1973		A				USGS	C
02040202	GOOSE CREEK NEAR WEST CHESTER, PA.	042	029	SW	4.30	003	1973		A				USGS	C
02040202	RACCOON C NR SWEDESBORO NJ	034	015	SW	29.90	004	1965		2	E		2	USGS	D
02040202	SB MILL CK AT RANCOCAS NJ	034	005	SW			1975		A	A		A	USGS	D
02040202	MILL CK TR NO 2 AT RANCOCAS NJ	034	005	SW			1975		A	A		A	USGS	D
02040202	MILL C TR 2 AT WOODLANE RD AT WILLINGBORO NJ	034	005	SW			1975		R			R	USGS	D
02040202	SB MILL CK AT LEVITT PARKWAY AT WILLINGBORO	034	005	SW			1975		R			R	USGS	D
02040202	MILL CK AT WILLINGBORO PARKWAY AT WILLINGBOR	034	005	SW			1975		R			R	USGS	D
02040202	MILL CK TRIB AT NORTHAMPTON DR AT WILLINGBOR	034	005	SW			1975		R			R	USGS	D
02040203	SCHUYLKILL RIVER AT PORT CARBON, PA.	042	107	SW	27.10	004	1949	1978	0	A		0	USGS	D
02040203	SCHUYLKILL RIVER AT POTTSVILLE, PA.	042	107	SW	53.40	004	1947		4	A		4	USGS	D
02040203	WEST BR SCHUYLKILL R AT CRESSONA, PA.	042	107	SW	52.50	004	1925		4	A		4	PA001	D
02040203	SCHUYLKILL R AT LANDINGVILLE, PA.	042	107	SW	133.00	014	1947	1975	4	A		4	USGS	D
02040203	SCHUYLKILL RIVER AT AUBURN, PA.	042	107	SW	160.00	004	1946	1975	4	A		4	USGS	D
02040203	LITTLE SCHUYLKILL RIVER AT SOUTH TAMAQUA, PA	042	107	SW	65.70	004	1948	1975	4	A		4	USGS	D
02040203	LITTLE SCHUYLKILL RIVER AT DREHERSVILLE, PA.	042	107	SW	122.00	014	1946	1975	4	A		4	USGS	D
02040203	SCHUYLKILL RIVER AT BERNE, PA.	042	011	SW	355.00	004	1946		0	S		0	USGS	D
02040203	SACONY CR AT SALLY ANN FURNACE, NR BOWERS, P	042	011	SW			1974	1975	K			K	USGS	D
02040203	LITTLE SACONY CREEK NEAR BOWERS, PA.	042	011	SW			1974	1975	K			K	USGS	D
02040203	SACONY CREEK ABOVE BOWERS, PA.	042	011	SW	5.70	004	1974		0			0	USGS	D
02040203	SACONY CREEK BELOW BOWERS, PA.	042	011	SW			1967	1975	K			K	USGS	D
02040203	SACONY CREEK TRIB NEAR BOWERS, PA.	042	011	SW			1974	1975	K			K	USGS	D
02040203	SACONY CREEK ABOVE KUTZTOWN, PA.	042	011	SW			1974	1975	K			K	USGS	D
02040203	SACONY CREEK AT NORMAL AVE. AT KUTZTOWN, PA.	042	011	SW	20.40	004	1974	1975	K			K	USGS	D
02040203	SACONY CREEK AT KUTZTOWN, PA.	042	011	SW			1974	1975	K			K	USGS	D
02040203	SACONY CREEK BELOW KUTZTOWN, PA.	042	011	SW			1974	1975	K			K	USGS	D
02040203	SACONY CR AT GREENWICH BRIDGE, NR KUTZTOWN,	042	011	SW			1974	1975	K			K	USGS	D
02040203	MAIDEN CREEK NEAR EAST BERKLEY, PA.	042	011	SW	192.00	004	1962	1965	P				USGS	D
02040203	NORTHKILL CR AT BERNVILLE, PA.	042	011	SW	42.00	004	1972		E			E	USGS	D
02040203	NORTHKILL CR AT BERNVILLE, PA.	042	011	SW		004	1973	1973	M		A		USGS	
02040203	TULPEHOCKEN CR, BL MARSH DAMSITE NR READING,	042	011	SW	175.00	004	1967		0			0	USGS	D
02040203	TULPEHOCKEN CREEK NEAR READING, PA.	042	011	SW	211.00	004	1925		4			4	USGS	D
02040203	SCHUYLKILL RIVER AT POTTSTOWN, PA.	042	091	SW	1147.00	004	1943		2			2	USGS	D
02040203	PIGEON CREEK NEAR BUCKTOWN, PA.	042	029	SW	3.90	004	1973		A				USGS	C
02040203	PIGEON CREEK NEAR PORTERS MILL, PA.	042	029	SW	7.70	004	1973		A				USGS	C

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02040203	PIGEON CREEK NEAR PARKER FORD, PA.	042	029	SW	11.80	004	1973		A				USGS	C
02040203	STONY RUN NEAR SPRING CITY, PA.	042	029	SW	2.10	004	1973		A				USGS	C
02040203	STONY RUN AT SPRING CITY, PA.	042	029	SW	3.90	004	1973		A				USGS	C
02040203	FRENCH CREEK NEAR TRYTHALL, PA.	042	029	SW	4.50	004	1973		A				USGS	C
02040203	FRENCH CREEK NEAR KNAURERTOWN, PA.	042	029	SW	11.70	004	1973		A				USGS	C
02040203	FRENCH CREEK NEAR COVENTRYVILLE, PA.	042	029	SW	23.60	004	1973		A				USGS	C
02040203	FRENCH C NR COVENTRYVILLE, PA	042	029	SW	12.30	004	1969		A				USGS	C
02040203	FRENCH CREEK NEAR PUGHTOWN, PA.	042	029	SW	47.70	004	1973		A				USGS	C
02040203	FRENCH CREEK NEAR PHOENIXVILLE, PA.	042	029	SW	59.10	004	1950		E			E	USGS	D
02040203	FRENCH CREEK AT PHOENIXVILLE, PA.	042	029	SW	71.00	003	1973		A				USGS	C
02040203	PICKERING CREEK NEAR EAGLE, PA.	042	029	SW	3.00	004	1973		A				USGS	C
02040203	PICKERING CREEK NEAR CHESTER SPRINGS, PA.	042	029	SW	5.98	004	1967		E			E	USGS	D
02040203	UNNAMED TRIB TO PICKERING CR NR CHESTER SPS,	042	029	SW	1.12	004	1967	1968	R			R	USGS	D
02040203	PICKERING CR TRIB AT CHESTER SPRINGS, PA.	042	029	SW	4.33	004	1968	1968	P				USGS	D
02040203	PINE CR AT SHARP FARM NR LIONVILLE, PA.	042	029	SW		004	1968	1968	R			R	USGS	D
02040203	PINE CREEK AT CHESTER SPRINGS, PA.	042	029	SW	5.06	004	1967	1968	A			A	USGS	D
02040203	PICKERING CREEK TRIB NR KIMBERTON, PA.	042	029	SW	3.06	004	1968		P				PA001	D
02040203	PIGEON RUN AT RAPPS CORNER, PA	042	029	SW	1.06	004	1973	1973	A				USGS	C
02040203	ROCK RUN AT CHARLESTOWN, PA	042	001	SW	26.00	004	1968	1968	A				USGS	C
02040203	ROCK RUN AT CHARLESTOWN, PA.	042	029	SW	2.57	004	1967	1968	K			K	USGS	D
02040203	PICKERING CREEK NEAR PHOENIXVILLE, PA.	042	029	SW	31.40	004	1973		P				USGS	D
02040203	INDIAN CREEK NR ZIONSVILLE, PA.	042	077	SW	3.82	004	1967	1967	P				USGS	D
02040203	PERKIOMEN CREEK AT GRATERFORD, PA.	042	091	SW	279.00	014	1948		2	E		2	USGS	D
02040203	SKIPPACK CREEK NEAR COLLEGEVILLE, PA.	042	091	SW	53.70	004	1969	1973	2	N		2	USGS	D
02040203	LITTLE VALLEY CR NR VALLEY FORGE, PA.	042	029	SW	7.10	003	1973		A				USGS	C
02040203	VALLEY CREEK NR VALLEY FORGE, PA.	042	029	SW	12.10	003	1973		A				USGS	C
02040203	SCHUYLKILL RIVER AT MANAYUNK, PHILA., PA.	042	101	SW	1830.00	003	1946	1978	O	R		O	USGS	D
02040203	WISSAHICKON CR AT FORT WASHINGTON, PA.	042	091	SW	40.80	004	1962	1969	2	E		2	USGS	D
02040203	WISSAHICKON CR AT LIVEZEY LANE, PHILA., PA.	042	101	SW	59.20	004	1967	1970	E			E	USGS	D
02040203	WEST BRANCH BRANDYWINE CREEK AT WAWASET, PA.	042	029	SW	134.00	004	1945		P		A		PA001	D
02040203	EAST BR BRANDYWINE CR AT GLENMOORE, PA.	042	029	SW	16.50	004	1974	1975	P				USGS	D
02040203	INDIAN RUN AT GLENMOORE, PA.	042	029	SW	6.29	004	1966	1968	S			S	USGS	D
02040203	CULBERTSON RUN AT LYNDELL, PA.	042	029	SW	3.92	004	1967	1968	S			S	USGS	D
02040205	WHITE CLAY CREEK NEAR AVONDALE, PA.	042	029	SW	10.30	003	1973		A				USGS	C
02040205	WHITE CLAY CREEK NEAR WICKERTON, PA.	042	029	SW	10.00	004	1973		A				USGS	C
02040205	W BR WHITE CLAY CR NR CHESTERVILLE, PA.	042	029	SW	10.00	004	1973		A				USGS	C
02040205	WHITE CLAY C AB NEWARK, DE	010	003	SW	66.70	004	1955		E	E		E	USGS	D
02040205	RED CLAY CREEK NEAR KENNETT SQUARE, PA.	042	029	SW	10.00	003	1973		A				USGS	C
02040205	RED CLAY CREEK NEAR FIVE POINT, PA.	042	029	SW	10.20	003	1973		A				USGS	C
02040205	RED CLAY C AT WOODDALE, DE	010	003	SW	47.00		1953		2			2	USGS	D

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02040205	WEST BR BRANDYWINE CREEK NEAR HONEY BROOK, P	042	029	SW	18.70	004	1965	1972	P	A	A		USGS	D
02040205	W BR BRANDYWINE CR NR COATESVILLE, PA.	042	029	SW	35.50	003	1973		A				USGS	C
02040205	BUCK RUN NEAR DOE RUN, PA.	042	029	SW	44.10	004	1973		A				USGS	C
02040205	DOE RUN NEAR SPRINGDALE, PA.	042	029	SW	12.70	004	1973		A				USGS	C
02040205	WB BRANDYWINE C 2.7 MILES SW OF WESTCHESTER,	042	029	SW	135.00	004	1969		A				USGS	C
02040205	E BR BRANDYWINE CR NR STRUBLE DAM, PA.	042	029	SW	4.30	014	1973		A				USGS	C
02040205	EAST BRANCH BRANDYWINE CREEK NEAR CUPOLA, PA	042	029	SW	5.80	004	1973		A				USGS	C
02040205	EAST BR BRANDYWINE CR AT CUPOLA, PA.	042	029	SW	6.20	004	1967	1968	K			K	USGS	D
02040205	EAST BR BRANDYWINE TRIB NR CUPOLA, PA.	042	029	SW	3.70	004	1966	1968	P				USGS	D
02040205	EB BRANDYWINE C NR GLENMOORE PA	042	029	SW	16.50	004	1969		A				USGS	C
02040205	EAST BR. BRANDYWINE CREEK NEAR GLENMOORE, PA	042	029	SW	4.10	004	1966		P				USGS	D
02040205	INDIAN RUN NEAR SPRINGTON, PA.	042	029	SW	4.10	004	1967		E			E	USGS	D
02040205	EAST BR BRANDYWINE CR AT LYNDELL, PA.	042	029	SW	27.10	004	1966	1974	E			E	USGS	D
02040205	EAST BR BRANDYWINE CR NR DORLAN, PA.	042	029	SW	33.40	004	1966	1968	R			R	USGS	D
02040205	MARSH CREEK NR LYNDELL, PA.	042	029	SW	17.80	004	1965	1967	P				USGS	D
02040205	EAST BR BRANDYWINE CR NR DOWNINGTOWN, PA.	042	029	SW	60.60	004	1954		P				USGS	D
02040205	EAST BR BRANDYWINE CR AT DOWNINGTOWN, PA.	042	029	SW	81.60	024	1965	1966	P				USGS	D
02040205	VALLEY CREEK AT MULLSTEINS MEADOWS, PA.	042	029	SW	20.40	004	1973		A				USGS	C
02040205	EAST BRANCH BRANDYWINE CREEK AT WAWASET, PA.	042	029	SW	124.00	004	1925		A				USGS	C
02040205	BRANDYWINE CREEK AT CHADDS FORD, PA.	042	029	SW	287.00	004	1948		O	E		O	USGS	D
02040205	BRANDYWINE C AT WILMINGTON, DE	010	003	SW	314.00		1946		O	E		O	USGS	D
02040205	ELK CREEK NEAR OXFORD, PA.	042	029	SW	10.40	004	1973		A				USGS	C
02040206	MAURICE R AT NORMA NJ	034	033	SW	113.00	004	1923		2	E		2	USGS	D
02040301	MANASQUAN R NR GEORGIA NJ	034	025	SW	10.60	004	1970		E	E		E	USGS	D
02040301	DEBOIS C AT ADELPHIA NJ	034	025	SW	7.21	004	1970	1973	K			K	USGS	D
02040301	DEBOIS C AT WYCKOFF MILLS NJ	034	025	SW	7.67	003	1970	1974	N			N	USGS	D
02040301	MANASQUAN R AT WEST FARMS NJ	034	025	SW	33.50	004	1959	1974	N			N	USGS	D
02040301	MANASQUAN R TR NR FARMINGDALE NJ	034	025	SW	3.00	003	1971	1974	E			E	USGS	D
02040301	MANASQUAN R AT SQUANKUM NJ	034	025	SW	43.40	004	1959		E	E		E	USGS	D
02040301	MINGAMAHONE BK AT FARMINGDALE NJ	034	025	SW	6.22	004	1970	1974	N			N	USGS	D
02040301	TOMS R NR TOMS RIVER NJ	034	029	SW	124:00	124	1960		Q	Q		K	USGS	D
02040301	MULLICA R NR BATSTO NJ	034	001	SW	46.10	004	1925	1974	E			E	USGS	D
02040302	GREAT EGG HARBOR R NR SICKLERVILLE NJ	034	007	SW	15.10	003	1971		R			E	USGS	D
02040302	GREAT EGG HARBOR R TR AT SICKLERVILLE NJ	034	007	SW	1.64	003	1972		O	E		O	USGS	D
02040302	FOURMILE B AT NEW BROOKLYN NJ	034	007	SW	7.74	003	1972		O			O	USGS	D
02040302	GREAT EGG HARBOR R NR BLUE ANCHOR NJ	034	007	SW	37.30	003	1972		E			E	USGS	D
02040302	GREAT EGG HARBOR R AT FOLSOM NJ	034	001	SW	56.30	004	1925		2			2	USGS	D
02050101	SUSQUEHANNA RIVER AT UNADILLA, N.Y.	036	077	SW	982.00	004	1954	1975	E				USGS	D
02050101	UNADILLA RIVER NEAR NEW BERLIN, N.Y.	036	017	SW	199.00	004	1965	1968	W				USGS	D
02050101	UNADILLA RIVER AT ROCKDALE, N. Y.	036	017	SW	520.00	014	1954	1971	A	A			USGS	D

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02050101	SUSQUEHANNA R NR. GREAT BEND, PA.	042	115	SW	2086.00	014	1969		E			E	USGS	D
02050101	SUSQUEHANNA RIVER AT CONKLIN, N.Y.	036	007	SW	2232.00	014	1953	1975	E	E			USGS	C
02050102	CHENANGO RIVER AT GREENE, N. Y.	036	017	SW	593.00	004	1953	1971	A				USGS	D
02050102	GRIDLEY CREEK ABOVE EAST VIRGIL NY	036	023	SW	10.40	004	1974		E			E	USGS	D
02050103	OWEGO CREEK NEAR OWEGO, N. Y.	036	107	SW	185.00	004	1953	1972	A				USGS	C
02050103	SUSQUEHANNA RIVER NEAR WAVERLY, N.Y.	042	015	SW	4773.00	124	1962	1972	A			A	USGS	D
02050103	SUSQUEHANNA R AT SAYRE, PA.	042	015	SW			1974		2	E		2	PA001	D
02050104	TIOGA RIVER ABOVE MORRIS RUN, PA.	042	117	SW			1975	1977	H			S	PA001	D
02050104	MORRIS RUN NEAR BLOSSBURG, PA.	042	117	SW			1975	1977	H			E	PA001	D
02050104	COAL CREEK AT BLOSSBURG, PA.	042	117	SW			1975	1977	H				PA001	D
02050104	BEAR CREEK AT BLOSSBURG, PA.	042	117	SW			1975	1977	H				PA001	D
02050104	TIOGA RIVER AT BLOSSBURG, PA.	042	117	SW			1975	1977	H			N	PA001	D
02050104	TIOGA RIVER NEAR MANSFIELD, PA.	042	117	SW			1975		N			N	USGS	D
02050104	COREY CREEK NEAR MAINESBURG, PA.	042	117	SW	12.20	004	1954	1975	2	Q		2	USGS	D
02050104	TIOGA RIVER AT LAMBS CREEK, PA.	042	117	SW			1973		Q			N	USGS	D
02050104	ELK RUN NEAR MAINESBURG, PA.	042	117	SW	10.20	004	1953	1975	2	Q		2	USGS	D
02050104	MILL CR NR TIOGA, PA.	042	117	SW	76.80	004	1973		Q			K	USGS	D
02050104	TIOGA RIVER AT TIOGA, PA.	042	117	SW	282.00	004	1965		M			E	USGS	D
02050104	CROOKED CREEK AT MIDDLEBURY CENTER, PA.	042	117	SW			1973		Q			R	USGS	D
02050104	CROOKED CREEK AT TIOGA, PA.	042	117	SW	122.00	004	1965	1975	M			N	USGS	D
02050104	CROOKED CR AT TIOGA, PA.	042	117	SW			1975		Q			N	USGS	D
02050104	TIOGA RIVER AT TIOGA JUNCTION, PA.	042	117	SW	446.00	004	1969		M			E	USGS	D
02050104	COWANESQUE RIVER AT WESTFIELD, PA.	042	117	SW			1973	1975	E			E	USGS	D
02050104	MILL CREEK AT WESTFIELD, PA.	042	117	SW			1973	1974	N			N	USGS	D
02050104	COWANESQUE RIVER AT COWANESQUE, PA.	042	117	SW			1973	1974	N			N	USGS	D
02050104	TROUPS CREEK AT KNOXVILLE, PA.	042	117	SW	66.50	004	1973	1974	N			N	USGS	D
02050104	COWANESQUE RIVER AT NELSON, PA.	042	117	SW	266.00	004	1973		K			R	USGS	D
02050104	COWANESQUE RIVER NR. LAWRENCEVILLE, PA.	042	117	SW	298.00	004	1969		E			E	USGS	D
02050104	TIOGA RIVER AT LINDLEY NY	036	101	SW	771.00	004	1964		O	E		O	USGS	D
02050104	CANISTEO RIVER BELOW CANACADEA C AT HORNELL	036	101	SW	158.00	004	1953	1975	A			A	USGS	D
02050104	CANISTEO RIVER AT WEST CAMERON, N. Y.	036	101	SW	340.00		1955	1957	W				USGS	D
02050104	CANISTEO RIVER AT ADDISDN NY	036	101	SW			1972	1972	A			A	USGS	D
02050104	TIOGA RIVER NEAR ERWINS, N. Y.	036	101	SW	1377.00	004	1975	1975	A	A		A	USGS	D
02050105	COHOCTON RIVER NEAR CAMPBELL, N. Y.	036	101	SW	470.00	024	1953	1972	A				USGS	D
02050105	CHEMUNG RIVER AT CORNING NY	036	101	SW	2006.00	124	1973	1975	A	A		A	USGS	D
02050105	CHEMUNG RIVER AT BIG FLATS NY	036	015	SW		004	1966	1975	A	A		A	USGS	D
02050105	CHEMUNG RIVER AT CHEMUNG NY	036	015	SW	2506.00	124	1952	1977	O	E		D	USGS	D
02050106	SUSQUEHANNA RIVER AT TOWANDA, PA.	042	015	SW	7797.00	004	1935		3			3	USGS	D
02050106	TOWANDA CREEK NEAR MONROETOWN, PA.	042	015	SW	215.00	004	1966	1968	K			K	USGS	D
02050106	TUNKHANNOCK CREEK NEAR TUNKHANNOCK, PA.	042	131	SW	383.00	004	1963		2			2	USGS	D

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02050107	LACKAWANNA RIVER AT OLD FORGE, PA.	042	069	SW	332.00	014	1928		P	A			USGS	D
02050107	SUSQUEHANNA RIVER NEAR HUNLOCK CREEK, PA.	042	079	SW	10140.00	004	1955		E			E	USGS	D
02050107	FISHING CREEK NEAR BLOOMSBURG, PA.	042	037	SW	274.00	004	1965	1969	2	K		2	USGS	D
02050107	APPLEMANS RUN ABOVE LIGHT STREET, PA.	042	037	SW	1.72	003	1970	1973	2	E		2	USGS	D
02050107	APPLEMANS RUN BELOW LIGHT STREET, PA.	042	037	SW	1.99	003	1970	1973	2	E		2	USGS	D
02050107	SUSQUEHANNA RIVER AT DANVILLE, PA.	042	093	SW	11220.00	004	1944		0	M		0	USGS	D
02050201	WEST BRANCH SUSQUEHANNA RIVER AT BOWER, PA.	042	033	SW	315.00	004	1930		2	Q		2	USGS	D
02050202	DRIFTWOOD BR SINNEMAHONING CR, STERLING RUN,	042	023	SW	272.00	004	1928		3			3	USGS	D
02050202	SINNEMAHONING CREEK AT SINNEMAHONING, PA.	042	023	SW	685.00	004	1944		P				USGS	D
02050202	F FORK SINNEMAHONING CR NR SINNEMAHONING, PA	042	023	SW	245.00	014	1970	1975	2			2	USGS	D
02050203	GERMANIA BRANCH AT GERMANIA, PA.	042	105	SW	2.40	004	1966	1969	P				USGS	D
02050203	KETTLE CREEK AT CROSS FORK, PA.	042	105	SW	136.00	004	1966	1968	Q			Q	USGS	D
02050203	WEST BR SUSQUEHANNA RIVER AT RENOVO, PA.	042	035	SW	2975.00	014	1950		2	E		2	USGS	D
02050203	YOUNG WOMANS CREEK NEAR RENOVO, PA.	042	035	SW	46.20	004	1965		E	E		E	USGS	D
02050204	SPRING CREEK NEAR AXEMANN, PA.	042	027	SW	87.20	004	1925		4	E		4	USGS	D
02050204	BALD EAGLE CR BLW SPRING CR AT MILESBURG, PA	042	027	SW	265.00	004	1954	1975	2	Q		2	USGS	D
02050204	BALD EAGLE CREEK AT BLANCHARD, PA.	042	027	SW	339.00	014	1954		2	Q		2	USGS	D
02050204	MARSH CREEK AT BLANCHARD, PA.	042	027	SW	44.10	004	1954	1975	2	A	A	2	USGS	D
02050205	PINE CREEK AT CEDAR RUN, PA.	042	081	SW	604.00	004	1935		2	E		2	USGS	D
02050205	BLOCKHOUSE CR TRIB AT LIBERTY, PA.	042	117	SW	1.08	004	1971		0	E		0	USGS	D
02050205	BLOCKHOUSE CR AT BUTTONWOOD, PA.	042	081	SW	22.30	004	1971		0	E		0	USGS	D
02050205	STEAM VALLEY RUN AT BUTTONWOOD, PA.	042	081	SW	5.34	004	1971		0	E		0	USGS	D
02050205	BLOCKHOUSE CREEK NEAR ENGLISH CENTER, PA.	042	081	SW	37.70	004	1963		0	Q		0	USGS	D
02050206	LYCOMING CREEK NEAR TROUT RUN, PA.	042	081	SW	173.00	004	1963		E			E	USGS	D
02050206	LOYALSOCK CR AT LOYALSOCKVILLE, PA.	042	081	SW	443.00	004	1928		E			E	USGS	D
02050206	WEST BR SUSQUEHANNA R. AT WATSONTOWN, PA.	042	097	SW		003	1971	1975	2	Q		2	USGS	D
02050206	WARRIOR RUN AT MCEWENSVILLE, PA.	042	097	SW	20.10	004	1970	1971	2	R		2	USGS	D
02050206	WEST BRANCH SUSQUEHANNA RIVER AT LEWISBURG,	042	119	SW	6847.00	014	1943		0	H		0	USGS	D
02050301	SUSQUEHANNA RIVER AT SUNBURY, PA.	042	109	SW	18300.00	004	1967		E			E	USGS	D
02050301	SHAMOKIN CR NR SHAMOKIN (SHAMOKIN A), PA.	042	097	SW	54.20	004	1957		P	Q			USGS	D
02050301	PENNS CREEK AT PENNS CREEK, PA.	042	119	SW	301.00	004	1964	1972	2			2	USGS	D
02050301	EAST MAHANTANGO CREEK NEAR DALMATIA, PA.	042	097	SW	162.00	004	1949		2			2	USGS	D
02050301	SWATARA CREEK AT HARPER TAVERN, PA.	042	075	SW	337.00	004	1957		2			2	USGS	D
02050301	WICONISCO C AT MILLERSBURG	042	043	SW			1962		Q				PA001	P
02050301	MAHANTANGO C NR DALMATIA	042	043	SW			1962		Q				PA001	P
02050301	MIDDLE C NR SELINSGROVE	042	109	SW			1962		Q				PA001	P
02050301	PENNS C NR SELINSGROVE	042	109	SW			1962		Q				PA001	P
02050302	JUNIATA RIVER AT HUNTINGDON, PA.	042	061	SW	816.00	004	1926		2			2	USGS	D
02050303	DUNNING CREEK AT BELDEN, PA.	042	009	SW	172.00	004	1950	1973	E			E	USGS	D
02050303	RAYSTOWN BRANCH JUNIATA RIVER AT SAXTON, PA.	042	009	SW	756.00	004	1950		2			2	USGS	D

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02050303	RAYSTOWN BR JUNIATA RIVER AT ARDENHEIM, PA.	042	061	SW			1972	1974	A			A	USGS	D
02050304	AUGHWICK CREEK NEAR THREE SPRINGS, PA.	042	061	SW	205.00	004	1950	1973	E			E	USGS	D
02050304	KISHACOQUILLAS CREEK AT REEDSVILLE, PA.	042	087	SW	164.00	004	1963		E			E	PA001	D
02050304	JUNIATA RIVER AT NEWPORT, PA.	042	099	SW	3354.00	014	1926		O	E		O	USGS	D
02050305	BIXLER RUN NR LOYSVILLE, PA.	042	099	SW	15.00	004	1954	1971	2	A		2	USGS	D
02050305	SHERMAN CREEK AT SHERMANS DALE, PA.	042	099	SW	200.00	004	1952	1975	A	E		A	USGS	D
02050305	CONODOGUINET CR AT WLOW ML BG NR HOGESTOWN,	042	041	SW			1973	1974	2	R		2	USGS	D
02050305	CONODOGUINET CREEK NR HOGESTOWN, PA.	042	041	SW	470.00	004	1970	1974	E			E	USGS	D
02050305	CONODOGUINET CREEK TRIB NO. 1 NR ENOLA, PA.	042	041	SW	.77	004	1969	1976	O	E		O	USGS	D
02050305	CONODOGUINET CR. TRIB. NO. 2 NR. ENOLA, PA.	042	041	SW	.76	003	1969	1976	O	E		O	USGS	D
02050305	CONODOGUINET CR. TRIB. NO. 2A NR. ENOLA, PA.	042	041	SW	.70	003	1969	1976	O	E		O	USGS	D
02050305	CONODOGUINET CR. TRIB. NO. 2B NR. ENOLA, PA.	042	041	SW	.65	003	1969	1976	O	E		O	USGS	D
02050305	CONODOGUINET CREEK TRIB NO. 3 NR ENOLA, PA.	042	041	SW	.38	004	1969	1976	O	E		O	USGS	D
02050305	SUSQUEHANNA RIVER AT HARRISBURG, PA.	042	043	SW	24100.00	004	1936		O	H		O	USGS	D
02050305	SPRING CREEK TRIBUTARY NEAR HARRISBURG, PA.	042	043	SW	1.85	004	1969	1970	E	E		E	USGS	D
02050305	YELLOW BREECHES CREEK NEAR CAMP HILL, PA.	042	041	SW	216.00	004	1963	1975	2	E		2	USGS	D
02050305	QUITTAPHILLA C NR ANNVILLE PA	042	075	SW		004	1959	1963	P				USGS	
02050305	SWATARA C NR MIDDLETOWN	042	043	SW			1962		M				PA001	P
02050305	CONODOGUINET C BL CARLISLE	042	041	SW			1962		M				PA001	P
02050306	LATIMORE CREEK TRIB NR YORK SPRINGS, PA.	042	001	SW	1.26	004	1969	1970	E	E		E	USGS	D
02050306	N FORK LATIMORE CR TRIB NR YORK SPRINGS, PA.	042	001	SW	2.20		1970	1970	B	B			USGS	D
02050306	WEST CONEWAGO CREEK NEAR MANCHESTER, PA.	042	133	SW	510.00	004	1956		E			E	USGS	D
02050306	SOUTH BRANCH CODORUS CREEK NEAR YORK, PA.	042	133	SW	117.00	124	1925		2	E		2	USGS	D
02050306	CONESTOGA RIVER AT LANCASTER, PA.	042	071	SW	324.00	124	1925		2	E		2	USGS	D
02050306	MUDDY CREEK AT CASTLE FIN, PA.	042	133	SW	133.00	004	1968	1970	Q			Q	USGS	D
02050306	OCTORARO CR NR ATGLEN, PA.	042	029	SW	10.90	003	1973		A				USGS	C
02050306	VALLEY CREEK NR ATGLEN, PA.	042	029	SW	10.00	003	1973		A				USGS	C
02050306	OCTORARO CR NR ATGLEN, PA.	042	029	SW	31.00	004	1973		A				USGS	C
02050306	DEER C AT ROCKS, MD	024	025	SW	94.40	004	1965		E			E	USGS	D
02050306	PEQUEA C LANCASTER CO	042	071	SW			1962		Q				PA001	P
02050306	CHICKIES C DONEGALTWP LAN CO	042	071	SW			1962		Q				PA001	P
02050306	CODORUS C BL YORK	042	133	SW			1962		M				PA001	P
02050306	W CONEWAGO C AB YORKHAVEN	042	133	SW			1962		M				PA001	P
02050306	CONESTOGA C BL LANCASTER	042	071	SW			1965		M				PA001	P
02060002	ELK CREEK AT ELKVIEW, PA.	042	029	SW	9.90	004	1973		A				USGS	C
02060003	BAISMAN RN AT SHAWAN MD	024	005	SW	.15	004	1963	1969	C	B			USGS	
02060003	BAISMAN RUN AT BROADMOOR, MD.	024	005	SW	1.47	004	1964	1969	C	B			USGS	
02060003	PATAPSCO R AT HOLLOFIELD, MD	024	027	SW	285.00		1967		E			E	USGS	D
02060005	CHOPTANK R NR GREENSBORO, MD	024	011	SW	113.00	004	1964		A	M		Q	USGS	D
02070002	NB POTOMAC R AT KITZMILLER, MD	024	023	SW	225.00	014	1959		5	E		5	USGS	D

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02070002	GEORGES C AT FRANKLIN, MD	024	001	SW	72.40	024	1960		5	E		5	USGS	D
02070002	WILLS C BL HYNDMAN, PA	042	009	SW	146.00	004	1960	1975	5			5	USGS	D
02070003	NB POTOMAC R AT PINTO, MD	054	057	SW	596.00		1959		E	E			USGS	D
02070003	NB POTOMAC R NR CUMBERLAND, MD	024	001	SW	875.00		1963		0	E		0	USGS	D
02070003	POTOMAC R AT PAW PAW, WV	024	001	SW	3109.00	014	1962		3	E		3	USGS	D
02070003	LOST RIVER AT MCCAULEY NEAR BAKER, W. VA.	054	031	SW	155.00	004	1973		H			R	USGS	D
02070003	CACAPON RIVER NEAR GREAT CACAPON, W. VA.	054	065	SW	677.00	004	1947	1972	Q			Q	USGS	D
02070004	CONOCOCHEAGUE C AT FAIRVIEW, MD	024	043	SW	494.00		1945		0	E		0	USGS	D
02070004	ANTIETAM C NR WAYNESBORO, PA	024	043	SW	93.50		1968		E			E	USGS	D
02070004	ANTIETAM C NR SHARPSBURG, MD	024	043	SW	281.00		1950		4			4	USGS	D
02070005	S F SHENANDOAH RIVER NEAR LYNNWOOD VA	051	165	SW	1084.00	004	1930	1975	A				USGS	D
02070005	S F SHENANDOAH RIVER AT FRONT ROYAL VA	051	187	SW	1642.00	004	1930		2			2	USGS	D
02070006	N F SHENANDOAH RIVER NEAR STRASBURG VA	051	187	SW	768.00	004	1929		2			2	USGS	D
02070008	CATOCTIN C NR MIDDLETOWN, MD	024	021	SW	66.90	004	1947		3	E		3	USGS	D
02070008	POTOMAC R AT POINT OF ROCKS MD	024	021	SW	9651.00		1959		0	E		0	USGS	D
02070008	STAVE RUN AT RESTON VA	051	059	SW	.05	003	1968	1971	D				USGS	C
02070008	STAVE RUN NEAR RESTON VA	051	059	SW	.08	003	1970		2	E		2	USGS	D
02070008	SMILAX BRANCH AT RESTON VA	051	059	SW	.32	004	1968		2	E		2	USGS	D
02070008	SENECA C AT DAWSONVILLE, MD	024	031	SW	101.00		1961		E	E			USGS	D
02070008	WATTS B AT ROCKVILLE, MD	024	031	SW	3.70	013	1956		6	E		6	USGS	D
02070008	POTOMAC R AT GREAT FALLS, MD	024	031	SW		004	1973		E	E		E	USGS	D
02070008	SNAKEDEN BR AT RESTON, VA.	051	059	SW	.79	003	1972		0	E		0	USGS	D
02070008	POTOMAC R NR WASH., DC LITTLE FALLS PUMP STA	024	031	SW	11560.00	124	1965	1975	A	A		A	USGS	D
02070009	MONOCACY R AT BRIDGEPORT, MD	024	021	SW	173.00		1948		E	E			USGS	D
02070009	BIG PIPE C AT BRUCEVILLE, MD	024	013	SW	102.00	004	1948		E	E			USGS	P
02070009	HUNTING CREEK AT JIMTOWN, MD.	024	021	SW	18.40	014	1961		4	E		4	USGS	D
02070009	LINGANORE C NR FREDERICK, MD	024	021	SW	82.30	004	1950		E	E			USGS	P
02070009	MONOCACY R. AT REICHS FORD BR NEAR FREDERICK	024	021	SW		004	1960		0	E		0	USGS	D
02070010	WILLIAMSBURG RN NR OLNEY, MD	024	031	SW	2.25	003	1966	1974	2	E		2	USGS	D
02070010	NB ROCK C NR NORBECK, MD	024	031	SW	9.73		1966	1977	E	E		E	USGS	D
02070010	MANOR RUN NEAR NORBECK, MD.	024	031	SW	1.01	003	1966	1974	R	E		R	USGS	D
02070010	NB ROCK C NR ROCKVILLE, MD	024	031	SW	12.50		1967	1977	0	E		0	USGS	D
02070010	ROCK C AT SHERRILL DR, WASH. DC	011	001	SW	62.20	013	1974		E	E			USGS	P
02070010	NE B ANACOSTIA R AT RIVERDALE MD	024	033	SW	72.80		1969		E			E	USGS	D
02070010	NW B ANACOSTIA R AT NORWOOD, MD	024	031	SW	2.45	004	1967	1974	R	E		R	USGS	D
02070010	NURSERY RUN AT CLOVERLY MD	024	031	SW	.35	004	1966	1974	2	E		2	USGS	D
02070010	BATCHELLORS RN AT OAKDALE, MD	024	031	SW	.45	004	1967	1974	S	E		S	USGS	D
02070010	BEL PRE CREEK AT LAYHILL, MD.	024	031	SW	1.69	003	1963	1974	K	E		K	USGS	D
02070010	LUTES RUN AT LUTES MARYLAND	024	031	SW	.47	003	1963	1974	K	E		K	USGS	D
02070010	NW B ANACOSTIA R NR COLESVILLE MD	024	031	SW	21.10		1960	1976	2	E		2	USGS	D

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02070010	NW B ANACOSTIA R NR HYATTSVILLE MD	024	033	SW	49.40		1960		6			6	USGS	D
02070010	HENSON C AT OXON HILL, MD	024	033	SW	16.70	123	1974		E	E			USGS	P
02070010	PISCATAWAY C NR S PISCATAWAY MD	024	033	SW			1972	1974	E				USGS	D
02070010	CEDAR RUN NR ADEN, VA.	051	153	SW	155.00	004	1973	1974	2			2	USGS	D
02070010	BULL RUN NEAR CATHARPIN, VA.	051	153	SW	25.80		1973	1974	2			2	USGS	D
02070010	CUB RUN NR BULL RUN, VA.	051	059	SW	49.90	004	1971	1974	2			2	USGS	D
02070010	BULL RUN NEAR CLIFTON,VA.	051	059	SW	185.00	004	1973	1974	2			2	USGS	D
02070010	BULL R NR CATHARPIN VA	051	153	SW	25.80	004	1973		E				VA001	C
02070011	MATTAWOMAN C NR POMONKEY, MD	024	017	SW	57.70		1962	1975	4			4	USGS	D
02080103	HAZEL RIVER AT RIXEYVILLE, VA.	051	047	SW	287.00	004	1945	1969	2			2	USGS	D
02080103	RAPPAHANNOCK RIVER AT REMINGTON, VA	051	061	SW	620.00	004	1950		0			0	USGS	D
02080103	RAPIDAN RIVER NEAR CULPEPER, VA.	051	047	SW	472.00	004	1944	1969	2			2	USGS	D
02080104	RAPPAHANNOCK RIVER NR FREDERICKSBURG VA	051	177	SW	1596.00	004	1954		A	A		A	USGS	D
02080104	PAMUNKEY RIVER NR HANOVER VA	051	085	SW	1081.00	004	1944		E	E		E	USGS	D
02080106	DESPER CR (NR MOUTH) NR MINERAL VA.	051	109	SW			1976	1976	A				USGS	D
02080201	JAMES RIVER AT BUCHANAN, VA	051	027	SW	2075.00	004	1946		2			2	USGS	D
02080201	BELOW REGENERATION ON FS60416710	051	045	SW			1976		R				USFS	D
02080201	COLD SPRING BRANCH AT 6042 50-2	051	045	SW			1976		R				USFS	D
02080203	JAMES RIVER AT BENT CREEK, VA.	051	125	SW	3683.00	004	1930	1975	A				USGS	D
02080203	JAMES RIVER AT SCOTTSVILLE, VA.	051	003	SW	4584.00	004	1930	1969	2			2	USGS	D
02080205	JAMES RIVER AT CARTERSVILLE, VA	051	075	SW	6257.00	004	1929		E	E		E	USGS	D
02080206	JAMES R NR DUTCH GAP VA	051	087	ES	6760.00	004	1974		M			K	USGS	D
02080207	HOLIDAY CREEK NEAR ANDERSONVILLE, VA.	051	011	SW	8.53	004	1967		E			E	USGS	D

SOUTH ATLANTIC-GULF REGION 03

HYDROLOGIC UNIT CODE	STATION NAME AND LOCATION	STATE	COUNTY	TYPE OF SITE	DRAINAGE AREA	BASIN DESCRIPTOR	WQW BEGIN YEAR	WQW END YEAR	SUSP SED CONCEN	SUSP PART SIZE	BED MAT PART SIZE	SUSP DISCHARGE	ORGANIZATION CODE	SED STOR MEDIA
03 13 L	TOMBIGBEE R NR COCHRANE AL	001	107	SW			1972		B				USCE	
030007 G	LITTLE PEE DEE RIVER AT GALIVANTS FERRY, S.	045	051	SW			1971	1973	M	M			USGS	
030007 I	FY78 CHANGE OPERATION OWDC54435 TO	045	067	SW			1976		M	M			USGS	
030007 X	SALKEHATCHIE RIVER NEAR MILEY, S.C.	045	049	SW			1972	1973	M	M			USGS	
030008 M	SOUTH R AT SNAPPING SHOALS	013	217	SW			1975		A	A			GA009	P
030009 M	WITH LACOOHEE AT GA 31	013	185	SW			1975		A	A			GA009	P
030010 C	PENNEKAMP STATE PARK	012	087	OC			1974				A		FL051	C
030011 L	ST JOSEPHS BAY .5 MILE OFFSHORE	012	045	ES			1975				A		FL051	C
03010101	ROANOKE RIVER AT LAFAYETTE, VA.	051	121	SW	257.00		1945		E			E	USGS	D
03010101	ROANOKE RIVER AT ROANOKE, VA.	051	770	SW	395.00	004	1930		E			E	USGS	D
03010101	ROANOKE RIVER AT ALTAVISTA, VA	051	143	SW	1789.00	014	1930		2			2	USGS	D
03010101	ROANOKE R AT LAFAYETTE VA	051	121	SW	257.00	004	1945		W				VA001	C
03010102	ROANOKE (STAUNTON) RIVER AT RANDOLPH, VA.	051	083	SW	2977.00	014	1929		O			O	USGS	D
03010103	HUFFINES MILL CR NR BETHANY N C	037	157	SW			1973		S				USGS	D
03010103	SMITH RIVER AT EDEN, N. C.	037	157	SW	538.00	014	1968		R			R	USGS	D
03010104	DAN RIVER AT PACES VA	051	083	SW	2550.00	014	1929		O			O	USGS	D
03010104	HYCO CREEK NEAR LEASBURG N C	037	033	SW	44.00	004	1963		S	E		S	USGS	D
03010104	DOUBLE CREEK NEAR ROSEVILLE N C	037	145	SW	7.47	004	1963		R	E		R	USGS	D
03010104	SOUTH HYCO CREEK NEAR ROSEVILLE N C	037	145	SW	55.00	004	1966		S			S	USGS	D
03010104	HYCO RIVER AT MCGHEES MILL N C	037	145	SW	191.00	014	1963	1973	A			A	USGS	D
03010104	MAYO CREEK TRIB NEAR ALLENSVILLE N C	037	145	SW			1973		S				USGS	D
03010107	ROANOKE RIVER AT ROANOKE RAPIDS, N.C.	037	083	SW	8410.00	014	1948		E			E	USGS	D
03010107	ROANOKE RIVER NEAR SCOTLAND NECK NC	037	083	SW	8700.00	014	1943		H	H		H	USGS	D
03010107	INDIAN C TRIB AT SR1123 NR CAHABA	037	015	SW	.50	004	1978		Z				USGS	D
03010107	CONIOTT C AT SR1108 NR CAHABA	037	015	SW	2.80	004	1977		Z				USGS	D
03010107	HARDISON CREEK NR ROBERSON STORE N C	037	117	SW			1973		Z				USGS	D
03010107	TAR RIVER AT TARBORO, N. C.	037	065	SW	2140.00		1943		2	E		2	USGS	D
03010202	BLACKWATER R NR FRANKLIN, VA	051	175	SW			1976		E	E		E	USGS	D
03010203	DEEP CREEK AT N C 45 NR COFIELD N C	037	091	SW			1973		Z				USGS	D
03010203	AHOSKIE CREEK AT AHOSKIE N C	037	091	SW	57.00	014	1975		N			N	USGS	D
03010204	JACKS SWAMP NR PLEASANT HILL N C	037	131	SW			1973		Z				USGS	D
03010204	POTECASI CREEK NEAR UNION, N. C.	037	091	SW	191.00	004	1975		R			R	USGS	D
030106 E	DAN RIVER NEAR MAYFIELD N C	037	157	SW	1780.00	014	1968		E			E	USGS	D
03020101	TAR RIVER NEAR TAR RIVER N C	037	077	SW	167.00	024	1969		A			A	USGS	D
03020101	TAR R AT US 401 AT LOUISBURG N C	037	035	SW	429.00	004	1976	1978	R			R	USGS	D
03020101	CEDAR CREEK NEAR LOUISBURG, N. C.	037	069	SW	47.80	004	1954	1973	A	A			USGS	D
03020101	TAR RIVER NEAR NASHVILLE, N. C.	037	127	SW	701.00	014	1969	1971	A	E		E	USGS	D
03020101	SAPONY CREEK NEAR NASHVILLE, N. C.	037	127	SW	64.80	004	1969	1969	A			A	USGS	D
03020101	WALNUT C AT SR1225 NR KINGSBORO	037	065	SW	.80	004	1978		Z				USGS	D
03020101	SWIFT CREEK AT HILLIARDSTON, N. C.	037	127	SW	163.00	024	1968		A	E		A	USGS	D

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03020101	CEDAR CREEK NEAR LOUISBURG, N. C.	037	069	SW			1969	1973	A	A		A	USGS	D
03020102	FISHING CREEK NEAR MIDDLEBURG N C	037	181	SW			1973		A				USGS	D
03020102	WHITE OAK SWAMP NEAR ACTON N C	037	127	SW	4.10	004	1973		A				USGS	D
03020102	LITTLE FISHING CREEK NEAR WHITE OAK N C	037	083	SW	175.00	004	1968		A	E		A	USGS	D
03020102	FISHING CREEK NEAR ENFIELD, N. C.	037	065	SW	521.00	004	1947		K			K	USGS	D
03020103	CONETOE CREEK NEAR BETHEL, N. C.	037	147	SW	78.10	004	1968		R			R	USGS	D
03020103	CHICOD CR AT SR 1565 NR GRIMESLAND N C	037	147	SW	19.00	004	1975		K			K	USGS	D
03020103	COW SWAMP NEAR GRIMESLAND N C	037	147	SW	17.00	004	1975		M				USGS	P
03020103	CHICOD CR AT SR 1760 NEAR SIMPSON N C	037	147	SW	45.00	004	1974		O			O	USGS	D
03020103	JUNIPER BRANCH AT SR 1766 NR SIMPSON N C	037	147	SW	7.50	004	1975		M				USGS	P
03020103	COW SWAMP NEAR GRIMESLAND N C	037	147	SW	17.00		1976		E			E	USGS	D
03020103	CHICOD CR AT SR 1760 NEAR SIMPSON N C	037	147	SW	45.00		1976		O	B			USGS	D
03020103	JUNIPER BRANCH AT SR 1766 NR SIMPSON N C	037	147	SW	1.80		1976		E			E	USGS	D
03020104	HERRING RUN NEAR WASHINGTON N C	037	013	SW	15.00	004	1968		R			R	USGS	D
03020104	DURHAM CREEK AT EDWARD N C	037	013	SW	21.00	004	1964		R			R	USGS	D
03020201	ENO RIVER AT HILLSBORO, N.C.	037	135	SW	66.50	024	1969	1972	A	A		A	USGS	D
03020201	ENO RIVER NEAR DURHAM, N. C.	037	063	SW	141.00	004	1969		A	E		A	USGS	D
03020201	LITTLE RIVER NEAR ORANGE FACTORY N C	037	063	SW	81.60	004	1960	1978	A	A		A	USGS	D
03020201	FLAT RIVER AT BAHAMA, N. C.	037	063	SW	150.00	004	1972		A			A	USGS	D
03020201	DIAL CREEK NEAR BAHAMA, N.C.	037	063	SW	4.71	004	1969		S			S	USGS	D
03020201	ROCKY CREEK NEAR BAHAMA N C	037	063	SW			1973		A				USGS	D
03020201	NEUSE RIVER NEAR NORTHSIDE N C	037	063	SW	526.00	014	1969		A	E		A	USGS	D
03020201	HORSE CREEK TRIB AT SR 1140 NR POCOMOKE N C	037	069	SW			1973		Z				USGS	D
03020201	NEUSE RIVER AT FALLS N C	037	183	SW	770.00		1952	1973	A	A		A	USGS	D
03020201	NEUSE RIVER NEAR FALLS N C	037	183	SW	770.00	014	1969	1978	A	A			USGS	D
03020201	NEUSE RIVER TRIB ABOVE SR 1705 NEAR CLAYTON	037	101	SW			1973		A				USGS	D
03020201	NEUSE RIVER NEAR CLAYTON, N. C.	037	101	SW	1140.00	014	1942		E	E		E	USGS	D
03020201	NEUSE RIVER AT SMITHFIELD, N.C.	037	101	SW	1200.00		1953		R	E		R	USGS	D
03020201	MIDDLE CREEK NEAR CLAYTON, N. C.	037	101	SW	80.70	004	1969		R			R	USGS	D
03020201	BEAVERDAM CREEK NEAR DOBBERSVILLE N C	037	191	SW			1973		Z				USGS	D
03020201	LITTLE RIVER NEAR KENLY, N. C.	037	101	SW	190.00	004	1969		A	E		A	USGS	D
03020201	LITTLE RIVER NEAR PRINCETON, N. C.	037	101	SW	229.00	004	1954		A	E		A	USGS	D
03020201	BLACK RIVER NEAR TOMAHAWK N C	037	163	SW	680.00	004	1975		R			R	USGS	D
03020202	NEUSE RIVER NEAR GOLDSBORO, N. C.	037	191	SW	2390.00	014	1947		A	E		A	USGS	D
03020202	MILL CREEK NEAR SEVENS SPRINGS N C	037	191	SW			1973		R				USGS	D
03020202	NEUSE RIVER AT KINSTON, N. C.	037	107	SW	2690.00	004	1948		E	E		E	USGS	D
03020202	CLAYFOOT SWAMP NEAR SHELMERDINE N C	037	147	SW			1973		S				USGS	D
03020202	CREEPING SWAMP NEAR CALICO N C	037	013	SW	9.80	004	1971	1975	M	M			USGS	D
03020202	CREEPING SWAMP TRIB AT SUTTON RD NR WILMAR	037	013	SW	.20	004	1978		Z				USGS	D
03020202	CREEPING SWAMP NEAR VANCEBORO N C	037	049	SW	27.00	004	1971	1975	M				USGS	P

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03020202	SWIFT CREEK NEAR VANCEBORO N C	037	049	SW	182.00	004	1954		R			R	USGS	D
03020202	TRENT RIVER NEAR TRENTON, N.C.	037	103	SW	168.00	004	1950		R			R	USGS	D
03020203	CONTENTNEA CREEK NEAR LUCAMA, N. C.	037	195	SW	156.00	004	1971		A			A	USGS	D
03020203	TURNER SWAMP NEAR EUREKA, N. C.	037	191	SW	2.20	004	1973		R			R	USGS	D
03020203	WHITE OAK SWAMP NEAR MOUNT PLEASANT N C	037	127	SW			1973		Z				USGS	D
03020203	NAHUNTA SWAMP NEAR SHINE, N. C.	037	079	SW	77.60		1969		A	E		A	USGS	D
03020203	RAINBOW CREEK AT US 258 NEAR BROWNTOWN N C	037	079	SW			1973		Z				USGS	D
03020203	CONTENTNEA CREEK AT HOOKERTON, N. C.	037	079	SW	729.00		1948		K			K	USGS	D
03020203	LITTLE CONTENTNEA CREEK NEAR FARMVILLE, N. C	037	147	SW	93.30		1968		R			R	USGS	D
03020204	CROOKED RUN AT SR 1123 NEAR TRENTON N C	037	103	SW			1973		Z				USGS	D
03020204	BRICE CREEK AT SR 1100 AT CROATAN N C	037	049	SW			1973		Z				USGS	D
03030002	REEDY FORK NEAR OAK RIDGE, N. C.	037	081	SW	19.90	004	1976	1978	K			K	USGS	D
03030002	REEDY FORK NEAR GIBSONVILLE, N. C.	037	081	SW	133.00	014	1950	1978	A			A	USGS	D
03030002	NORTH BUFFALO CREEK NEAR GREENSBORO, N.C.	037	081	SW	37.00	024	1976	1978	A			A	USGS	D
03030002	HAW RIVER AT HAW RIVER, N.C.	037	001	SW	599.00	014	1969	1978	A	A		A	USGS	D
03030002	BIG ALAMANCE CREEK NEAR ELON COLLEGE N C	037	001	SW	116.00	004	1976	1978	A			A	USGS	D
03030002	CANE CREEK NEAR BUCKHORN N C	037	135	SW			1973		R				USGS	D
03030002	CANE CREEK NEAR TEER, N. C.	037	135	SW	31.30	004	1969	1972	A	A		A	USGS	D
03030002	HAW RIVER NEAR BYNUM N C	037	037	SW	1284.00		1976	1976	A			A	USGS	D
03030002	WARD CREEK NEAR BYNUM N C	037	037	SW			1973		Z				USGS	D
03030002	HAW RIVER NEAR PITTSBORO, N.C.	037	037	SW	1310.00	014	1968	1973	A	E		A	USGS	D
03030002	NEW HOPE CR TRIB AT SR 1715 NR FARRINGTON N	037	037	SW			1975		R				USGS	D
03030002	NEW HOPE RIVER NEAR PITTSBORO, N. C.	037	037	SW	285.00	014	1954	1973	A			A	USGS	D
03030002	HAW RIVER NEAR HAYWOOD, N. C.	037	037	SW	1700.00	004	1969		R			R	USGS	D
03030003	EAST FORK DEEP RIVER NEAR HIGH POINT, N.C.	037	081	SW	14.70	004	1976	1978	A			A	USGS	D
03030003	DEEP RIVER NEAR RANDLEMAN, N.C.	037	151	SW	124.00	014	1976	1978	A			A	USGS	D
03030003	SANDY CREEK TRIB AT MELANCTON N C	037	151	SW			1973		R				USGS	D
03030003	DEEP RIVER AT RAMSEUR, N.C.	037	151	SW	346.00	014	1945	1978	A			A	USGS	D
03030003	GRASSY CREEK NEAR JUGTOWN N C	037	125	SW			1973		Z				USGS	D
03030003	BIG GOVERNORS C TRIB NR CARTHAGE	037	125	SW			1975		Z				USGS	D
03030003	TICK CREEK NEAR MOUNT VERNON SPRINGS, N. C.	037	037	SW	15.30	004	1976	1978	R			R	USGS	D
03030003	DEEP RIVER AT MONCURE, N.C.	037	105	SW	1410.00	014	1954		A	E		A	USGS	D
03030003	DEEP RIVER AT US HIGHWAY 1 AT MONCURE N C	037	037	SW	1420.00	014	1964	1973	S			S	USGS	D
03030004	BUCKHORN CREEK NR CORINTH, N.C.	037	037	SW	74.20	004	1972		A	E		A	USGS	D
03030004	PARKERS C TRIB NR COLESBURG	037	085	SW	.50	004	1977		Z				USGS	D
03030004	CAPE FEAR RIVER AT LILLINGTON, N. C.	037	085	SW	3440.00	014	1943	1976	A	E		A	USGS	D
03030004	FLAT CREEK NEAR INVERNESS N C	037	093	SW	7.65	004	1973		Z				USGS	D
03030004	LITTLE RIVER AT LINDEN, N. C.	037	085	SW	460.00	004	1945	1969	R			R	USGS	D
03030005	CAPE FEAR R AT WILM O HUSKE LOCK NR TARHEEL	037	017	SW	4810.00	014	1953		R			R	USGS	D
03030005	ELLIS C TRIB AT SR1325 NR WHITE OAK	037	017	SW	1.60	004	1978		Z				USGS	D

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03030005	CAPE FEAR R AT LOCK # 1 NR KELLY, NC	037	017	SW	5220.00	004	1955		E	E		E	USGS	D
03030006	LITTLE COHARIE CREEK NEAR ROSEBORO, N. C.	037	163	SW	96.40	004	1975		R			R	USGS	D
03030006	BLACK RIVER AT SR 1722 NR DUNN	037	085	SW	38.00	004	1977		M			M	USGS	D
03030006	BLACK RIVER NEAR DUNN NC	037	085	SW	49.00	004	1977		M			M	USGS	D
03030006	SOUTH RIVER TRIB AT N C 41 AT TOMAHAWK N C	037	163	SW			1973		Z				USGS	D
03030007	NORTHEAST CAPE FEAR RIVER NEAR CHINQUAPIN, N	037	061	SW	600.00	004	1949		R			R	USGS	D
03030007	ROCKFISH CREEK NEAR WALLACE, N. C.	037	061	SW	63.80	004	1975		R			R	USGS	D
03030007	LILLINGTON CREEK NEAR ST HELENA N C	037	141	SW			1973		A				USGS	D
030306 Q	SOUTH RIVER NEAR PARKERSBURG, N. C.	037	017	SW	382.00	004	1960		R			R	USGS	D
03040101	BIG WARRIOR CREEK SUBTRIB NEAR BOOMER N C	037	193	SW			1973		Z				USGS	D
03040101	YADKIN RIVER AT WILKESBORO N C	037	193	SW	493.00	014	1946		K			K	USGS	D
03040101	GRAYS CREEK NEAR CLINGMAN N C	037	193	SW			1973		Z				USGS	D
03040101	ENDICOTT CREEK NEAR BLEVINS STORE N C	037	171	SW			1973		Z				USGS	D
03040101	EAST PRONG LITTLE YADKIN R TRIB NEAR CAPELLA	037	169	SW			1973		A				USGS	D
03040101	LITTLE FORBUSH CREEK NEAR FORBUSH N C	037	197	SW			1973		A				USGS	D
03040101	MUDDY CREEK NEAR MUDDY CREEK, N. C.	037	067	SW	178.00	013	1970		K	A		K	USGS	D
03040101	FRYES CREEK TRIB AT SR 1506 NEAR MIDWAY N C	037	057	SW			1973		A				USGS	D
03040101	YADKIN RIVER AT YADKIN COLLEGE N C	037	057	SW	2280.00	004	1942		O	M	A	O	USGS	D
03040101	HUMPY CREEK NEAR FORK N C	037	059	SW	1.05		1973	1978	R			R	USGS	D
03040102	OLIN CREEK AT SR 1868 NEAR UNION GROVE N C	037	097	SW			1973		A				USGS	D
03040102	SOUTH YADKIN RIVER NEAR MOCKSVILLE N C	037	159	SW	313.00	024	1956	1978	2	E		2	USGS	D
03040102	THIRD CREEK NR. STONY POINT, N. C.	037	003	SW	4.84	024	1956	1975	2	M		2	USGS	D
03040102	TRIB TO THIRD C TRIB NR BARBER	037	159	SW	.04	004	1977		Z				USGS	D
03040103	SPENCER C AT SR1303 AT UWHARRIE	037	123	SW	6.90	004	1977		Z				USGS	D
03040103	KILLIAN CREEK AT SR 1349 NEAR DENVER N C	037	109	SW			1973		R				USGS	D
03040104	GOULDS FORK AT SR1205 NEAR WADESBORO	037	007	SW	3.80	004	1977		Z				USGS	D
03040105	PARK CREEK AT SR 1614 NEAR KANNAPOLIS N C	037	025	SW			1973		Z				USGS	D
03040105	BIG BEAR CREEK NEAR RICHFIELD, N. C.	037	167	SW	55.70	004	1974		A			A	USGS	D
03040105	ROCKY RIVER NEAR NORWOOD, N. C.	037	167	SW	1370.00	004	1946		E			E	USGS	D
03040201	PEE DEE R NR ROCKINGHAM, NC	037	153	SW	6870.00	014	1946		H	H		H	USGS	D
03040201	BONES FORK CREEK NEAR HOFFMAN N C	037	153	SW			1973		Z				USGS	D
03040201	PEE DEE RIVER AT PEEDEE S. C.	045	067	SW	8830.00	014	1948	1975	M	M		M	USGS	D
03040201	LAKES M-M DIV CANAL NR PINEVILLE S. C.	045	015	SW		012	1971		M	H		E	USGS	D
03040202	LYNCHES RIVER AT EFFINGHAM S. C.	045	009	SW	1030.00	004	1951		M	M		9	USGS	D
03040203	DROWNING CREEK NEAR HOFFMAN, N. C.	037	153	SW	178.00	004	1945		N			N	USGS	D
03040203	LUMBER RIVER AT BOARDMAN, N. C.	037	155	SW	1220.00		1968		Q			Q	USGS	D
03040205	SCAPE ORE SWAMP NEAR BISHOPVILLE, S.C.	045	061	SW	96.00	004	1970		Q	A		Q	USGS	D
03040205	BLACK RIVER AT KINGSTREE, S.C.	045	089	SW	1252.00	004	1962		A	A		A	USGS	D
03040206	WACCAMAW RIVER AT FREELAND, N. C.	037	019	SW	706.00		1949		R			R	USGS	D
03040207	JUNIPER CREEK AT N C 211 NEAR PROSPECT N C	037	019	SW			1973		A				USGS	D

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03050101	CATAWBA RIVER NEAR MARION, N.C.	037	111	SW	171.00		1944		R			R	USGS	D
03050101	LOWER LITTLE R TRIB AT SR 1124 NR TAYLORSVIL	037	003	SW			1973		R				USGS	D
03050102	HENRY FORK TRIB AT SR 1924 NR PLEASANT GROVE	037	023	SW			1973		A				USGS	D
03050102	JACOB FORK AT RAMSEY, N. C.	037	023	SW	25.40	004	1974		R			R	USGS	D
03050103	SUGAR CREEK NEAR FORT MILL S C	045	091	SW	262.00	004	1969		E			E	USGS	D
03050105	SILVER CREEK NEAR MILL SPRING N C	037	149	SW			1973		Z				USGS	D
03050105	SECOND BROAD RIVER AT CLIFFSIDE, N.C.	037	161	SW	211.00	014	1947		N			N	USGS	D
03050105	BROAD RIVER NEAR BOILING SPRINGS, N.C.	037	045	SW	864.00	014	1944		N			N	USGS	D
03050105	LITTLE HARRIS CREEK AT SR 1821 NEAR CAMPBELL	037	045	SW			1973		A				USGS	D
03050110	CONGAREE RIVER AT COLUMBIA, SC	045	079	SW	7850.00	124	1959		M	M			USGS	
03050110	SANTEE RIVER NEAR FORT MOTTE S C	045	017	SW	14100.00	014	1965	1968	N			N	USGS	D
03050112	SANTEE RIVER NR. PINEVILLE S. C.	045	015	SW	14700.00	014	1951		M	M		E	USGS	D
03050205	EDISTO RIVER NR GIVHANS S.C.	045	035	SW	2730.00	024	1967		M	M		9	USGS	D
03050208	COOSAWHATCHIE RIVER NR HAMPTON S.C.	045	049	SW	203.00	004	1972		M	M		9	USGS	D
03060102	CHATTOOGA RIVER NEAR CLAYTON, GA.	045	073	SW	207.00	004	1941		E			E	USGS	D
03060102	TUCKALUGE CR1	013	241	SW			1972		K				USFS	D
03060103	CLARK HILL RE DISCHARGE SC	045	065	SW			1953		W				USCE	D
03060103	HARTWELL RE DISCHARGE GA	013	147	SW			1963		W				USCE	D
03060104	TOMS CREEK TRIB (NFBR SWS NO. 14) NR AVALON,	013	257	SW	1.20	004	1963	1975	2			2	USGS	D
03060104	BROAD RIVER NEAR BELL, GA.	013	105	SW	1430.00	004	1937		2			2	USGS	D
03060105	LITTLE RIVER NEAR WASHINGTON, GA.	013	317	SW	291.00	004	1958	1974	2			2	USGS	D
03060106	UPPER THREE RUNS NR NEW ELLENTON S.C.	045	003	SW	87.00	004	1967		M	9		7	USGS	D
03060108	BRIER CREEK NEAR WAYNESBORO, GA.	013	033	SW	473.00	004	1969		H			H	USGS	D
03060108	BRIER CREEK AT MILLHAVEN, GA.	013	251	SW	646.00	004	1937		2			2	USGS	D
03060109	SAVANNAH RIVER NR CLYO GA.	013	103	SW	9850.00	014	1938		M	M		M	USGS	D
03060109	SAVANNAH R AT R MILE 20 GA	013	051	ES			1970		B	B	B		USCE	C
03060109	SAVANNAH R AT R MILE 21.6 GA	013	051	ES			1968		B	B	B		USCE	C
03060109	CLYO SAVANNAH R AT R MILE 61 GA	013	103	SW			1949		B				USCE	
03060202	OGEECHEE RIVER NEAR EDEN, GA.	013	103	SW	2650.00		1937		H			H	USGS	D
03070101	MIDDLE OCONEE RIVER NEAR ATHENS, GA.	013	059	SW	398.00	004	1937	1978	R			R	USGS	D
03070101	OCONEE RIVER NEAR GREENSBORO, GA.	013	133	SW	1090.00	004	1937		2			2	USGS	D
03070102	OCONEE RIVER AT DUBLIN, GA.	013	175	SW	4400.00	004	1906		2			2	USGS	D
03070103	PATES CREEK AT BUSTER LEWIS RD NEAR FLIPPEN,	013	151	SW			1977		H			H	USGS	D
03070103	SOUTH RIVER NEAR MCDONOUGH, GA.	013	151	SW	456.00	004	1941		H			H	USGS	D
03070103	YELLOW RIVER NEAR COVINGTON, GA.	013	217	SW	378.00	004	1957		H			H	USGS	D
03070103	ALCOVY RIVER ABOVE COVINGTON, GA.	013	217	SW	185.00	004	1971		R			R	USGS	D
03070103	FALLING CREEK NEAR JULIETTE, GA.	013	169	SW	72.20	004	1964		H			H	USGS	D
03070103	OCMULGEE RIVER AT MACON, GA.	013	021	SW	2240.00	004	1906	1975	2			2	USGS	D
03070106	ALTAMAHA RIVER AT DOCTORTOWN, GA.	013	305	SW	13600.00	004	1937		E			E	USGS	D
03070106	PENHOLOWAY CREEK NEAR JESUP, GA.	013	305	SW	210.00	004	1970		H			H	USGS	D

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03070106	ALTAMAHA RIVER AT EVERETT CITY, GA.	013	127	SW		004	1968		A	A		A	USGS	D
03070107	OHOOPEE RIVER NEAR REIOSVILLE, GA.	013	267	SW	1110.00	004	1937		H			H	USGS	D
03070201	SATILLA RIVER AT ATKINSON, GA.	013	025	SW	2790.00	004	1937		H			H	USGS	O
03070202	LITTLE SATILLA RIVER NEAR OFFERMAN, GA.	013	229	SW	646.00	004	1957		H			H	USGS	D
03070204	MIDOLE PRONG ST MARYS RI AT TAYLOR FL	012	003	SW	125.00	004	1956		K			K	USGS	O
03070204	ST MARYS RIVER NR MACCLENNY, FLA.	012	003	SW	700.00	004	1956		M			M	USGS	D
03080101	ST. JOHNS HEADWATERS NEAR VERO BEACH, FLA.	012	061	SW	297.00	014	1966		A				USGS	D
03080101	JANE GREEN CREEK NEAR OEER PARK, FLA.	012	097	SW	248.00	004	1954		A			A	USGS	D
03080101	ST. JOHNS RIVER NEAR MELBOURNE FLA	012	009	SW	968.00	004	1952		A				USGS	D
03080101	WOLF CREEK NEAR DEER PARK, FLA.	012	097	SW	25.70	124	1956		A			A	USGS	D
03080101	ST. JOHNS RIVER NR COCOA, FLA.	012	009	SW	1331.00	004	1952		H			K	USGS	D
03080101	ECONLOCKHATCHEE RIVER NR. CHULUOTA, FLA.	012	117	SW	241.00	024	1954		A			A	USGS	D
03080101	ST. JOHNS RIVER ABOVE LAKE HARNEY, FLA.	012	117	SW	2043.00	004	1954		A				USGS	D
03080101	ST JOHNS R ASTOR-FLA HWY 40	012	127	OC			1971				A		FL051	D
03080101	09E TAYLOR CREEK AT HWY 532 NR COCOA FLA	012	009	SW			1971	1972	A				USGS	O
03080101	09E TAYLOR CREEK AT LAKE POINSETT NR COCOA	012	095	SW			1971	1972	A				USGS	D
03080101	LAKE CHARITY HOLDING POND AT MAITLAND FLA	012	095	SS			1975		R				USGS	D
03080101	09E RUNOFF TO LK CHARITY AT MAITLAND FLA.	012	095	SS			1971		R				USGS	D
03080101	09E RUNOFF TO LK FAITH AT MAITLAND FLA.	012	095	SS			1971		R				USGS	D
03080101	RUNOFF TO LK HOPE AT MAITLAND, FLA	012	095	SS			1971		R				USGS	D
03080102	OKLAWAHA R AT MOSS BLUFF, FLA.	012	083	SW	879.00	014	1958		E			E	USGS	D
03080102	OKLAWAHA RIVER NR OCALA, FLA.	012	083	SW	1018.00	014	1956		E			E	USGS	D
03080102	OKLAWAHA RIVER NR CONNER, FLA.	012	083	SW	1196.00	014	1966		E			E	USGS	D
03080102	OKLAWAHA RIVER AT EUREKA, FLA.	012	083	SW	1367.00	014	1969		E			E	USGS	D
03080102	ORANGE CREEK AT ORANGE SPRINGS, FLA.	012	083	SW	1067.00	024	1956		E			E	USGS	D
03080102	OEEP CREEK NR ROOMAN, FLA.	012	107	SW	54.30	004	1958		E			E	USGS	D
03080102	OKLAWAHA R AT RODMAN DAM NR ORANGE SPRINGS,	012	107	SW	2696.00	124	1968		E			E	USGS	D
03080102	OKLAWAHA R AT ST HWY 19, NR SALT SPRINGS, FL	012	107	SW	2850.00	124	1942		S				USGS	D
03080103	CROSS FL BARGE CA AB BUCKMAN LOCK NR PALATKA	012	107	SW		014	1968		E				USGS	D
03080103	CROSS FL BARGE CA AT BUCKMAN LOCK NR PALATKA	012	107	SW		014	1968		E				USGS	D
03080103	ST. JOHNS RIVER AT PALATKA, FLA.	012	107	SW	7065.00	004	1962		M			E	USGS	O
03080103	CEDAR CREEK NR PANAMA PARK, FLA.	012	031	SW	6.27	004	1964		A				USGS	D
03080201	SPRUCE CREEK NR SAMSULA, FLA.	012	127	SW	33.40		1956		M				USGS	D
03080203	MAIN CANAL AT VERO BEACH, FLA.	012	061	SW		014	1954		M				USGS	D
03080203	BELCHER CANAL AT JOHNSON ROAD	012	111	SW			1975		A				USGS	D
03080203	CANAL AT JUNCTION OF 603 AND INDRIO ROAD	012	111	SW			1975		A				USGS	D
03090101	SHINGLE CREEK AT AIRPORT NR KISSIMMEE, FLA.	012	097	SW	89.20	004	1962		E			E	USGS	D
03090101	KISSIMMEE RIVER BL S-65 NR LAKE WALES, FL	012	097	SW	1607.00	014	1970		E			E	USGS	D
03090101	KISSIMMEE RIVER BELOW C41A NR OKEECHOBEE FLA	012	093	SW		014	1973	1973	R				USGS	D
03090102	TAYLOR CREEK NR BASSINGER, FLA.	012	093	SW	15.70	124	1966	1978	E			E	USGS	D

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03090102	TAYLOR CREEK AB OKEECHOBEE, FLA.	012	093	SW	98.70	014	1958		E			E	USGS	D
03090103	INDIAN PRAIRIE CANAL AT S-72 NR OKEECHOBEE,	012	043	SW		014	1966		E			E	USGS	D
03090103	10B KISSIMMEE RIVER AT LAKE OKEECHOBEE FLA	012	093	SW		004	1948	1973	A				USGS	D
03090202	RIM DITCH @ S-49	012	111	SW			1963	1975	2				USGS	D
03090202	SL108 THE SAVANNAHS AT WALTON RD AT WALTON F	012	111	SW		013	1975		A				USGS	D
03090202	RIM DITCH NEAR WALTON FLA	012	111	SW			1963	1972	2				USGS	D
03090202	WEST PALM BEACH CANAL AT WEST PALM BEACH FLA	012	099	SW			1967		A			E	USGS	D
03090202	HILLSBORO CANAL AT S-6 NEAR SHAWANO	012	099	SW	146.00	014	1945		Q				USGS	D
03090202	10B EVERGLADES STA 1-15 NR DELRAY BEACH FL	012	099	SW			1972	1975	Q				USGS	
03090202	10B HILLSBORO CANAL AT S-39 NR DEERFIELD BCH	012	099	SW		014	1939			E			USGS	D
03090202	CYPRESS C CA AT S38 NR POMPANO B	012	011	SW		014	1941		Q				USGS	C
03090202	POMPANO CA AT POMPANO BEACH FLA	012	011	SW			1970			E			USGS	D
03090202	CYPRESS CREEK C AT S-37A, NR POMPANO BEACH,	012	011	SW		014	1961			E			USGS	D
03090202	MIDDLE RIVER C AT S-36 NR FT LAUDERDALE FLA	012	011	SW		014	1962			E			USGS	D
03090202	PLANTATION ROAD C AT S-33 NR FT. LAUDERDALE	012	011	SW		014	1963			E			USGS	D
03090202	N NEW RIVER CA BL S-11C NR FT. LAUDERDALE	012	011	SW		014	1941		Q				USGS	
03090202	EVERGLADES STA 2-17 NR ANDYTOWN FLA	012	011	SW			1956	1975	Q				USGS	
03090202	N NEW R CA AT 20 MI BEND	012	011	SW		014	1939			E			USGS	D
03090202	10B N NEW R CA AB HOL LAT NR FT LAUD FLA	012	011	SW			1939			E			USGS	D
03090202	SOUTH NEW RIVER CANAL AT S-9 NEAR DAVIE	012	011	SW	83.00	014	1956		E	E			USGS	D
03090202	10B SO NEW R CA AB S-13A NR DAVIE FLA	012	011	SW		014	1957			E			USGS	D
03090202	HOLLYWOOD CANAL AT DANIA	012	011	SW		014	1961			E			USGS	D
03090202	SNAKE CREEK C AT N.W. 67TH AVE NR HIALEAH, F	012	011	SW			1960			E			USGS	D
03090202	BISCAYNE CANAL AT S-28, NR MIAMI, FLA	012	025	SW			1968		E			E	USGS	D
03090202	LITTLE RIVER CANAL AT S27 AT MIAMI,FLA	012	025	SW			1940		E			E	USGS	D
03090202	MIAMI CA AT S8 NR LK HARBOR FLA	012	011	SW		014	1966		Q				USGS	C
03090202	PENSUCO CAN AT PENSUCO FL	012	025	SW			1950	1977	A				USGS	D
03090202	MIAMI CA AT WATER PLT HIALEAH FLA	012	025	SW		014	1939		Q				USGS	
03090202	MIAMI CANAL AT N.W. 36TH STREET, MIAMI, FLA	012	025	SW			1960		A			E	USGS	D
03090202	EVERGLADES 3-65S NEAR MIAMI, FLA.	012	025	SW			1957	1975	Q				USGS	
03090202	TAMIAMI CANAL NR. CORAL GABLES, FLA	012	025	SW		014	1967		E			E	USGS	D
03090202	SNAPPER CREEK C AT S-22, NR, SOUTH MIAMI, FL	012	025	SW			1967		E			E	USGS	D
03090202	BLACK CREEK CANAL AT S-21,NR GOULDS,FLA.	012	025	SW			1968		E			E	USGS	D
03090202	MILITARY CANAL NEAR HOMESTEAD, FLA.	012	025	SW		014	1966	1977	A				USGS	D
03090202	MOWRY CANAL AT S-20A	012	025	SW			1967		E			E	USGS	D
03090202	CANAL 111 ABV S-18-C, NR. FLORIDA CITY, FLA	012	025	SW			1968		A			A	USGS	D
03090202	NORTH RIVER CANAL NEAR FT LAUDERDALE FLA	012	011	SW			1977		H	E		N	USGS	D
03090202	SOUTH NEW RIVER CANAL AT S-13 NR DAVIE, FLA	012	011	SW			1977			E			USGS	D
03090202	TAMIAMI CANAL OUTLETS, MONROE TO CARNESTOWN,	012	021	SW			1977		A			E	USGS	D
03090202	10B TAMIAMI CA AB S12A NR MIAMI FLA	012	025	SW		014	1972		Q				USGS	

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03090202	L-67A 0.5 MI. N OF TAMIAMI CA NR MIAMI, FLA	012	025	SW		014	1972		Q				USGS	
03090202	10B L-28 EAST CA NR PINECREST FLA	012	025	SW		014	1972		Q				USGS	
03090202	SNAKECREEKCANAL NEAR HIALEAH FLA	012	025	SW		014	1970		Q				USGS	
03090202	DAVIE ROAD CANAL AT PEMBROKE PINES FLA	012	011	SW		014	1970			E			USGS	D
03090202	10B DANIA CUTOFF CA W OF FECRR BR AT DANIA	012	011	SW		014	1969		Q				USGS	
03090202	N NEW RIV CA AT SW 31 AVE FT LAUDERDALE	012	011	SW		014	1969			E			USGS	D
03090202	NEW RIVER AT SW 4TH & 7TH AVE FT LAUDERDALE	012	011	SW		014	1969			E			USGS	D
03090202	10B N FORK NEW R BRWD BLVD AT FT LAUDERDAL	012	011	SW		014	1969			E			USGS	D
03090202	10B N FORK NEW RIVER AT FT LAUDERDALE FLA	012	011	SW		014	1969			E			USGS	D
03090202	10B PLAT CA AT HWY 441 IN PLANTATION	012	011	SW		014	1972	1974			Q		USGS	
03090202	10B PLAT CA AT SUNRISE BLVD NR LAUD HILL	012	011	SW		014	1972	1975			Q		USGS	
03090202	10BPLANTATION CNL,NW65TH AVE,PLANTATION FLA	012	011	SW			1969			E			USGS	D
03090202	PLANTATION CA AT NW 65TH AVE AT PLANTATION F	012	011	CN		014	1970		Q				USGS	
03090202	PLANTATION CA AT NW 47 AVE BRIDGE PLANTATION	012	011	CN		014	1971				Q		USGS	
03090202	10B MIAMI CA AT ALLIGATOR ALLEY	012	021	SW		014	1972		Q				USGS	
03090202	MIDDLE RIVER CANAL NR LAUDERHILL FLA	012	011	SW		014	1970		Q				USGS	
03090202	0B L-28 INTERCEPTOR BL SR84 AT ANDYTOWN F	012	011	SW		014	1972		Q				USGS	
03090202	10B MIDDLE RIVER CANAL AT LAUDERHILL FLA	012	011	SW		014	1970			E			USGS	D
03090202	10B CA-13 FEEDER CA AT 10TH AVE FT LAUDERD	012	011	SW		014	1966			E			USGS	D
03090202	10B L-28 BORROW CA AB S-140 NR ANDYTOWN FL	012	011	SW		014	1970	1972	Q				USGS	
03090202	PONPANO CA BL CITY DAPOMPANO FL	012	011	CN		013	1969		Q				USGS	
03090202	10B POMPANO CA AT SR 7 AT MARGATE FLA	012	011	SW		014	1969			E			USGS	D
03090202	HILLSBORO CANAL AT US 441 AT DEERFIELD	012	011	SW		014	1970	1972	Q				USGS	
03090202	L-3 CANAL 7 MI WEST OF S-8 NR ANDYTOWN	012	011	SW		014	1972	1975	Q				USGS	
03090202	10B NORTH NEW RIVER CANAL AB S7 NR ANDYTOW	012	021	SW		014	1970		Q				USGS	
03090202	10B HILLSBORO CA AB S10 NR ANDYTOWN FLA	012	021	SW		014	1972		Q				USGS	
03090202	W PALM BEACH CANAL E OF S-5A(E) NR LOXAHATCH	012	099	SW		014	1972		Q				USGS	
03090202	C-24 AT SR 709 NR FT PIERCE FLA	012	111	SW			1975		A				USGS	D
03090202	N FK ST LUCIE R NR PRIMA VISTA BLVD NR FT PI	012	111	SW			1975		A				USGS	D
03090202	35S39E33 SL41 JCT 10MI CR-TRIB 6MI SW FT PIE	012	111	SW			1975		A				USGS	D
03090202	BISCAYNE BAY	012	025	OC			1971				A		FL051	C
03090202	MIAMI CA BRIDGE FL HWY 27	012	025	SW			1973				A		FL051	D
03090202	TAMIAMI C WTR CONTR STRUCT S-12C	012	025	SW			1973				A		FL051	
03090202	BISCAYNE BAY NAVY MARKER 2	012	025	ES			1973				A		FL051	C
03090204	TAMIAMI CANAL OUTLETS, 40-MILE BEND TO MONRO	012	011	SW			1977		A			E	USGS	D
03090204	BARRON RIVER NR EVERGLADES, FLA.	012	021	SW			1977		E	E	E		USGS	
03090204	10B GORDON RIVER CANAL AT NAPLES FLA	012	021	SW		014	1970		Q				USGS	
03090204	10B GOLDEN GATE TRIB CA NR NAPLES FLA	012	021	SW		014	1970		Q				USGS	
03090205	CALOOSAHATCHEE CANAL AT ORTONA LOCK NR LA BE	012	043	SW		014	1974		H			E	USGS	D
03090205	CALOOSAHATCHEE RIVER AT ALVA FLA	012	071	SW		014	1945	1974	A				USGS	D

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03090205	CALOOSAHATCHEE RIVER AT S-79, NR. OLGA, FLA	012	071	SW			1972		E			E	USGS	D
03100101	PEACE RIVER AT ARCADIA, FLA.	012	027	SW	1367.00		1961		M			R	USGS	D
03100205	FLINT CREEK NR THONOTOSASSA, FLA.	012	057	SW	60.00		1956		E				USGS	D
03100205	HILLSBOROUGH RIVER NR ZEPHYRHILLS, FLA.	012	057	SW			1975		Q			Q	USGS	D
03100206	HILLSBORO BAY 3/4 MI E MACDILL AFB	012	057	OC			1971	1975			A		FLO51	D
03100206	OLD TAMPA BAY CRT OF HWD FRNKLN BR	012	057	OC			1972	1975			A		FLO51	D
03100207	BEAR CREEK AT 58TH ST N AT ST PETERSBURG, FL	012	103	SW			1973	1973	A				USGS	D
03100207	10J JOES CREEK @ 54TH AVE N AT ST PETE FLA	012	103	SW			1973	1973	A				USGS	D
03100207	10J JOES C AT SCB POL PLANT AT ST PETE FLA	012	103	SW			1973	1974	A				USGS	D
03100208	BLUE RUN AT DUNNELLON, FLA.	012	083	SW		014	1968		E			E	USGS	D
03100208	WITHLACOOCHEE R AT INGLIS DAM NR DUNNELLON,	012	075	SW	2020.00		1963		E			E	USGS	D
03100208	WITHLACOOCHEE R BL INGLIS DAM NR DUNNELLON,	012	075	SW	2020.00		1963		E			E	USGS	D
03100208	BARGE CANAL ABOVE INGLIS LOCK NR INGLIS, FLA	012	075	SW		124	1969		E				USGS	D
03100208	BARGE CANAL AT INGLIS LOCK NR INGLIS, FLA.	012	075	SW		124	1969		E				USGS	D
03100208	WITHLACOOCHEE R BYPASS CH BEL STR NR INGLIS,	012	075	SW			1969		E			E	USGS	D
03100208	WITHLACOOCHEE RIVER NR HOLDER, FLA.	012	017	SW			1976		M			M	USGS	D
03110201	SUWANNEE RIVER AT FARGO, GA.	013	065	SW	1260.00		1937		E			E	USGS	D
03110201	ROCKY CREEK NR BELMONT,FLA.	012	047	SW	50.00		1970		K			K	USGS	D
03110201	HUNTER CREEK NEAR BELMONT FLA	012	047	SW		004	1967		A			A	USGS	D
03110201	SUWANNEE RIVER AT WHITE SPRINGS, FLA.	012	023	SW	2430.00		1956		E			E	USGS	D
03110201	SWIFT CREEK AT FACIL FLA	012	047	SW	65.30		1967		K			K	USGS	D
03110201	OCCIDENTAL SAMPLING SITE #6	012	047	SW			1976	1976	A			A	USGS	D
03110201	OCCIDENTAL SAMPLING SITE #4	012	047	SW			1976	1976	A			A	USGS	D
03110201	OCCIDENTAL SAMPLING SITE #7	012	047	SW			1976	1976	A			A	USGS	D
03110201	OCCIDENTAL SAMPLING SITE #5	012	047	SW			1976	1976	A			A	USGS	D
03110201	OCCIDENTAL #27 SPILLWAY	012	047	SW			1976	1976	A				USGS	D
03110201	OCCIDENTAL SPILLWAY #22	012	047	SW			1976	1976	A				USGS	D
03110201	HUNTER CREEK MINE	012	047	SW			1976	1976	A			A	USGS	D
03110202	ALAPAHA RIVER NEAR ALAPAHA, GA.	013	019	SW	663.00		1937		E			E	USGS	D
03110202	ALAPAHA RIVER AT STATENVILLE, GA.	013	101	SW	1400.00	004	1954	1975	2			2	USGS	D
03110204	LITTLE RIVER NEAR LENOX, GA.	013	075	SW	208.00	004	1976		K	K		K	USGS	D
03110205	SUWANNEE RIVER AT BRANFORD, FLA.	012	121	SW	7880.00		1954		H			R	USGS	D
03120001	ST. MARKS RIVER NEAR NEWPORT, FLA.	012	129	SW			1966	1974	E	E	E		USGS	
03120003	SOPCHOPPY RIVER NR SOPCHOPPY, FLA.	012	129	SW	102.00		1963		H			H	USGS	D
03120003	OCHLOCKONEE RIVER NR HAVANA, FLA.	012	073	SW	1140.00		1963		Q			Q	USGS	D
03130001	CHATTAHOOCHEE RIVER NEAR LEAF, GA.	013	137	SW	150.00	004	1941	1977	A	R		E	USGS	D
03130001	SOQUE RIVER AT ST RT 17 AT CLARKSVILLE, GA.	013	137	SW			1958	1958	R	R		E	USGS	D
03130001	CHATTAHOOCHEE RIVER NEAR CORNELIA, GA.	013	137	SW	315.00	004	1968		H	A		H	USGS	D
03130001	CHESTATEE RIVER AT ST RT 52 NEAR DAHLONEGA,	013	187	SW	153.00		1941		N	N		A	USGS	D
03130001	CHATTAHOOCHEE RIVER AT ST RT 120 NR DULUTH,	013	135	SW			1958	1958	A	A			USGS	D

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03130001	BIG CREEK NEAR ALPHARETTA, GA.	013	121	SW	72.00		1968		K	K			USGS	D
03130001	CHATTAHOOCHEE RIVER AT ATLANTA, GA.	013	121	SW	1450.00	014	1937		Q	Q		Q	USGS	D
03130001	CHATTAHOOCHEE R TRB (COBB CO WPC) ATLANTA, G	013	067	SW			1976	1977	A	A			USGS	D
03130001	N FK P'TREE C TRB (MEADOWCLF D) NR CHAMBLEE,	013	089	SW	.32	003	1974	1977	R	R		R	USGS	D
03130001	N.F. P'TREE CR AT BUFORD HWY NR ATLANTA, GA.	013	089	SW	36.00	003	1976	1977	S	S		S	USGS	D
03130001	CLEAR CREEK AT PIEDMONT PARK AT ATLANTA, GA.	013	121	SW			1976	1976	R	R		A	USGS	D
03130001	TANYARD BRANCH AT 26TH ST EXT AT ATLANTA, GA	013	121	SW			1976	1977	A	A		A	USGS	D
03130001	PEACHTREE CREEK AT ATLANTA, GA.	013	121	SW	86.80	003	1969		K	K		K	USGS	D
03130001	WOODALL CR AT DEFOORS FERRY ROAD AT ATLANTA,	013	121	SW			1976	1977	A	A		A	USGS	D
03130001	NANCY CR TR (W NANCY CR DR) NR CHAMBLEE, GA.	013	089	SW			1976	1976	R	R		A	USGS	D
03130001	NANCY CREEK AT RANDALL MILL ROAD AT ATLANTA,	013	121	SW	34.79	003	1976	1977	R	R		A	USGS	D
03130002	CHATT R WEST POINT HWY 29 GA	013	285	SW			1956		O				USCE	
03130002	PROCTOR C TRB (HOLLYWOOD RD WPC) AT ATLANTA,	013	121	SW			1976	1977	A	A			USGS	D
03130002	PROCTOR CREEK AT ST RT 280 AT ATLANTA, GA.	013	121	SW			1976	1977	A	A		A	USGS	D
03130002	NICKAJACK CR (USAF PLANT 6 OUTFALL) SMYRNA,	013	067	SW			1976	1977	A	A			USGS	D
03130002	NICKAJACK CR AT COOPER LAKE DR NR MABLETON,	013	067	SW			1976	1977	A	A		A	USGS	D
03130002	CHATTAHOOCHEE R TRB NO.4 (S COBB WPC) ATL, G	013	067	SW			1976	1977	A	A			USGS	D
03130002	CHATTAHOOCHEE R TRB NO.6 (UTOY WPC) NR ATL,	013	121	SW			1976	1977	A	A			USGS	D
03130002	NORTH FORK UTOY CR AT BEECHER RD AT ATLANTA,	013	121	SW			1977	1977	A	A		A	USGS	D
03130002	UTOY CREEK AT ST RT 70 NEAR ATLANTA, GA.	013	121	SW			1976	1976	A	A			USGS	D
03130002	SWEETWATER CREEK NEAR AUSTELL, GA.	013	097	SW	246.00	004	1937		H	A		H	USGS	D
03130002	CHATTAHOOCHEE R TRB NO.5 (CMP C WPC) NR ATL,	013	121	SW			1976	1977	A	A			USGS	D
03130002	CHATTAHOOCHEE RIVER NEAR FAIRBURN, GA.	013	121	SW	2060.00	014	1968		R	R		R	USGS	D
03130002	SNAKE CREEK NEAR WHITESBURG, GA.	013	045	SW	37.00		1970		K	K		K	USGS	D
03130002	CHATTAHOOCHEE RIVER NEAR WHITESBURG, GA.	013	045	SW	2430.00	014	1941		R	R		R	USGS	D
03130002	CHATT R (WATER INTAKE) NR WEST POINT, GA.	013	145	SW		124	1978				U		USGS	C
03130002	CHATT R AB LONG CANE CR JCT NR WEST POINT, G	013	145	SW		014	1978				U		USGS	C
03130002	CHATT R FRANKLIN GA	013	149	SW			1963	1972	M				USCE	
03130003	UPATOI CREEK NEAR COLUMBUS, GA.	013	053	SW	342.00		1965		H			H	USGS	D
03130004	CHATT R FT GAINES GA	013	061	SW			1951		O				USCE	
03130005	FLINT RIVER NEAR GRIFFIN, GA.	013	255	SW	272.00		1937	1975	S			S	USGS	D
03130005	LINE CREEK NEAR SENOIA, GA.	013	077	SW	101.00		1974	1975	Q			Q	USGS	D
03130005	FLINT RIVER NEAR CULLODEN, GA.	013	293	SW	1850.00	004	1937		2			2	USGS	D
03130006	FLINT RIVER AT MONTEZUMA, GA.	013	193	SW	2900.00	004	1938		E			E	USGS	D
03130006	FLINT R AT MONTEZUMA GA	013	193	SW			1967	1968	Y				USCE	
03130007	KINCHAFOONEE CREEK AT PRESTON, GA.	013	307	SW	197.00		1969		E			E	USGS	D
03130008	FLINT RIVER AT ALBANY, GA.	013	095	SW	5310.00	014	1906		2			2	USGS	D
03130009	PACHITLA CREEK NEAR EDISON, GA.	013	007	SW	188.00	004	1971	1975	A			A	USGS	D
03130009	ICHAWAYNOCHAWAY CREEK AT MILFORD, GA.	013	007	SW	620.00		1941		E			E	USGS	D
03130010	SPRING CREEK NEAR IRON CITY, GA.	013	087	SW	485.00	004	1938		K	K		K	USGS	D

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03130011	APALACHICOLA RIVER AT CHATTAHOOCHEE FLA	012	063	SW	17100.00		1961		R			R	USGS	D
03130012	CHIPOLA RIVER NR ALTHA, FLA.	012	013	SW	781.00	004	1959		M			M	USGS	D
03130014	APALA BAY SEC C	012	037	OC			1971				A		FLO51	D
03140103	YELLOW RIVER AT MILLIGAN, FLA.	012	091	SW	624.00		1959		A			A	USGS	D
03140104	BIG COLDWATER CREEK NR MILTON, FLA.	012	113	SW	237.00		1958	1975	A			A	USGS	D
03140105	ESCAMBIA BAY SEC C BACKGR STA	012	033	OC			1970				A		FLO51	D
03140105	E BAY SEC C BACKGR STA BUOY N6	012	113	OC			1970				A		FLO51	D
03140107	PERDIDO BAY SEC C BACKGROUND STA	012	033	OC			1970				A		FLO51	D
03140203	CHOCTAWHATCHEE RIVER NR BRUCE, FLA.	012	131	SW	4384.00		1966		A			A	USGS	D
03140203	CHOCTAWHATCHEE A PINEY PT FLASH LI	012	091	ES			1973				A		FLO51	D
03140305	ESCAMBIA RIVER NEAR CENTURY, FLA.	012	113	SW	3817.00		1952		Q			Q	USGS	D
03140305	ESCAMBIA RIVER HWY 4 BRIDGE	012	033	SW			1955				A		FLO51	D
03150101	HOLLY CREEK NEAR CHATSWORTH, GA.	013	213	SW	64.90	004	1960		H			H	USGS	D
03150101	CONASAUGA RIVER AT TILTON, GA.	013	313	SW	682.00	004	1941		2			2	USGS	D
03150101	STOVER CR 2 CONTROL	013	313	SW			1973		A				USFS	D
03150102	COOSAWATTEE RIVER NEAR ELLIJAY, GA.	013	123	SW	238.00	004	1941		H			H	USGS	D
03150102	COOSAWATTEE RIVER NR PINE CHAPEL, GA.	013	129	SW	856.00	014	1941		2			2	USGS	D
03150102	COOSAWATTEE R CARTERS GA	013	213	SW			1963		M				USCE	
03150103	WEST ARMUCHEE CREEK NEAR SUBLIGNA, GA.	013	055	SW	34.50		1960		H			H	USGS	D
03150104	ETOWAH R CARTERSVILLE HWY 61 GA	013	015	SW			1961	1974	M				USCE	
03150104	ETOWAH R CARTERSVILLE HWY 41 GA	013	015	SW			1961		M				USCE	
03150104	ETOWAH RIVER AT CANTON, GA.	013	057	SW	605.00	004	1937		2			2	USGS	D
03150104	ETOWAH R BL ALLATOONA DAM GA	013	015	SW			1961		M				USCE	
03150104	ETOWAH R KINGSTON GA	013	015	SW			1961		M				USCE	
03150201	ALABAMA RIVER NEAR MONTGOMERY, ALA.	001	101	SW	15100.00	014	1962		M	6		6	USGS	D
03150201	MULBERRY CREEK AT JONES, AL	001	047	SW	208.00	004	1962		M				USGS	C
03150201	ALABAMA R MONTGOMERY AL	001	101	SW			1961	1971	B				USCE	
03150203	ALA R NR MILLERS FERRY	001	131	SW			1961		B				USCE	
03150204	ALABAMA RIVER AT CLAIBORNE, ALA.	001	099	SW	22000.00	014	1962		M	9		5	USGS	P
03150204	ALA R AT CLAIBORNE	001	099	SW			1951		D				USCE	
03160101	TOMBIGBEE R AT IRONWOOD BLUFF MS	028	057	SW			1973		B				USCE	
03160101	TOMBIGBEE R AB COLUMBUS MS	028	087	SW			1973		B				USCE	
03160101	BURGESS CREEK NR PADEN, MS.	028	141	SW			1975		E			E	USGS	D
03160101	BLACK BRANCH AT PADEN, MS.	028	141	SW			1975		E			E	USGS	D
03160101	MACKEYS CREEK NR DENNIS, MS.	028	141	SW	66.80	004	1971		Y				USGS	C
03160101	TOMBIGBEE RIVER NR FULTON, MS.	028	057	SW	612.00	004	1971		E			E	USGS	D
03160101	TOMBIGBEE RIVER NR AMORY, MS.	028	095	SW	1924.00	004	1974		E			E	USGS	D
03160101	TOMBIGBEE RIVER NR COLUMBUS, MS.	028	087	SW			1974		E			E	USGS	D
03160101	TOMBIGBEE R NR MARIETTA MS	028	057	SW			1971		B				USCE	
03160101	TOMBIGBEE R NR FULTON MS	028	057	SW			1971		D				USCE	

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03160101	TOMBIGBEE R AT BEANS FERRY MS	028	057	SW			1972		B				USCE	
03160101	BULL MOUNTAIN C NR SMITHVILLE MS	028	057	SW			1971		B				USCE	
03160101	TOMBIGBEE R AT BARRS FERRY MS	028	057	SW			1973		B				USCE	
03160101	TOMBIGBEE R AT BIGBEE MS	028	095	SW			1972		B				USCE	
03160101	TOMBIGBEE R AT ABERDEEN MS	028	095	SW			1971		O				USCE	
03160101	TOMBIGBEE R AT COLUMBUS MS	028	087	SW			1967	1968	O				USCE	
03160102	TOWN CREEK AT EASON BOULEVARD AT TUPELO, MIS	028	081	SW	230.00	004	1973	1975	R			R	USGS	D
03160102	TOWN C NR NETTLETON MS	028	095	SW			1973		B				USCE	
03160102	TOMBIGBEE R NR AMORY MS	028	095	SW			1967		O				USCE	
03160103	BUTTAHATCHEE R AT HAMILTON MS	028	095	SW			1971		B				USCE	
03160103	BUTTAHATCHEE RIVER NEAR ABERDEEN, MISS.	028	095	SW	787.00	004	1974	1975	R			R	USGS	D
03160103	BUTTAHATCHEE RV NR SULLIGENT AL	001	075	SW			1976		M				USCE	
03160103	BUTTAHATCHEE RV NR GATTMAN MS	028	095	SW			1976		M				USCE	
03160103	BUTTAHATCHEE RV NR GREENWOOD MS	028	095	SW			1976		M				USCE	
03160103	BUTTAHATCHEE RV AT COLUMBUS AFB MS	028	095	SW			1976		M				USCE	
03160104	CHUQUATONCHEE CR NR OKALONA MS	028	017	SW			1977		M				USCE	
03160104	CHUQUATONCHEE CR E BUENA VISTA MS	028	017	SW			1977		M				USCE	
03160104	CHUQUATONCHEE CR NR EGYPT MS	028	017	SW			1977		M				USCE	
03160104	CHUQUATONCHEE CR NR PRAIRIE MS	028	025	SW			1977		M				USCE	
03160104	HOULKA CR W TREBLOC MS	028	025	SW			1977		M				USCE	
03160104	HOULKA CR NR MCCONDY MS	028	025	SW			1977		M				USCE	
03160104	HOULKA CR N ABBOTT MS	028	025	SW			1977		M				USCE	
03160104	CHUQUATONCHEE CR NR WEST POINT MS	028	025	SW			1977		M				USCE	
03160104	LINE CR NR CEDAR BLUFF MS	028	025	SW			1977		M				USCE	
03160104	CATALPA CR NR MAYHEW MS	028	087	SW			1977		M				USCE	
03160105	LUXAPALLILA CREEK AT STEENS, MISS.	028	087	SW	309.00	004	1964	1975	R			R	USGS	D
03160105	LUXAPALLILA C AT STEENS MS	028	087	SW			1973		O				USCE	
03160105	LUXAPALLILA CR NR COLUMBUS WW MS	028	087	SW			1976		M				USCE	
03160106	TOMBIGBEE RIVER BL COLUMBUS, MISS	028	087	SW			1973	1975	E			E	USGS	D
03160106	TOMBIGBEE RIVER AT GAINESVILLE, ALA.	001	119	SW	8700.00	004	1961		M	E		E	USGS	P
03160106	TOMBIGBEE R AT GAINESVILLE AL	001	119	SW			1971	1975	O				USCE	
03160107	SIPSEY R NR PLEASANT RIDGE	001	063	SW	753.00		1973		B				USCE	
03160108	NOXLBEE R AT GAINESVILLE AL	001	119	SW			1973		B				USCE	
03160108	NOXUBEE RIVER AT MACON, MISS.	028	103	SW	812.00	004	1966	1975	R			R	USGS	D
03160108	NOXUBEE RIVER NEAR GEIGER, ALA.	001	119	SW	1140.00	004	1963		E			E	USGS	D
03160108	NOXUBEE R NR GEIGER AL	001	119	SW			1973		B				USCE	
03160110	SIPSEY FORK NEAR GRAYSON, ALA.	001	133	SW	91.30	004	1965		M			6	USGS	D
03160111	TURKEY CREEK AT MORRIS, AL	001	073	SW	81.50	004	1962		O			2	USGS	D
03160111	TRIBUTARY TO TURKEY CREEK DOWNSTREAM FROM MO	001	073	SW			1975	1977	A			A	USGS	D
03160111	TURKEY CREEK UPSTREAM FROM KIMBERLY, AL	001	073	SW			1975	1977	W			A	USGS	D

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03160111	TRIBUTARY TO TURKEY CREEK NEAR KIMBERLY, AL	001	073	SW			1975	1977	A			A	USGS	D
03160111	CROOKED CREEK NEAR MT. OLIVE, AL	001	073	SW			1975	1977	A	A		A	USGS	D
03160111	TRIBUTARY TO CROOKED CREEK NEAR MT. OLIVE, A	001	073	SW			1975	1977	A			A	USGS	D
03160111	CROOKED CREEK DOWNSTREAM FROM MT. OLIVE, AL	001	073	SW			1975	1977	A			E	USGS	D
03160111	CROOKED CREEK NEAR MORRIS, AL	001	073	SW			1975		O			R	USGS	D
03160112	LITTLE YELLOW CREEK NEAR WHITSON, AL	001	125	SW			1976		A			A	USGS	D
03160112	BLUE CREEK NEAR OAKMAN, AL	001	125	SW	5.70	004	1961		R			R	USGS	D
03160112	BLUE CREEK NEAR WINDHAM SPRINGS, AL	001	125	SW			1976		A			A	USGS	D
03160112	BLUE CREEK NEAR SPENCER HILL, AL	001	125	SW			1975		A			A	USGS	D
03160112	TRIBUTARY TO YELLOW CREEK NEAR WINDHAM SPRIN	001	025	SW			1976		A			A	USGS	D
03160112	YELLOW CREEK NEAR NORTHPORT, AL	001	125	SW			1975		O				USGS	D
03160112	LITTLE TYRO CREEK NEAR SANDTOWN, AL	001	125	SW			1976		A			A	USGS	D
03160112	TYRO CREEK NEAR NEW LEXINGTON, AL	001	125	SW			1967		A				USGS	D
03160112	BEAR CREEK NEAR SAMANTHA, AL	001	125	SW			1975		O				USGS	D
03160112	NORTH RIVER NEAR SAMANTHA, ALA.	001	125	SW	219.00	004	1966		E				USGS	D
03160112	JOHNSON BRANCH NEAR UTLEY, AL	001	125	SW			1976		A			A	USGS	D
03160112	CRIPPLE CREEK NEAR SAMANTHA, AL	001	125	SW			1976		A			A	USGS	D
03160112	TRIBUTARY TO TURKEY CREEK NEAR TUSCALOOSA, A	001	125	SW			1976		A				USGS	D
03160201	TOMBIGBEE R BELOW COFFEEVILLE L&D NR COFFEEV	001	023	SW	18500.00	014	1969		M	5		5	USGS	P
03160203	TOMBIGBEE R JACKSON AL	001	025	SW			1951		O				USCE	
03170001	OKATIBBEE C NR MERIDIAN MS	028	075	SW	239.00		1969	1975	M			7	USGS	D
03170001	SOWASHEE C AT MERIDIAN MS	028	075	SW	51.90	004	1969	1975	M			6	USGS	D
03170001	OKATIBBEE C AT ARUNDEL MS	028	075	SW	342.00	004	1970	1975	M			7	USGS	D
03170002	CHICKASAWHAY R AT ENTERPRISE MS	028	023	SW	913.00	004	1969	1975	M			5	USGS	D
03170002	CHICKASWHAY R NR WAYNESBORO MS	028	153	SW	1660.00	004	1969	1975	M			6	USGS	D
03170002	BUCKATUNNA CREEK NEAR DENHAM, MISS.	028	153	SW	490.00	004	1972	1975	A			A	USGS	D
03170003	CHICKASAWHAY RIVER AT LEAKESVILLE, MS.	028	041	SW	2680.00	004	1972		M			6	USGS	D
03170004	LEAF R NR COLLINS MS	028	031	SW	752.00	004	1970	1975	Q			9	USGS	D
03170004	LEAF RIVER NEAR ELLISVILLE, MISS.	028	067	SW			1973	1975	A				USGS	D
03170004	LEAF RIVER AT EASTABUCHIE, MS.	028	067	SW			1965		A			A	USGS	D
03170004	BOWIE CREEK NR HATTIESBURG MS	028	035	SW	304.00	004	1969	1975	M			5	USGS	D
03170004	OKATOMA C AT SANFORD MS	028	031	SW	240.00	004	1969	1975	Q			9	USGS	D
03170004	BOWIE RIVER NR GLENDALE, MS.	028	035	SW			1973		A				USGS	D
03170005	LEAF RIVER NR PALMER, MS.	028	035	SW		004	1969		M			7	USGS	D
03170005	TALLAHALA C NR RUNNELSTOWN MS	028	111	SW	612.00	004	1969	1975	M			5	USGS	D
03170005	LEAF RIVER AT BEAUMONT, MS.	028	111	SW			1965		A				USGS	D
03170005	LEAF RIVER NR MCLAIN MS	028	041	SW	3510.00	004	1969	1975	M			7	USGS	D
03170006	PASCAGOULA RIVER NR BENNDALE, MS.	028	039	SW	6690.00	004	1958		M			7	USGS	D
03170006	PASCAGOULA RIVER AT HWY 90 AT PASCAGOULA, MI	028	059	SW			1972		E				USGS	D
03170006	WEST PASCAGOULA RIVER AT HWY 90 AT GAUTIER,	028	059	SW			1972	1975	R				USGS	D

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03170007	BLACK CREEK NR BROOKLN MS	028	035	SW	361.00	004	1969	1975	K			K	USGS	D
03170007	CYPRESS CREEK NR JANICE, MS.	028	111	SW	52.20	004	1966		E			E	USGS	D
03170008	ESCATAWPA RIVER AT MOSS POINT, MS.	028	059	SW		004	1969		E				USGS	D
03170009	TCHOUTALABOUFFA R NR BILOXI MISS	028	047	SW			1964	1966	E				USGS	P
03170009	TUXACHANIE C NR BILOXI MISS	028	047	SW	92.40	004	1964	1966	E				USGS	P
03170009	BILOXI R NR LYMAN MISS	028	047	SW	251.00	004	1964	1966	E				USGS	P
03170009	BACK BAY OF BILOXI NEAR BILOXI, MISS.	028	047	SW			1973		R				USGS	D
03170009	BACK BAY OF BILOXI AT OCEAN SPRINGS, MISS.	028	059	SW			1973		K				USGS	D
03170009	WOLF R NR LANDON MISS	028	047	SW	308.00		1964		M			M	USGS	D
03170009	ST. LOUIS BAY AT HWY 90 AT BAY ST. LOUIS, MI	028	045	SW			1974		R				USGS	D
03170009	MISS SND BL ST LOUIS B.IWW MI 55	028	087	SW			1973	1974	E	E		E	USCE	D
03180001	PEARL R NR CARTHAGE MS	028	079	SW	1347.00	004	1968	1975	M			7	USGS	D
03180002	PEARL RIVER AT BARNETT RE NEAR JACKSON, MISS	028	121	SW			1974	1975	R			R	USGS	D
03180002	PEARL R AB BYRAM MS	028	049	SW	3430.00	013	1969	1975	M				USGS	D
03180002	PEARL RIVER AT BYRAM, MS.	028	049	SW			1969		E			E	USGS	D
03180002	PEARL R NR GEORGETOWN MS	028	029	SW	3790.00	014	1969	1975	M			7	USGS	D
03180003	PEARL R NR MONTICELLO MS	028	077	SW	5040.00	004	1964	1975	M			7	USGS	D
03180004	PEARL R NR COLUMBIA MS	028	091	SW	5690.00	004	1969	1975	M			7	USGS	D
03180004	PEARL RIVER NR BOGALUSA	022	059	SW	6630.00		1951		O			O	USGS	D
03180004	HOBOLOCHITTO C NR PICAYUNE MS	028	109	SW		004	1970	1975	M				USGS	D
03180004	RIGOLETS 0.5 MI W OFLIT RIGOLETS	022	071	SW			1968	1974	E	E		E	USCE	D
03180005	MCGEES C AT TYLERTOWN MISS	028	147	SW	130.00		1965	1966	E				USGS	P
03180005	BOGUE CHITTO NR LEHR MS	028	147	SW		004	1969	1975	M			7	USGS	D
03180005	BOGUE CHITTO NEAR BUSH, LOUISIANA	022	103	SW	1210.00		1952		E	E		E	USGS	D

GREAT LAKES REGION 04

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040022 0	AU GRES RIVER NEAR NATIONAL CITY, MICH.	026	069	SW			1967	1967	M	M	M		USGS	P
040022 Y	DETROIT R AT DETROIT MICH	026	163	SW			1957		E				USEPA	C
04010101	BAPTISM RIVER NEAR BEAVER BAY, MN	027	075	SW	140.00	004	1968		E	E		E	USGS	D
04010101	POPLAR R.9MI.E TOFTE MINN	027	031	SW			1975		R				USFS	D
04010101	KIMBALL CK TRIB.10 MI.NE GD.MAR.	027	031	SW			1974		E				USFS	D
04010101	UNNAMED CK 10 MI.NE GRAND MARAIS	027	031	SW			1974		E				USFS	D
04010101	UNNAMED CK 10 MI.NE GRAND MARAIS	027	031	SW			1974		E				USFS	D
04010101	KADUNCE CK TRIB.10 MI.NE GND.MAR	027	031	SW			1974		E				USFS	D
04010101	KADUNCE CK TRIB.10 MI.NE GND.MAR	027	031	SW			1974		E				USFS	D
04010201	ST. LOUIS RIVER AT SCANLON, MN	027	137	SW	3430.00	014	1958		E	E		E	USGS	D
04010201	NEMADJI RIVER NR. BOREA, WIS.	055	031	SW			1973	1973	A			A	USGS	D
04010201	BLACK RIVER NR. BOYLSTON, WIS.	055	031	SW			1973	1973	A			A	USGS	D
04010201	ST LOUIS RIVER7MISE AURORA MINN	027	137	SW			1974		R				USFS	D
04010202	CLOQUET R.22MI.N.TWO HARBORS	027	075	SW			1975		K				USFS	D
04010301	ELIM CREEK NR HOLYOKE, MN	027	017	SW			1976	1976	O	O			USGS	
04010301	SKUNK CREEK BELOW ELIM CREEK NR HOLYOKE, MN	027	017	SW			1975		O	O			USGS	
04010301	DEER CREEK NEAR HOLYOKE, MN	027	017	SW	7.77	004	1975		O	C		O	USGS	D
04010301	LITTLE BALSAM CREEK AT PATZAU, WI	055	031	SW			1975		P	M	M	O	USGS	D
04010301	LITTLE BALSAM CREEK NEAR PATZAU, WI	055	031	SW	4.57		1974		D	Y	Y	O	USGS	D
04010301	LITTLE BALSAM CREEK TRIBUTARY NEAR PATZAU, W	055	031	SW	.64		1975		P	M	M	X	USGS	D
04010301	BALSAM CREEK NR. PATZAU, WIS.	055	031	SW			1973	1973	A			A	USGS	D
04010301	NEMADJI RIVER NEAR SOUTH SUPERIOR, WI	055	031	SW	422.00	004	1972		X	E		O	USGS	D
04010301	PEARSON CREEK NEAR MAPLE, WI	055	031	SW	4.01	004	1967	1967	A			A	USGS	D
04010301	BOIS BRULE RIVER AT BRULE, WI	055	031	SW	120.00	004	1964		M	E		M	USGS	D
04010301	BOIS BRULE RIVER NEAR LAKE SUPERIOR, WI	055	031	SW	181.00	004	1970		R	E		R	USGS	D
04010301	SIOUX RIVER NEAR WASHBURN, WI	055	007	SW	14.90	004	1967	1973	A	A		A	USGS	D
04010301	PINE CREEK AT MOQUAH, WI	055	007	SW		004	1974		O	M	M	O	USGS	D
04010301	PINE CREEK TRIBUTARY AT MOQUAH, WI	055	007	SW		004	1975		E	M	M	O	USGS	D
04010301	PINE CREEK NEAR MOQUAH, WI	055	007	SW			1974		O	Y	Y	O	USGS	D
04010302	BAD RIVER NEAR MELLEN, WI	055	003	SW	83.40	004	1974	1975	K			K	USGS	D
04010302	ALDER CREEK NEAR UPSON, WI	055	051	SW	22.30	004	1972		Q			Q	USGS	D
04010302	BAD RIVER NEAR ODANAH, WI	055	003	SW	611.00		1954		E	E		E	USGS	D
04010302	WHITE RIVER NEAR SANBORN, WI	055	003	SW			1976		N	R		N	USGS	D
04010302	WHITE RIVER AT RESERVOIR NR SANBORN, WIS:	055	001	SW			1974		E			E	USGS	D
04010302	WHITE RIVER NEAR ASHLAND, WI	055	003	SW	279.00	014	1966		R	K		R	USGS	D
04010302	BAD RIVER AT ODANAH WI	055	003	SW		014	1977		M	M		M	USGS	D
04020102	ONTONAGON R NR ROCKLAND, MICH	026	131	SW	1340.00		1973		E	E		E	USGS	D
04020102	PAULDING#2CG T46N R39W S15	026	131	SW			1974		E				USFS	D
04020104	STURGEON R NR CHASSELL, MI	026	061	SW		001	1978		M			M	USGS	D
04020202	TAHQUAMENON RIVER NR TAHQUAMENON PARADISE, M	026	095	SW	790.00	004	1973		E	E		E	USGS	D

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04020300	ST MARYS RIVER ABOVE SAULT STE MARIE, MICH.	026	033	SW		004	1969		E	E		E	USGS	D
04020300	KODONCE CREEK 8 MI.E G MARAIS	027	031	SW			1975		N				USFS	D
040280 A	WASHINGTON CREEK AT WINDIGO, MICH. .	026	091	SW	13.20	004	1963		R	R		R	USGS	D
04030101	KOHLSVILLE R	055	131	SW			1964		A				WI001	P
04030101	EAST TWIN RIVER AT MISHICOT, WI	055	071	SW	111.00	004	1972	1975	E				USGS	
04030101	MANITOWOC RIVER AT MANITOWOC, WI	055	071	SW	530.00	004	1972	1975	E				USGS	P
04030101	SHEBOYGAN RIVER AT SHEBOYGAN, WI	055	117	SW	432.00	014	1964	1978	A			A	USGS	D
04030101	MILWAUKEE RIVER TRIBUTARY NEAR FREDONIA, WI	055	089	SW	.84	004	1975	1975	A			A	USGS	D
04030101	MENOMONEE RIVER AT MENOMONEE FALLS, WI	055	133	SW	34.54	004	1974		O	R		O	USGS	D
04030101	MENOMONEE RIVER AT BUTLER, WI	055	079	SW	60.64	004	1974		O	R		O	USGS	D
04030102	KEWAUNEE RIVER NEAR KEWAUNEE, WI	055	061	SW	129.00	004	1960	1975	E	E	E		USGS	D
04030103	PENSAUKEE RIVER NEAR PENSAUKEE, WI	055	083	SW	137.00	004	1972	1975	E	E	E		USGS	D
04030104	OCONTO RIVER NEAR GILLETT, WI	055	083	SW	678.00	004	1954	1975	E	E	E		USGS	D
04030104	WOLF RIVER AT LANGLADE, WI	055	067	SW	460.00	004	1972		A			A	USGS	D
04030105	PESHTIGO RIVER AT PESHTIGO, WI	055	075	SW	1120.00	014	1965		A			A	USGS	D
04030107	PESHEKEE RIVER NEAR CHAMPION, MICH.	026	103	SW	133.00	004	1960		E				USGS	D
04030107	MICHIGAMME RIVER NEAR WITCH LAKE, MICH. .	026	043	SW	316.00	124	1963		2	O		2	USGS	D
04030108	PINE RIVER AT PINE RIVER CAMPGROUNDS, WIS.	055	041	SW	16.20	004	1967	1967	A			A	USGS	D
04030108	POPPLE RIVER NR. FENCE, WIS.	055	037	SW			1966	1967	A			A	USGS	D
04030108	S. BR. POPPLE RIVER NR. FENCE, WIS.	055	037	SW	10.20	004	1967	1967	A			A	USGS	D
04030108	POPPLE RIVER NEAR FENCE, WI	055	037	SW	131.00	004	1963		M	A		M	USGS	D
04030108	PINE R BELOW PINE R POWERPLANT NEAR FLORENCE	055	037	SW	528.00	014	1971	1973	A			A	USGS	D
04030108	PIKE RIVER AT AMBERG, WI	055	075	SW	253.00	004	1964	1969	E			E	USGS	D
04030108	MENOMINEE RIVER NEAR MCALLISTER, WI	055	075	SW	4020.00	004	1977		M	M		M	USGS	D
04030109	FORD RIVER NR HYDE, MICH.	026	041	SW	450.00		1955		E	E		E	USGS	D
04030110	MIDDLE BRANCH ESCANABA RIVER AT HUMBOLT, MIC	026	103	SW	46.00	024	1961		M	M			USGS	D
04030110	LAKE LORY OUTLET NR HUMBOLDT, MICH. .	026	103	SW		004	1961	1964	A	A			USGS	D
04030110	MCKINNON LAKE OUTLET NR HUMBOLDT, MICH. .	026	103	SW	2.80	004	1961	1964	A	A			USGS	D
04030110	LAKE LORY OUTLET NEAR REPUBLIC, MICH.	026	103	SW	7.45	004	1961	1969	A				USGS	D
04030110	BLACK RIVER NR REPUBLIC, MICH.	026	103	SW	34.40	004	1960	1971	2	M	M	2	USGS	D
04030110	M BR ESCANABA RIVER NR ISHPEMING, MICH.	026	103	SW	128.00	024	1960	1975	E	O			USGS	P
04030110	GREEN CREEK NR PALMER, MICH.	026	103	SW	8.42	014	1963		2	O		2	USGS	D
04030110	ELY CREEK NR NATIONAL MINE, MICH. .	026	103	SW	9.25	004	1962	1964	A				USGS	D
04030110	SCHWEITZER CREEK NEAR PALMER, MICH.	026	103	SW	23.60		1960	1971	M				USGS	D
04030110	EAST BRANCH ESCANABA RIVER AT GWINN, MICH. .	026	103	SW	124.00	124	1953		2	O		2	USGS	D
04030110	ESCANABA RIVER AT CORNELL, MICH. .	026	041	SW	870.00		1956		E	E		E	USGS	D
04030111	WHITEFISH RIVER 6 MI NW RAPID R	026	041	SW			1975		3				USGS	D
04030111	WHITEFISH 12M N GLADSTONE MICH	026	041	SW			1975		S				USFS	D
04030112	FISHDAM 6 MI NORTH NAOMA	026	041	SW			1975		S				USFS	D
04030112	FISHDAM 5 MI NORTH NAOMA	026	041	SW			1975		S				USFS	D

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04030201	LAWRENCE CREEK NEAR WESTFIELD, WI	055	077	SW	16.00	004	1973	1973	A			A	USGS	D
04030201	GRAND RIVER NEAR KINGSTON, WI	055	047	SW	73.70	004	1966	1975	E	A	A		USGS	D
04030201	FOX RIVER AT BERLIN, WI	055	047	SW	1430.00	024	1965	1978	A			A	USGS	D
04030202	SWAMP C AB RICE LK AT MOLE LAKE, WI.	055	041	SW		004	1977		M	Z	Z	M	USGS	D
04030202	SWAMP C BL RICE LK AT MOLE LAKE, WI.	055	041	SW		004	1977		M	Z	Z	M	USGS	D
04030202	WOLF RIVER AT KESHENA FALLS, WI	055	078	SW	812.00	004	1973	1975	A			A	USGS	D
04030202	EMBARRASS RIVER NEAR EMBARRASS, WI	055	115	SW	395.00	014	1954	1975	E	E	E		USGS	D
04030202	WOLF RIVER AT NEW LONDON, WI	055	135	SW	2240.00	004	1973	1978	R			R	USGS	D
04030202	LITTLE WOLF RIVER NEAR GALLOWAY, WI	055	073	SW	22.50	004	1973		A			A	USGS	D
04030202	LITTLE WOLF RIVER AT ROYALTON, WI	055	087	SW	514.00	004	1964	1967	A			A	USGS	D
04030202	TOMORROW RIVER AT AMHERST, WIS.	055	097	SW			1966	1973	A			A	USGS	D
04030202	EMMONS CREEK NEAR RURAL, WI	055	135	SW	27.00	004	1968	1975	E				USGS	P
04030202	WAUPACA RIVER NEAR WAUPACA, WI	055	135	SW	272.00	004	1964	1967	E			E	USGS	D
04030204	FOX RIVER AT WRIGHTSTOWN, WI	055	009	SW	6210.00	014	1960		E	E		E	USGS	D
040323 K	BRULE RIVER NEAR FLORENCE, WI	026	071	SW	389.00	004	1964	1967	N			N	USGS	D
040323 K	MENOMINEE RIVER NEAR PEMBINE, WI	055	109	SW	3240.00	014	1954		A				USGS	P
04040002	OAK CREEK AT SOUTH MILWAUKEE, WI	055	079	SW	25.00	003	1963	1975	E	E			USGS	D
04040002	ROOT RIVER NEAR FRANKLIN, WI	055	079	SW	49.30	003	1961	1975	E	E	E		USGS	D
04040002	ROOT RIVER CANAL NEAR FRANKLIN, WI	055	101	SW	57.20	004	1966		A			A	USGS	D
04040002	ROOT RIVER AT RACINE, WI	055	101	SW	187.00	004	1961	1975	E	E	E		USGS	D
04040003	GRAND R. AT CO. HWY. H, NR. KINGSTON, WIS.	055	047	SW			1966	1971	A			A	USGS	D
04040003	MILWAUKEE RIVER AT KEWASKUM, WI	055	131	SW	146.00	004	1968	1975	E	E	E		USGS	D
04040003	EAST BRANCH MILWAUKEE RIVER NEAR NEW FANE, W	055	039	SW	57.20	004	1968	1975	E	E	E		USGS	D
04040003	N. BR. MILWAUKEE RIVER NR. CASCADE, WIS.	055	117	SW	43.20	004	1973	1973	A			A	USGS	D
04040003	NORTH BRANCH MILWAUKEE RIVER NEAR FILLMORE,	055	131	SW	153.00	004	1968		E	E	E		USGS	D
04040003	MILWAUKEE RIVER AT WAUBEKA, WI	055	089	SW	428.00	004	1969	1978	A			A	USGS	D
04040003	CEDAR CREEK NEAR CEDARBURG, WI	055	089	SW	121.00	004	1966	1978	K			K	USGS	D
04040003	MILWAUKEE RIVER AT MILWAUKEE, WI	055	079	SW	686.00	001	1964		E	E		E	USGS	D
04040003	MENOMONEE RIVER AT GERMANTOWN, WI	055	131	SW	18.77	004	1974		O	S		O	USGS	D
04040003	JEFFERSON PARK DRAIN AT GERMANTOWN, WI	055	131	SW		003	1976		D	Q	A		USGS	D
04040003	MENOMONEE RIVER AT MENOMONEE FALLS, WIS.	055	131	SW	32.00	004	1973	1974	A			A	USGS	D
04040003	LITTLE MENOMONEE RIVER NEAR FREISTADT, WI	055	089	SW	7.96	004	1973	1978	X	S		O	USGS	D
04040003	NOYES CREEK AT MILWAUKEE, WI	055	079	SW	2.01		1974		X	S		O	USGS	D
04040003	LITTLE MENOMONEE RIVER AT MILWAUKEE, WI	055	079	SW	19.64		1974		X	S		O	USGS	D
04040003	UNDERWOOD CREEK AT WAUWATOSA, WI	055	079	SW	18.13	003	1973	1978	X	R		O	USGS	D
04040003	HONEY CREEK AT WAUWATOSA, WI	055	079	SW	10.30		1973	1978	X	R		O	USGS	D
04040003	MENOMONEE RIVER AT WAUWATOSA, WI	055	079	SW	123.00	003	1962	1978	O	R		O	USGS	D
04040003	SCHOONMAKER CREEK AT WAUWATOSA, WI	055	079	SW	1.96	003	1974		O	S		O	USGS	D
04040003	HAWLEY ROAD STORM SEWER AT WAUWATOSA, WI	055	079	SW	1.84	003	1974	1978	O	A		O	USGS	D
04040003	MENOMONEE RIVER AT FALK CORP AT MILWAUKEE, W	055	079	SW	133.82	003	1974		O	A		O	USGS	D

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04050001	BAW BEESE LAKE INLET AT M-99 NR HILLSDALE, M	026	059	SW			1973	1975	A			E	USGS	D
04050001	BAW BEESE LK OUT AT LKVW RD AT HILLSDALE, MI	026	059	SW	5.10	004	1974		A			A	USGS	D
04050001	BAW BEESE LK OUT AT GRSWLD RD AT HILLSDALE,	026	059	SW			1974	1978	A			E	USGS	D
04050001	KING LK INLET AT CAMBRIA RD AT HILLSDALE, MI	026	059	SW			1973		A			A	USGS	D
04050001	KING LAKE OUTLET AT M-99 AT HILLSDALE, MICH.	026	059	SW			1973		A			A	USGS	D
04050001	KING LK OUT AT STEAMBURG RD AT HILLSDALE, MI	026	059	SW	4.19	004	1973		A			A	USGS	D
04050001	ST. JOSEPH RIVER AT SOUTH ST AT HILLSDALE, M	026	059	SW			1973		A			A	USGS	D
04050001	ST. JOSEPH R AT FAYETTE ST AT HILLSDALE, MIC	026	059	SW	12.40	004	1974		R			R	USGS	D
04050001	ST. JOSEPH RIVER BELOW STP AT HILLSDALE, MIC	026	059	SW			1974		A			A	USGS	D
04050001	WINONA LK OUT AT HILLSDALE ST AT HILLSDALE,	026	059	SW			1973		A			E	USGS	D
04050001	BEEBE CREEK AT MAUCK RD NEAR NORTH ADAMS, MI	026	059	SW			1974		A			E	USGS	D
04050001	BEEBE CREEK AT KNOWLES RD NR NORTH ADAMS, MI	026	059	SW			1974		A			A	USGS	D
04050001	BEEBE CREEK AT STATE RD NEAR NORTH ADAMS, MI	026	059	SW	20.20	004	1974		A			A	USGS	D
04050001	BEEBE C AT LK PLEASANT RD NR NORTH ADAMS, MI	026	059	SW	24.60	004	1974		A			A	USGS	D
04050001	BEEBE CREEK AT MILNES RD NEAR HILLSDALE, MIC	026	059	SW			1973		A			A	USGS	D
04050001	BEEBE C TRIB AT BARKER RD NR NORTH ADAMS, MI	026	059	SW			1973		A			E	USGS	D
04050001	BEEBE C TRIB AT MILNES RD NEAR HILLSDALE, MI	026	059	SW			1975		A			A	USGS	D
04050001	UNNAMED TRIB TO BEEBE CR TRIB NR N. ADAMS, M	026	059	SW			1973	1974	A			A	USGS	D
04050001	TR TO BEEBE C TR AT MILNES RD NR HILLSDALE,	026	059	SW			1973		A			A	USGS	D
04050001	HALF MOON LK OUT,N ADAMS RD,NR JONESVILLE, M	026	059	SW			1973		A			E	USGS	D
04050001	BEEBE CREEK TRIB AT BALL RD NR HILLSDALE, MI	026	059	SW	10.80	004	1974		A			A	USGS	D
04050001	BEEBE CREEK NEAR HILLSDALE, MICH. .	026	059	SW	42.40	004	1973		O	E		O	USGS	D
04050001	ST JOSEPH RIVER AT MOORE RD NR HILLSDALE, MI	026	059	SW	62.40	004	1973		A			A	USGS	D
04050001	ST JOSEPH RIVER AT US-12 AT JONESVILLE, MICH	026	059	SW	66.50	004	1974		R			R	USGS	D
04050001	ST. JOSEPH R BELOW STP AT JONESVILLE, MICH.	026	059	SW			1974		A			A	USGS	D
04050001	BUTTERNUT CREEK NEAR JONESVILLE, MICH. .	026	059	SW			1976		R			R	USGS	D
04050001	ST. JOSEPH R AT STERLING RD NR LITCHFIELD, M	026	059	SW			1974		A			A	USGS	D
04050001	ST. JOSEPH R AT MILL POND AT LITCHFIELD, MIC	026	059	SW			1974		A			E	USGS	D
04050001	ST. JOSEPH RIVER AT LITCHFIELD, MICH. .	026	059	SW	81.00	004	1973		R	E		R	USGS	D
04050001	SAND C TRIB BELOW MECHANIC RD NR HILLSDALE,	026	059	SW			1974		E			E	USGS	D
04050001	SAND CREEK AT SAND LAKE RD NR JONESVILLE, MI	026	059	SW	9.44	004	1974		K			K	USGS	D
04050001	SAND CREEK AT US-12 NEAR ALLEN, MICH. .	026	059	SW			1973		A			S	USGS	D
04050001	SAND C TRIBUTARY AT BEULOW RD NEAR ALLEN, MI	026	059	SW			1973		A			A	USGS	D
04050001	SAND CREEK AT JONESVILLE RD NR ALLEN, MICH.	026	059	SW			1974		A			A	USGS	D
04050001	SAND CREEK AT LITCHFIELD, MICH. .	026	059	SW	20.60	004	1973		O	E		O	USGS	D
04050001	SAND CREEK AT STORMS RD NEAR LITCHFIELD, MIC	026	059	SW	23.20	004	1974		N			N	USGS	D
04050001	ST. JOSEPH R AT S CO LINE RD NR LITCHFIELD,	026	025	SW			1973		A			E	USGS	D
04050001	SOAP CREEK AT MCLAINE RD NEAR LITCHFIELD, MI	026	059	SW	4.66	004	1973		R			R	USGS	D
04050001	SOAP CREEK AT LITCHFIELD RD NR LITCHFIELD, M	026	023	SW	10.90	004	1973		O	E		O	USGS	D
04050001	SOAP CREEK AT ELY RD NEAR LITCHFIELD, MICH.	026	023	SW	13.10	004	1974		N			N	USGS	D

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04050001	SOAP CREEK AT S CO LINE RD NR LITCHFIELD, MI	026	059	SW			1974	1974	A			A	USGS	D
04050001	ST. JOSEPH R AT T DRIVE SOUTH NEAR HOMER, MI	026	025	SW			1973		A			S	USGS	D
04050001	ST JOSEPH RIVER AT CLARENDON, MICH. .	026	025	SW	144.00	004	1973		D	E		D	USGS	D
04050001	ELKHART RIVER AT GOSHEN, IND.	018	039	SW	594.00	014	1963		K			K	USGS	D
04050001	ST JOSEPH R AT CONSTANTINE RD BRDG	026	149	SW			1968	1975	M				MI001	C
04050002	BLACK R AT HOLLAND MI	026	139	SW			1963	1975	M				MI001	
04050002	BLACK R AT R AVE BRDG AT HOLLAND	026	139	SW			1973	1975	M				MI001	C
04050003	SOUTH BRANCH KALAMAZOO RIVER AT HOMER, MICH.	026	025	SW	139.00	004	1971	1972	K			K	USGS	D
04050003	SOUTH BRANCH KALAMAZOO RIVER BELOW HOMER, MI	026	025	SW			1972	1972	K			K	USGS	D
04050003	SOUTH BRANCH KALAMAZOO RIVER NEAR ALBION, MI	026	025	SW	146.00	004	1971	1972	K	E		K	USGS	D
04050003	SOUTH BRANCH KALAMAZOO RIVER AT ALBION, MICH	026	025	SW	151.00	004	1971	1972	K			K	USGS	D
04050003	NORTH BRANCH KALAMAZOO RIVER NEAR ALBION, MI	026	075	SW			1971	1971	A			A	USGS	D
04050003	KALAMAZOO RIVER AT SAUGATUCK, MICH. .	026	005	SW	2020.00	004	1973		M	M		E	USGS	D
04050004	RED CEDAR RIVER AT EAST LANSING, MICH. .	026	065	SW	355.00	004	1963	1975	A	A		A	USGS	D
04050004	GRAND RIVER AT LANSING, MICH. .	026	065	SW	1230.00		1962	1975	A			A	USGS	D
04050004	GRAND RIVER AT PORTLAND, MICH. .	026	067	SW	1385.00	004	1962	1975	A	A		A	USGS	D
04050004	RED CEDAR R AT ZIMMER RD BRDG	026	065	SW			1971	1975	M				MI001	C
04050004	RED CEDAR R AT ELM ST BRDG IN LANS	026	065	SW			1971	1975	M				MI001	C
04050004	SYCSMORE C AT HOLT RD BRDG	026	065	SW			1971	1975	M				MI001	C
04050004	M B RED CEDAR R AT OLD US 16 BRDG	026	093	SW			1971	1975	M				MI001	C
04050004	RED CEDAR R AT BOWEN RD BRDG	026	093	SW			1972	1975	M				MI001	C
04050005	LAKE ADAMS OUT AT DEWEY RD NR NORTH ADAMS, M	026	059	SW			1976	1976	A				USGS	D
04050005	S SAND LK OUTLET AT BACON RD NR HILLSDALE, M	026	059	SW			1973		E			E	USGS	D
04050005	M SAND LK OUT AT MECHANIC RD NR HILLSDALE, M	026	059	SW			1973		E			E	USGS	D
04050005	MAPLE R AT M-21 BRDG	026	067	SW			1971	1975	M				MI001	C
04050006	GRAND RIVER AT IONIA, MICH. .	026	067	SW	2840.00	004	1963	1975	A	A		A	USGS	D
04050006	GRAND R AT THE MOUTH	026	139	SW			1963		E				MI001	P
04050007	THORNAPPLE R AT MCKEOWN RD HASTING	026	015	SW			1973	1975	M				MI001	C
04050007	THORNAPPLE R GRAND R DR BRDG NR AD	026	081	SW			1971	1975	M				MI001	C
04060101	MUSKEGON RIVER AT US-31 NR MUSKEGON, MICH.	026	121	SW	2567.00	004	1974	1974	N	N			USGS	D
04060101	PERE MASQUETTE R AT LUDINGTON MI	026	105	SW			1963	1975	M				MI001	P
04060101	BIG SABLE R AT QUARTERLINE RD BRDG	026	105	SW			1966	1975	M				MI001	C
04060101	PERE MARQUETTE R AT SCOTTVILLE RD	026	105	SW			1970	1975	M				MI001	C
04060101	WHITE R NR WHITEHALL MI	026	121	SW			1963	1975	M				MI001	P
04060101	BLACK C NR MOUTH	026	121	SW			1971	1974	M				MI001	C
04060101	BLACK CR AT EVANSTON RD BRIDGE	026	121	SW			1972		M				MI001	C
04060101	WHITE R AT NORTHBOUND US31	026	121	SW			1972		M				MI001	C
04060101	PENTWATER R AT PENTWATER MI	026	127	SW			1963	1975	M				MI001	P
04060101	N BR PENTWATER R AT US 31 BRDG	026	127	SW			1973	1975	M				MI001	C
04060102	MUSKEGON R NR BRIDGETON, MICH. .	026	121	SW	2420.00		1973		E	E		E	USGS	D

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04060102	MUSKEGON R BL BIG RAPIDS	026	121	SW			1972	1975	M				MI001	C
04060102	MUSKEGON R AT M55 BRDG	026	113	SW			1973	1975	M				MI001	C
04060102	MUSKEGON R AT S BANK OF OUTLET	026	121	SW			1963		E				MI001	P
04060102	MUSKEGON R AT NORTHBOUND US31	026	121	SW			1972		M				MI001	C
04060102	MOSQUITO CR, END OF MILL IRON RD	026	121	SW			1972		M				MI001	C
04060102	MUSKEGON R AT BRDG ST BRDG NEWAGGO	026	123	SW			1966	1975	M				MI001	C
04060103	PINE RIVER NEAR LUTHER, MICH. .	026	085	SW			1965	1970	2	R		2	USGS	D
04060103	SILVER CREEK NEAR LUTHER, MICH.	026	085	SW			1967	1970	2	R		2	USGS	D
04060103	POPLAR CREEK NEAR HOXEYVILLE, MICH. .	026	165	SW			1967	1970	2	R		2	USGS	D
04060103	PINE RIVER NEAR DUBLIN, MICH.	026	165	SW			1966	1970	2	K		2	USGS	D
04060103	PINE RIVER NEAR WELLSTON, MICH. .	026	101	SW			1965	1970	2	R		2	USGS	D
04060103	MANISTEE R AT MANISTEE, MICH. .	026	101	SW	1780.00		1973		E	E		E	USGS	D
04060103	PINE R 3 MI. W WELLSTON, MICH.	026	101	SW			1971		E				USFS	D
04060103	PINE R 2MI.SW HOXEYVILLE, MICH.	026	165	SW			1971		E				USFS	D
04060103	PINE R 6MI N.LUTHER,MICH.	026	085	SW			1971		E				USFS	D
04060103	PINE R 3MI.S BRISTOL,MICH.	026	085	SW			1971		E				USFS	D
04060103	MANISTEE R AT MAPLE STREET BRDG	026	101	SW			1963		M				MI001	P
04060103	LITTLE MANISTEE R AT WATER ST BRDG	026	101	SW			1966	1975	M				MI001	C
04060106	MANISTIQUE RIVER ABOVE MANISTIQUE, MICH. .	026	153	SW	1445.00	004	1974		E	E		E	USGS	D
04060200	MANISTIQUE RIVER AT MANISTIQUE, MICH. .	026	153	SW	1450.00	004	1974	1975	K	K		K	USGS	D
04060200	PIKE RIVER NEAR RACINE, WI	055	059	SW	38.70	004	1971	1975	E				USGS	D
04070003	AU SABLE R NR AU SABLE MI	026	069	SW	1540.00	014	1978		M			M	USGS	D
04070004	CHEBOYGAN R AT LINCOLN AVE AT CHEBOYGAN, MIC	026	031	SW	1458.00		1973		M	M		E	USGS	D
04070004	CHEBOYGAN R AT US-23 BRIDGE	026	031	SW			1973		M				MI001	C
04070006	HUNT CREEK NEAR LEWISTON, MICH.	026	119	SW	11.00	004	1970	1972	M	Q		M	USGS	D
04070006	THUNDER BAY R- DAM ABOVE 9TH ST	026	007	SW			1973		E				MI001	C
04070007	AU SABLE R AT KEYSTONE LNDG NR GRAYLING, MIC	026	039	SW			1971	1971	A			A	USGS	D
04070007	AUSABLE R AT CO RD 612 BRDG W FRED	026	039	SW			1966	1975	M				MI001	C
04070007	AU SABLE R AT REA RD BRIDGE	026	069	SW			1973		E				MI001	C
04070007	VAN ETTEN CR. AT M-171 BRIDGE	026	069	SW			1973		E				MI001	C
04080101	RIFLE RIVER NEAR STERLING, MICH.	026	011	SW	320.00		1966		2	E		2	USGS	D
04080101	RIFLE R AT STATE ROAD	026	011	SW			1963		M				MI001	P
04080101	AU GRES R. AT US-23 BRIDGE	026	011	SW			1973		Q				MI001	C
04080102	PINE R NR STANDISH MI	026	011	SW			1963	1975	M				MI001	P
04080102	KAWRAWLIN R AT KAWRAWLIN MI	026	017	SW			1963	1975	M				MI001	P
04080103	PIGEON R NR CASEVILLE, MI	026	063	SW		004	1978		M			M	USGS	D
04080103	SEBEWAING R AT SEBEWAING MI	026	063	SW			1963	1975	M				MI001	P
04080104	WILLOW R AT US 25 BRDG	026	063	SW			1967	1975	M				MI001	C
04080201	TITTABAWASSEE R MAPLETON	026	111	SW			1963	1975	M				MI001	C
04080201	TITTABAWASSEE R CURTIS RD EDENVILL	026	111	SW			1973	1975	M				MI001	C

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04080202	PINE R AT HARRISON RD BRDG	026	057	SW			1967	1975	M				MI001	C
04080202	PINE R BL ST LOUIS	026	057	SW			1972	1975	M				MI001	C
04080202	CHIPPEWA R AT ISABELLA RD BRDG	026	073	SW			1971	1975	M				MI001	C
04080203	SHIAWASSEE RIVER AT LINDEN, MICH. .	026	049	SW	81.20	004	1975	1975	A			A	USGS	D
04080203	SHIAWASSEE RIVER AT BYRON, MICH. .	026	155	SW	368.00	004	1953		A			A	USGS	D
04080203	SHIAWASSEE RIVER AT OWOSSO, MICH. .	026	155	SW	538.00	004	1966	1975	2	A		2	USGS	D
04080203	SHIAWASSEE RIVER NEAR FERGUS, MICH. .	026	145	SW	637.00	004	1967	1975	A	A		A	USGS	D
04080203	SHIAWASSEE R AT SEYMOUR RD BRDG	026	049	SW			1971	1975	M				MI001	C
04080203	S B SHIAWASSEE R AT NORTON RD BRDG	026	093	SW			1971	1975	M				MI001	C
04080203	SHIAWASSEE R BL CHESANING	026	145	SW			1972	1975	M				MI001	C
04080203	SHIAWASSEE R AT JODDVILLE RD	026	155	SW			1971	1975	M				MI001	C
04080204	FLINT RIVER NEAR FLINT, MICH. .	026	049	SW	954.00	014	1953	1975	A	A		A	USGS	D
04080204	FLINT RIVER NEAR FOSTERS, MICH. .	026	145	SW	1189.00	014	1967	1975	A	A		A	USGS	D
04080204	SWARTZ C KEARSLEY ST BRDG FLINT	026	049	SW			1971	1975	M				MI001	C
04080204	FLINT R AT ELMS RD BRIDGE	026	049	SW			1969		M				MI001	C
04080204	FLINT R AT MOUNT MORRIS RD	026	049	SW			1971		M				MI001	C
04080204	FLINT R AT CARPENTER RD BRDG	026	049	SW			1973	1975	M				MI001	C
04080204	FLINT R AT GENESEE RD BRDG	026	049	SW			1973	1975	M				MI001	C
04080204	FLINT R AT KLAN RD BRDG	026	087	SW			1967	1975	M				MI001	C
04080204	S B FLINT R AT MAYFIELD RD BRDG	026	087	SW			1971	1975	M				MI001	C
04080204	FLINT R AT E BURT RD BRIDGE	026	145	SW			1971		M				MI001	C
04080205	CASS RIVER AT FRANKENMUTH, MICH.	026	145	SW	848.00	004	1960	1972	2	A		2	USGS	D
04080205	CASS R BL FARNKENMUTH	026	145	SW			1972	1975	M				MI001	C
04080205	CAS R AT WELLS RD BRDG WAHJAMEGA	026	157	SW			1971	1975	M				MI001	C
04080206	SAGINAW RIVER AT SAGINAW, MICH.	026	145	SW	6060.00		1973		M	M		E	USGS	D
04080206	SAGINAW R AT MIDLAND ST BRIDGE	026	017	SW			1973		M				MI001	C
04080300	THUNDER BAY R NR BOLTON MI	026	007	SW			1960	1967	M				USGS	P
04080300	WHITNEY DRAIN E B AUGRES R US 23	026	011	SW			1973	1975	M				MI001	C
04080300	TAWAS R AT TAWAS CITY MI	026	069	SW			1963	1975	E				MI001	P
04080300	AUSABLE R AT OSCODA MI	026	069	SW			1963	1975	M				MI001	P
04080300	TAWAS R AT US 23 AT TAWAS CITY	026	069	SW			1973	1975	M				MI001	C
04090001	ST CLAIR RIVER AT PORT HURON, MICH. .	026	147	SW		004	1967	1974	M			M	USGS	D
04090001	BLACK RIVER NEAR FARGO, MICH. .	026	147	SW	480.00	004	1960	1968	2	E		2	USGS	D
04090003	CLINTON RIVER NEAR FRASER, MICH. .	026	099	SW	444.00	004	1960	1969	E			E	USGS	D
04090003	CLINTON RIVER AT MOUNT CLEMENS, MICH. .	026	099	SW	734.00	004	1973		E	E		E	USGS	D
04090003	RED RUN R 14 MILE RD BRIDGE WARREN	026	099	SW			1963	1975	M				MI001	P
04090004	DETROIT R AT DETROIT, MICH. .	026	163	SW		004	1969		E	E		E	USGS	D
04090004	MIDDLE R ROUGE AB PHOENIX LK NR PLYMOUTH, MI	026	163	SW			1973	1974	N	A		N	USGS	D
04090004	MIDDLE R ROUGE BL PHOENIX LK NR PLYMOUTH, MI	026	163	SW			1973	1974	N	A		N	USGS	D
04090004	MIDDLE R ROUGE AB WILCOX LK AT PLYMOUTH, MIC	026	163	SW			1973	1974	N	N		N	USGS	D

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04090004	MIDDLE R ROUGE BL WILCOX LK AT PLYMOUTH, MIC	026	163	SW			1973	1974	N	N		N	USGS	D
04090004	MIDDLE R ROUGE AT HAGGERTY RD AT PLYMOUTH, M	026	163	SW			1967	1974	N	A		N	USGS	D
04090004	MIDDLE R ROUGE AB NEWBURGH LK AT PLYMOUTH, M	026	163	SW			1973	1974	N	N		N	USGS	D
04090004	MIDDLE R ROUGE BL NEWBURGH LK NR PLYMOUTH, M	026	163	SW			1973	1974	N	N		N	USGS	D
04090004	RIVER ROUGE AT W.JEFFERSON AVE.	026	163	SW			1966		M				MI001	C
04090005	HURON RIVER NEAR DEXTER, MICH. .	026	161	SW	522.00	004	1947		2			2	USGS	D
04090005	PIGEON R AT M25 BRDG AT CASEVILLE	026	063	SW			1973	1975	M				MI001	C
04090005	HURON R AT N. TERRITORIAL RD BR	026	161	SW			1967		M				MI001	C
04100002	RIVER RAISIN NEAR MONROE, MICH. .	026	115	SW	1042.00	004	1966		2	E		2	USGS	D
04100002	R RAISIN AT SHARON VALLEY RD BR	026	161	SW			1972		M				MI001	C
04100004	WABASH RIVER AT BLUFFTON, IND	018	179	SW	532.00	004	1968	1971	N	A		N	USGS	D
04100004	ST. MARYS RIVER NEAR FORT WAYNE, IND.	018	003	SW	762.00		1953	1967	2	A		2	USGS	D
04100006	TIFFIN R AT STRYKER OH	039	171	SW	410.00	004	1952		E	E		E	USGS	D
04100007	AUGLAIZE R NR FORT JENNINGS OH	039	137	SW	332.00	024	1965		E	E		E	USGS	D
04100007	AUGLAIZE R NR DEFIANCE OH	039	039	SW	2318.00	014	1936		2	E		E	USGS	D
04100008	BLANCHARD R NR FINDLAY OH	039	063	SW	346.00	004	1965		E	E		E	USGS	D
04100009	MAUMEE R AT WATERVILLE OH	039	095	SW	6330.00	004	1949		2	R		2	USGS	D
04100010	PORTAGE R AT WOODVILLE OH	039	143	SW	428.00	024	1949	1974	2			2	USGS	D
04100010	PORTAGE R AT RAILROAD BRIDGE AT WOODVILLE OH	039	143	SW	428.00	004	1949		2			2	USGS	D
04100011	SANDUSKY R NR BUCYRUS OH	039	033	SW	88.80	004	1943		E	E		E	USGS	D
04100011	TYMOCHTEE C AT CRAWFORD OH	039	175	SW	229.00	004	1965	1975	M	M	M		USGS	D
04100011	SANDUSKY R AT ST JOHNS BRIDGE NR MEXICO OH	039	147	SW	771.00	004	1968	1976	E	E	E		USGS	D
04100011	SANDUSKY R NR MEXICO OH	039	147	SW	774.00	004	1965		R	R		R	USGS	D
04100011	SANDUSKY R NR FREMONT OH	039	143	SW	1251.00	004	1949	1974	2			2	USGS	D
04100011	SANDUSKY R AT FREMONT OH	039	143	SW	1257.00	004	1947	1975	O	M			USGS	P
04100012	HURON R AT MILAN OH	039	043	SW	371.00	004	1950	1974	H	A		H	USGS	D
04100012	VERMILION R NR VERMILION OH	039	093	SW	262.00	004	1950		E	E		E	USGS	D
04110001	BLACK R AT ELYRIA OH	039	093	SW	396.00	004	1961	1974	R	A		R	USGS	D
04110001	ROCKY R NR BEREA OH	039	035	SW	267.00	004	1964		O	E		O	USGS	D
04110002	L CUYAHOGA R BL OHIO CA AT AKRON OH	039	153	SW	59.20	014	1973		O				USGS	D
04110002	CUYAHOGA R AT OLD PORTAGE OH	039	153	SW	404.00	124	1964		O	E		O	USGS	D
04110002	MUD BK AT AKRON-PENINSULA ROAD NR AKRON OH	039	153	SW	29.30	014	1976		O				USGS	D
04110002	YELLOW C AT BATH ROAD NR BOTZUM OH	039	153	SW	30.70	014	1976		O				USGS	D
04110002	FURNACE RN AT WHEATLEY ROAD NR EVERETT OH	039	153	SW	17.70	014	1976		O				USGS	D
04110002	CUYAHOGA R AT PENINSULA OH	039	153	SW	494.00	014	1976		O				USGS	D
04110002	BRANDYWINE C NR JAITE OH	039	153	SW	27.20	014	1976		O				USGS	D
04110002	CHIPPEWA C AT RIVERVIEW ROAD NR BRECKSVILLE	039	035	SW	17.70	014	1976		O				USGS	D
04110002	TINKERS C AT BEDFORD OH	039	035	SW	83.90	004	1965		O	E		O	USGS	D
04110002	CUYAHOGA R AT INDEPENDENCE OH	039	035	SW	707.00	124	1947		O	E		O	USGS	D
04110003	EUCLID C NR EUCLID OH	039	035	SW	22.60		1977	1978	X			O	USGS	D

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04110003	CHAGRIN R AT WILLOUGHBY OH	039	085	SW	246.00	024	1950		X	E		O	USGS	D
04110003	ASHTABULA R NR ASHTABULA OH	039	007	SW	121.00	004	1964	1974	H	A		H	USGS	D
04110004	GRAND R NR MADISON OH	039	085	SW	581.00	004	1965	1974	R	R		R	USGS	D
04120101	CONNEAUT C AT CONNEAUT OH	039	007	SW	175.00	004	1964		E	E		E	USGS	D
04130002	GENESEE RIVER AT WELLSVILLE NY	036	003	SW	289.00		1972	1977	O	R		O	USGS	D
04130002	GENESEE RIVER AT TRANSIT BRIDGE NEAR ANGELIC	036	003	SW	577.00		1975	1977	H	R		H	USGS	D
04130002	GENESEE RIVER AT HOUGHTON NY	036	003	SW		004	1969		R	R		R	USGS	D
04130002	GENESEE RIVER AT PORTAGEVILLE NY	036	121	SW	981.00		1964	1977	O	N		O	USGS	D
04130002	SUGAR CREEK NEAR CANASERAGA NY	036	051	SW	19.20		1975	1977	M	R		M	USGS	D
04130002	CANASERAGA CREEK ABOVE DANSVILLE NY	036	051	SW	90.00		1974	1977	M	R		M	USGS	D
04130002	STONY BROOK AT STONY BROOK STATE PARK NY	036	051	SW	20.80		1974	1977	M	R		M	USGS	D
04130002	MILL CREEK AT PATCHINVILLE NY	036	101	SW	5.00	004	1976	1977	M	Q			USGS	D
04130002	MILL CREEK AT PERKINSVILLE NY	036	101	SW	.		1977		N	R		N	USGS	D
04130002	MILL CREEK NEAR DANSVILLE NY	036	051	SW	21.99	004	1976	1977	M	M			USGS	D
04130002	MILL CREEK AT DANSVILLE NY	036	051	SW	35.90		1974	1977	Q	R		Q	USGS	D
04130002	CANASERAGA CREEK NEAR DANSVILLE NY	036	051	SW	153.00		1971	1976	M	M			USGS	D
04130002	CANASERAGA CREEK AT GROVELAND NY	036	051	SW	181.00		1959	1977	Q	R		Q	USGS	D
04130002	BRADNER CREEK NEAR DANSVILLE NY	036	051	SW	7.45		1970	1977	Q	R		Q	USGS	D
04130002	BRADNER CREEK NEAR SONYEA NY	036	051	SW	16.52		1974	1977	N	R		N	USGS	D
04130002	KESHEQUA CREEK AT NUNDA NY	036	051	SW	32.60		1974	1977	H	K		H	USGS	D
04130002	KESHEQUA CREEK AT TUSCARORA NY	036	051	SW	58.60		1974	1977	K	A		K	USGS	D
04130002	KESHEQUA CREEK AT SONYEA NY	036	051	SW	68.80		1974	1977	H	K		H	USGS	D
04130002	CANASERAGA CREEK AT SHAKERS CROSSING NY	036	051	SW	333.00	014	1964	1977	O	R		O	USGS	D
04130002	CANASERAGA CREEK NEAR DANSVILLE NY	036	051	SW	153.00		1971	1976	M	R		M	USGS	D
04130003	ERIE(BARGE)CANAL AT ST HWY 383 AT ROCHESTER	036	055	SW			1972	1974	M	M			USGS	D
04130003	GENESEE RIVER AT JONES BRIDGE NR MOUNT MORRI	036	051	SW	1417.00		1953	1977	O	A		O	USGS	D
04130003	LITTLE CONESUS CREEK NEAR SOUTH LIMA NY	036	051	SW	7.39	004	1975	1976	H			H	USGS	D
04130003	LITTLE CONESUS CREEK NEAR EAST AVON NY	036	051	SW	8.05		1975	1976	H			H	USGS	D
04130003	GENESEE RIVER AT AVON NY	036	051	SW	1667.00		1964	1977	O	R		O	USGS	D
04130003	OATKA CREEK AT ROCK GLEN NY	036	121	SW	16.00	004	1974	1977	M	K		H	USGS	D
04130003	OATKA CREEK AT WARSAW NY	036	121	SW	41.90		1964	1977	M	K		M	USGS	D
04130003	OATKA CREEK AT PEARL CREEK NY	036	121	SW	80.70		1974	1977	M	A		M	USGS	D
04130003	PEARL CREEK AT PEARL CREEK NY	036	121	SW	10.90		1964	1978	M	K		M	USGS	D
04130003	OATKA CREEK NEAR PAVILION CENTER NY	036	037	SW	111.00		1974	1978	H	R		H	USGS	D
04130003	MAD CREEK NEAR LE ROY NY	036	037	SW	10.10		1974	1977	N	A		N	USGS	D
04130003	OATKA CREEK AT GARBUTT NY	036	055	SW	204.00		1954	1977	O	A		O	USGS	D
04130003	GENESEE R AT BALLANTYNE BRIDGE NEAR MORTIMER	036	055	SW	2206.00	014	1970	1974	A	A		A	USGS	D
04130003	BLACK CREEK AT CHURCHVILLE, N.Y.	036	055	SW	123.00	124	1960	1975	H	A		H	USGS	D
04130003	GENESEE RIVER AT ROCHESTER NY	036	055	SW	2457.00		1953	1977	O	A		O	USGS	D
04130003	GENESEE RIVER(CHARLOTTE DOCKS)AT ROCHESTER N	036	055	SW	2457.00		1969		K	K		K	USGS	D

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04140202	EAST BRANCH FISH CREEK AT TABERG NY	036	065	SW	188.00	024	1955	1972	O	O			USGS	D
04140202	COWASELON CREEK AT ONIONTOWN NY	036	053	SW		004	1966	1974	A				USGS	D
04140202	SCRIBA CREEK NEAR CONSTANTIA, N.Y.	036	075	SW	38.40	004	1966	1969	O				USGS	D
04140202	ONEIDA R BELOW TAINTOR DAM AT CAUGHDENDY NY	036	075	SW	1382.00	004	1967	1969	E				USGS	P
04140203	OSWEGO RIVER AT LOCK 7 AT OSWEGO NY	036	075	SW	5100.00		1957		H	H		H	USGS	D
04150101	BLACK RIVER AT WATERTOWN, NY	036	045	SW	1876.00	124	1954		M	M		M	USGS	D
04150200	NIAGARA R(L ONTARIO) AT FORT NIAGARA NY	036	063	SW	265000.00		1970		K	K		K	USGS	D
04150301	ST LAWRENCE R AT CORNWALL ONT NR MASSENA, NY	036	089	SW	299880.00	014	1955		E	E		E	USGS	D
04150306	ST REGIS RIVER AT BRASHER CENTER NY	036	089	SW	616.00	014	1955		H	H		H	USGS	D

OHIO REGION 05

HYDROLOGIC UNIT CODE	STATION NAME AND LOCATION	STATE	COUNTY	TYPE OF SITE	DRAINAGE AREA	BASIN DESCRIPTOR	OW BEGIN YEAR	OW END YEAR	SUSP SED CONCEN	SUSP PART SIZE	BED MAT PART SIZE	SUSP DISCHARGE	ORGANIZATION CODE	SED STOR MEDIA
05010001	BROKENSTRAW CREEK AT YOUNGSVILLE, PA.	042	123	SW	321.00	004	1957		2	E		2	USGS	D
05010001	TURNIP RUN 3NNE WESTLINE PA B1	042	083	SW			1974	1975	A				USFS	D
05010002	CONEWANGO C 61035 BRDG	042	123	SW			1962		M				PA001	P
05010003	OIL CR AT CENTERVILLE, PA.	042	039	SW			1974	1975	A			A	USGS	D
05010003	BRITTON RUN AT GLYDEN, PA.	042	039	SW			1974	1975	A			A	USGS	D
05010003	DIL CR NR HYDETOWN, PA.	042	039	SW			1974	1975	A			A	USGS	D
05010003	SHIRLEY RUN NR BUELL CORNERS, PA.	042	039	SW			1974	1975	A			A	USGS	D
05010003	MCLAUGHLIN CR AT HYDETOWN, PA.	042	039	SW			1974	1975	A			A	USGS	D
05010003	OIL CR AT TITUSVILLE, PA.	042	039	SW			1974	1975	A			A	USGS	D
05010003	OIL CR AT TITUSVILLE, PA.	042	039	SW			1974	1975	A			A	USGS	D
05010003	CHURCH RUN AT TITUSVILLE, PA.	042	039	SW			1974	1975	A			A	USGS	D
05010003	OIL CREEK AT ROUSEVILLE, PA.	042	121	SW	300.00	004	1930	1975	2	E		2	USGS	D
05010003	SUGAR CREEK AT SUGARCREEK, PA.	042	121	SW	166.00	004	1968	1973	4	A		4	USGS	D
05010004	FRENCH CREEK AT UTICA, PA.	042	121	SW	1028.00	004	1937		2	E		2	USGS	D
05010004	FRENCH C AT T 700 BRDG	042	049	SW			1962		Q				PA001	P
05010005	CLARION RIVER AT COOKSBURG, PA.	042	065	SW	807.00	014	1934		2	E		2	USGS	D
05010005	MUDDY FORK-BLO DAM6 4SE MARIENVL	042	047	SW			1975	1975	A				USFS	D
05010005	MUDDY FORK AT MOUTH-6SE MARIENVL	042	047	SW			1975	1975	A				USFS	D
05010006	REDBANK CREEK AT ST. CHARLES, PA.	042	005	SW	528.00	004	1963		2	E		2	USGS	D
05010008	LOYALHANNA CREEK AT KINGSTON, PA.	042	129	SW	172.00	124	1963	1978	W	E		W	USGS	D
05010009	ALLEGHENY R AT NEW KENSINGTON, PA.	042	003	SW	11500.00	004	1972		A	A		E	USGS	D
05020001	ROARING CREEK AT NORTON W VA	054	083	SW	29.20	004	1965	1967	2	K		2	USGS	D
05020001	GRASSY RUN AT NORTON W VA	054	083	SW	2.86	004	1963	1967	2	R		2	USGS	D
05020001	TYGART VALLEY RIVER AT PHILIPPI, W. VA.	054	001	SW	916.00		1960	1972	Q			Q	USGS	D
05020002	SALEM F SUBWATERSHED #11A VARNER H NR SALEM,	054	033	SW	.29	014	1954	1975	2	Q		2	USGS	D
05020002	SALEM FORK AT SALEM, W. VA.	054	033	SW	8.32	014	1954	1975	4	Q		4	USGS	D
05020004	CHEAT RIVER-4	054	077	SW			1970		Y				USCE	C
05020004	SHAVERS FORK AT BEMIS, W. VA.	054	083	SW	115.00	004	1975		K				USGS	D
05020004	SHAVERS FORK ABOVE BOWDEN, W. VA.	054	083	SW			1974	1978	O			O	USGS	D
05020004	TAYLOR RUN AT BOWDEN W VA	054	083	SW			1973		O			O	USGS	D
05020004	SHAVERS FORK BELOW BDWDEN, W. VA.	054	083	SW			1972	1978	O	E		O	USGS	D
05020004	SHAVERS FORK NR ELKINS, W. VA.	054	083	SW			1975		K			N	USGS	D
05020004	CHEAT R AT ROWLESBURG WV	054	077	SW	972.00		1968	1974	M	A			USGS	D
05020004	TAYLOR RUN 4.3 MI EAST ELKINS	054	083	SW			1966		E				USFS	D
05020004	MILL RUN 4.3 MI EAST ELKINS	054	083	SW			1974		E				USFS	D
05020004	MILL RUN 4.4 MI EAST ELKIKNS	054	083	SW			1974		E				USFS	D
05020004	RICH CHAMP 493 MI EAST ELKINS	054	083	SW			1974		E				USFS	D
05020004	RICH CHAMP RUN 4.4 MI E ELKINS	054	083	SW			1974		E				USFS	D
05020004	STALNAKER RUN 4.4 MI EAST ELKINS	054	083	SW			1974		E				USFS	D
05020004	TAYLDR RUN 9.5 MI EAST ELKINS	054	083	SW			1974		E				USFS	D

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05020005	SOUTH FORK TENMILE CREEK AT JEFFERSON, PA.	042	059	SW	180.00	004	1925		4	E		4	USGS	D
05020005	DUNLAP CR NR NEW SALEM, PA.	042	051	SW			1974	1975	A			A	USGS	D
05020005	DUNLAP CR AT NEW SALEM, PA.	042	051	SW			1974	1975	A			A	USGS	D
05020005	MONONGAHELA RIVER AT BRADDOCK, PA.	042	003	SW	7337.00	124	1958		O	H		O	USGS	D
05020006	CASSELMAN RIVER AT MARKLETON, PA.	042	111	SW	382.00	004	1925		E	E		E	USGS	D
05020006	LAUREL HILL CREEK AT URSINA, PA.	042	111	SW	121.00	004	1925		A			A	USGS	D
05030101	OHIO RIVER AT SEWICKLEY, PA.	042	003	SW	19500.00	014	1954		E			E	USGS	D
05030101	LITTLE SHENANGO RIVER AT GREENVILLE, PA.	042	085	SW	104.00	004	1930		K			K	USGS	D
05030101	L BEAVER C NR EAST LIVERPOOL OH	039	029	SW	496.00	004	1964		E	E		E	USGS	D
05030101	YELLOW C NR HAMMONDSVILLE OH	039	081	SW	147.00	004	1964		E	E		E	USGS	D
05030101	KINGS CREEK AT WEIRTON,W.VA.	054	029	SW			1976		K			K	USGS	D
05030101	HARMON CR NR BURGETTSTOWN, PA.	042	125	SW			1974	1974	A			A	USGS	D
05030101	HARMON CR AT HANLIN STATION, PA.	042	125	SW			1974	1974	A			A	USGS	D
05030101	HARMON CR NR HANLIN STATION, PA.	042	125	SW			1974	1974	A			A	USGS	D
05030101	HARMON CR AT W. VA. - PA. STATE LINE	042	125	SW			1974	1974	A			A	USGS	D
05030104	BEAVER RIVER AT WAMPUM, PA.	042	073	SW	2235.00	014	1970		E	E		E	USGS	D
05030104	BEAVER RIVER AT BEAVER FALLS, PA.	042	007	SW	3106.00	014	1929		E			E	USGS	D
05030105	CONNOQUENESSING CREEK NR ZELIENOPLE, PA.	042	007	SW	356.00	004	1970		E	E		E	USGS	D
05030105	SLIPPERY ROCK CREEK AT WURTEMBURG, PA.	042	073	SW	398.00	014	1928		E	E		E	USGS	D
05030106	SHORT C NR DILLONVALE OH	039	081	SW	123.00	004	1964		E	E		E	USGS	D
05030106	OHIO R AT BENWOOD NR WHELNG WV	054	051	SW		014	1978		M	.		M	USGS	D
05030106	CAPTINA C AT ARMSTRONGS MILLS OH	039	013	SW	134.00	004	1964		E	E		E	USGS	D
05030201	MIDDLE ISLAND CREEK AT LITTLE, W. VA.	054	095	SW	458.00	004	1960	1972	Q			Q	USGS	D
05030201	L MUSKINGUM R AT BLOOMFIELD OH	039	167	SW	210.00	004	1964		E	E		E	USGS	D
05030202	SHADE R NR CHESTER OH	039	105	SW	156.00	004	1965		E	E		E	USGS	D
05030203	L KANAWHA R AT GRANTSVILLE WV	054	013	SW	913.00		1968	1974	M				USGS	D
05030203	LITTLE KANAWHA RIVER AT PALESTINE, W. VA.	054	105	SW	1515.00		1960	1971	M			M	USGS	D
05030204	N B HUNTERS RN NR HOOKER OH	039	045	SW	1.04	004	1956	1975	O	M			USGS	P
05030204	HOCKING R AT ATHENS OH	039	009	SW	943.00	014	1953	1974	2	E		2	USGS	D
05030204	SANDY RN NR LAKE HOPE OH	039	163	SW	4.99	004	1959		W				USGS	D
05040001	CHIPPEWA C AT EASTON OH	039	169	SW	146.00	004	1965		E	E		E	USGS	D
05040001	SANDY C AT WAYNESBURG OH	039	151	SW	253.00	004	1964		E	E		E	USGS	D
05040001	SUGAR C AB BEACH CITY DAM AT BEACH CITY OH	039	151	SW	160.00	004	1965	1975	E	E	E		USGS	D
05040003	KOKOSING R AT MILLWOOD OH	039	083	SW	455.00	004	1965	1974	K	S		K	USGS	D
05040003	KILLBUCK C AT KILLBUCK OH	039	075	SW	464.00	004	1961		2	E		2	USGS	D
05040004	WAKATOMIKA C NR FRAZEYSBURG OH	039	119	SW	140.00	004	1965		E	E		E	USGS	D
05040004	MUSKINGUM R AT DRESDEN OH	039	119	SW	5993.00	014	1951		2	E		2	USGS	D
05040004	MUSKINGUM R AT MCCONNELSVILLE OH	039	115	SW	7422.00	014	1949		H			H	USGS	D
05040006	N F LICKING R AT UTICA OH	039	089	SW	116.00	004	1969		E	E		E	USGS	D
05050001	SOUTH FORK NEW RIVER NEAR JEFFERSON, N. C.	037	009	SW	207.00	004	1948		R			R	USGS	D

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05050001	GLADE CREEK AT GRAHAMS FORGE, VA.	051	197	SW			1976	1978	A				USGS	D
05050001	NEW RIVER AT ALLISONIA, VA.	051	155	SW	2202.00	004	1930		Q				USGS	D
05050002	NEW R AT EGGLESTON VA	051	071	SW	2941.00		1930		A				USGS	D
05050003	GREENBRIER R AT HILLDALE WV	054	089	SW	1625.00	004	1968	1974	M				USGS	D
05050003	POND FORK AT MADISON, W. VA.	054	005	SW	137.00	004	1972		M				USGS	P
05050004	LITTLE WHITESTICK CR AT BECKLEY, W. VA.	054	081	SW			1976		H			H	USGS	D
05050004	CRANBERRY CREEK AT BECKLEY W. VA.	054	081	SW			1976		H			H	USGS	D
05050005	GAULEY RIVER NEAR CRAIGSVILLE, W. VA.	054	067	SW	528.00		1966		Q			Q	USGS	D
05050005	9 MILES NW MARLINTON W.VA.	054	075	SW			1976		A				USFS	D
05050005	LITTLE LAUREL 10MI NW MARLINTON	054	075	SW			1976		A				USFS	D
05050005	HAMRICK RUN AT MOUTH	054	025	SW			1970		E				USFS	D
05050007	ELK RIVER BELOW WEBSTER SPRINGS, W. VA.	054	101	SW	268.00		1968		E			E	USGS	D
05050007	8 MILES NNW MARLINTON W.VA.	054	075	SW			1974		A				USFS	D
05050007	8 MILES NNW MARLINTON W.VA.	054	075	SW			1974		A				USFS	D
05050007	7 MILES NNW MARLINTON W.VA.	054	075	SW			1974		A				USFS	D
05050007	7 MILES NNW MARLINTON W.VA.	054	075	SW			1974		A				USFS	D
05050007	6 MILES NNW MARLINTON W.VA.	054	075	SW			1976		A				USFS	D
05050008	KANAWHA RIVER AT WINFIELD, W.VA.	054	079	SW	11809.00		1955		E	E		E	USGS	D
05050009	CLEAR FORK AT WHITESVILLE, W. VA.	054	081	SW	62.80	004	1972		M				USGS	P
05050009	BIG COAL R NR SETH WV	054	005	SW	280.00	004	1972	1974	M				USGS	P
05050009	LAUREL CR AT SETH WV	054	005	SW	49.20	004	1972	1974	M				USGS	P
05050009	BIG COAL R NR ALUM C WV	054	039	SW	442.00	004	1974		0			0	USGS	D
05050009	LITTLE COAL RIVER AT DANVILLE, W. VA.	054	005	SW	270.00		1960		0			0	USGS	D
05050009	LITTLE COAL RIVER AT JULIAN, W. VA.	054	005	SW			1973		0			0	USGS	D
05050009	COAL RIVER AT TORNADO, W. VA.	054	039	SW	861.00	004	1966		0			0	USGS	D
05050009	037.0 ROCKHOUSE CREEK AT MAN, W. VA.	054	045	SW			1975		A			A	USGS	D
05060001	SCIOTO R NR PROSPECT OH	039	041	SW	567.00	004	1951		2			2	USGS	D
05060001	OLENTANGY R AT CLARIDON OH	039	101	SW	157.00	004	1965		E	E		E	USGS	D
05060001	OLENTANGY R NR WORTHINGTON OH	039	049	SW	497.00	014	1954		E			E	USGS	D
05060001	BIG WALNUT C AT CENTRAL COLLEGE OH	039	049	SW	190.00	014	1950		2			2	USGS	D
05060001	ALUM C AT AFRICA OH	039	041	SW	122.00	004	1964		E	E		E	USGS	D
05060001	ALUM C AT COLUMBUS OH	039	049	SW	189.00	003	1959		2	E		2	USGS	D
05060001	BIG DARBY C AT DARBYVILLE OH	039	129	SW	534.00	004	1964		E	E		E	USGS	D
05060002	DEER C AT MOUNT STERLING OH	039	097	SW	228.00	004	1967		E	E		E	USGS	D
05060002	SCIOTO R AT HIGBY OH	039	141	SW	5131.00	014	1952		2	E		2	USGS	D
05060003	PAINT C NR GREENFIELD OH	039	047	SW	249.00	004	1966		E	E		E	USGS	D
05060003	PAINT C NR BOURNEVILLE OH	039	141	SW	807.00	014	1955		2			2	USGS	D
05070101	GUYANDOTTE RIVER NEAR BAILEYSVILLE, W. VA.	054	109	SW	308.00		1970		0			0	USGS	D
05070101	INDIAN CREEK AT FANROCK W. VA.	054	109	SW			1973		0			0	USGS	D
05070101	CLEAR FORK AT CLEAR FORK, W. VA.	054	109	SW			1973		0			0	USGS	D

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05070101	BUFFALO CREEK AT MAN, W.VA.	054	045	SW			1975		A			A	USGS	D
05070101	GUYANDOTTE RIVER AT LOGAN, W. VA.	054	045	SW	836.00		1971		D			D	USGS	D
05070101	ISLAND CREEK AT LOGAN, W. VA.	054	045	SW	103.00		1974		R			R	USGS	D
05070101	028.0 LITTLE HUFF CREEK NEAR HANOVER, W. VA.	054	109	SW			1975		A			A	USGS	D
05070101	008.0 BARKERS CREEK AT TRALEE, W. VA.	054	109	SW			1975		A			A	USGS	D
05070101	009.1 CABIN CR AT JOE BRANCH W VA	054	109	SW			1975		E				USGS	D
05070101	009.0 STILL RUN AT ITMAN W VA	054	109	SW			1975		A			A	USGS	D
05070101	006.0 SLAB FORK AT MULLENS, W. VA.	054	109	SW			1975		A			A	USGS	D
05070101	013.0 ROCKCASTLE CREEK AT PINEVILLE, W. VA.	054	109	SW			1975		A			A	USGS	D
05070101	004.0 ALLEN CREEK AT ALLEN JUNCT	054	109	SW			1975		A			A	USGS	D
05070101	031.0 LITTLE HUFF CREEK AT JUSTICE, W. VA.	054	109	SW			1975		E			E	USGS	D
05070101	001.0 DEVILS FORK AT AMIGO, W. VA.	054	081	SW			1975		A			A	USGS	D
05070101	015.0 DOUBLECAMP BRANCH NR BAILEYSVILLE, W.	054	109	SW			1975		A			A	USGS	D
05070101	026.0 BIG CUB CREEK NEAR CUB CITY, W. VA.	054	109	SW			1974		A			A	USGS	D
05070101	005.0 MARSH FORK AT MABEN W VA	054	109	SW			1975		A			A	USGS	D
05070101	035.0 ELK CREEK AT WYLO, W. VA.	054	045	SW			1975		A			A	USGS	D
05070101	036.0 SANDLICK CREEK AT BRUNO, W. VA.	054	045	SW			1975		E				USGS	D
05070101	024.0 CLEAR FORK AT OCEANA, W. VA.	054	109	SW			1975		E				USGS	D
05070101	041.0 HUFF CREEK NEAR MAN, W. VA.	054	045	SW			1975		A			A	USGS	D
05070101	046.0 RIGHT FORK AT ACCOVILLE, W. VA.	054	045	SW			1975		E			E	USGS	D
05070101	049.0 RICH CR AT EARLING, W. VA.	054	045	SW			1975		A			A	USGS	D
05070101	045.0 BUFFALO CR AT ACCOVILLE, W. VA.	054	045	SW			1975		E			E	USGS	D
05070101	050.0 RUM CR AT DABNEY, W. VA.	054	045	SW			1975		A			A	USGS	D
05070101	051.0 DINGESS RUN AT STOLLINGS, W. VA.	054	045	SW			1975		A			A	USGS	D
05070101	059.0 ISLAND CREEK AT MOUNT GAY, W. VA.	054	045	SW			1975		A			A	USGS	D
05070102	GUYANDOTTE RIVER AT BRANCHLAND, W. VA.	054	043	SW	1226.00	004	1960		O			O	USGS	D
05070102	MUD RIVER AT PALERMO, W. VA.	054	043	SW			1974		A			A	USGS	D
05070102	MUD RIVER AT BARBOURSVILLE W.VA.	054	011	SW			1974		A			A	USGS	D
05070102	068.0 CROOKED CR AT CROOKED CREEK, W. VA.	054	045	SW			1975		A			A	USGS	D
05070102	069.0 BUFFALO CR AT HENLAWSON, W. VA.	054	045	SW			1975		A			A	USGS	D
05070102	070.0 MILL CR AT PECKS MILL, W. VA.	054	045	SW			1975		A			A	USGS	D
05070102	076.0 BUCK FORK NEAR HARTS, W. VA.	054	045	SW			1975		E			E	USGS	D
05070102	071.0 CRAWLEY CR AT CHAPMANVILLE, W. VA.	054	045	SW			1975		A			A	USGS	D
05070102	077.0 BIG HARTS CREEK NEAR HARTS, W. VA.	054	045	SW			1975		E			E	USGS	D
05070102	078.0 SMOKEHOUSE FORK NEAR HARTS, W. VA.	054	045	SW			1975		E			E	USGS	D
05070102	075.0 BIG CR AT BIG CREEK, W. VA.	054	045	SW			1975		A			A	USGS	D
05070102	080.0 BIG HARTS CREEK AT HARTS, W. VA.	054	043	SW			1975		A			A	USGS	D
05070102	081.0 GUYANDOTTE RIVER AT HARTS, W. VA.	054	043	SW			1975		A			A	USGS	D
05070102	082.0 LITTLE HARTS CREEK AT ATENVILLE, W. VA	054	043	SW			1975		A			A	USGS	D
05070102	085.0 BIG UGLY CREEK AT GILL, W. VA.	054	043	SW			1975		A			A	USGS	D

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05070102	104.1 MUD RIVER AT MUD, W. VA.	054	043	SW			1975		A			A	USGS	D
05070102	086.0 FOURTEENMILE CREEK NEAR RANGER, W. VA.	054	043	SW			1975		A			A	USGS	D
05070102	088.0 FOURTEENMILE CREEK AT RANGER, W. VA.	054	043	SW			1975		A			A	USGS	D
05070102	089.0 TENMILE CREEK NEAR MIDKIFF, W. VA.	054	043	SW			1975		A			A	USGS	D
05070102	090.0 NINEMILE CREEK AT MIDKIFF, W. VA.	054	043	SW			1975		A			A	USGS	D
05070102	093.0 FOURMILE CREEK AT BRANCHLAND, W. VA.	054	043	SW			1975		A			A	USGS	D
05070102	095.0 FALLS CREEK NEAR WEST HAMLIN, W. VA.	054	043	SW			1975		A			A	USGS	D
05070102	110.0 MUD RIVER AT HAMLIN, W. VA.	054	043	SW			1975		A			A	USGS	D
05070102	096.0 TWOMILE CREEK AT WEST HAMLIN, W. VA.	054	043	SW			1975		A				USGS	D
05070102	098.0 MADISON CREEK NEAR SALT ROCK, W. VA.	054	011	SW			1975		A			A	USGS	D
05070102	097.0 BEAR CREEK NEAR WEST HAMLIN, W. VA.	054	043	SW			1975		A			A	USGS	D
05070102	100.0 SMITH CREEK AT SARAH, W. VA.	054	011	SW			1975		A			A	USGS	D
05070102	099.0 TRACE CREEK AT SALT ROCK, W. VA.	054	011	SW			1975		A			A	USGS	D
05070102	101.0 MERRITT CREEK AT SARAH, W. VA.	054	011	SW			1975		A			A	USGS	D
05070102	102.0 HEATH CREEK NEAR SARAH, W. VA.	054	011	SW			1975		A			A	USGS	D
05070102	103.0 MILL CREEK AT MARTHA, W. VA.	054	011	SW			1975		A			A	USGS	D
05070201	MILLERS CREEK NEAR PHYLLIS,KY.	021	195	SW	1.68	004	1973		2	E		2	USGS	D
05070201	TUG FORK NR KERMIT	021	159	SW			1977		M				KY001	
05070201	TUG FORK STATE LINE	021	195	SW			1977		M				KY001	
05070202	LEVISA FORK AT BIG ROCK VA	051	027	SW	297.00	004	1968		0	A		0	USGS	D
05070202	CONAWAY CREEK AT CONAWAY, VA.	051	027	SW	7.40	004	1974	1975	2	A		2	USGS	D
05070202	CARD CREEK AT MOUTHCARD,KY.	021	195	SW	4.18	004	1974		2	R		2	USGS	D
05070202	FEDS CR AT FEDS CREEK,KY.	021	195	SW	11.60	004	1972		2	E		0	USGS	D
05070202	BIG CREEK AT DUNLAP,KY.	021	195	SW	9.55	004	1974		0	A		0	USGS	D
05070202	ISLAND CREEK NEAR PHYLLIS,KY.	021	195	SW	2.42	004	1974		2	E		2	USGS	D
05070202	LICK CR.AT LICK CREEK,KY.	021	195	SW	6.70	004	1972		0	A		0	USGS	D
05070202	DICKS FORK AT PHYLLIS, KY.	021	195	SW	.82	004	1974		0	A		0	USGS	D
05070202	GRAPEVINE CREEK NR PHYLLIS, KY	021	195	SW	6.20	004	1972		0	A		0	USGS	D
05070202	LEVISA FORK BELOW FISHTRAP DAM, KY	021	195	SW	393.00	014	1965		E	E		0	USGS	D
05070202	RUSSELL FK AT ELKHORN CITY	021	195	SW	554.00	014	1960		S			S	USGS	D
05070202	SHELBY CREEK AT SHELBIANA KY	021	195	SW	112.00	004	1965		A			A	USGS	D
05070202	FISHTRAP LK HEADWATERS	021	195	SW			1977		M				KY001	
05070203	LEVISA FORK AT PIKEVILLE, KY.	021	195	SW	1237.00	014	1960		M				USGS	D
05070203	LEVISA FORK AT PRESTONSBURG, KY.	021	071	SW	1701.00	014	1976		M				USGS	D
05070203	JOHNS CREEK NEAR META, KY.	021	195	SW	56.30	004	1961		0			0	USGS	D
05070203	RACCOON CR. NR ZEBULON,KY.	021	195	SW	14.80	004	1973	1975	2	M		2	USGS	D
05070203	CANEY FORK NEAR GULNARE, KY.	021	195	SW	3.74	004	1973		2	A		2	USGS	D
05070203	BRUSHY FK. AT HEENON,KY.	021	195	SW	20.40	004	1973		0	A		0	USGS	D
05070203	BUFFALO CREEK NEAR ENDICOTT, KY.	021	071	SW	6.21	004	1973		2	M		2	USGS	D
05070203	JOHNS CR NR VAN LEAR,KY.	021	071	SW	206.00	014	1953		0			0	USGS	D

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05070203	PAINT CREEK AT STAFFORDSVILLE, KENTUCKY	021	115	SW	103.00		1965		R			R	USGS	D
05070203	LEVISA FK AT PAINTSVILLE,KY.	021	115	SW	2143.00	014	1948		X	E		2	USGS	D
05070203	PAINT CR NR MOUTH	021	115	SW			1977		M				KY001	
05070203	JOHNS FORK HEAD OF DEWEY LK	021	071	SW			1977		M				KY001	
05070204	BIG SANDY R AT LOUISA, KY	021	127	SW	3892.00	014	1949		E	E		E	USGS	D
05070204	BLAIN CR FALLSBURG	021	011	SW			1977		M				KY001	
05070204	LOUISA KY W PI	021	127	SW			1977		M				KY001	
050719 M	OHIO R AT GREENUP DAM NR GREENUP, KY	021	089	SW	62000.00	014	1973		E	E		E	USGS	D
05080001	G MIAMI R AT SIDNEY OH	039	149	SW	541.00	024	1965	1975	2	0	0	2	USGS	D
05080001	LORAMIE C NR NEWPORT OH	039	149	SW	152.00	014	1965	1975	2	0	0	2	USGS	D
05080001	G MIAMI R AT TROY OH	039	109	SW	926.00	124	1965	1974	R	A		R	USGS	D
05080001	GREENVILLE C NR BRADFORD OH	039	037	SW	193.00	004	1960	1974	R	A		R	USGS	D
05080001	STILLWATER R AT PLEASANT HILL OH	039	109	SW	503.00	004	1962	1975	2	0	0	2	USGS	D
05080001	MAD R NR URBANA OH	039	021	SW	162.00	004	1960	1974	R	A		R	USGS	D
05080001	MAD R AT EAGLE CITY OH	039	023	SW	307.00	004	1964	1971	2	E		2	USGS	D
05080002	G MIAMI R AT DAYTON OH	039	113	SW		004	1951	1975	2	Q		2	USGS	D
05080002	G MIAMI R AT DAYTON OH	039	113	SW	2511.00	124	1950	1973	2			2	USGS	D
05080002	TWIN C NR INGOMAR OH	039	135	SW	197.00	004	1962	1974	H	E		H	USGS	D
05080002	TWIN C NR GERMANTOWN OH	039	113	SW	275.00	014	1965	1970	R			R	USGS	D
05080002	SEVENMILE C AT COLLINSVILLE OH	039	017	SW	120.00	004	1965	1974	E	E		E	USGS	D
05080002	G MIAMI R AT NEW BALTIMORE OH	039	061	SW	3814.00	124	1966		M			M	USGS	D
05080003	WHITEWATER RIVER NEAR HAGERSTOWN, IND	018	177	SW	58.70		1975		N			N	USGS	D
05080003	WHITEWATER RIVER NEAR ALPINE, IND	018	041	SW	529.00		1968		A	A		A	USGS	D
05080003	EAST FORK WHITEWATER RIVER AT ABINGTON, IND.	018	177	SW	200.00		1967		Q	E		Q	USGS	D
05080003	EAST FORK WHITEWATER AT BROOKVILLE, IND	018	047	SW	380.00		1963	1968	H			H	USGS	D
05080003	WHITEWATER RIVER AT BROOKVILLE, IND	018	047	SW	1224.00		1973		E			E	USGS	D
05090101	SANDY RN AB BIG FOUR HOLLOW C NR LAKE HOPE O	039	163	SW	.98	004	1970		W				USGS	D
05090101	BIG FOUR HOLLOW C NR LAKE HOPE OH	039	163	SW	1.01	004	1970		W				USGS	D
05090101	RACCOON C AT ADAMSVILLE OH	039	053	SW	585.00	004	1950		E	E		E	USGS	D
05090103	TYGARTS CREEK NEAR GREENUP, KY.	021	089	SW	242.00	004	1955	1975	2	E		2	USGS	D
05090104	LITTLE SANDY R GRAYSON	021	043	SW			1977		M				KY001	
05090201	UPPER TWIN C AT MCGAW OH	039	145	SW	12.20	004	1963		2	E		2	USGS	D
05090201	OHIO BRUSH C NR WEST UNION OH	039	001	SW	387.00	004	1960		E	E		E	USGS	D
05090201	WHITEOAK C NR GEORGETOWN OH	039	015	SW	218.00	004	1965		E	E		E	USGS	D
05090201	LICKING RIVER AT BUTLER,KY.	021	191	SW	3385.00		1948		E	E		E	USGS	D
05090202	L MIAMI R NR SELMA OH	039	023	SW	48.90	004	1951	1972	2			2	USGS	D
05090202	N F L MIAMI R NR PITCHIN OH	039	023	SW	28.90	004	1951	1972	2			2	USGS	D
05090202	L MIAMI R NR OLDTOWN OH	039	057	SW	129.00	004	1951		2			2	USGS	D
05090202	N F MASSIE C AT CEDARVILLE OH	039	057	SW	28.90	004	1954	1968	2	Q		2	USGS	D
05090202	S F MASSIE C NR CEDARVILLE OH	039	057	SW	17.10	004	1953	1968	2	Q		2	USGS	D

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05090202	MASSIES C AT WILBERFORCE OH	039	057	SW	63.20	004	1951		2			2	USGS	D
05090202	TODD F NR ROACHESTER OH	039	165	SW	219.00	014	1952	1974	2			2	USGS	D
05090202	L MIAMI R AT MILFORD OH	039	025	SW	1203.00	004	1946		E			E	USGS	D
05090202	E F L MIAMI R NR MARATHON OH	039	025	SW	195.00	004	1969		E	E		E	USGS	D
05090203	SOUTH HOGAN CREEK NEAR DILLSBORO, IND.	018	029	SW	38.10		1968		E	E		E	USGS	D
05090203	OHIO R AT MARKLAND DAM NR WARSAW, KY	021	077	SW	83170.00		1958		N	N		N	USGS	D
05090203	GUNPOWDER CR BELOW FLORENCE	021	015	SW			1977		M				KY001	
05100101	LICKING R AT FARMERS	021	011	SW	827.00	004	1948		2	E		2	USGS	D
05100101	NORTH FORK TRIPLETT CREEK NEAR MOREHEAD, KY.	021	205	SW	84.70	004	1960		A			A	USGS	D
05100101	NORTH FORK LICKING RIVER NEAR LEWISBURG, KY.	021	161	SW	119.00	004	1970		A			A	USGS	D
05100101	LICKING RIVER AT MCKINNEYSBURG, KY.	021	191	SW	2326.00	004	1951	1975	2	E		2	USGS	D
05100102	STRODES CR BELOW HOODS CR	021	017	SW			1977		M				KY001	
05100201	TROUBLESOME CREEK AT NOBLE, KY.	021	025	SW	177.00	004	1965		A			A	USGS	D
05100202	MIDDLE FORK KENTUCKY RIVER NEAR HYDEN, KY	021	131	SW	202.00	004	1970		O	Q	A	O	USGS	D
05100203	GOOSE CREEK AT MANCHESTER, KENTUCKY	021	051	SW	163.00	004	1964		A			A	USGS	D
05100204	KY R LOCK & DAM #14	021	129	SW			1977		M				KY001	
05100204	RED R HAZEL GREEN	021	237	SW			1977		M				KY001	
05100205	KENTUCKY R AT LOCK 4 AT FRANKFORT KY	021	073	SW	5412.00	014	1948	1975	2	E		2	USGS	D
05100205	ELKHORN CREEK NEAR FRANKFORT, KY	021	073	SW	473.00	004	1948		A			A	USGS	D
05100205	KENTUCKY RIVER AT LOCK 2,AT LOCKPORT,KY.	021	103	SW	6180.00	014	1972		N	N		N	USGS	D
05100205	EAGLE CR. AT GLENCOE,KY.	021	187	SW	437.00	004	1948		2	E		2	USGS	D
05100205	KENTUCKY R LOCK #2 LOCKPORT	021	103	SW			1977		M				KY001	
05100205	EAGLE CR AT GLENCOE	021	187	SW			1977		M				KY001	
05100205	KENTUCKY R BELOW FRANKFORT	021	073	SW			1977		M				KY001	
05100205	SOUTH ELKORN CR KY HWY BRIDGE 314	021	209	SW			1977		M				KY001	
05100205	KENTUCKY R BELOW JESSAMINE CK	021	113	SW			1977		M				KY001	
05100205	HICKMAN CR BELOW EAST&WEST FORK	021	113	SW			1977		M				KY001	
05100205	CLARKS RUN DANVILLE	021	079	SW			1977		M				KY001	
05100205	DIX R NR DANVILLE	021	021	SW			1977		M				KY001	
05110001	RUSSELL CREEK NEAR COLUMBIA, KY.	021	001	SW	188.00	004	1960		A			A	USGS	D
05110001	GREEN RIVER AT MUNFORDVILLE, KY.	021	099	SW	1673.00	014	1948	1978	O	A		O	USGS	D
05110001	WET PRONG BUFFALO CREEK NR MAMMOTH CAVE KY	021	061	SW	2.26	004	1962	1974	E			E	USGS	D
05110001	NOLIN RIVER AT WHITE MILLS, KY.	021	093	SW	357.00	004	1970		A			A	USGS	D
05110001	NOLIN RIVER AT WAX, KY.	021	085	SW	600.00	004	1949	1975	2	O		2	USGS	D
05110001	LITTLE PITMAN CK BELOW CAMPBELL	021	217	SW			1977		M				KY001	
05110001	GREEN R GREENSBURG WPI	021	087	SW			1977		M				KY001	
05110001	BACON CR PRICEVILLE	021	099	SW			1977		M				KY001	
05110001	NOLIN R BROADFORD	021	085	SW			1977		M				KY001	
05110001	NOLIN RIVER WHITE MILLS	021	093	SW			1977		M				KY001	
05110001	GREEN R RESERVOIR	021	001	SW			1977		M				KY001	

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05110002	BARREN R AT BOWLING GREEN KY	021	227	SW	1848.00	014	1948		2			2	USGS	D
05110002	BARREN R LOCK & DAM #1	021	227	SW			1977		M				KYOO1	
05110002	BEAVER CR RACKY HILL	021	009	SW			1977		M				KYOO1	
05110002	BARREN R MAYNARD	021	009	SW			1977		M				KYOO1	
05110003	MUD R EAST OF EPLYS	021	141	SW			1977		M				KYOO1	
05110004	ROUGH RIVER AT FALLS OF ROUGH, KY	021	085	SW	504.00	014	1950	1972	2			2	USGS	D
05110004	ROUGH R LK	021	085	SW			1977		M				KYOO1	
05110005	GREEN RIVER NR BEECH GROVE,KY.	021	233	SW			1973		E	E		E	USGS	D
05110005	SOUTH FORK PANTHER CREEK NEAR WHITESVILLE, K	021	183	SW	58.20	004	1970		A			A	USGS	D
05110006	POND RIVER NR APEX, KY.	021	177	SW	194.00		1961		A			A	USGS	D
05110006	POND R NR ISAACS CREEK	021	177	SW			1977		M				KYOO1	
05110006	POND R NR APEX	021	047	SW			1977		M				KYOO1	
05120101	WABASH RIVER AT LINN GROVE, IND.	018	001	SW	453.00	014	1971		R	E		R	USGS	D
05120101	LITTLE RIVER NEAR HUNTINGTON, IND	018	069	SW	263.00		1969		R	A		R	USGS	D
05120101	CORNING GLASS BLUFFTON	018	179	ES			1972	1973		X			INOO1	D
05120102	SALAMONIE RIVER NEAR WARREN, IND.	018	069	SW	425.00		1963		Q	E		Q	USGS	D
05120103	MISSISSINEWA RIVER NEAR RIDGEVILLE, IND.	018	135	SW	133.00		1963		K			K	USGS	D
05120104	EEL RIVER NEAR LOGANSPORT IND	018	017	SW	789.00		1969		O	R		O	USGS	D
05120105	DEER CREEK NEAR DELPHI, IND.	018	015	SW	274.00		1969		R	E		R	USGS	D
05120106	TIPPECANOE RIVER NEAR ORA, IND.	018	131	SW	856.00		1968	1974	R	E		R	USGS	D
05120108	WABASH RIVER AT LAFAYETTE IND	018	157	SW	7267.00	014	1954		Q	A		Q	USGS	D
05120108	BIG RACCOON CREEK NEAR FINCASTLE IND	018	133	SW	139.00		1958		O	R		O	USGS	D
05120110	SUGAR CREEK AT CRAWFORDSVILLE, IND.	018	107	SW	509.00	004	1972		R	A		R	USGS	D
05120110	SUGAR CREEK NEAR BYRON, IND.	018	121	SW	670.00	004	1968	1971	H	R		H	USGS	D
05120110	EAGLE CREEK AT ZIONSVILLE, IND.	018	011	SW	103.00		1969		R	A		R	USGS	D
05120111	BUSSERON CREEK NEAR SULLIVAN, IND.	018	153	SW	138.00		1975		A			A	USGS	D
05120113	WABASH RIVER AT NEW HARMONY, IND.	018	129	SW	29234.00	014	1973		E	E		E	USGS	D
05120114	LITTLE WABASH RIVER AT LOUISVILLE, IL	017	025	SW	745.00	004	1970		X	Q		O	USGS	D
05120114	LITTLE WABASH RIVER AT CARMI, IL	017	193	SW	3102.00	004	1974		A	A		A	USGS	D
05120201	WHITE RIVER AT MUNCIE, IND.	018	035	SW	241.00		1963	1978	E	E			USGS	P
05120201	KILLBUCK CREEK NEAR GASTON, IND.	018	035	SW	25.50		1972		A			A	USGS	D
05120201	WHITE RIVER NEAR NOBLESVILLE IND	018	057	SW	828.00	014	1954	1974	R	A		R	USGS	D
05120201	FALL CREEK NEAR FORTVILLE, IND.	018	057	SW	168.00	004	1963	1975	A	A		A	USGS	D
05120201	WHITE RIVER NEAR CENTERTON IND	018	109	SW	2444.00		1954	1978	E			E	USGS	D
05120202	WHITE RIVER AT HAZLETON, IND.	018	051	SW	11305.00	003	1972		E	E		E	USGS	D
05120203	WILDCAT CREEK NR. LAFAYETTE, IND.	018	157	SW	794.00		1968		K	A		K	USGS	D
05120203	BIG WALNUT CREEK NEAR REELSVILLE, IND.	018	133	SW	326.00		1964		R	E		R	USGS	D
05120203	MILL CREEK NEAR CATARACT, IND.	018	119	SW	245.00		1969		R	A		R	USGS	D
05120204	BIG BLUE RIVER AT SHELBYVILLE, IND	018	145	SW	421.00		1968		N	E		N	USGS	D
05120204	SUGAR CREEK NEAR EDINBURG, IND	018	081	SW	474.00		1968		Q	E		Q	USGS	D

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05120205	FLATROCK RIVER AT ST. PAUL, IND.	018	145	SW	303.00		1969		K	E		K	USGS	D
05120206	SAND CREEK NEAR BREWERSVILLE, IND.	018	079	SW	155.00		1966	1978	R	E		R	USGS	D
05120206	EAST FORK WHITE RIVER AT SEYMOUR IND	018	071	SW	2341.00		1954		O	R		O	USGS	D
05120206	MUSCATATUCK RIVER NEAR DEPUTY, IND.	018	077	SW	293.00		1968		A	E		A	USGS	D
05120206	KIEFFER PAPER BROWNSTOWN	018	071	ES			1972	1973		Q			IN001	D
05120207	BRUSH CREEK NEAR NEBRASKA, IND.	018	079	SW	11.40	004	1964	1968	N			N	USGS	D
05120207	VERNON FORK AT VERNON, IND.	018	079	SW	198.00		1966		A			A	USGS	D
05120208	LOST RIVER NR. WEST BADEN SPRINGS, IND.	018	117	SW	287.00	004	1974		A			A	USGS	D
05120209	PATOKA RIVER NEAR PRINCETON, IND.	018	051	SW	822.00	014	1963	1978	M			M	USGS	D
05130101	YELLOW CR NR MIDDLESBORO,KY.	021	013	SW	60.60	004	1948		R			R	USGS	D
05130101	CUMBERLAND RIVER AT WILLIAMSBURG, KY.	021	235	SW	1607.00	004	1948	1972	2	E		2	USGS	D
05130101	LAUREL R RESERVOIR HGWY 312	021	235	SW			1977		M				KY001	
05130101	CUMBERLAND R PINEVILL WPI	021	013	SW			1977		M				KY001	
05130102	ROCKCASTLE R AT BILLOWS	021	203	SW			1977		M				KY001	
05130103	CANE BRANCH NEAR PARKERS LAKE	021	147	SW	.67	004	1955	1974	2	E		2	USGS	D
05130103	HELTON BRANCH AT GREENWOOD, KY.	021	147	SW	.85	004	1955	1974	2	E		2	USGS	D
05130103	BUCK CREEK NEAR SHOPVILLE, KY	021	199	SW	165.00	004	1970		A			A	USGS	D
05130103	PITMAN CR BELOW SOMERSET STP	021	199	SW			1977		M				KY001	
05130104	NEW RIVER AT FORK MOUNTAIN, TENN	047	001	SW			1975		Q	Q		Q	USGS	D
05130104	NEW RIVER AT STAINVILLE, TENN	047	013	SW			1975		Q	Q		Q	USGS	D
05130104	GREEN BRANCH NEAR HEMBREE, TENN	047	151	SW	1.38		1975	1975	A			A	USGS	D
05130104	SMOKY CREEK AT SMOKY JUNCTION, TENN	047	151	SW	32.80		1975		Q	Q	Q		USGS	D
05130104	BUFFALO CREEK AT WINONA, TENN	047	151	SW			1975	1975	A			A	USGS	D
05130104	NEW RIVER AT NEW RIVER, TENN	047	151	SW	382.00		1964		Q	Q		Q	USGS	D
05130104	LK CUMBERLAND BURMSIDE	021	199	SW			1977		M				KY001	
05130104	SOUTH FORK CUMBERLAND R YAMACRAW	021	147	SW			1977		M				KY001	
05130201	CUMBERLAND RIVER AT CARTHAGE, TENN.	047	159	SW	10690.00	014	1965		M	M			USGS	D
05130202	INTERSTATE I-40 STORM SEWER AT NASHVILLE, TN	047	037	SW	55.60	003	1976		M				USGS	
05130205	LITTLE R NR CADIZ,KY.	021	221	SW	244.00	004	1958		A			A	USGS	D
05130205	CUMBERLAND RIVER NEAR GRAND RIVERS, KY.	021	143	SW	17598.00	124	1966		E	E		E	USGS	D
05130205	CUMBERLAND R BARKLEY LK	021	221	SW			1977		M				KY001	
05130205	LITTLE R BELOW NTS FORKS	021	047	SW			1977		M				KY001	
05140101	PLUM CREEK AT WATERFORD, KY.	021	215	SW	31.80	014	1953	1971	2	E		2	USGS	D
05140102	PLUM CRK SUBWATER SHED NO 4 NR SIMPSONVILLE,	021	211	SW	1.55	014	1953	1975	2			2	USGS	D
05140102	SALT RIVER AT SHEPHERDSVILLE, KY.	021	029	SW	1197.00	004	1948	1975	2	E		2	USGS	D
05140102	SALT RIVER AT SHEPHERDSVILLE, KY.	021	029	SW			1953	1975	M	M	M		USGS	D
05140102	MILL CR BELOW FORT KNOX	021	029	SW			1977		M				KY001	
05140102	ROLLING FORK LEBANON JUNCTION	021	093	SW			1977		M				KY001	
05140103	ROLLING FORK NR LEBANON JUNCTION,KY.	021	029	SW	1375.00		1973		E	E		E	USGS	D
05140104	BLUE RIVER NEAR WHITE CLOUD, IND	018	061	SW	476.00		1968	1974	R	E		R	USGS	D

HYDROLOGIC UNIT CODE	STATION NAME AND LOCATION	STATE	COUNTY	TYPE OF SITE	DRAINAGE AREA	BASIN DESCRIPTOR	QW BEGIN YEAR	QW END YEAR	SUSP SED CONCEN	SUSP PART SIZE	BED MAT PART SIZE	SUSP DISCHARGE	ORGANIZATION CODE	SED STOR MEDIA
05140201	OHIO R AT CANNELTON DAM, KY	021	091	SW	97000.00		1973		R	R		R	USGS	D
05140201	MIDDLE FORK ANDERSON RIVER AT BRISTOW, IND.	018	123	SW	39.80		1964		A	E		A	USGS	D
05140203	LUSK CREEK 4MI SE OF EDDYVILLE	017	151	SW			1975		K				USFS	D
05140205	TRADEWATER RIVER AT OLNEY, KY.	021	033	SW	255.00	004	1948	1973	2	R		2	USGS	D
05140206	OHIO R AT LOCK AND DAM 53 NR GRAND CHAIN ILL	021	153	SW	203100.00	014	1953		R	R		R	USGS	D

TENNESSEE REGION 06

HYDROLOGIC UNIT CODE	STATION NAME AND LOCATION	STATE	COUNTY	TYPE OF SITE	DRAINAGE AREA	BASIN DESCRIPTOR	QW BEGIN YEAR	QW END YEAR	SUSP SED CONCEN	SUSP PART SIZE	BED MAT PART SIZE	SUSP DISCHARGE	ORGANIZATION CODE	SED STOR MEDIA
06010101	N F HOLSTON R NR GATE CITY VA	051	169	SW	672.00	004	1945		A				USGS	D
06010103	WATAUGA RIVER NEAR SUGAR GROVE, N. C.	037	189	SW	90.80		1951		R			R	USGS	D
06010105	FRENCH BROAD RIVER AT ROSMAN N C	037	175	SW	67.90		1944		R			R	USGS	D
06010105	FRENCH BROAD RIVER AT BLANTYRE N C	037	175	SW	296.00		1951		N			N	USGS	D
06010105	NORTH FORK MILLS RIVER ABOVE MILLS RIVER N C	037	089	SW			1973		A				USGS	D
06010105	FRENCH BROAD RIVER AT BENT CREEK N C	037	021	SW	676.00	014	1961		N			N	USGS	D
06010105	HOMINY CREEK AT CANDLER, N.C.	037	021	SW	79.80	024	1968		N			N	USGS	D
06010105	BEETREE CREEK NEAR SWANNANOA N C	037	021	SW	5.46	004	1955		Z				USGS	D
06010105	FRENCH BROAD RIVER AT ASHEVILLE, N. C.	037	021	SW	945.00		1949		N			N	USGS	D
06010105	FRENCH BROAD RIVER AT MARSHALL, N. C.	037	115	SW	1332.00	124	1956		R			R	USGS	D
06010106	PIGEON RIVER AT CANTON, N. C.	037	087	SW	133.00		1961		R			R	USGS	D
06010106	CATALOOCHEE CREEK NEAR CATALDOCHEE N C	037	087	SW	49.20	004	1961		Q			Q	USGS	D
06010107	FRENCH BROAD RIVER NEAR KNOXVILLE, TENN.	047	093	SW	5101.00	014	1949		M	M			USGS	D
06010108	LOCUST CREEK NEAR CELO N C	037	199	SW			1973		A				USGS	D
06010108	N TOE R NR FRANK NC	037	011	SW			1969				M		NCOO4	
06010108	N TOE R NR SPEAR NC	037	011	SW			1969				M		NCOO4	
06010108	N TOE R NR INGALLS NC	037	011	SW			1969				M		NCOO4	
06010108	N TOE R NR ALTAPASS NC	037	121	SW			1969				M		NCOO4	
06010108	GRASSY C NR SPRUCE PINE NC	037	121	SW			1969				M		NCOO4	
06010108	N TOE R BL BUR C AT SPRUCE PINE NC	037	121	SW			1969				M		NCOO4	
06010108	N TOE R AT PENLAND NC	037	121	SW			1969				M		NCOO4	
06010108	S TOE AT CELO NC	037	199	SW			1969				M		NCOO4	
06010108	S TOE R NR NEWDALE NC	037	199	SW			1969				M		NCOO4	
06010108	N TOE R NR RED HILL NC	037	121	SW			1969				M		NCOO4	
06010108	CANE R AT BURNSVILLE NC	037	199	SW			1969				M		NCOO4	
06010108	MC INTOSH B NR BURNSVILLE NC	037	199	SW			1969				M		NCOO4	
06010108	MC INTOSH B AT BURNSVILLE NC	037	199	SW			1969				M		NCOO4	
06010108	CANE R NR BURNSVILLE NC	037	199	SW			1969				M		NCOO4	
06010108	BRUSHY C NR INGALLS NC	037	011	SW			1969				M		NCOO4	
06010201	LITTLE RIVER ABOVE TOWNSEND, TENN.	047	009	SW	106.00		1962	1978	E	E			USGS	D
06010202	ALARKA C NR BRYSON CITY N C	037	173	SW	27.20		1965	1968	E				USTVA	P
06010202	CARTOOGECHAYE CREEK NEAR FRANKLIN N C	037	113	SW	57.10	004	1968		N			N	USGS	D
06010202	PEEKS CREEK AT SR 1678 NEAR GNEISS N C	037	113	SW			1973		Z				USGS	D
06010202	LITTLE TENNESSEE RIVER AT NEEDMORE, N. C.	037	173	SW	436.00		1968		K			K	USGS	D
06010202	NANTAHALA RIVER NEAR RAINBOW SPRINGS, N. C.	037	113	SW	51.90	014	1968		N			N	USGS	D
06010202	NANTAHALA RIVER AT NANTAHALA, N. C.	037	173	SW	144.00		1968		N			N	USGS	D
06010203	MINGUS CREEK AT RAVENSFORD	037	173	SW	4.70	004	1973		A				USGS	D
06010203	TUCKASEGEE RIVER AT BRYSON CITY, N. C.	037	173	SW	655.00	014	1961		N			N	USGS	D
06010203	SCOTT C AT CITY HALL BR AT SYLVA	037	099	SW			1958		M				NCOO4	
06010203	SCOTT C BL SYLVA NC	037	099	SW			1969		M				NCOO4	

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06010203	TUCKASEGEE R AT BARKERS CREEK NC	037	099	SW			1969		M				NCOO4	
06010203	TUCKASEGEE R AT US 19 NR BRYSN CY	037	173	SW			1968		M				NCOO4	
06010203	TUCKASEGEE R 31.6 AT DILLSBORO NC	037	099	SW			1973		M				USTVA	C
06010204	NF CITICO C NR TELLICO PLAINS TN	047	123	SW	7.04		1960	1971	B				USTVA	P
06010205	CLINCH RIVER AT SPEERS FERRY, VA	051	169	SW	1126.00	004	1930		R			A	USGS	D
06010207	K-25 PUMPING STATION	047	145	SW			1962		E				USERD	P
06020002	HIWASSEE RIVER ABOVE MURPHY, N.C.	037	039	SW	406.00		1968		K			K	USGS	D
06020002	VALLEY RIVER AT TOMOTLA, N. C.	037	039	SW	104.00		1960		K			K	USGS	D
06020002	MILL CR4 PHEASANT BR	013	281	SW			1972		A				USFS	D
06020003	TOCCOA RIVER NEAR DIAL, GA.	013	111	SW	177.00		1963		H			H	USGS	D
06020003	MILL CR ABOVE HATCHERY	013	111	SW			1973		R				USFS	D
06030002	TENNESSEE RIVER NEAR MORGAN CITY, ALA.	001	089	SW			1971	1971	R			R	USGS	D
06030002	FLINT RIVER NEAR CHASE, ALABAMA	001	089	SW	342.00	004	1962		E			E	USGS	D
06030002	FLINT RIVER NEAR CEDAR GAP, ALA.	001	089	SW			1971	1973	E			E	USGS	D
06030002	FLINT RIVER NEAR MT. CARMEL, AL	001	089	SW	362.00	004	1971		E			E	USGS	D
06030002	TENNESSEE R NR HOBBS ISLAND, ALA.	001	089	SW			1971	1971	R			R	USGS	D
06030002	TENNESSEE RIVER AT WHITESBURG, ALA.	001	089	SW	25610.00	014	1956	1973	E			E	USGS	D
06030002	ALDRIDGE CREEK NEAR LILY FLAGG, ALA.	001	089	SW	13.00	003	1971	1975	E			E	USGS	D
06030002	ALDRIDGE CREEK NEAR WHITESBURG, ALA.	001	089	SW	21.00	003	1971	1973	E			E	USGS	D
06030002	TENNESSEE RIVER AT FARLEY, ALA.	001	089	SW			1971	1971	R			R	USGS	D
06030002	INDIAN CR AT U.S.HWY 72 NR HUNTSVILLE,ALA.	001	089	SW		004	1971	1973	E			E	USGS	D
06030002	INDIAN CREEK NEAR MADISON, ALA.	001	089	SW	49.00	004	1959		E			E	USGS	D
06030002	INDIAN C 700 FT DS MARTIN RD NR HUNTSVILLE	001	089	SW			1971	1973	E			E	USGS	D
06030002	HVILLE SP B(MARTIN RD) NR HUNTSVILLE, ALA.	001	089	SW	49.60	003	1971		E			E	USGS	D
06030002	H'VILLE SP BR(PATTON RD) NR HUNTSVILLE,ALA	001	089	SW		003	1971		E			E	USGS	D
06030004	WEAKLEY C NR BODENHAM TENN	047	055	SW			1966	1969	E		E		USTVA	
06030004	WEAKLEY CREEK NEAR BODENHAM, TENN.	047	055	SW	24.40	004	1966	1969	Q		Q		USGS	
06030005	YELLOW CREEK NR DOSKIE, MS.	028	141	SW	143.00	004	1971		Q				USGS	
06030005	YELLOW CREEK AT MILE ONE NR PINE FLAT, MS.	028	141	SW	198.00	004	1974		N				USGS	D
06030006	BEAR C NR NEWBURG ALA	001	079	SW			1965	1971	W				USTVA	
06030006	BEAR C NR CARROLL CROSSROADS AL	001	059	SW			1965	1971	W				USTVA	
06030006	WHITEHEAD C NR FORKVILLE ALA	001	133	SW			1965	1971	B				USTVA	
06030006	POSEY C NR POSEY MILL ALA	001	059	SW			1965	1971	B				USTVA	
06030006	WHITEHEAD C NR PEBBLE ALA	001	133	SW			1965	1971	B				USTVA	
06030006	AUSTIN B AT BEAR C ALA	001	093	SW			1965	1971	B				USTVA	
06030006	L BEAR C BL BATESTOWN BRIDGE ALA	001	059	SW			1965		E				USTVA	
06030006	MILL C NR BEAR C ALA	001	093	SW	7.20		1965	1971	B				USTVA	
06030006	WF UPPER BEAR C NR MOUNT HOPE ALA	001	079	SW			1965		W				USTVA	
06030006	EF UPPER BEAR C NR MOUNT HOPE ALA	001	079	SW			1965		W				USTVA	
06040004	BUFFALO RIVER NEAR FLAT WOODS, TENN.	047	135	SW	447.00		1963		E	E		E	USGS	D

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06040006	TENNESSEE RIVER AT HIGHWAY 60,NEAR PADUCAH,K	021	145	SW	40330.00	014	1972		E	E		E	USGS	D
06040006	WEST FORK CLARKS RIVER NEAR BREWERS, KY.	021	157	SW	68.70		1970		A			A	USGS	D
06040006	TENNESSEE RIVER HWY 60 NR PADUCAH	021	145	SW			1977		M				KY001	
06040006	CLARKS RIVER BENTON	021	157	SW			1977		M				KY001	

UPPER MISSISSIPPI REGION 07

HYDROLOGIC UNIT CODE	STATION NAME AND LOCATION	STATE	COUNTY	TYPE OF SITE	DRAINAGE AREA	BASIN DESCRIPTOR	OW BEGIN YEAR	OW END YEAR	SUSP SED CONCEN	SUSP PART SIZE	BED MAT PART SIZE	SUSP DISCHARGE	ORGANIZATION CODE	SED STOR MEDIA
070027 M	CHIPPAWA R NR DURAND WISC	055	091	SW			1974		O	B			USCE	
070028 O	WHETSTONE R NR BIG STONE CITY SD	046	051	SW			1973		O	B			USCE	
070028 O	YELLOW BANK R NR ODESSA MN	027	073	SW			1973		O	B			USCE	
07010101	RICE RIVER, FS ROAD 2182	027	007	SW			1970		A				USFS	D
07010101	ISLAND CK 11.5MI NW BENA,MN.	027	061	SW			1976	1976	A				USFS	D
07010102	BEAR RIVER,ROAD 65	027	021	SW			1970		R				USFS	D
07010106	CROW WING RIVER AT NIMROD, MINN	027	159	SW	1010.00		1967	1975	Y	A	A		USGS	D
07010201	MISSISSIPPI RIVER NEAR ROYALTON, MN	027	097	SW	11600.00	014	1963		E	E		E	USGS	D
07010203	ELK RIVER NEAR BIG LAKE, MINN	027	141	SW	615.00	004	1969		X			O	USGS	D
07010204	CROW RIVER AT ROCKFORD, MN	027	053	SW	2520.00	004	1961		4			4	USGS	D
07010205	MINNESOTA RIVER NEAR JORDAN, MN	027	019	SW	16200.00	004	1963		E	E		E	USGS	D
07010206	MISSISSIPPI RIVER NEAR ANOKA, MN	027	053	SW	19100.00	014	1960		O	O	A	O	USGS	D
07010206	MISSISSIPPI RIVER AT ST. PAUL, MN	027	123	SW	36800.00	004	1955		E	E		E	USGS	D
07010206	MISS R MPLS BARGE TERM MPLS MINN	027	053	SW			1970		W	B	B		USCE	
07020001	WHETSTONE RIVER NEAR BIG STONE CITY, S. DAK.	046	051	SW	389.00	004	1960		O			O	USGS	D
07020001	YELLOW BANK RIVER NEAR ODESSA, MINN	027	073	SW	398.00	004	1960		O			O	USGS	D
07020005	CHIPPEWA RIVER NEAR MILAN, MINN	027	023	SW	1870.00	004	1957		O			O	USGS	D
07020006	REDWOOD R AT MARSHALL, MINN.	027	083	SW	307.00		1967	1967	Y	A	A		USGS	D
07020006	REDWOOD RIVER NEAR REDWOOD FALLS, MINN.	027	127	SW	697.00	004	1957	1967	P	A	A		USGS	P
07020007	MINNESOTA RIVER AT NEW ULM, MN	027	103	SW	9530.00	004	1966		O	A		O	USGS	D
07020007	COTTONWOOD RIVER NEAR NEW ULM, MINN.	027	015	SW	1280.00	004	1961		P	E		O	USGS	D
07020007	MINNESOTA RIVER AT MANKATO,MINN	027	103	SW	14900.00	004	1960		O	A		O	USGS	D
07020009	DES MOINES RIVER AT JACKSON, MN	027	063	SW	1220.00	004	1967		O			O	USGS	D
07020012	JUDICIAL DITCH NO. 1A NEAR NEW SWEDEN, MN	027	103	SW		004	1967	1968	3			3	USGS	D
07030001	ST. CROIX RIVER NEAR DAIRYLAND, WI	055	031	SW			1975		S	S		S	USGS	D
07030001	ST. CROIX RIVER NEAR DANBURY, WI	055	013	SW	1588.00	004	1954		E	E		E	USGS	D
07030001	BASHAW BROOK NEAR SHELL LAKE, WI	055	013	SW	24.90	004	1968	1970	E		E		USGS	
07030001	CLAM RIVER NEAR WEBSTER, WI	055	013	SW	364.00	004	1968		R	R		R	USGS	D
07030002	NAMEKAGON RIVER NEAR HAYWARD, WI	055	113	SW			1975		S	S		S	USGS	D
07030002	NAMEKAGON RIVER AT TREGO, WI	055	129	SW	460.00	004	1975		S	A		S	USGS	D
07030003	KETTLE RIVER NEAR CLOVERDALE, MINN	027	115	SW			1975		A	A		A	USGS	D
07030004	SNAKE RIVER NEAR PINE CITY, MN	027	115	SW	958.00		1962		R	A		R	USGS	D
07030005	ST. CROIX RIVER AT ST. CROIX FALLS, WI	055	095	SW	5930.00	014	1954		E	E		E	USGS	D
07040001	MISSISSIPPI RIVER AT L&D #3 NEAR RED WING, M	027	049	SW	46600.00	014	1968		E			E	USGS	D
07040002	STRAIGHT RIVER NEAR FARIBAULT, MINN.	027	131	SW	442.00		1967	1968	3	A	A	3	USGS	D
07040002	CANNON RIVER AT WELCH, MINN	027	049	SW	1320.00		1961	1967	A		A		USGS	D
07040003	NORTH FORK WHITEWATER RIVER NEAR ELBA, MN	027	169	SW	101.00	004	1967		E	E		E	USGS	D
07040003	WHITEWATER RIVER NEAR BEAVER, MN	027	169	SW	271.00	004	1974		O	A	A	O	USGS	D
07040003	MISSISSIPPI RIVER AT WINONA, MN	027	169	SW	59200.00	004	1963		O	E		O	USGS	D
07040004	ZUMBRO R AT ZUMBRO FALLS MN	027	157	SW	1130.00	004	1961	1976	2	A		2	USGS	D

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07040004	ZUMBRO RIVER AT KELLOGG, MN	027	157	SW	1400.00	014	1974		O	Q	A	O	USGS	D
07040005	TREMPEALEAU RIVER AT ARCADIA, WI	055	121	SW	552.00	004	1966		R	A		R	USGS	D
07040005	TREMPEALEAU RIVER AT DODGE, WI	055	121	SW	643.00	004	1965	1978	N			N	USGS	D
07040006	MISSISSIPPI RIVER AT LA CROSSE, WIS.	055	063	SW	62800.00	014	1965	1967	E	E		E	USGS	D
07040006	MISSISSIPPI R MC LACROSSE WIS	055	063	SW			1966		B				WI003	P
07040007	BLACK RIVER AT NEILLSVILLE, WI	055	019	SW	756.00	004	1964		A			A	USGS	D
07040007	LEVIS CREEK AT BLACK RIVER FALLS, WIS.	055	053	SW	39.70	004	1969	1974	S			S	USGS	D
07040007	BLACK RIVER NEAR GALESVILLE, WI	055	063	SW	2120.00	001	1964		W	K		K	USGS	D
07040007	BLACK RIVER AT HIGHWAY 93 NEAR TREMPEALEAU,	055	063	SW			1974		O	R		O	USGS	D
07040008	ROOT RIVER NR LANESBORO,MINN.	027	045	SW	615.00	004	1961	1971	5	A		5	USGS	D
07040008	ROOT RIVER NEAR HOUSTON, MN	027	055	SW	1270.00	004	1961		O	A		O	USGS	D
07040008	SO. FORK ROOT RIVER NEAR HOUSTON, MINN.	027	055	SW	275.00	004	1967		O			O	USGS	D
07050001	CHIPPEWA RIVER NEAR BRUCE, WI	055	107	SW	1630.00	014	1964	1978	A			A	USGS	D
07050001	TWO L STP EFFLUENT LYSIMETER #1	055	007	SW			1974		E				USFS	D
07050001	TWO L STP EFFLUENT LYSIMETER #2	055	007	SW			1974	1974	R				USFS	D
07050001	TWO L STP EFFLUENT COMPOSITE	055	007	SW			1974		E				USFS	D
07050001	TWO LAKES STP EFFLUENT QUALITY	055	007	SW			1974		K				USFS	D
07050002	SMITH CREEK NEAR PARK FALLS, WI	055	099	SW	9.11	004	1975	1975	A			A	USGS	D
07050002	PINE CREEK NEAR OXBO, WI	055	113	SW	37.80	004	1974	1975	K			K	USGS	D
07050002	FLAMBEAU RIVER AT BABBS ISLAND, WI	055	113	SW	1000.00	014	1965	1968	E			E	USGS	D
07050002	FLAMBEAU RIVER NEAR BRUCE, WI	055	107	SW	1900.00	014	1964	1978	E			E	USGS	D
07050003	SOUTH FORK FLAMBEAU RIVER NEAR PHILLIPS, WI	055	099	SW	615.00	004	1966	1973	A			A	USGS	D
07050004	DOUGLAS CREEK NEAR PRENTICE, WI	055	099	SW	24.60	004	1975	1975	A			A	USGS	D
07050004	JUMP RIVER AT SHELDON, WI	055	107	SW	574.00	004	1964	1978	A			A	USGS	D
07050005	CHIPPEWA RIVER AT CHIPPEWA FALLS, WI	055	017	SW	5600.00	014	1973	1978	A			A	USGS	D
07050005	CHIPPEWA RIVER NEAR CARYVILLE, WI	055	035	SW			1970		N	A		N	USGS	D
07050005	CHIPPEWA RIVER AT DURAND, WI	055	091	SW	9010.00	014	1954		E	E		O	USGS	D
07050005	EAU GALLE RIVER AT SPRING VALLEY, WI	055	093	SW	64.80	014	1967	1978	R			R	USGS	D
07050005	PLUM CREEK NEAR ELLA, WI	055	091	SW			1974		R			R	USGS	D
07050005	CHIPPEWA RIVER NEAR PEPIN, WI	055	011	SW			1976		N	A		N	USGS	D
07050005	BRUSH CREEK EFFLUENT QUALITY	055	119	SW			1974	1974	R				USFS	D
07050006	EAU CLAIRE RIVER NEAR FALL CREEK, WI	055	035	SW	758.00	004	1965	1974	A			A	USGS	D
07050007	HAY RIVER AT WHEELER, WI	055	033	SW	426.00	004	1964		A	E		A	USGS	D
07060001	COON CREEK AT COON VALLEY, WI	055	125	SW	77.20	004	1935	1938	O				USGS	P
07060001	COON CREEK NEAR STODDARD, WI	055	123	SW	119.00	004	1935	1938	O				USGS	P
07060001	NORTH FORK BAD AXE RIVER NEAR GENOA, WI	055	123	SW	80.90	004	1964	1970	E			E	USGS	D
07060001	VILLAGE CREEK AT VILLAGE CREEK, IOWA	019	005	SW	58.50	004	1966		E			E	USGS	D
07060001	PAINT CREEK AT WATERVILLE, IOWA	019	005	SW	42.80	004	1951	1966	A			2	USGS	D
07060001	MISSISSIPPI RIVER AT MCGREGOR, I	019	043	SW			1946		[illegible]			[illegible]	USGS	D
07060001	MISSISSIPPI RIVER AT MCGREGOR, IOWA	019	043	SW	67500.00		1974		O	M	M	O	USGS	D

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07060001	NORTH FORK NEDERLO CREEK NR FAIRVIEW, WIS.	055	023	SW			1975	1975	A				USGS	D
07060001	MISSISSIPPI R STODDARD	055	123	SW			1966		B				WI003	P
07060001	MISSISSIPPI R DAM NO 8 GENOA WIS	055	123	SW			1966		B				WI003	P
07060001	MISSISSIPPI R THIEF SL BOAT LANDIN	055	123	SW			1966		B				WI003	P
07060001	MISSISSIPPI R BOAT RAMP VICTORY WI	055	123	SW			1966		B				WI003	P
07060002	UPPER IOWA RIVER AT DECORAH, IOWA	019	191	SW	511.00	004	1961		E	E		2	USGS	D
07060002	UPPER IOWA R NR DORCHESTER IA	019	005	SW	700.00		1975		A	A		A	USGS	D
07060003	TURKEY RIVER AT GARBER, IOWA	019	043	SW	1545.00	004	1956	1973	2			2	USGS	D
07060003	GRANT RIVER AT BURTON, WI	055	043	SW	269.00	004	1954	1975	E	E	E		USGS	D
07060003	PLATTE RIVER NEAR ROCKVILLE, WI	055	043	SW	142.00	004	1965	1978	A	E		A	USGS	D
07060003	LITTLE MAQUOKETA RIVER NEAR DURANGO, IOWA	019	061	SW	130.00	004	1944	1973	E			E	USGS	D
07060004	TURKEY RIVER AT SPILLVILLE, IOWA	019	191	SW	177.00	004	1965	1973	R			R	USGS	D
07060005	MISSISSIPPI R AT EAST DUBUQUE ILL	017	085	SW			1942		O	B			USCE	
07060005	GALENA R AT BUNCOMBE WISCONSIN	055	065	SW			1942	1967	O	B			USCE	
07060005	GALENA RIVER AT BUNCOMBE, WI	055	065	SW	125.00	004	1970	1978	A			A	USGS	D
07060005	GALENA RIVER AT GALENA, IL	017	085	SW	196.00	004	1975	1975	A			A	USGS	D
07060006	BEAR CREEK NEAR MONMOUTH, IOWA	019	097	SW	61.30	004	1966	1975	E			E	USGS	D
07060006	MAQUOKETA RIVER NEAR MAQUOKETA, IOWA	019	097	SW	1553.00	004	1944	1975	R			R	USGS	D
07070001	WISCONSIN R AT RAINBOW LK NEAR LAKE TOMAHAWK	055	085	SW	750.00	014	1966	1978	A			A	USGS	D
07070001	SPIRIT RIVER AT SPIRIT FALLS, WI	055	069	SW	82.00	004	1954	1975	E	E	E		USGS	D
07070002	PRAIRIE RIVER NEAR MERRILL, WI	055	069	SW	181.00	004	1964		A			A	USGS	D
07070002	WISCONSIN RIVER AT MERRILL, WI	055	069	SW	2780.00	014	1966	1978	R			R	USGS	D
07070002	EAU CLAIRE RIVER NEAR ANTIGO, WI	055	067	SW	183.00	004	1975		A			A	USGS	D
07070002	EAU CLAIRE RIVER AT KELLY, WI	055	073	SW	375.00	004	1954	1975	E	E	E		USGS	D
07070002	WISCONSIN RIVER AT ROTHSCHILD, WI	055	073	SW	4000.00	014	1976	1978	A			A	USGS	D
07070002	BIG EAU PLEINE RIVER NEAR STRATFORD, WI	055	073	SW	224.00	004	1964		M	A		M	USGS	D
07070002	FENWOOD CREEK AT BRADLEY, WI	055	073	SW		004	1974		K			K	USGS	D
07070002	FREEMAN CREEK AT HALDER, WI	055	073	SW		004	1974		R			R	USGS	D
07070002	BIG EAU PLEINE RIVER NEAR KNOWLTON, WI	055	073	SW	365.00	014	1974		S			S	USGS	D
07070003	LITTLE PLOVER RIVER NEAR ARNOTT, WI	055	097	SW	2.24	004	1963	1974	A			A	USGS	D
07070003	LITTLE PLOVER RIVER AT PLOVER, WI	055	097	SW	19.00	004	1968		Q	E		Q	USGS	D
07070003	BUENA VISTA CREEK NEAR KELLNER, WI	055	097	SW	44.00	004	1964	1973	A			A	USGS	D
07070003	TENMILE CREEK DITCH 5 NEAR BANCROFT, WI	055	097	SW	8.80	014	1964	1975	E			E	USGS	D
07070003	TENMILE CREEK NEAR NEKOOSA, WI	055	141	SW	64.00	004	1963	1975	E	E	E		USGS	D
07070003	FOURTEENMILE CREEK NEAR NEW ROME, WI	055	001	SW	77.00	004	1974	1978	A			A	USGS	D
07070003	BIG ROCHE A CRI CREEK NEAR HANCOCK, WI	055	137	SW	9.50	004	1973	1973	A			A	USGS	D
07070003	BIG ROCHE A CRI CREEK NR ADAMS, WIS.	055	001	SW			1942	1975	R	E		R	USGS	D
07070003	BIG ROCHE A CRI CREEK NEAR ADAMS, WI	055	001	SW	54.00	004	1968	1975	E	E	E		USGS	D
07070003	YELLOW RIVER AT BABCOCK, WI	055	141	SW	223.00	004	1965	1978	R			R	USGS	D
07070003	LEMONWEIR RIVER AT NEW LISBON, WI	055	057	SW	500.00	004	1966		W			W	USGS	D

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07070003	HULBERT CREEK NEAR WISCONSIN DELLS, WI	055	111	SW	11.10	004	1970		M				USGS	D
07070003	DELL CREEK NEAR LAKE DELTON, WI	055	111	SW	44.90	004	1956	1978	2			2	USGS	D
07070003	WISCONSIN RIVER NEAR WISCONSIN DELLS, WI	055	111	SW	7830.00	014	1973		A			A	USGS	D
07070003	PINE RIVER AT SITE 36A AT YUBA, WIS.	055	103	SW			1974	1975	R			R	USGS	D
07070004	BARABOO RIVER NR. REEDSBURG, WIS.	055	111	SW			1973	1973	A			A	USGS	D
07070004	NARROWS CREEK AT LOGANVILLE, WI	055	111	SW	40.10	004	1967	1967	E		E		USGS	
07070004	BARABOO RIVER NEAR BARABOO, WI	055	111	SW	600.00	004	1965		Q			Q	USGS	D
07070005	BLACK EARTH CREEK AT BLACK EARTH, WI	055	025	SW	45.60	004	1953		2	E		2	USGS	D
07070005	TROUT CR CONFLUENCE ARNESON CR NR BARNEVELD,	055	049	SW	8.37	014	1975		Q	Q			USGS	P
07070005	TROUT CREEK AT TWIN PARKS DAM 8 NR BARNEVELD	055	049	SW	9.02	004	1975		Q	Q			USGS	
07070005	TROUT CREEK AT CTH T NEAR BARNEVELD, WI	055	049	SW	12.10	004	1975		Q	Q			USGS	P
07070005	TROUT CREEK NEAR RIDGEWAY, WI	055	049	SW	13.50	004	1975		Q	Q			USGS	P
07070005	OTTER CREEK NEAR HIGHLAND, WI	055	049	SW	16.60	004	1968	1972	A			A	USGS	D
07070005	PINE RIVER AT SITE 36B NEAR HUB CITY, WI	055	103	SW			1974	1975	R			R	USGS	D
07070005	MALANCTHON CREEK AT SITE 21A NR HUB CITY, WI	055	103	SW			1974	1975	R			R	USGS	D
07070005	MALANCTHON CREEK AT SITE 21B NR HUB CITY, WI	055	103	SW			1974	1975	R			R	USGS	D
07070005	W BR PINE RIVER AT SITE 14A4 NR BLOOM CITY,	055	103	SW			1974	1975	R			R	USGS	D
07070005	W BR PINE RIVER AT SITE 14B NR BLOOM CITY, W	055	103	SW			1974	1975	R			R	USGS	D
07070005	W BR PINE R TRIB AT SITE 11A1 NR BLOOM CITY,	055	103	SW			1974	1975	R			R	USGS	D
07070005	W BR PINE R TRIB AT SITE 11A2 NR BLOOM CITY,	055	103	SW			1974	1975	R			R	USGS	D
07070005	W BR PINE R TRIB AT SITE 11B AT BLOOM CITY,	055	103	SW			1974	1975	R			R	USGS	D
07070005	FANCY CREEK AT SITE 33A NR GILLINGHAM, WIS.	055	103	SW			1974	1975	R			R	USGS	D
07070005	FANCY CREEK AT SITE 33B NR GILLINGHAM, WIS.	055	103	SW			1974	1975	R			R	USGS	D
07070005	FANCY CREEK TRIB AT SITE 9A NR GILLINGHAM, W	055	103	SW			1974	1975	R			R	USGS	D
07070005	FANCY CREEK TRIB AT SITE 9B1 NR GILLINGHAM,	055	103	SW			1974	1975	R			R	USGS	D
07070005	FANCY CREEK TRIB AT SITE 7A3 NR GILLINGHAM,	055	103	SW			1974	1975	R			R	USGS	D
07070005	FANCY CREEK TRIB AT SITE 7B NR GILLINGHAM, W	055	103	SW			1974	1975	R			R	USGS	D
07070005	HORSE CREEK AT SITE 32A1 NR RICHLAND CTR, WI	055	103	SW			1974	1975	R			R	USGS	D
07070005	HORSE C TRIB AT SITE 32A2 NR RICHLAND CTR, W	055	103	SW			1974	1975	R			R	USGS	D
07070005	HORSE CREEK AT SITE 32B NR RICHLAND CENTER,	055	103	SW			1974	1975	R			R	USGS	D
07070005	BRUSH CREEK AT SITE 4A1 NR RICHLAND CENTER,	055	103	SW			1974	1975	R			R	USGS	D
07070005	BRUSH C TRIB AT SITE 4A2 NR RICHLAND CTR, WI	055	103	SW			1974	1975	R			R	USGS	D
07070005	BRUSH CREEK AT SITE 4B NR RICHLAND CENTER, W	055	103	SW			1974	1975	R			R	USGS	D
07070005	PINE RIVER AT RICHLAND CENTER, WIS.	055	103	SW			1974	1975	R			R	USGS	D
07070005	ASH CREEK AT SITE 2A NR RICHLAND CENTER, WIS	055	103	SW			1974	1975	R			R	USGS	D
07070005	ASH CREEK AT SITE 2B NEAR RICHLAND CENTER, W	055	103	SW			1974	1975	R			R	USGS	D
07070005	PINE RIVER AT TWIN BLUFFS, WIS.	055	103	SW			1974	1975	R			R	USGS	D
07070005	WISCONSIN RIVER AT MUSCODA, WI	055	043	SW	10300.00	014	1954		O	E		O	USGS	D
07070006	KICKAPOO RIVER AT ONTARIO, WI	055	123	SW			1942	1973	2	R		2	USGS	D
07070006	KICKAPOO RIVER AT ONTARIO, WI	055	123	SW	151.00	004	1972		O	E		O	USGS	D

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07070006	KICKAPOO RIVER NEAR ROCKTON, WI	055	123	SW	264.00	004	1970		O	E		O	USGS	D
07070006	KICKAPOO RIVER NEAR LA FARGE, WI	055	123	SW			1970					2	USGS	D
07070006	KICKAPOO RIVER AT LAFARGE, WI	055	123	SW	266.00	004	1966	1978	O	R		O	USGS	D
07070006	KICKAPOO RIVER AT SOLDIERS GROVE, WI	055	023	SW	530.00	004	1974	1974	A			A	USGS	D
07070006	NORTH FORK NEDERLO CREEK NEAR GAYS MILLS, WI	055	023	SW	2.28	004	1966		R	E		E	USGS	D
07070006	SOUTH FORK NEDERLO CREEK NEAR GAYS MILLS, WI	055	023	SW	4.10	004	1967		R	E		E	USGS	D
07070006	NEDERLO CREEK AT UTICA TN HALL NR GAYS MILLS	055	023	SW	6.70	004	1966		Q	E		E	USGS	D
07070006	NEDERLO CREEK NEAR GAYS MILLS, WI	055	023	SW	9.61	004	1966		R	E		E	USGS	D
07070006	KICKAPOO RIVER AT GAYS MILLS, WI	055	023	SW	616.00	004	1971		Q	E		Q	USGS	D
07070006	KICKAPOO RIVER AT STEUBEN, WI	055	023	SW	690.00	004	1965		A			A	USGS	D
07080101	MISSISSIPPI RIVER AT CLINTON, IOWA	019	045	SW	85600.00	004	1967		A	A		A	USGS	D
07080101	CROW C AT BETTENDORF IA	019	163	SW			1977		M	Q	Q	M	USGS	D
07080101	ROCK RIVER NEAR JOSLIN, IL	017	161	SW	9551.00	004	1974		E	E		E	USGS	D
07080102	WAPSIPINICON R AT INDEPENDENCE, IOWA	019	019	SW	1048.00	004	1947	1973	2	E		2	USGS	D
07080103	WAPSIPINICON R NR DEWITT IOWA	019	045	SW			1942		O	B			USCE	
07080103	WAPSIPINICON RIVER NEAR DE WITT, IOWA	019	045	SW	2330.00	004	1944	1975	R			R	USGS	D
07080104	MISSISSIPPI R AT BURLINGTON IOWA	019	057	SW			1942		O	B			USCE	
07080104	MISSISSIPPI R AT KEOKUK IOWA	019	111	SW			1943		O	B			USCE	
07080104	SOUTH HENDERSON CREEK AT BIGGSVILLE, IL	017	071	SW	82.90	004	1965	1974	A			A	USGS	D
07080104	MISSISSIPPI RIVER AT KEOKUK, IOWA	019	111	SW	119000.00		1944		N	A		N	USGS	D
07080105	S SKUNK R BL SQUAW C NR AMES IOWA	019	169	SW			1967		O	B			USCE	
07080105	SOUTH SKUNK RIVER NEAR OSKALOOSA, IOWA	019	123	SW	1635.00	004	1946	1973	E			E	USGS	D
07080106	NORTH SKUNK RIVER NEAR SIGOURNEY, IOWA	019	107	SW	730.00		1946	1973	R			R	USGS	D
07080107	SKUNK RIVER AT AUGUSTA, IOWA	019	057	SW	4303.00		1966		O	Q	M	O	USGS	D
07080107	SKUNK RIVER AT AUGUSTA, IOWA	019	057	SW			1944		K	K		K	USGS	D
07080201	CEDAR RIVER NEAR AUSTIN,MINN.	027	099	SW	425.00	004	1961	1978	4	E		4	USGS	D
07080205	FOURMILE CREEK NEAR LINCOLN, IOWA	019	171	SW	13.78	004	1968	1974	2	A		2	USGS	D
07080205	HALF MILE CREEK NEAR GLADBROOK, IOWA	019	171	SW	1.33		1968	1973	2	E		2	USGS	D
07080205	FOURMILE CREEK NEAR TRAER, IOWA	019	171	SW	19.51	004	1968	1974	2	K		2	USGS	D
07080205	WOLF CR AT LAPORTE CITY, IOWA	019	013	SW	327.00	004	1970		E			E	USGS	D
07080205	OTTER C NR CEDAR RAPIDS, IOWA	019	113	SW	65.10	004	1970		E			E	USGS	D
07080205	CEDAR RIVER AT CEDAR RAPIDS, IOWA	019	113	SW	6510.00		1906	1973	E			2	USGS	D
07080205	PRAIRIE CREEK AT FAIRFAX, IOWA	019	113	SW	178.00		1971	1975	Q			Q	USGS	D
07080205	FOUR MILE CREEK NR TRAER IOWA	019	171	SW			1962	1974	C	C	C		IA007	D
07080206	SUGAR C NR MOSCOW, IOWA	019	139	SW	218.00	004	1970		E			E	USGS	D
07080206	CEDAR RIVER NEAR CONESVILLE, IOWA	019	139	SW	7785.00		1944	1975	R			R	USGS	D
07080207	IOWA RIVER NEAR ROWAN, IOWA	019	197	SW	429.00	004	1956	1974	2			2	USGS	D
07080208	IOWA R AT MARSHALLTOWN IOWA	019	127	SW			1944	1967	O	B			USCE	
07080208	IOWA R AT MARENGO IOWA	019	095	SW			1957		O	B			USCE	
07080208	TIMBER CREEK NEAR MARSHALLTOWN, IOWA	019	127	SW	118.00	004	1966	1974	E			E	USGS	D

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07080208	RICHLAND CREEK NEAR HAVEN, IOWA	019	171	SW	56.10	004	1966	1966	A			A	USGS	D
07080208	SALT CREEK NR ELBERON, IOWA	019	171	SW	201.00	004	1966	1973	E			E	USGS	D
07080208	WALNUT CREEK NEAR HARTWICK, IOWA	019	157	SW	70.90	004	1966	1966	A			A	USGS	D
07080208	BIG BEAR CREEK AT LADORA, IOWA	019	095	SW	189.00	004	1948	1973	A			A	USGS	D
07080208	IOWA RIVER NEAR MARENGO, IOWA	019	095	SW	2794.00	004	1968	1975	R			R	USGS	D
07080208	RALSTON CREEK AT IOWA CITY, IOWA	019	103	SW	3.01		1952	1978	O	A		O	USGS	D
07080209	RAPID CREEK NEAR IOWA CITY, IOWA	019	103	SW	25.30	004	1948	1973	K			K	USGS	D
07080209	CLEAR CREEK NR CORALVILLE, IOWA	019	103	SW	98.10	004	1964	1975	R			R	USGS	D
07080209	IOWA RIVER AT IOWA CITY, IOWA	019	103	SW	3271.00		1906	1978	O	E		O	USGS	D
07080209	SOUTH BRANCH RALSTON CREEK AT IOWA CITY, IOW	019	103	SW	2.94		1967	1974	K			K	USGS	D
07080209	OLD MANS CR NR IOWA CITY, IOWA	019	103	SW	201.00	004	1970		E			E	USGS	D
07080209	ENGLISH RIVER AT KALONA, IOWA	019	183	SW	573.00		1946	1975	H			H	USGS	D
07080209	IOWA RIVER NEAR LONE TREE, IOWA	019	103	SW	4293.00	014	1974	1975	R			R	USGS	D
07080209	IOWA RIVER AT COLUMBUS JUNCTION,	019	115	SW			1976	1976	A	A		A	USGS	D
07080209	IOWA RIVER AT WAPELLO, IOWA	019	115	SW	12499.00		1944		A	A		A	USGS	D
07090001	WEST BRANCH ROCK RIVER NEAR WAUPUN, WI	055	039	SW	41.40	004	1966	1968	E				USGS	D
07090001	SOUTH BRANCH ROCK RIVER AT WAUPUN, WI	055	039	SW	62.80	004	1968	1968	E				USGS	D
07090001	EAST BRANCH ROCK RIVER NEAR MAYVILLE, WI	055	027	SW	179.00	004	1964	1972	K			K	USGS	D
07090001	KOSHKONONG CREEK NEAR SUN PRAIRIE, WI	055	025	SW			1974		A			A	USGS	D
07090001	YAHARA RIVER AT WINDSOR, WI	055	025	SW	73.60	004	1976	1978	D	Q			USGS	D
07090001	TOKEN CREEK AT MADISON, WI	055	025	SW	24.30	004	1967	1978	A				USGS	D
07090001	YAHARA RIVER AT STATE HWY 113 AT MADISON, WI	055	025	SW	113.00	004	1976		D	Q			USGS	P
07090001	SIX MILE C AT ST HWY 113 AB WAUNAKEE WI	055	025	SW		004	1976		D				USGS	D
07090001	SIXMILE CREEK NEAR WAUNAKEE, WI	055	025	SW	41.10	004	1976		D	Q			USGS	D
07090001	SPRING CREEK NEAR WAUNAKEE, WI	055	025	SW		004	1976		K	Q		K	USGS	D
07090001	WARNER PARK STORM DITCH AT MADISON, WI	055	025	SW	.57	003	1976	1976	D	Q			USGS	D
07090001	PHEASANT BRANCH AT MIDDLETON, WI	055	025	SW	17.10	004	1974		E	E		E	USGS	D
07090001	PHEASANT BRANCH AT CENTURY AVE AT MIDDLETON,	055	025	SW	23.10		1974		N	E		N	USGS	D
07090001	SPRING HARBOR STORM SEWER AT MADISON, WI	055	025	SW	3.29	003	1976	1978	D	Q			USGS	D
07090001	WILLOW CREEK AT MADISON, WI	055	025	SW	3.14	003	1972		O	E		O	USGS	D
07090001	WEST BRANCH STARKWEATHER CREEK AT MADISON, W	055	025	SW		003	1967		K	Q		K	USGS	D
07090001	EAST BRANCH STARKWEATHER CREEK AT MADISON, W	055	025	SW		003	1967		K	Q		K	USGS	D
07090001	OLBRICH PARK STORM DITCH AT MADISON, WI	055	025	SW	2.36	003	1976	1978	D				USGS	
07090001	NEVIN WETLAND SITE H AT MADISON, WIS.	055	025	SW			1974	1975	N	E		N	USGS	D
07090001	NEVIN WETLAND SITE F AT MADISON, WIS.	055	025	SW			1974	1975	A	E		A	USGS	D
07090001	NEVIN WETLAND SITE B AT MADISON, WIS.	055	025	SW			1974	1975	H			H	USGS	D
07090001	NEVIN WETLAND SITE G AT MADISON, WIS.	055	025	SW			1974	1975	K			K	USGS	D
07090001	NEVIN WETLAND SITE A AT MADISON, WIS.	055	025	SW			1974	1975	K			K	USGS	D
07090001	NEVIN WETLAND SITE D AT MADISON, WIS.	055	025	SW			1974	1975	M			M	USGS	D
07090001	YAHARA RIVER NEAR MC FARLAND, WI	055	025	SW	327.00	004	1954		A			A	USGS	D

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07090001	DOOR CREEK NEAR COTTAGE GROVE, WI	055	025	SW	15.30	004	1976		E	E		E	USGS	D
07090001	BADFISH CREEK NEAR COOKSVILLE, WI	055	105	SW			1967		K			K	USGS	D
07090001	ROCK RIVER AT AFTON, WI	055	105	SW	3338.00	004	1954	1978	A			A	USGS	D
07090001	TURTLE CREEK NEAR CLINTON, WI	055	105	SW	202.00	004	1940	1975	E	E			USGS	C
07090002	MAUNESHA RIVER NR SUN PRAIRIE, WIS.	055	025	SW		004	1976		D				USGS	D
07090002	CRAWFISH RIVER AT MILFORD, WI	055	055	SW	732.00	004	1964	1978	R			R	USGS	D
07090003	PECATONICA RIVER AT DARLINGTON, WI	055	065	SW	273.00	004	1954	1975	E	E	E		USGS	D
07090003	EAST BR PECATONICA RIVER NEAR BLANCHARDVILLE	055	065	SW	221.00	004	1965	1978	A			A	USGS	D
07090003	YELLOWSTONE RIVER NEAR BLANCHARDVILLE, WI	055	065	SW	29.10	004	1956	1969	K			2	USGS	D
07090003	PECATONICA RIVER AT MARTINTOWN, WI	055	045	SW	1034.00	004	1970	1978	A			A	USGS	D
07090004	MOUNT VERNON CREEK NEAR MOUNT VERNON, WI	055	025	SW	16.40	004	1954	1978	2			2	USGS	D
07090004	SUGAR RIVER NEAR BRODHEAD, WI	055	045	SW	523.00	004	1965		A			A	USGS	D
07100004	DES MOINES R NR BOONE IOWA	019	015	SW			1940		O	B			USCE	
07100004	DES MOINES R NR STRATFORD IOWA	019	187	SW			1968		O	B			USCE	
07100004	DES MOINES RIVER NEAR SAYLORVILLE, IOWA	019	153	SW	5841.00	004	1960		O	E		O	USGS	D
07100004	DES MOINES RIVER AT DES MOINES, IOWA	019	153	SW	6245.00	004	1953	1975	2			2	USGS	D
07100004	EAST FORK HARDIN CREEK NR. CHURDAN, IOWA	019	073	SW	24.00	004	1966	1974	E			E	USGS	D
07100004	MIDDLE RACCOON RIVER AT PANORA, IOWA	019	077	SW	440.00	004	1965	1974	E			E	USGS	D
07100006	RACCOON R AT VAN METER IOWA	019	049	SW			1940		O	B			USCE	
07100006	WALNUT CREEK AT DES MOINES, IOWA	019	153	SW	80.90		1971	1975	E			E	USGS	D
07100008	SOUTH R NR ACKWORTH IOWA	019	181	SW			1962		O	B			USCE	
07100008	MIDDLE R NR INDIANOLA IOWA	019	181	SW			1967		O	B			USCE	
07100008	NORTH R NR NORWALK IOWA	019	181	SW			1962		O	B			USCE	
07100008	WHITEBREAST C NR DALLAS IOWA	019	125	SW			1962	1967	O	B			USCE	
07100008	DES MOINES R. BL RACCOON R. AT DES MOINES, I	019	153	SW	9879.00	004	1943	1973	E	E	E	2	USGS	D
07100008	FOURMILE CREEK AT DES MOINES, IOWA	019	153	SW	92.70		1971	1975	E			E	USGS	D
07100008	MIDDLE RIVER NEAR INDIANOLA, IOWA	019	181	SW	503.00	004	1945	1973	2	E		2	USGS	D
07100008	WHITE BREAST CREEK NEAR DALLAS, IOWA	019	125	SW	342.00	004	1966		2	R		2	USGS	D
07100009	DES MOINES R NR TRACY IOWA	019	123	SW			1940		O	B			USCE	
07100009	DES MOINES RIVER NEAR TRACY, IOWA	019	123	SW	12479.00		1944	1973	E			E	USGS	D
07100009	CEDAR CREEK NEAR BUSSEY, IOWA	019	125	SW	374.00		1969		E			E	USGS	D
07100009	SUGAR CREEK NEAR KEOKUK, IOWA	019	111	SW	105.00	004	1965	1975	E	E		E	USGS	D
07110001	DES MOINES RIVER AT ST. FRANCISVILLE, MO.	029	045	SW		004	1967		M	M		M	USGS	D
07110001	FOX RIVER AT BLOOMFIELD, IOWA.	019	051	SW	87.70	004	1967	1967	A			A	USGS	D
07110004	HADLEY C AT KINDERHOOK ILLINOIS	017	149	SW			1940		O	B			USCE	
07110004	BAY C AT NEBO ILL	017	149	SW			1942		O	B			USCE	
07110004	MISSISSIPPI R AT HANNIBAL MISSOURI	029	127	SW			1943		O	B			USCE	
07110007	SALT R AT JOANNA MO	029	137	SW			1939	1977	E	E			USCE	
07110009	MISSISSIPPI RIVER AT ALTON, IL	029	119	SW	171500.00		1967		M	M			USGS	D
07120001	KANKAKEE RIVER AT SHELBY, IND.	018	089	SW	1779.00		1963		M			M	USGS	D

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07120002	IROQUOIS RIVER NEAR FORESMAN, IND.	018	111	SW	449.00		1968		R	A		R	USGS	D
07120002	IROQUOIS RIVER AT IROQUOIS, IL	017	075	SW	686.00	004	1965		E			E	USGS	D
07120005	ILLINOIS RIVER AT MARSEILLES, IL	017	099	SW	8259.00	001	1974		E	E		E	USGS	D
07120006	FOX RIVER AT WAUKESHA, WI	055	133	SW	127.00	004	1963	1975	E	E	E		USGS	D
07120006	MUKWONAGO RIVER AT MUKWONAGO, WI	055	133	SW	76.20	004	1961		R			R	USGS	D
07120006	SUGAR CREEK AT ELKHORN, WI	055	127	SW	6.68	004	1975	1975	A			A	USGS	D
07120006	WHITE RIVER NEAR BURLINGTON, WI	055	127	SW	97.50	004	1961	1978	R			R	USGS	D
07120006	FOX RIVER AT BURLINGTON, WIS.	055	101	SW			1973	1973	A			A	USGS	D
07120006	FOX RIVER AT WILMOT, WI	055	059	SW	868.00	004	1961		A			A	USGS	D
07120006	FOX RIVER NEAR CHANNEL LAKE, IL	017	097	SW		004	1975		N			N	USGS	D
07120006	NIPPERSINK CREEK NEAR SPRING GROVE, IL	017	111	SW	192.00	004	1909		Q			Q	USGS	D
07130005	BIG CREEK AT ST. DAVID, IL	017	057	SW	26.70	004	1970		O	E		O	USGS	D
07130005	BIG CREEK NEAR BRYANT, IL	017	057	SW	40.30	004	1970		O	E		O	USGS	D
07130005	SLUG RUN NEAR BRYANT,IL	017	057	SW	7.90	004	1974		O	Q		O	USGS	D
07130011	ILLINOIS RIVER AT VALLEY CITY	017	171	SW		001	1974		N	N		K	USGS	D
071324 T	MISSISSIPPI RIVER BELOW ALTON,ILL	029	119	SW	171500.00	014	1975		M	M		M	USGS	D
07140101	MISSISSIPPI RIVER AT ST LOUIS MO	029	510	SW	701000.00		1956	1978	O	E		O	USGS	D
07140102	MERAMEC RIVER NEAR EUREKA, MO	029	189	SW	3788.00		1945	1975	2			2	USGS	D
07140102	CURRENT RIVER BELOW MONTAUK STATE PARK	029	065	SW		004	1973		E			E	USGS	D
07140105	MISSISSIPPI RIVER AT THEBES ILL	029	003	SW	717200.00		1973		R	M		R	USGS	D
07140106	BIG MUDDY RIVER AT MURPHYSBORO, IL	017	077	SW	2162.00	014	1974		E	E		E	USGS	D
07140204	KASKASKIA RIVER NEAR VENEDY STATION, IL	017	189	SW	4393.00	014	1974		N	N		N	USGS	D

LOWER MISSISSIPPI REGION 08

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080014 E	MISS R %SW PASS< AT EAST JETTY	022	075	SW			1974	1974	B	B	B		USCE	C
080014 E	MISS. SOUND AB GRAND IS, MISS.	022	087	OC			1973	1974	E	E		E	USCE	D
080014 E	MISS R.-NEW ORLEANS-H.P. LONG BR	022		SW			1964	1967		E			USEPA	D
080014 E	MISSISSIPPI R AT NEW ORLEANS LA	032		SW			1965	1967		E			USEPA	D
080014 E	MR-GO BRETON SND AT MILE 14.1	022	075	SW			1966	1969	A			A	USCE	D
080014 E	MR-GO BRETON SND AT MILE 19.0	022	087	SW			1966	1968	A			A	USCE	D
080014 E	MR-GO AT TOWER 1 MILE 12.2	022	087	SW			1962	1973	E			E	USCE	D
080014 E	MR-GO AT TOWER 2 MILE 9.5	022	087	SW			1966	1973	E			E	USCE	D
080014 E	MR-GO AT TOWER 3 MILE 6.0	022	087	SW			1962	1973	E			E	USCE	D
080014 E	MR-GO AT TOWER 4 MILE 3.0	022	075	SW			1969	1973	E			E	USCE	D
080014 E	MR-GO BRETON SND AT MILE 18.3	022	087	SW			1967	1968	E			E	USCE	D
080014 E	MR-GO BRETON SOUND AT RANGE 2620	022	087	SW			1967		M				USCE	C
080014 E	MR-GO AT MILE 13.7	022	075	SW			1967	1967	R			R	USCE	D
080014 E	MR-GO AT MI 0.0 %NAV LT C<	022	075	SW			1970	1973	E			E	USCE	D
080014 E	BRETON SOUND S OF POINT GARDNER	022	087	ES			1958	1961	W				USCE	C
080014 E	CHANDELEUR SND S OF CHICOT ISL	022	087	SW			1957	1974	W				USCE	C
080014 E	CHANDELEUR SOUND W OF NORTH IS	022	087	ES			1957	1957	B				USCE	C
080014 E	CHANDELEUR SOUND SW OF NORTH IS	022	087	ES			1957	1957	B				USCE	C
080014 E	CHANDELEUR SWD NR CHANDELEUR IS	022	087	ES			1957	1957	B				USCE	C
080014 E	GULF OF MEXICO NR CHANDELEUR ISL	022	087	ES			1957	1957	B				USCE	C
080014 E	CHANDLR SND 5.0 MI SE PT CHICOT	022	087	ES			1957	1959	W				USCE	C
080014 E	GULF OF MEX E GRAND GOSIER IS	022	075	ES			1957	1957	B				USCE	C
080014 E	CHANDELEUR SND NR BRETON IS TRE B	022	087	ES			1957	1957	B				USCE	C
080014 E	GULF OF MEX S GRAND GOSIER IS	022	075	ES			1957	1957	B				USCE	C
080014 E	GULF OF MEX 5.75 MI W BRETON IS	022	075	ES			1958	1958	W				USCE	C
080014 E	CHANDLR SND 10.0 MI SE PT CHICOT	022	087	ES			1957	1959	W				USCE	C
080014 E	GULF OF MEXICO NR CHANDELEUR IS	022	087	ES			1958	1959	B				USCE	C
080014 E	CHANDLEUR SND 12 MI SE PT LYDIA	022	087	ES			1958	1958	B				USCE	C
080014 E	CHAND SND 9 MI N W GRD GOSIER IS	022	075	ES			1958	1959	W				USCE	C
080015 N	AMITY ARK	005	019	SW			1958		B				AR001	P
080015 N	MALVERN ARK	005	059	SW			1935		B				AR001	P
080015 N	MOUNT IDA ARK	005	097	SW			1948		B				AR001	P
080015 N	CAMDEN ARK	005	103	SW			1936		B				AR001	P
080015 N	NORMAN ARK	005	097	SW			1935		B				AR001	P
080015 N	DELIGHT ARK	005	109	SW			1960		B				AR001	P
080015 N	GLENWOOD ARK	005	109	SW			1936		B				AR001	P
080015 N	ARKADELPHIA ARK	005	103	SW			1935		B				AR001	P
080015 O	BAUXITE ARK	005	125	SW			1939		B				AR001	P
080015 O	BENTON ARK	005	125	SW			1935		B				AR001	P
080016 G	MISSISSIPPI R HICKMAN MILE 920.5	021	075	SW			1966	1966	E	E			USEPA	D

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08010100	MISSISSIPPI RIVER AT MEMPHIS, TENN.	047	157	SW	932800.00	004	1963		E	E		E	USGS	D
08010201	MAYFIELD CR AT MOUTH	021	039	SW			1977		M				KY001	
08010201	BAYOU DECHIEN CLINTON	021	105	SW			1977		M				KY001	
08010202	REELFOOT CREEK NEAR SAMBURG, TENN.	047	131	SW	110.00		1965	1975	R	R		R	USGS	D
08010202	RUNNING SLOUGH AT LEDFORD, KY	021	075	SW			1975	1975	R	R		R	USGS	D
08010202	BIG SANDY CREEK AT NEW MARKHAM, TENN	047	095	SW			1975	1975	R	R		R	USGS	D
08010202	INDIAN CREEK AT SAMBURG, TENN	047	131	SW			1975	1975	R	R		R	USGS	D
08010202	REELFOOT LAKE SPILLWAY NEAR TIPTONVILLE TN	047	095	SW			1975	1975	R	R		R	USGS	D
08010207	TOMBIGBEE RIVER AT ABERDEEN, MS.	028	095	SW	2169.00	004	1971		E			E	USGS	D
08010207	TUSCUMBIA RIVER CANAL NEAR CORINTH, MISS.	028	003	SW	277.00		1969	1975	R			R	USGS	D
08010208	HATCHIE RIVER AT BOLIVAR, TENN.	047	069	SW	1480.00		1964		Q	Q			USGS	P
08010210	WOLF R.AT THOMAS ST BRIDGE HWY51	047	157	SW			1964	1967	E	E			USEPA	D
08010211	JOHNS CREEK AT HOLMES ROAD, AT CAPLEVILLE, T	047	157	SW			1975	1975	A	A		A	USGS	D
08010211	HORN LAKE CREEK AT HORN LAKE, MISS.	028	033	SW			1974	1975	R				USGS	D
08010211	MISSISSIPPI R MEMPHIS TENN MI 735.2	047	157	SW			1965	1967	E	E			USEPA	D
08020203	ST. FRANCIS RIVER AT LAKE CITY, ARK.	005	031	SW			1946		A	A		A	USGS	D
08020203	ST. FRANCIS RIVER AT PARKIN, ARK.	005	037	SW	6475.00	014	1955		E	E		E	USGS	D
08020203	ST. FRANCIS BAY AT RIVERFRONT, ARK.	005	037	SW	6475.00	024	1955		E	E		E	USGS	D
08020204	RIGHT HAND CHUTE OF LITTLE R AT RIVERVALE, A	005	111	SW	2106.00	024	1950		A	A		A	USGS	D
08020205	L'ANGUILLE RIVER NR COLT, ARK.	005	123	SW	535.00	024	1970		E	E		E	USGS	D
08020302	CACHE RIVER AT PATTERSON, ARK.	005	147	SW	1041.00	014	1951		E	E		E	USGS	D
08020302	BAYOU DEVIEW AT MORTON, ARK.	005	147	SW	422.00	004	1973		E	E		E	USGS	D
08020303	WHITE RIVER AT CLARENDON, ARK.	005	095	SW	25497.00	014	1946		H	H		E	USGS	D
08020303	WHITE RIVER NEAR BENZIA	005	041	SW			1965	1966	E	E			USEPA	D
08020401	ARKANSAS RIVER AT YANCOPIN	005	041	SW			1965	1966		E			USEPA	D
080216 Q	ST. FRANCIS RIVER AT ST. FRANCIS, ARK.	005	021	SW	1772.00	014	1946		A	A		A	USGS	D
08030100	MISSISSIPPI RIV NR ARKANSAS CITY, ARK.	005	041	SW	1130600.00	014	1973		E	E		E	USGS	D
08030202	TILLATOBA CREEK BELOW OAKLAND, MISS.	028	135	SW	37.10		1975		A			A	USGS	D
08030202	TALLAHATCHIE R AB PEMBERTON CUT NR GREENWOOD	028	083	SW			1974	1974	A			A	USGS	D
08030202	BIG SAND CREEK AT MOUTH NEAR GREENWOOD, MISS	028	083	SW			1974	1974	A			A	USGS	D
08030202	YAZOO R AB PEMBERTON CUT NR GREENWOOD, MISS.	028	083	SW			1974	1974	A			A	USGS	D
08030203	YOCONA RIVER NEAR OXFORD, MISS.	028	071	SW	262.00	004	1971	1975	R			R	USGS	D
08030205	TALLAHATCHIE RIVER AT GREENWOOD, MISS.	028	083	SW			1974	1974	A			A	USGS	D
08030205	TALLAHATCHIE R AB YALOBUSHA R AT GREENWOOD,	028	083	SW			1974	1974	A			A	USGS	D
08030205	YALOBUSHA RIVER AT GRENADA, MISS.	028	043	SW	1550.00	004	1972	1975	R				USGS	D
08030205	YALOBUSHA R AB BIG SAND C NR GREENWOOD, MISS	028	083	SW			1974	1974	A			A	USGS	D
08030205	YALOBUSHA RIVER AT MOUTH NEAR GREENWOOD, MIS	028	083	SW			1974	1974	A			A	USGS	D
08030205	YAZOO R TR AB GRENADA JCT NR GREENWOOD, MISS	028	083	SW			1974	1974	A				USGS	D
08030205	YAZOO R BL GRENADA JCT NR GREENWOOD, MISS.	028	083	SW			1974	1974	A			A	USGS	D
08030205	YAZOO RIVER AT US49 BYPASS AT GREENWOOD, MIS	028	083	SW			1974	1974	A			A	USGS	D

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08030205	EFFLUENT DRAIN AT ELEC PLANT AT GREENWOOD, M	028	083	SW			1974	1974	A			A	USGS	D
08030205	YAZOO R AB WALKER LK PUMP PLANT NR GREENWOOD	028	083	SW			1974	1974	A			A	USGS	D
08030206	YAZOO RIVER AT FORT LORING, MISS.	028	083	SW			1974	1974	A			A	USGS	D
08030206	YAZOO RIVER AB PELUCIA CREEK NR GREENWOOD, M	028	083	SW			1974	1974	A			A	USGS	D
08030206	PELUCIA CREEK AT MOUTH NEAR RISING SUN, MISS	028	083	SW			1974	1974	A			A	USGS	D
08030206	YAZOO RIVER AT ROEBUCK, MISS.	028	083	SW			1974	1974	A			A	USGS	D
08030206	YAZOO RIVER NR SHELL BLUFF, MS.	028	083	SW	7650.00	014	1974		E			E	USGS	D
08030207	BIG SUNFLOWER RIVER AT CLARKSDALE, MISS.	028	027	SW	108.00	004	1973	1978	R			E	USGS	D
08030207	BIG SUNFLOWER RIVER AT HOLLY BLUFF, MS.	028	125	SW			1975	1975	A			A	USGS	D
08030208	YAZOO RIVER BELOW REDWOOD	028	049	SW			1965	1967		E			USEPA	D
08030209	STEELE BAYOU NEAR ONWARD, MS.	028	055	SW			1975	1975	A			A	USGS	D
08040101	JONES MILL	005	059	SW			1943		B				AROO1	
08040101	BURCHWOOD BAY - HOT SPRINGS	005	051	SW			1972		B				AROO1	
08040102	MAGNET-BUTTERFIELD-MALVERN	005	059	SW			1971		B				AROO1	
08040102	OUACHITA RIVER AT CAMDEN, ARK.	005	103	SW	5391.00	014	1945		E	E		E	USGS	D
08040103	MOUNT MORIAH - MURFREESBORO	005	109	SW			1971		B				AROO1	
08040202	OUACHITA RIVER NR CROSSETT AR	005	003	SW			1972		W	B	B		USCE	
08040203	WEST BAUXITE - BENTON	005	125	SW			1969		B				AROO1	
08040203	SALEM - BENTON	005	125	SW			1970		B				AROO1	
08040301	RED R AT ALEXANDRIA	022	079	SW	67500.00	014	1923		E	E		2	USGS	D
08040301	OLD R OUTFLOW CH NR KNOX LDG,LA.	022	029	SW			1961	1972	M	M	M		USCE	C
08040301	RED RIVER AT ALEXANDRIA, LA.	022	079	SW	67500.00		1951	1974	E			E	USCE	D
08040301	RED R ABOVE OLD R OUTFLOW CH, LA	022	029	SW			1963	1972	M	M	M		USCE	C
08040301	OLD RIVER OUTFLOW CHANNEL NR KNOX LANDING	022	029	SW			1975	1975	A	A		A	USGS	D
08040301	RED RIVER AT ALEXANDRIA,LA.(SEDIMENT)	022		SW			1971	1974	M	M		2	USGS	D
08040304	BIG CREEK AT POLLOCK, LA	022	043	SW	51.00		1959		E	E		E	USGS	D
08040305	BLACK RIVER AT MOUTH	022	029	SW			1975	1975	A	A		A	USGS	D
08050001	OUACHITA RIVER AT COLUMBIA, LA.	022	021	SW		014	1973		K	K		K	USGS	D
08050001	BOEUF RIVER NR EUDORA AR	005	017	SW	640.00		1937	1973	E	E			USCE	P
08050001	DIVERSION CA BOEUF R AT MACON LK AR	005	017	SW	303.00		1970		W	B	B		USCE	
08050002	BAYOU MACON NEAR DELHI, LA.	022	083	SW	782.00	004	1952			E			USGS	D
08050003	TENSAS RIVER AT TENDAL, LOUISIANA	022	065	SW	309.00	004	1943		K	K		K	USGS	D
08060100	MISSISSIPPI RIVER AT VICKSBURG, MS.	028	149	SW	1144500.00	014	1972		M			E	USGS	D
08060100	MISSISSIPPI RIVER AT TARBERT LANDING ,MISS.	028	157	SW			1972	1975	W	W		2	USGS	D
08060100	MISS RIVER NR COOCHIE LA	022	029	SW			1962	1972	M	M	M		USCE	C
08060100	MISS RIVER AT TARBERT LDG, MISS.	028	157	SW	1128900.00		1959	1972	M	M	M		USCE	C
08060100	OLD R INFLOW CH NR KNOX LDG., LA	022	029	SW	1128700.00		1962	1970	M	M	M		USCE	C
08060100	MISSISSIPPI R AT TARBERT LANDING	022	029	SW			1964	1967		E			USEPA	D
08060100	MISSISSIPPI R VICKSBURG MISS	028	149	SW			1965	1967	E	E			USEPA	D
08060100	MISS R AT VICKSBURG-MILE 435.3	028	149	SW			1965	1967	E	E			USEPA	D

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08060202	BIG BLACK RIVER NEAR CANTON, MISS.	028	089	SW			1974	1975	R			R	USGS	D
08060202	BIG BLACK RIVER NR BOVINA, MS.	028	049	SW	2810.00		1972		M			E	USGS	D
08060202	BIG BLACK R NEAR US HWY 61	028	149	SW			1965	1966		E			USEPA	D
08060205	HOMOCHITTO RIVER AT ROSETTA, MS.	028	157	SW	750.00	004	1974		E			E	USGS	D
08070100	MISSISSIPPI RIVER AT BATON ROUGE, LA.	022	033	SW	1243500.00	004	1975		G	G		G	USGS	D
08070100	BAYOU LAFOURCHE AT DONALDSONVILLE, LA.	022	005	SW		124	1957		N	N			USGS	D
08070100	MISS RIV AT RED RIV LANDING, LA.	022	077	SW	1129000.00		1958	1974	E	E	E		USCE	C
08070100	MISS RIVER AT PLAQUEMINE LA	022	047	SW	1129830.00		1954		O				USCE	C
08070100	BY CHENE CUT BL BY CHENE MI 75	022	099	ES			1974		B	B	B		USCE	C
08070100	BY PLAQUEMINE AT PLAQUEMINE LOCK LA	022	047	SW			1955	1956	O	O	O		USCE	C
08070202	AMITE RIVER NEAR DENHAM SPRINGS, LA.	022	063	SW	1280.00	004	1943	1973	E				USGS	D
08070202	AMITE R AT 4H CAMP NR DENHAM SPRINGS	022	063	SW		004	1951		E	E		E	USGS	D
08070205	TANGIPAHOA R NR PONCHATOULA LA	022	105	SW			1965	1967	M				USCE	
08080101	ATCHAFALAYA RIVER AT SIMMESPORT, LA.	022	009	SW			1952		E	E		2	USGS	D
08080101	ATCH BASIN MAIN CHAN (MI 95.4) @ MYETTE POIN	022	101	SW			1975		E	E		E	USGS	D
08080101	ATCHAFALAYA RIV AT SIMMESPORT,LA	022	009	SW	87570.00		1951	1974	E			E	USCE	D
08080101	WAX LAKE OUTLET AT CALUMET, LA.	022	101	SW			1969	1974	O			E	USCE	D
08080101	LOWER ATCH R AT MORGAN CITY, LA.	022	101	SW			1946	1974	O			E	USCE	D
08080101	ATCH. BAY 1.5 MI SW OF SHELL IS	022	101	OC			1973	1973	B				USCE	C
08080101	ATCH. BAY 3.5 MI SW OF SHELL IS	022	101	OC			1973	1973	B				USCE	C
08080101	ATCH. BAY 3.75 MI SW OF SHELL IS	022	101	OC			1973	1973	B				USCE	C
08080101	ATCH. BAY 4.25 MI SW OF SHELL IS	022	101	OC			1973	1973	B				USCE	C
08080101	ATCH. BAY 5.5 MI SW OF SHELL IS	022	101	OC			1973	1973	B				USCE	C
08080101	ATCH. BAY 6.5 MI SW OF SHELL IS	022	101	OC			1973	1973	B				USCE	C
08080101	ATCH BAY 5.0 MI SW OF SHELL IS	022	101	ES			1970		B				USCE	C
08080101	ATCH BAY 0.75 MI E OF LIGHT 43	022	101	ES			1970		B				USCE	C
08080101	ATCH BAY 0.75 MI W OF LIGHT 43	022	101	ES			1970		B				USCE	C
08080101	ATCHAFALAYA RIVER AT SIMMESPORT	022	009	SW			1964	1967		E			USEPA	D
08080101	ATCHAFALAYA-RR BR. AT MORGAN CTY	022	101	SW			1965	1967		E			USEPA	D
08080101	GRAND LAKE NW OF MYETTE POINT	022	101	SW			1975	1975	A	A		A	USGS	D
08080101	ATCHAFALAYA RIVER BASIN BAYOU SORREL	022	047	SW			1975	1975	A	A		A	USGS	D
08080101	ATCHAFALAYA R. ABOVE MOUTH OF BAYOU SORREL	022	099	SW			1973	1975	A	A		A	USGS	D
08080101	ATCHAFALAYA RIVER BASIN BAYOU CHENE	022	099	SW			1975	1975	A	A		A	USGS	D
08080101	ATCHAFALAYA RIVER BASIN LITTLE TENSAS BAYOU	022	099	SW			1975	1975	A	A		A	USGS	D
08080101	ATCHAFALAYA RIVER BASIN BAYOU L'EMBARRAS	022	099	SW			1975	1975	A	A		A	USGS	D
08080101	ATCHAFALAYA RIVER AT INTERSTATE 10	022	099	SW			1975	1975	A	A		A	USGS	D
08080101	WHISKEY BAY PILOT CHANNEL AT INTERSTATE 10	022	099	SW			1975	1975	A	A		A	USGS	D
08080101	IWW AT WAX LK W CONTROL STR LA	022	101	CN			1972	1972	W	W	W		USCE	C
08080101	LWR ATCH RIVER AT GIWW MI 120.8	022	101	SW			1971	1973	B				USCE	C
08080101	LWR ATCH R AT N END SWEET BAY LK	022	101	SW			1971	1973	B				USCE	C

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08080101	LWR ATCH R AT AVOCA IS CUT-OFF BY	022	101	SW			1971	1973	B				USCE	C
08080101	LWR ATCH R AT SHELL IS PASS	022	101	SW			1971	1973	B				USCE	C
08080102	BAYOU TECHE AT KEYSTONE LOCK, NR ST.MARTINVI	022	099	SW			1966		E	E		E	USGS	D
08080103	IWW AT VERMILION LOCK %EAST<	022	113	SW			1949	1974	O				USCE	C
08080202	FRESHWATER CANAL AT LOCK NORTH	022	113	SW			1968	1974	E			E	USCE	D
08080202	SCHOONER BAYOU AT CNTL STR, EAST	022	113	SW			1947	1974	O				USCE	C
08080203	CALCASIEU R NR LAKE CHARLES	022	019	SW	2310.00		1969		E	E			USGS	D
08080206	CALCASIEU RIVER AB DEVILS ELBOW	022	019	SW			1972	1972	A			A	USCE	D
08080206	CALCASIEU RIVER BL DEVILS ELBOW	022	019	SW			1972	1972	A			A	USCE	D
08080206	INDUSTRIAL CANAL AT DEVILS ELBOW	022	019	SW			1972	1972	W	W	W		USCE	C
08090100	THE JUMP AT VENICE, LA.	022	075	SW			1970	1974	X			E	USCE	D
08090100	MISSISSIPPI R AT MI 2.8 AHP LA	022	075	SW			1971		B	B	B		USCE	C
08090100	MISSISSIPPI RIVER AT MILE 0.7 AHP	022	075	SW			1974		B	B	B		USCE	C
08090100	MISSISSIPPI RIVER AT MILE 0.2 AHP	022	075	SW			1974		B	B	B		USCE	C
08090100	MISSISSIPPI RIVER AT MILE 0.3 BHP	022	075	SW			1974		B	B	B		USCE	
08090100	MISSISSIPPI R AT HEAD OF PASSES	022	075	SW	1129970.00		1974	1974	B	B	B		USCE	C
08090100	SOUTHWEST PASS AT MILE 1.3 BHP	022	075	ES			1974		B	B	B		USCE	C
08090100	MISSISSIPPI RIVER AT MILE 1.2 AHP	022	075	SW			1974		B	B	B		USCE	C
08090100	SOUTH PASS AT MI 0.6 BHP LA	022	075	ES			1971		B	B	B		USCE	C
08090100	PASS A LOUTRE AT MI 1.8 BHP LA	022	075	ES			1971	1974	B	B	B		USCE	C
08090100	OUTLET OF SOUTH PASS AT MI 4.7 W	022	075	OC			1974	1974	B	B	B		USCE	C
08090100	GRAND BAYOU CANAL JCT BAYOU BLUE	022	057	SW			1961	1971	E				USCE	D
08090100	GRAND BY BLUE 2 MI AB BY COURANT	022	057	SW			1961	1971	E				USCE	D
08090100	GRAND BAYOU BLUE AT BAYOU FALEAU	022	057	SW			1961	1974	E				USCE	D
08090100	BARAT WW 2.5 MI BL JCT BY CUTLER	022	051	SW			1957	1971	E				USCE	D
08090100	CAMINADA BAY NR BAY ST HONORE	022	057	SW			1962	1974	E			E	USCE	D
08090201	LK PONT 6.5 MI SE TANGIPAHOA RIV	022	095	SW			1972	1973	A	A		A	USCE	D
08090202	L PONT 1.5 MI N OF BY LA BRANCHE	022	089	SW			1973	1973	S	S		S	USCE	D
08090202	L PONT 2.25 MI NNW BY LA BRANCHE	022	089	SW			1973	1974	E	E		E	USCE	D
08090202	LK PONTCHARTRAIN AT BY LACOMBE	022	103	SW			1973	1974	E	E		E	USCE	D
08090202	LK PONTCH AT ENTR PAS MANCHAC	022	095	SW			1972	1974	E	E		E	USCE	D
08090202	LAKE PONTCHARTRAIN AT MANDEVILLE	022	103	SW			1959	1974	E	E		E	USCE	D
08090202	LK PONT CENTER GR N.O. EXPY BR	022	051	SW			1972	1974	E	E		E	USCE	D
08090202	LK PONTCH AT TCHEFUNCTA RIVER	022	103	SW			1972	1974	E	E		E	USCE	D
08090202	LK PONTCH AT TANGIPAHOA RIVER	022	105	SW			1972	1974	E	E		E	USCE	D
08090202	L PONT 5 MI NE BONNET CARRE SPLY	022	089	SW			1972	1973	S	S		S	USCE	D
08090202	LK PONT S END OF GR N.O. EXPY BR	022	051	SW			1959	1974	E	E		E	USCE	D
08090202	L PONT 5.5 MI N MOISANT INTNL AP	022	051	SW			1972	1974	E	E		E	USCE	D
08090202	LK PONTCHARTRAIN AT HOWZE BEACH	022	103	SW			1972	1974	E	E		E	USCE	D
08090202	LK PONT AT S BASCULE HWY 11 BR	022	071	SW			1972	1974	E	E		E	USCE	D

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08090202	LK PONTCH 4 MI SE OF BY LACOMBE	022	103	SW			1972	1973	A	A		A	USCE	D
08090202	LK PONTCH AT CHEF MENTEUR PASS	022	071	SW			1968	1974	E	E		E	USCE	D
08090202	L PONT 3.5 MI NW OF LITTLE WOODS	022	071	SW			1972	1973	A	A		A	USCE	D
08090203	LK BORGNE 9.5 MI E LE PETIT ISL.	022	087	SW			1973	1974	E	E		E	USCE	D
08090203	MISS RIVER-GULF OUTLET AT IWW	022	071	SW			1963	1973	M				USCE	C
08090203	IWW AT PARIS RD BRIDGE N.O., LA.	022	071	SW			1948	1973	E			E	USCE	D
08090203	BAYOU BIENVENULE AT HIGHWAY 47	022	071	ES			1957	1963	M				USCE	C
08090203	LK PONTCHARTRAIN AT IHNC ENTR	022	071	SW			1967	1974	E	E		E	USCE	D
08090203	IHNC AT JCT WITH IWW, MI 2.0	022	071	SW			1970	1973	E			E	USCE	D
08090203	RIGOLETS, OPPOSITE SAWMILL PASS	022	071	SW			1968	1974	E	E		E	USCE	D
08090203	RIGOLETS, 2 MI E OF SAWMILL PASS	022	071	SW			1968	1974	E	E		E	USCE	D
08090203	RIGOLETS AT RABBIT IS OPP N PASS	022	071	SW			1968	1974	E	E		E	USCE	D
08090203	CHEF MENTEUR PASS 0.75 MI N IWW	022	071	SW			1968	1974	E	E		E	USCE	D
08090203	CHEF MENTEUR PASS 1 MI S OF IWW	022	071	SW			1968	1973	S	S		S	USCE	D
08090203	MR-GO AT BAYOU BIENVENUE (LA.)	022	087	SW			1963	1973	E			E	USCE	D
08090203	BAYOU BIENVENUE NR LAKE BORGNE	022	087	SW			1957	1972	M				USCE	C
08090203	MR-GO AT BAYOU VILLERE (LA.)	022	087	SW			1963	1973	E			E	USCE	D
08090203	MR-GO AT BAYOU DUPRE (LA.)	022	087	SW			1963	1974	E			E	USCE	D
08090203	BY TERRE AUX BOEUFS AT REGGIO LA	022	087	ES			1957	1963	W				USCE	C
08090203	MR-GO AT NAV LT 110, MILE 48.0	022	087	SW			1963	1973	E			E	USCE	D
08090203	MR-GO AT FLAT BAYOU (LA.)	022	087	SW			1963	1973	E			E	USCE	D
08090203	MR-GO AT BAYOU YSCLOSKEY (LA.)	022	087	SW			1961	1973	E			E	USCE	D
08090203	BAYOU YSCLOSKEY NEAR MR-GO (LA)	022	087	SW			1961	1965	O				USCE	C
08090203	MR-GO AT NAV LT 103 MI. 38.2 LA.	022	087	SW			1961	1973	E			E	USCE	D
08090203	LAKE ELOI AT BAYOU ELOI %LA.<	022	087	SW			1957	1974	B				USCE	C
08090203	BRETON SOUND NEAR DEADMAN POINT	022	087	ES			1957	1961	W				USCE	C
08090203	MR-GO AT NAV LT 102 MI. 35.4 LA.	022	087	SW			1961	1974	E			E	USCE	D
08090203	MR-GO AT NAV LT 101 MI. 32.5 LA.	022	087	SW			1961	1973	E			E	USCE	D
08090203	MR-GO AT NAV LT 99 MI. 29.8 LA.	022	087	SW			1961	1973	E			E	USCE	D
08090203	LK BORGNE 5 MI NW MALHEUREUX PT.	022	087	SW			1972	1973	A	A		A	USCE	D
08090203	MR-GO AT LK ATHANASIO MILE 25	022	087	SW			1961	1973	E			E	USCE	D
08090203	MR-GO NR GARDNER IS MILE 20.0	022	087	SW			1960	1974	E			E	USCE	D
08090203	MR-GO OPP TOWER STA 2620 MI 16.4	022	087	SW			1966	1973	E			E	USCE	D
08090203	MR-GO 500 FT. NORTH OF MI. 16.4	022	087	SW			1966	1968	E			E	USCE	D
08090203	MR-GO 500 FT. SOUTH OF MI. 16.4	022	087	SW			1966	1968	E			E	USCE	D
08090203	MR-GO 800 FT. NORTH OF MI. 16.4	022	087	SW			1969	1969	A			A	USCE	D
08090203	MR-GO 800 FT. SOUTH OF MI. 16.4	022	087	SW			1969	1969	A			A	USCE	D
08090203	MR-GO 1000 FT. NORTH OF MI. 16.4	022	087	SW			1966	1968	E			E	USCE	D
08090203	MR-GO 1000 FT. SOUTH OF MI. 16.4	022	087	SW			1966	1967	K			K	USCE	D
08090203	MGO BRETON SND AT MILE 19.8	022	087	SW			1967	1968	E			E	USCE	D

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08090203	MR-GO 500 FEET NORTH OF MI. 19.8	022	087	SW			1967	1968	E			E	USCE	D
08090203	MR-GO 500 FEET SOUTH OF MI. 19.8	022	087	SW			1967	1968	E			E	USCE	D
08090203	MR-GO 1000 FEET NORTH OF MI 19.8	022	087	SW			1967	1968	E			E	USCE	D
08090203	BRETON SOUND NE OF GARDNER IS	022	087	ES			1958	1961	M				USCE	C
08090203	BRETON SOUND SE OF FIDDLER POINT	022	087	ES			1959	1961	W				USCE	C
08090203	CHANDELEUR SOUND E OF CHICOT IS	022	087	ES			1958	1959	W				USCE	C
08090301	BAYOU LAFOURCHE AT BELLEROSE LA	022	007	SW			1963	1967	M				USGS	D
08090301	BAYOU LAFOURCHE AT LABADIEVILLE LA	022	007	SW			1963	1965	M	A			USGS	P
08090301	BAYOU LAFOURCHE AT THIBODAUX, LA.	022	057	SW		124	1963		R	R			USGS	D
08090301	BAYOU LAFOURCHE AT RACELAND LA	022	057	SW			1963	1967	M				USGS	D
08090301	INTRACOASTAL WATERWY AT HOUMA, L	022	109	SW			1946	1974	O				USCE	C
08090301	IWW JCT DIXIE DELTA CANAL %LA.<	022	057	SW			1961	1971	E				USCE	D
08090301	INTRACOASTAL WW AT MILE 22.5	022	023	SW			1961	1974	E			E	USCE	D
08090301	BAYOU LAFOURCHE AT LAROSE, LA.	022	057	SW			1949	1974	E				USCE	D
08090301	LWR BY LAFOURCHE 2.5 MI S LEEVLE	022	057	SW			1966	1970	B				USCE	C
08090301	LWR BY LAFOURCHE 8.3 MI S LEEVLE	022	057	SW			1966	1971	R			R	USCE	D
08090301	BAYOU LAFOURCHE AT LEEVILLE, LA.	022	057	SW			1955	1974	E			E	USCE	D
08090301	SW LA CANAL AT BAYOU FER BLANC	022	057	SW			1961	1971	R			R	USCE	D
08090301	BY SEGNETTE AT YANKEE CAMP POND	022	057	SW			1962	1971	A			A	USCE	D
08090301	BY SEGNETTE AT FIRST CROSS-CANAL	022	057	SW			1962	1971	A			A	USCE	D
08090301	BAYOU BARATARIA AT BARATARIA, LA	022	051	SW			1957	1974	E				USCE	D
08090301	BY BARAT AT FISHER BR %MI. 35.3<	022	051	SW			1958	1971	E				USCE	D
08090301	BAYOU BARATARIA AT BY DES OIES	022	051	SW			1961	1971	E				USCE	D
08090301	BAYOU BARATARIA AT LAFITTE, LA.	022	051	SW			1955	1974	E			E	USCE	D
08090301	BARATARIA WW AT BARAT. PASS LT.	022	051	SW			1962	1974	E			E	USCE	D
08090301	BARATARIA WW AT BY DUPONT, MI 28	022	051	SW			1957	1971	E				USCE	D
08090301	BARATARIA WW 3 MI BL BY DUPONT	022	051	SW			1958	1974	E				USCE	D
08090301	BARATARIA WW 6 MI BL BY DUPONT	022	051	SW			1961	1971	E				USCE	D
08090301	BARATARIA WW AT JCT BAYOU CUTLER	022	051	SW			1957	1971	A			R	USCE	D
08090301	BAYOU ST DENIS S END BY CUTLER	022	051	SW			1961	1971	E				USCE	D
08090301	BARATARIA WW AT LT 37 %MI 15<	022	051	SW			1962	1974	E			E	USCE	D
08090301	BARATARIA WWY AT MI 13.3 (LT 32)	022	051	SW			1962	1971	E				USCE	D
08090301	BARATARIA WATERWAY AT MI 11.9	022	051	SW			1962	1971	E				USCE	D
08090301	BARATARIA WW AT MI 10.4 %LT 25<	022	051	SW			1962	1971	E				USCE	D
08090301	BARATARIA WW AT LT 17 %MI. 7.8<	022	051	SW			1962	1974	E			E	USCE	D
08090301	BARATARIA WW AT MI 5.8	022	051	SW			1963	1971	E				USCE	D
08090301	BARATARIA WW AT MI 4.1 %LT 11<	022	051	SW			1964	1971	E				USCE	D
08090301	BARATARIA WW AT MI 3.1 %BUOY 8<	022	051	SW			1964	1971	E				USCE	D
08090301	BARATARIA WW E OF BEAUREGARD ISL	022	051	SW			1962	1966	A				USCE	D
08090301	E CHAMPAGNE BAY N PT MNDCNT IS	022	051	ES			1957	1963	B				USCE	C

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08090301	CAMINADA PS 1.1 MI NE GRND IS BR	022	051	OC			1961	1971	R			R	USCE	D
08090301	BAY LIZETTE AT SOUTHWEST LA CAN	022	057	OC			1962	1974	E			E	USCE	D
08090302	BAYOU BOEUF AT AMELIA, LA.	022	007	SW			1955	1974	E			E	USCE	D
08090302	IWW AT CUTOFF CA 3 MI W LAROSE	022	057	SW			1961	1971	E				USCE	D
08090302	IWW 1 MI SW OF LAROSE, LA.	022	057	SW			1961	1971	R			R	USCE	D
08090302	GRAND BY CA 1 MI AB GRD BY, S EN	022	057	SW			1961	1971	E				USCE	D
08090302	GRAND BY CA 0.5 MI AB JCT LIT LK	022	057	SW			1961	1971	A			R	USCE	D
08090302	GRAND BY CA 3 MI AB JCT GRAND BA	022	057	SW			1961	1971	R			R	USCE	D
08090302	GRAND BY CA 2 MI AB JCT BY BLUE	022	057	SW			1961	1974	E			E	USCE	D
08090302	GRAND BAYOU BLUE AT BAYOU SEVIN	022	057	SW			1961	1974	E			E	USCE	D
08090302	GRAND BAYOU BLUE AT BAYOU COURAN	022	057	SW			1962	1971	E				USCE	D
08090302	GRAND BY BLUE, ENTR. CATFISH LK	022	057	SW			1961	1971	A			R	USCE	D
08090302	GRAND BAYOU BLUE JCT BAYOU BLUE	022	057	SW			1961	1971	A			R	USCE	D
08090302	BAYOU BLUE AT BAYOU BOUILLON	022	057	SW			1961	1971	E				USCE	D
08090302	BY BOUILLON 4 MI AB JCT BY BLUE	022	057	SW			1961	1971	A			A	USCE	D
08090302	CA 2 MI W OF BULLY CAMP OIL FLD	022	057	SW			1961	1971	E				USCE	D
08090302	GULF OIL CA NR JCT GRAND BY CA	022	057	SW			1961	1974	E			E	USCE	D
08090302	SW LA CA 1 MI W OF LEEVILLE, LA.	022	057	SW			1961	1971	A			A	USCE	D
08090302	LOCUST BY AT POINT AUFER ISLAND	022	109	ES			1948	1973	B				USCE	C

SOURIS-RED-RAINY REGION 09

HYDROLOGIC UNIT CODE	STATION NAME AND LOCATION	STATE	COUNTY	TYPE OF SITE	DRAINAGE AREA	BASIN DESCRIPTOR	QW BEGIN YEAR	QW END YEAR	SUSP SED CONCEN	SUSP PART SIZE	BED MAT PART SIZE	SUSP DISCHARGE	ORGANIZATION CODE	SED STOR MEDIA
09010001	SOURIS RIVER NR SHERWOOD, ND	038	075	SW	8940.00		1970		O			O	USGS	D
09010001	SOURIS RIVER NR FOXHOLM, ND	038	101	SW	9470.00	014	1970		E			E	USGS	D
09010001	SOURIS RIVER NR SHERWOOD, ND	038	075	SW			1975		E	E		E	USGS	D
09010003	SOURIS RIVER NR VERENDRYE, ND	038	049	SW	11300.00	014	1946		N	A		N	USGS	D
09010003	SOURIS RIVER NR WESTHOPE, ND	038	009	SW	16900.00	014	1953		4	E		4	USGS	D
09020103	PELICAN RIVER NEAR FERGUS FALLS, MINN	027	111	SW	482.00		1966	1970	A			A	USGS	D
09020104	RED RIVER OF THE NORTH AT FARGO, ND	038	017	SW	6800.00	014	1945		E	E		E	USGS	D
09020105	WILD RICE RIVER NR ABERCROMBIE, ND	038	077	SW	2082.00	014	1965		E	E		E	USGS	D
09020106	BUFFALO RIVER NEAR DILWORTH, MN	027	027	SW	1040.00		1962		X			O	USGS	D
09020107	RED RIVER OF THE NORTH AT HALSTAD, MN	038	097	SW	21800.00		1961		K	A		K	USGS	D
09020107	MARSH RIVER NEAR SHELLY, MN	027	107	SW	151.00		1975	1975	A			A	USGS	D
09020108	WILD RICE RIVER AT TWIN VALLEY, MN	027	107	SW	888.00	004	1971		O				USGS	D
09020109	BEAVER CREEK NR FINLEY, ND	038	091	SW	160.00	004	1965		R	E		R	USGS	D
09020204	SHEYENNE RIVER AT LISBON, ND	038	073	SW	8190.00	014	1956		N				USGS	D
09020204	SHEYENNE RIVER NR KINDRED, ND	038	077	SW	8800.00		1968		E	E		W	USGS	D
09020301	SAND HILL RIVER AT CLIMAX, MN	027	119	SW	426.00		1966	1975	A			A	USGS	D
09020304	THIEF RIVER NEAR THIEF RIVER FALLS, MINN.	027	089	SW	959.00		1963	1975	A			A	USGS	D
09020308	FOREST RIVER AT MINTO, ND	038	099	SW	740.00		1971		E	E		E	USGS	D
09020309	MIDDLE RIVER AT ARGYLE, MINN.	027	089	SW	265.00		1954	1975	A			A	USGS	D
09020313	PEMBINA RIVER NR VANG, ND	038	019	SW	3070.00	004	1962		N	A		N	USGS	D
09020313	LITTLE SOUTH PEMBINA RIVER NR WALHALLA, ND	038	019	SW	182.00		1961		R	A		R	USGS	D
09020313	PEMBINA RIVER AT WALHALLA, ND	038	067	SW	3350.00	004	1962		O	E		O	USGS	D
09020314	ROSEAU RIVER BELOW STATE DITCH 51 NR CARIBOU	027	069	SW	1570.00	004	1972		E	E		E	USGS	D
090230 I	RED RIVER OF THE NORTH BELOW FARGO, ND	038	017	SW	6820.00	014	1969		E	E		E	USGS	D
090230 W	RED RIVER OF THE NORTH AT OSLO, MN	038	099	SW	31200.00	004	1973		E	E		E	USGS	D
09030001	KAWISHIWI RIVER NEAR ELY, MN	027	075	SW	253.00	004	1965		A				USGS	D
09030001	STONY RIVER NEAR BABBITT, MINNESOTA	027	075	SW		004	1974		P	P			USGS	D
09030001	DUNKA RIVER NR BABBITT, MN	027	137	SW	53.00	024	1955		P	P			USGS	D
09030001	BEAR ISLAND RIVER NEAR ELY, MN	027	137	SW	68.50	004	1955		P	P			USGS	D
09030001	STONEY R. T6ON,R10W 18 M SE ELY	027	075	SW			1966		N				USFS	D
09030001	INDIAN SIOUX R.25MI.NW.ELY MINN	027	137	SW			1975		K				USFS	D
09030001	SILVER ISLAND 15MI.NE ISABELLA	027	075	SW			1975		K				USFS	D
09030005	LITTLE FORK RIVER AT LITTLEFORK, MINNESOTA	027	071	SW	1730.00	004	1968		X	P		O	USGS	D
09030005	GALE BROOK	027	061	SW			1975		E				USFS	D
09030005	GALE BROOK 3 MI. SE BIGFORK,MN.	027	061	SW			1975		E				USFS	D
09030005	GALE BROOK 3 MI. SE BIGFORK,MN.	027	061	SW			1975		E				USFS	D
09030005	LITTLE FORK RIVER AT LITTLEFORK, MINNESOTA	027	071	SW			1975		E	E		E	USGS	D
09030005	DARK RIVER NEAR CHISHOLM,MINN	027	137	SW			1975		R				USFS	D
09030006	BIG FORK RIVER AT BIG FALLS, MN	027	071	SW	1460.00	004	1971		E			E	USGS	D
09030006	BIG FORK RIVER EAST OF LOMAN	027	071	SW			1971	1976	M				MNO12	D

HYDROLOGIC UNIT CODE	STATION NAME AND LOCATION	STATE	COUNTY	TYPE OF SITE	DRAINAGE AREA	BASIN DESCRIPTOR	QW BEGIN YEAR	QW END YEAR	SUSP SED CONCEN	SUSP PART SIZE	BED MAT PART SI.	SUSP DISCHARGE	ORGANIZATION CODE	SED STOR MEDIA
09030006	ISLAND LAKE OUTLET,ROAD 33	027	061	SW			1970		R				USFS	D
09030006	TURTLE RIVER 3 MI. S TALMOON,MN.	027	061	SW			1975		K				USFS	D
09030006	TURTLE RIVER 3 MI. S TALMOON,MN.	027	061	SW			1975		K				USFS	D
09030006	TURTLE RIVER 3 MI. S TALMOON,MN.	027	061	SW			1975		K				USFS	D
09030006	TURTLE RIVER 3 MI. S TALMOON,MN.	027	061	SW			1975		K				USFS	D
09030006	TURTLE RIVER 3MI. S TALMOON,MN.	027	061	SW			1975		K				USFS	D

MISSOURI BASIN REGION 10

HYDROLOGIC UNIT CODE	STATION NAME AND LOCATION	STATE	COUNTY	TYPE OF SITE	DRAINAGE AREA	BASIN DESCRIPTOR	QW BEGIN YEAR	QW END YEAR	SUSP SED CONCEN	SUSP PART SIZE	BED MAT PART SIZE	SUSP DISCHARGE	ORGANIZATION CODE	SED STOR MEDIA
10 35 Q	GINGLES WATERSHEDS	019	133	SW			1963	1975	Y				IA007	
10 43 H	LECLAIR CANAL NR RIVERTON	056	013	SW			1976		N	R		N	USGS	D
100031 K	KANSAS CITY MO BLUE R	029	095	SW			1966		O	B	B		USCE	
100036 M	MISSOURI RIVER AT SIOUX CITY, IOWA	019	193	SW	314600.00		1970		O	E		O	USGS	D
100036 P	MISSOURI R AT SIDUX CITY IA	019	193	SW			1954	1972	E	E			USCE	D
100040 Q	EAST POPLAR RIVER AT INTERNATIONAL BOUNDARY	087		SW	534.00		1964		Q	E		Q	USGS	D
100042 G	CLEAR CREEK AT UCROSS WY	056	019	SW			1976		E			E	USGS	D
100042 H	SALT CREEK NEAR SUSSEX, WYO.	056	019	SW			1977		E			E	USGS	D
100043 K	GREYBULL R.BELOW JACK CK	056	029	SW			1972		A			A	USFS	D
100043 O	LITTLE BIGHORN R AT USGS 2890	056	003	SW			1970		K			K	USFS	D
10010002	SWIFTCURRENT CREEK AT MANY GLACIER MT.	030	035	SW	30.90		1963	1970	E			E	USGS	D
10020001	BIG SHEEP CREEK BELOW MUDDY CREEK, NR DELL,	030	001	SW	280.00	004	1977			O			USGS	
10020001	MUDDY CREEK #1	030	001	SW			1976		M				USBLM	P
10020001	MUDDY CREEK #2	030	001	SW			1976		M				USBLM	P
10020001	SHEEP CREEK #1	030	001	SW			1976		M				USBLM	P
10020001	SHEEP CREEK #2	030	001	SW			1976		M				USBLM	P
10020001	CLARK CANYON #2	030	001	SW			1976		M				USBLM	P
10020001	SHENON #1	030	001	SW			1976		M				USBLM	P
10020001	SHENON #2	030	001	SW			1976		M				USBLM	P
10020001	BLACK CANYON #1	030	001	SW			1976		M				USBLM	P
10020001	NIP AND TUCK #1	030	001	SW			1976		M				USBLM	P
10020001	MIP AND TUCK #2	030	001	SW			1976		M				USBLM	P
10020001	DIVIDE CREEK #1	030	001	SW			1976		M				USBLM	P
10020001	WATSON CREEK #1	030	001	SW			1976		M				USBLM	P
10020001	WATSON CREEK #2	030	001	SW			1976		M				USBLM	P
10020001	CLARK CANYON #3	030	001	SW			1976		M				USBLM	P
10020001	N FORK EVERSON #1	030	001	SW			1976		M				USBLM	P
10020001	N FORK EVERSON #2	030	001	SW			1976		M				USBLM	P
10020001	SO FORK EVERSON #1	030	001	SW			1976		M				USBLM	P
10020001	JEFF DAVIS CREEK #1	030	001	SW			1976		M				USBLM	P
10020001	JEFF DAVIS CR #2	030	001	SW			1976		M				USBLM	P
10020001	LITTLE SAGE CREEK	030	001	SW			1976		M				USBLM	P
10020001	BASIN CREEK #1	030	001	SW			1976		M				USBLM	P
10020001	BASIN CREEK NO 2	030	001	SW			1976		M				USBLM	P
10020001	LITTLE BASIN	030	001	SW			1976		M				USBLM	P
10020002	BEAVERHEAD RIVER NEAR GRANT, MT.	030	001	SW	2322.00	014	1963	1975	E				USGS	D
10020002	BEAVERHEAD RIVER AT BARRETTS, MT.	030	001	SW	2737.00	124	1949		E				USGS	D
10020002	BEAVERHEAD RIVER NEAR TWIN BRIDGES, MT.	030	057	SW	3619.00	124	1949		2			2	USGS	D
10020002	CLARK CANYON #1	030	001	SW			1976		M				USBLM	P
10020002	DYCE CREEK #1	030	001	SW			1976		M				USBLM	P

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10020002	DYCE CREEK #2	030	001	SW			1976		M				USBLM	P
10020002	DYCE CREEK #3	030	001	SW			1976		M				USBLM	P
10020002	TAYLOR CREEK #1	030	001	SW			1976		M				USBLM	P
10020002	TAYLOR CREEK #2	030	001	SW			1976		M				USBLM	P
10020002	TAYLOR CREEK #3	030	001	SW			1976		M				USBLM	P
10020002	E FORK BLACKTAIL #1	030	001	SW			1976		M				USBLM	P
10020002	E FORK BLACKTAIL #2	030	001	SW			1976		M				USBLM	P
10020002	E FORK BLACKTAIL #3	030	001	SW			1976		M				USBLM	P
10020003	RUBY RIVER NEAR TWIN BRIDGES, MT.	030	057	SW	935.00	124	1965	1965	A				USGS	D
10020004	BIG HOLE RIVER NEAR MELROSE, MT.	030	057	SW	2476.00	024	1956		2		0	2	USGS	D
10020004	WILLOW CREEK NEAR GLEN, MT.	030	001	SW	35.60	124	1962	1965	M				USGS	D
10020004	BIRCH CREEK NEAR GLEN, MT.	030	001	SW	36.00	024	1958	1962	M				USGS	D
10020004	MOOSE CREEK #1	030	093	SW			1976		M				USBLM	P
10020004	MCLEAN CR #1	030	093	SW			1976		M				USBLM	P
10020004	CAMP CREEK #1	030	093	SW			1976		M				USBLM	P
10020004	CAMP CREEK #2	030	093	SW			1976		M				USBLM	P
10020005	JEFFERSON RIVER NEAR TWIN BRIDGES, MT.	030	057	SW	7632.00	124	1960	1972	2	A		2	USGS	D
10020005	JEFFERSON RIVER AT SILVER STAR, MT.	030	057	SW	7683.00		1971	1974	2	S		2	USGS	D
10020006	BOULDER R NR CARDWELL MT	030	043	SW			1977		B				USSCS	
10020006	LITTLE BOULDER R NR BOULDER MT	030	043	SW			1974		B				USSCS	
10020006	BOULDER R NR BOULDER MT	030	043	SW			1974		B				USSCS	
10020007	FIREHOLE R AB DIV DAM NR OLD FAITHFUL YNP	056	039	SW		004	1967	1970	K			K	USGS	D
10020007	MADISON RIVER AT KIRBY RANCH NEAR CAMERON, M	030	057	SW	1065.00	014	1958	1975	2			2	USGS	D
10020008	GALLATIN RIVER NEAR GALLATIN GATEWAY, MT.	030	031	SW	825.00	004	1956	1957	E		E		USGS	D
10020008	SAGE CREEK	030	031	SW			1973				A		USFS	
10030101	TENMILE C AT RIMINI MONT	030	049	SW			1967	1969	M				USFS	
10030101	MISSOURI RIVER AT TOSTON, MT.	030	007	SW	14669.00	124	1949		E	E		E	USGS	D
10030101	SIEBEN RCH DITCH BL CLARK C, NR	030	049	SW		004	1963	1967	M			M	USGS	D
10030101	L PRICKLY PEAR C AT SIEBEN R NR WOLF CREEK,	030	049	SW	270.00	024	1962	1966	2	A		2	USGS	D
10030101	L PRICKLY P C AB MED ROCK C, NR	030	049	SW		004	1963	1967	M			M	USGS	D
10030101	MEDICINE ROCK CREEK NEAR WOLF CR	030	049	SW			1963	1967	A			A	USGS	D
10030101	LYONS CREEK NEAR WOLF CREEK, MT.	030	049	SW	29.40	004	1963	1967	M			M	USGS	D
10030101	L PRICKLY P C BL LYONS C, NR WOL	030	049	SW			1964	1967	M			M	USGS	D
10030101	WOLF CREEK AT WOLF CREEK, MT.	030	049	SW		004	1962	1967	M			M	USGS	D
10030101	LITTLE PRICKLY PEAR CREEK AT WOLF CREEK, MT.	030	049	SW	381.00	024	1962	1967	2	A		2	USGS	D
10030102	MISSOURI RIVER AT FORT BENTON, MT.	030	015	SW	24749.00	124	1965	1973	E			E	USGS	D
10030103	NEWLAND C NR WHITE SULPHUR SPRINGS	030	059	SW			1972		B				USSCS	
10030103	SHEEP CR NR WHITE SULPHUR SPR MT	030	059	SW			1973		B				USSCS	
10030104	MUDDY CREEK NEAR VAUGHN, MT.	030	013	SW			1968		0			0	USGS	D
10030104	MUDDY CREEK AT VAUGHN, MT.	030	013	SW	314.00	004	1966		0	E		0	USGS	D

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10030203	MARIAS RIVER NEAR SHELBY, MT.	030	101	SW	3242.00	124	1947	1953	E				USGS	D
10030203	MARIAS RIVER NEAR LOMA, MT.	030	015	SW	6995.00	014	1965	1965	A				USGS	D
10030205	SHEEP CREEK NEAR WOLF CREEK, MT.	030	049	SW			1964	1967	A			A	USGS	D
10030205	TETON RIVER NEAR DUTTON, MT.	030	099	SW	1307.00	124	1954	1957	E		E		USGS	D
10040101	MISSOURI RIVER AT VIRGELLE, MT.	030	015	SW	34379.00		1973		E	E		E	USGS	D
10040101	MISSOURI R AT VIRGELLE MONT	030	015	SW			1962	1969	M	M			USCE	
10040103	E F BIG SPRINGS C BL RE	030	027	SW			1975		B				USSCS	
10040103	E F BIG SPRINGS C AB BIG SPRINGS C	030	027	SW			1975		B				USSCS	
10040104	MISSOURI RIVER NEAR LANDUSKY, MT.	030	027	SW	40987.00	124	1970		O	E		O	USGS	D
10040104	TIMBER CREEK NEAR VAN NORMAN, MT.	030	055	SW	287.00	003	1976		A			A	USGS	D
10040104	NELSON CREEK NEAR VAN NORMAN, MT.	030	055	SW	100.00		1975		K			K	USGS	D
10040104	MISSOURI RIVER @ FT PECK	030	105	SW			1968		W				USCE	D
10040104	MISSOURI R NEAR ZORTMAN	030	027	SW			1968		Q	Q			USCE	D
10040105	BIG DRY CREEK AT JORDAN, MT.	030	033	SW	521.00		1976		A			A	USGS	D
10040105	LITTLE DRY CREEK NEAR VAN NORMAN, MT.	030	033	SW	1224.00	004	1975		R			R	USGS	D
10040203	FLATWILLOW CREEK NEAR MOSBY, MT.	030	069	SW	1855.00	124	1964	1966	2	S		2	USGS	D
10040203	YELLOWSTONE RIVER AT HUNTLEY, MT.	030	111	SW	12840.00	024	1972		E	E		E	USGS	D
10040205	MUSSELSHELL RIVER NEAR MOSBY, MT.	030	069	SW	5941.00	014	1961	1966	2	R		2	USGS	D
10040205	MUSSELSHELL RIVER AT MOSBY, MT.	030	069	SW	7846.00		1973		E	E		E	USGS	D
10050004	BEAVER C AB RE NR HAVRE MT	030	041	SW			1974		B				USSCS	
10050004	BEAVER C BL RE NR HAVRE MT	030	041	SW			1974		B				USSCS	
10050012	WILLOW CREEK NEAR GLASGOW, MT.	030	105	SW	538.00	014	1953	1964	E	E			USGS	D
10050012	MILK RIVER AT NASHUA, MT.	030	105	SW	22332.00	124	1960		H	Q		H	USGS	D
10050012	MILK R AT NASHUA MONT	030	105	SW			1948	1969	M	M			USCE	P
10060001	MISSOURI RIVER BELOW FORT PECK DAM, MT.	030	055	SW	57556.00		1973		N	R		N	USGS	D
10060001	PRAIRIE ELK CREEK NEAR OSWEGO MT	030	055	SW	352.00		1975		E			E	USGS	D
10060001	SAND CREEK NEAR WOLF POINT, MT.	030	055	SW	201.13	004	1975		R			R	USGS	D
10060001	MISSOURI R NR WOLF POINT MONT	030	055	SW			1948	1970	M	M			USCE	D
10060002	REDWATER RIVER NEAR VIDA, MT.	030	055	SW	1974.00		1975		E			E	USGS	D
10060003	POPLAR RIVER AT INTERNATIONAL BOUNDARY	030	019	SW	362.00	004	1964		N	N		N	USGS	D
10060003	EAST FORK POPLAR RIVER NEAR SCOBEY, MT.	030	019	SW	722.00	014	1974		N	N		N	USGS	D
10060005	MISSOURI RIVER NEAR CULBERTSON, MT.	030	083	SW	91557.00	004	1964		O	N		O	USGS	D
10060005	MISSOURI R NR CULBERTSON MT	030	083	SW			1949	1973	E	E			USCE	P
10070001	GARDNER R AB DIV DAM NR MAMMOTH YNP	056	029	SW		004	1968	1970	K			K	USGS	D
10070001	GLEN CR AT MAMMOTH DIV NR MAMMOTH YNP	056	029	SW		004	1968	1970	K			K	USGS	D
10070001	LAVA CR AB LUPINE CR NR MAMMOTH YNP	056	029	SW		004	1967	1970	K			K	USGS	D
10070002	YELLOWSTONE RIVER AT CORWIN SPRINGS, MT.	030	067	SW	2623.00	014	1965		E			E	USGS	D
10070002	YELLOWSTONE RIVER NEAR LIVINGSTON, MT.	030	067	SW	3551.00	024	1967		E			E	USGS	D
10070002	BOULDER RIVER NEAR CONTACT, MT.	030	097	SW	226.00	004	1970	1973	2	E		2	USGS	D
10070002	BOULDER RIVER AT BIG TIMBER, MT.	030	097	SW	523.00	024	1965	1965	E				USGS	D

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10070003	SHIELDS RIVER AT CLYDE PARK, MT.	030	067	SW	543.00	024	1965	1965	E				USGS	D
10070004	YELLOWSTONE RIVER AT LAUREL, MT.	030	111	SW		004	1974		R	R		R	USGS	D
10070004	YELLOWSTONE RIVER AT BILLINGS MT	030	111	SW	11795.00	024	1949		H	K		H	USGS	D
10070005	STILLWATER RIVER ABOVE WEST FORK AT NYE, MT.	030	095	SW		004	1970	1973	M			M	USGS	D
10070005	CASTLE CREEK NEAR NYE, MT	030	095	SW		004	1972	1973	R			R	USGS	D
10070005	WEST FORK STILLWATER RIVER NEAR NYE, MT.	030	095	SW		004	1970	1973	M			M	USGS	D
10070005	STILLWATER RIVER AT NYE, MT.	030	095	SW	337.00	024	1969	1970	E				USGS	D
10070005	STILLWATER RIVER AT BEEHIVE, MT.	030	095	SW	371.00	004	1969	1973	2	A		2	USGS	D
10070005	STILLWATER RIVER NEAR ABSAROKEE, MT.	030	095	SW	975.00	124	1965	1965	E				USGS	D
10070006	SUNLIGHT CR NR CLARK WYO	056	029	SW			1972	1972	R	A		R	USGS	D
10070006	PAT OHARA CR NR CLARK WYO	056	029	SW			1972	1972	R			R	USGS	D
10070006	CLARKS FORK YELLOWSTONE RIVER NEAR BELFRY, M	030	009	SW	1154.00	024	1964		E	E		E	USGS	D
10070006	BIG SAND CL AB ST DITCH NR BADGER BASIN, WY	056	029	SW	98.30	004	1972		2	E		2	USGS	D
10070006	BIG SAND CL AT WY-MONT STATE LINE	030	009	SW	134.00	014	1972		2	E		2	USGS	D
10070006	SILVER TIP CREEK NEAR BELFRY, MT.	030	009	SW	87.60		1967	1975	2	R		2	USGS	D
10070006	NORTH FORK BLUEWATER CREEK BRIDGER, MT.	030	009	SW	8.10	004	1960	1968	W			W	USGS	D
10070006	BLUEWATER CREEK NEAR BRIDGER, MT.	030	009	SW	28.10	004	1959	1965	2	O		2	USGS	D
10070006	BLUEWATER C AT SANFORD RANCH NR BRIDGER, MT.	030	009	SW	43.90	004	1960	1970	2	R		2	USGS	D
10070006	BLUEWATER CREEK NEAR FROMBERG, MT.	030	009	SW	46.60	004	1960	1968	2	A		2	USGS	D
10070006	BLUEWATER CREEK AT FROMBERG, MT.	030	009	SW	53.20	004	1960	1970	2	A		2	USGS	D
10070006	CLARKS FORK YELLOWSTONE RIVER AT EDGAR, MT.	030	009	SW	2032.00	024	1964	1973	2	R		2	USGS	D
10070006	DEAD INDIAN CK BELOW CAMPGROUND	056	029	SW			1971		A			A	USFS	D
10070006	SUNLIGHT CK @ PICNIC GROUND	056	029	SW			1938		S			S	USFS	D
10070006	CLARKS FORK R.@ EAST FOREST BDY	056	029	SW			1971		R			R	USFS	D
10070007	LITTLE BIGHORN RIVER NEAR HARDIN, MT.	030	003	SW	1294.00	124	1968		O	E		O	USGS	D
10080001	WIND RIVER NEAR DUBOIS, WYO.	056	013	SW	232.00	004	1947		E			E	USGS	D
10080001	WIND RIVER AT DUBOIS WYO	056	013	SW	486.00	014	1947	1948	O				USGS	P
10080001	EAST FORK WIND RIVER NR DUBOIS WYO	056	013	SW	427.00	014	1950		M	Q	A		USGS	P
10080001	DINWOODY CREEK ABOVE LAKES, NEAR BURRIS, WYO	056	013	SW	88.20	004	1970	1970	A			A	USGS	D
10080001	WIND RIVER NEAR CROWHEART, WYO.	056	013	SW	1891.00	014	1971		Q	A		Q	USGS	D
10080001	WYOMING CANAL NEAR LENORE, WYO.	056	013	SW		024	1974		N	A		N	USGS	D
10080001	WIND R AT RIVERTON WYO	056	013	SW	2309.00	014	1947		4	E		4	USGS	D
10080001	TORREY CK NR FOREST BOUNDARY	056	013	SW			1973		R			A	USFS	D
10080001	WARM SPRINGS CK @ UNION PASS RD	056	013	SW			1973		R			R	USFS	D
10080001	DUNOIR CK BELOW FORKS @ BRIDGE	056	013	SW			1973	1974	R			R	USFS	D
10080001	WEST FK LONG CK @ LONG CK ROAD	056	013	SW			1974	1974	R			R	USFS	D
10080001	BROOKS LAKE CREEK @ HIWAY 26-287	056	013	SW			1973		R			R	USFS	D
10080001	BROOKS LAKE NR OUTLET	056	013	SW			1974	1975	Y				USFS	C
10080001	HORSE CK @ BRIDGE BEL CAMPGROUND	056	013	SW			1973		R			R	USFS	D
10080001	WIGGINS FORK NR DOUBLE CABIN CG	056	013	SW			1973	1975	R			R	USFS	D

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10080002	BEAVER CREEK NR ARAPAHOE WYO	056	013	SW	354.00	004	1949		3	Q		2	USGS	D
10080002	LITTLE WIND R NR RIVERTON WYO	056	013	SW	1904.00	014	1949		E	E		E	USGS	D
10080003	MID.POPO AGIE R.@ SINKS CG FTBRG	056	013	SW			1969	1975	R			R	USFS	D
10080003	ROARING FORK CK AB.WORTHEN RESVR	056	013	SW			1972		A			A	USFS	D
10080003	LIT.POPO AGIE R. BELOW CANYON	056	013	SW			1973		R			R	USFS	D
10080003	LIT.POPO AGIE R.@ LOOP ROAD BRDG	056	013	SW			1969		A			A	USFS	D
10080003	LOUIS CK @ LOOP ROAD BRIDGE	056	013	SW			1972	1974	A			A	USFS	D
10080004	MUSKRAT CREEK NEAR SHOSHONI, WYO.	056	013	SW	733.00	014	1961	1973	R	R		R	USGS	D
10080005	WYOMING CANAL BELOW PILOT DIVERSION NR MORTO	056	013	SW		024	1975		K	A		K	USGS	D
10080005	FIVEMILE C AB WYO CA NR PAV WYO	056	013	SW	118.00	014	1948	1975	2	A		2	USGS	D
10080005	FIVEMILE CREEK NR PAVILLION WYO	056	013	SW	118.00	014	1949	1949	M				USGS	P
10080005	POWERLINE WASTEWAY NR PAVILLION WYO	056	013	SW		024	1949	1975	2	A		2	USGS	D
10080005	PAVILLION DRAIN NR PAVILLION WYO	056	013	SW		004	1947	1975	2	A		2	USGS	D
10080005	OCEAN DRAIN AT OCEAN LAKE OUTLET NR PAVILLIO	056	013	SW		004	1947	1975	3			2	USGS	D
10080005	OCEAN DRAIN NR PAVILLION WYO	056	013	SW		004	1947	1975	2	A		2	USGS	D
10080005	DUDLEY WASTEWAY NR PAVILLION WYO	056	013	SW		004	1949	1975	2			2	USGS	D
10080005	KELLETT DRAIN NR PAVILLION WYO	056	013	SW		004	1947	1975	2	A		2	USGS	D
10080005	DEWEY DRAIN NR PAVILLION WYO	056	013	SW		004	1947	1975	2			2	USGS	D
10080005	FIVEMILE 76 DRAIN NR RIVERTON WYO	056	013	SW		004	1949	1950	O				USGS	P
10080005	SAND GULCH DRAIN AND WASTEWAY NR RIVERTON WY	056	013	SW		004	1949	1975	2			2	USGS	D
10080005	FIVE MILE CREEK NEAR RIVERTON, WYO.	056	013	SW	356.00	124	1948	1965	2	Q		2	USGS	D
10080005	LOST WELLS BUTTE DRAIN NR RIVERTON WYO	056	013	SW		004	1949	1975	2			2	USGS	D
10080005	COLEMAN DRAIN NR SHOSHONI WYO	056	013	SW		004	1947	1975	2	A		2	USGS	D
10080005	SAND GULCH NR SHOSHONI WYO	056	013	SW	18.60	124	1947	1975	2	Q		2	USGS	D
10080005	EAGLE DRAIN NR SHOSHONI WYO	056	013	SW		004	1947	1975	2	A		2	USGS	D
10080005	LATERAL P-34.9 WASTEWAY NR SHOSHONI WYO	056	013	SW		004	1949	1975	2			2	USGS	D
10080005	FIVEMILE CREEK NEAR SHOSHONI, WYO.	056	013	SW	418.00	014	1947		2	E		2	USGS	D
10080005	LATERAL P-36.8 WASTEWAY NR SHOSHONI WYO	056	013	SW		004	1949	1950	O				USGS	P
10080005	DEAD MAN GULCH NR MONETA WYO	056	013	SW	4.46	004	1966	1966	A	A		A	USGS	D
10080005	POISON CREEK NR SHOSHONI WYO	056	013	SW	500.00	004	1949	1975	3	A			USGS	D
10080005	MUDDY CREEK NEAR PAVILLION, WYO.	056	013	SW	267.00	014	1949	1972	2	R		2	USGS	D
10080005	MUDDY CREEK NEAR SHOSHONI, WYO.	056	013	SW	332.00		1949	1978	2	N		2	USGS	D
10080005	COTTONWOOD CREEK NR BONNEVILLE WYO	056	013	SW	165.00	124	1976	1976	O	Q			USGS	P
10080006	BADWATER CREEK NEAR LYSITE, WYO.	056	013	SW	415.00	004	1964	1973	2	K		2	USGS	D
10080006	BRIDGER CREEK NEAR LYSITE, WYO.	056	013	SW	182.00	004	1964	1973	2	R		2	USGS	D
10080006	DOLUS CR NR LYSITE WYO	056	013	SW			1966	1966	A	A		A	USGS	D
10080006	DRY CREEK NEAR BONNEVILLE, WYO.	056	013	SW	52.60	004	1967		A	E		A	USGS	D
10080006	HOODOO CR NR BONNEVILLE WYO	056	013	SW			1966	1966	A			A	USGS	D
10080006	BADWATER CREEK AT BONNEVILLE, WYO.	056	013	SW	808.00	004	1946	1973	2	K		2	USGS	D
10080007	BIGHORN RIVER AT THERMOPOLIS, WYO.	056	017	SW	8020.00	124	1946	1972	2	Q			USGS	D

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10080007	S F OWL C NR ANCHOR WYO	056	017	SW	87.00	004	1974		E			E	USGS	D
10080007	OWL CREEK NEAR LUCERNE, WYO.	056	017	SW	509.00	014	1947	1947	M				USGS	P
10080007	COTTONWOOD CREEK AT WINCHESTER WYO	056	043	SW	416.00	014	1965		A	E		A	USGS	D
10080007	GOOSEBERRY CREEK AT NEIBER, WYO.	056	043	SW	361.00	014	1965	1966	S	A		S	USGS	D
10080007	NOWATER C 4 MI SO OF WORLAND, WYO	056	043	SW		004	1966	1966	A	A		A	USGS	D
10080007	FIFTEEN MILE CREEK NEAR WORLAND, WYO.	056	043	SW	518.00		1951	1972	2	K		2	USGS	D
10080007	BIGHORN R AT WORLAND WYO	056	043	SW	10810.00		1965	1975	2	Q		2	USGS	D
10080007	SLICK C 3.5 MILES NE OF WORLAND WY	056	043	SW		004	1950	1951	M				USGS	P
10080007	BIGHORN R NR MANDERSON WYO	056	003	SW	11020.00	014	1948	1971	2	Q	A		USGS	D
10080007	BIGHORN R AT MANDERSON WYO	056	003	SW	11048.00	014	1946	1975	2	Q		2	USGS	D
10080007	ELK CR NR BASIN WYO	056	003	SW	96.90	024	1967	1967	A			A	USGS	D
10080007	ANTELOPE C 2 MILES S OF BASIN WY	056	043	SW		004	1950	1951	Q				USGS	P
10080007	BIGHORN R AT WORLAND WYO	056	043	SW			1974		E	E		E	USGS	D
10080008	SPRING CR NR TEN SLEEP WYO	056	043	SW	57.90		1967	1967	A			A	USGS	D
10080008	NOWOOD CREEK NEAR TENSLEEP, WYO.	056	043	SW	803.00	004	1967		M	A		M	USGS	D
10080008	CANYON CREEK BELOW COOKS CANYON, NEAR TENSLE	056	043	SW	72.00	004	1969	1971	H	A		H	USGS	D
10080008	NOWOOD RIVER TRIB NO 2 NR MANDERSON WYO	056	003	SW	1.59	004	1967	1967	A			A	USGS	D
10080008	NOWOOD R AT MANDERSON, WYO	056	003	SW	2000.00	014	1965		E			E	USGS	D
10080008	TENSLEEP CK AT FOREST BOUNDARY	056	043	SW			1968		K			K	USFS	D
10080008	LAKE CK AT HIWAY 16 AB MEADOWLAR	056	003	SW			1970	1975	A			A	USFS	D
10080008	PAINTROCK CK AB HYATT RANCH	056	003	SW			1972		K			K	USFS	D
10080008	MEDICINE LODGE CK AT USGS 2730	056	003	SW			1972		K			K	USFS	D
10080009	WOOD RIVER NEAR KIRWIN, WYO.	056	039	SW	7.66	004	1970	1975	A			A	USGS	D
10080009	WOOD R AT KIRWIN WYO	056	029	SW	11.40	004	1975	1975	A			A	USGS	D
10080009	WOOD RIVER AT SUNSHINE, WYO.	056	029	SW	194.00	014	1975	1975	N			N	USGS	D
10080009	GREYBULL RIVER AT MEETEETSE, WYO.	056	029	SW	681.00	014	1954	1975	2	A		2	USGS	D
10080009	GREYBULL RIVER NEAR BASIN, WYO.	056	003	SW	1115.00	014	1951		E			E	USGS	D
10080009	WOOD R.NEAR GUARD STA.AB BROWN C	056	029	SW			1972		A			A	USFS	D
10080009	TH WOOD R AT BROWN MTN CG	056	029	SW			1975		E			E	USFS	D
10080009	M F WOOD R NR KIRWIN WY	056	029	SW			1975	1975	A	A		A	USGS	D
10080009	DEER C NR KIRWIN WY	056	029	SW			1975	1975	A			A	USGS	D
10080009	DICK C NR KIRWIN WY	056	029	SW			1975	1975	A			A	USGS	D
10080009	SUNSHINE RES TRIB NR MEETEETSE WY	056	029	SW			1975	1975	A			A	USGS	D
10080010	DRY CREEK AT GREYBULL WYO	056	003	SW	433.00	124	1950	1965	5	Q		5	USGS	D
10080010	SHELL CREEK NEAR SHELL WYO	056	003	SW	145.00	014	1967	1967	A			A	USGS	D
10080010	SHELL C NR GREYBULL, WYO	056	003	SW	560.00	014	1951		E			E	USGS	D
10080010	BIGHORN R AT KANE WYO	056	003	SW	15765.00	014	1946		2	R		2	USGS	D
10080010	BIG COULEE NEAR LOVELL, WYO.	056	003	SW	28.80	004	1970	1978	A	A		A	USGS	D
10080010	SHELL CK AT USGS 2785 NR SHELL	056	003	SW			1971		K			K	USFS	D
10080010	PORCUPINE CK AT STATE NR MCDONNEL	056	003	SW			1971	1975	A			R	USFS	D

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10080012	NORTH FORK SHOSHONE R AB PAHASKA	056	029	SW			1970		R			R	USFS	D
10080012	CLEARWATER CK @ HIWAY 14-16-20	056	029	SW			1972	1975	A			A	USFS	D
10080012	MOSS CK BELOW HOMES NR HIWAY	056	029	SW			1972	1974	A			A	USFS	D
10080012	ELK FORK CK @ ELK FK CG	056	029	SW			1970		A			A	USFS	D
10080012	NORTH FK SHOSHONE R @ FOREST BDY	056	029	SW			1970		R			R	USFS	D
10080012	CLOCKTOWER CK @ HIWAY 14-16-20	056	029	SW			1972	1975	A			A	USFS	D
10080013	SOUTH FK SHOSHONE R NR VALLEY	056	029	SW			1972		A			A	USFS	D
10080014	SHOSHONE R BEL WILLWOOD DAM NR RALSTON WYO	056	029	SW		014	1972	1972	A	A		A	USGS	D
10080014	ALKALI C NR RALSTON WY	056	017	SW		004	1949	1953	Q				USGS	
10080014	SHOSHONE RIVER NEAR LOVELL WYO	056	003	SW	2350.00	124	1965		M				USGS	D
10080014	SAGE CREEK NR LOVELL WYO	056	003	SW	381.00	124	1950	1971	2	Q		2	USGS	D
10080014	SHOSHONE R AT KANE WY	056	003	SW	2989.00	124	1958		2	Q		2	USGS	D
10080014	SHOSHONE RIVER NEAR LOVELL WYO	056	003	SW			1974		H	A		H	USGS	D
10080014	BITTER C AT SHIPROCK NR POINT OF ROCKS, WY	056	037	SW			1976	1976	A	A		A	USGS	D
10080015	BEAUVAIS CREEK NEAR ST. XAVIER, MT.	030	003	SW	100.00	004	1967		E	E		E	USGS	D
10080015	BIGHORN RIVER AT BIGHORN, MT.	030	103	SW	22885.00		1945		2	E		2	USGS	D
10080016	LITTLE BIGHORN R BL PASS CREEK, NR WYOLA, MT	030	003	SW	428.00	024	1968		2	E		2	USGS	D
10090101	WOLF CREEK AT WOLF,WYO.	056	033	SW	37.80	004	1946	1975	2			2	USGS	D
10090101	SLATER CREEK NEAR MONARCH, WYO	056	033	SW	18.00		1967	1967	A			A	USGS	D
10090101	GOOSE CREEK BELOW SHERIDAN WYO	056	033	SW	392.00	124	1959		M	A		M	USGS	D
10090101	SQUIRREL CREEK NR DECKER, MT.	030	003	SW	33.60		1975		M				USGS	D
10090101	PRAIRIE DOG CREEK NEAR ACME, WYO.	056	033	SW	358.00	004	1976		A			A	USGS	D
10090101	TONGUE RIVER AT STATE LINE NR DECKER MONT	030	003	SW	1477.00	124	1964		A			A	USGS	D
10090101	DEER CREEK NEAR DECKER, MT.	030	003	SW			1975		R			R	USGS	D
10090101	TONGUE RIVER AT TONGUE R DAM, NEAR DECKER, M	030	003	SW	1770.00		1950		E	E		E	USGS	D
10090101	FOURMILE CREEK NEAR BIRNEY, MT.	030	087	SW			1975	1975	A			A	USGS	D
10090101	BULL CREEK NEAR BIRNEY, MT.	030	087	SW			1975	1975	A			A	USGS	D
10090101	EAST FORK TRAIL CREEK NEAR OTTER, MT	030	003	SW	31.30	014	1977		M	M			USGS	D
10090101	GOOSE C #1	056	033	SW			1976		M	M			WY004	
10090101	GOOSE C #3	056	033	SW			1976		M	M			WY004	
10090101	TONGUE R #1	056	033	SW			1976		M	M			WY004	
10090101	TONGUE R #2	056	033	SW			1976		M	M			WY004	
10090101	TONGUE R #3	056	033	SW			1976		M	M			WY004	
10090101	TONGUE R #4	056	033	SW			1976		M	M			WY004	
10090101	TONGUE R #5	056	033	SW			1976		M	M			WY004	
10090101	TONGUE R #6 ON ASH C	056	033	SW			1976		M	M			WY004	
10090101	TONGUE R #7 ON YOUNGS C	056	033	SW			1976		M	M			WY004	
10090101	TONGUE R #8 ON PRAIRIE DOG C	056	033	SW			1976		M	M			WY004	
10090101	SOUTH TONGUE R AT USGS 2970	056	033	SW			1971		K			K	USFS	D
10090101	PRUNE CK AT STAFF AB SIBLEY LAKE	056	033	SW			1970	1975	N			N	USFS	D

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10090101	TONGUE R AT CAMPGROUND NR DAYTON	056	033	SW			1968		A			A	USFS	D
10090101	NORTH TONGUE R NR BURGESS RS	056	033	SW			1975		K			K	USFS	D
10090101	BIG GOOSE CK AT USGS GAGE 3020	056	033	SW			1968		K			K	USFS	D
10090101	LITTLE GOOSE CK AT USGS STA 3035	056	033	SW			1970		K			K	USFS	D
10090101	W FK BIG GOOSE CK AT USGS 3015	056	033	SW			1974		A			A	USFS	D
10090101	RAPID CK @ STAFF AB B.GOOSE ROAD	056	033	SW			1968	1975	E			E	USFS	D
10090102	TONGUE RIVER BL HANGING WOMAN C., NR BIRNEY,	030	087	SW		014	1974		K	K		K	USGS	D
10090102	BEAR CREEK AT OTTER, MT.	030	075	SW			1975		K			K	USGS	D
10090102	THREEMILE CREEK NEAR ASHLAND, MT.	030	087	SW			1975	1975	A			A	USGS	D
10090102	BEAVER CREEK NEAR ASHLAND, MT.	030	087	SW			1975		K			K	USGS	D
10090102	TONGUE R BL BRANDENBERG BRIDGE, NR ASHLAND,	030	017	SW	4062.00	014	1973		O	E		O	USGS	D
10090102	LISCOM CREEK NEAR ASHLAND, MT.	030	017	SW			1975		A	A		A	USGS	D
10090102	FOSTER CREEK NEAR VOLBORG, MT.	030	017	SW			1975		A	A		A	USGS	D
10090102	PUMPKIN CREEK NEAR SONNETTE, MT.	030	075	SW	70.70		1975		M				USGS	D
10090102	PUMPKIN CREEK NEAR LOESCH, MT.	030	075	SW	102.00	004	1975		N	N		N	USGS	D
10090102	LITTLE PUMPKIN CREEK NEAR VOLBORG, MT.	030	075	SW	86.94		1976		A	A		A	USGS	D
10090102	PUMPKIN CREEK NEAR VOLBORG, MT.	030	017	SW	386.00		1975		A	A		A	USGS	D
10090102	PUMPKIN CREEK NEAR MILES CITY MT	030	017	SW	697.00	024	1975		M				USGS	D
10090102	TONGUE RIVER AT MILES CITY, MT.	030	017	SW	5379.00	124	1946		E	E		E	USGS	D
10090201	M F POWDER R ABOVE KAYCEE, WYO.	056	019	SW	450.00	014	1949	1970	2	A		2	USGS	D
10090202	POWDER RIVER NEAR KAYCEE, WYO.	056	019	SW	980.00		1949		O	Q			USGS	D
10090202	POWDER RIVER AT SUSSEX, WYO.	056	019	SW	3090.00	014	1949	1975	2	Q		2	USGS	D
10090202	DEAD HORSE CREEK NEAR BUFFALO, WYO.	056	019	SW	151.00		1976	1976	A			A	USGS	D
10090202	POWDER R AT ARVADA WYO	056	033	SW	6050.00		1946		O	E		O	USGS	D
10090202	POWDER R AB SALT CR NR SUSSEX WY	056	019	SW			1976		A			A	USGS	D
10090203	SOUTH FORK POWDER R. NR. KAYCEE, WYO.	056	019	SW	1150.00		1950		2			2	USGS	D
10090204	SALT CREEK NEAR SUSSEX, WYO.	056	019	SW	765.00	014	1952		M		A		USGS	D
10090204	SALT C 2MI W OF SUSSEX WY	056	019	SW		004	1951	1952	Q				USGS	P
10090205	N FK CRAZY WOMAN CR BL SPRING DR NR BUFFALO,	056	019	SW	51.70	014	1951	1951	M				USGS	P
10090205	N FK CRAZY WOMAN CR NR GREUB, WYO.	056	019	SW	174.00	014	1964	1968	2	R		2	USGS	D
10090205	CRAZY WOMAN CREEK AT UPPER STA, NEAR ARVADA,	056	019	SW	945.00		1950	1975	2			2	USGS	D
10090205	CRAZY WOMAN CREEK NEAR ARVADA, WYO.	056	019	SW	956.00	014	1949	1975	3	Q		2	USGS	D
10090205	NORTH FK CRAZY WOMAN C STAFFGAGE	056	019	SW			1970	1975	A			R	USFS	D
10090205	POLE CK BEL BIWAY 16 @ STAFFGAGE	056	019	SW			1970	1975	N			N	USFS	D
10090206	CLEAR CREEK NEAR BUFFALO, WYO.	056	019	SW	120.00		1976		A			A	USGS	D
10090206	CLEAR C BL ROCK C NR BUFFALO WY	056	019	SW	322.00	024	1975		E			E	USGS	D
10090206	CLEAR CREEK AT UCROSS WY	056	019	SW	409.00	024	1975		M		A		USGS	D
10090206	NORTH PINEY CREEK NEAR STORY, WYOMING	056	033	SW	36.80		1976		A			A	USGS	D
10090206	PINEY CREEK AT KEARNY, WYO.	056	019	SW	118.00	124	1975		A			A	USGS	D
10090206	CLEAR CREEK NEAR ARVADA WYO	056	033	SW	1110.00		1950		E			E	USGS	D

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10090206	NORTH PINEY CK AT USGS STA 3215	056	033	SW			1970		K			K	USFS	D
10090206	ROCK CK AT USGS GAGE 3200 NR BUF	056	019	SW			1972		K			K	USFS	D
10090206	SOUTH PINEY CK AT USGS 3210	056	019	SW			1968	1974	K			K	USFS	D
10090206	CLEAR CK AT USGS GAGE 3185	056	019	SW			1971		K			K	USFS	D
10090206	PINEY C BL SENFF DRAW NR UCROSS WY	056	019	SW			1976	1976	A				USGS	D
10090207	POWDER RIVER AT MOORHEAD, MT.	030	075	SW	8088.00	014	1951		O			O	USGS	D
10090207	POWDER RIVER AT BROADUS MT	030	075	SW	8748.00	014	1974		O	Q		O	USGS	D
10090208	RAWHIDE CREEK AT U S HIGHWAY 14-16, NR GILLE	056	005	SW			1975		E			E	USGS	D
10090208	L POWDER RIVER AB COTTONWOOD CREEK NEAR WEST	056	005	SW			1975		A			A	USGS	D
10090208	COTTONWOOD C NR WESTON WY	056	005	SW			1975		A	A		A	USGS	D
10090208	L POWDER R NR WESTON WY	056	005	SW			1969		A	A		A	USGS	D
10090208	L POWDER RIVER AB DRY C NR WESTON, WY	056	005	SW	1230.00	014	1975		E	E		E	USGS	D
10090209	POWDER RIVER NEAR LOCATE, MT.	030	017	SW	13194.00		1950		O			O	USGS	D
10090210	MIZPAH CREEK AT OLIVE, MT.	030	075	SW	129.00		1975		K	K		K	USGS	D
10090210	MIZPAH CREEK NEAR VOLBORG, MT.	030	017	SW	510.00	004	1975		N	N		N	USGS	D
10090210	MIZPAH CREEK NEAR MIZPAH, MT.	030	017	SW	797.00	004	1975		M				USGS	D
10100001	YELLOWSTONE RIVER AT MYERS, MT.	030	103	SW		004	1974		N	N		N	USGS	D
10100001	WEST FORK ARMELLS CREEK NEAR FORSYTH, MT.	030	087	SW			1974		N	N		N	USGS	D
10100001	YELLOWSTONE RIVER AT FORSYTH, MT.	030	087	SW	40339.00	024	1974		E	E		E	USGS	D
10100001	YELLOWSTONE RIVER NEAR MILES CITY, MT.	030	017	SW	42847.00	004	1967		E	E		E	USGS	D
10100003	GREENLEAF CREEK NEAR COLSTRIP, MT.	030	087	SW			1975	1975	A			A	USGS	D
10100004	YELLOWSTONE RIVER NEAR TERRY, MT.	030	079	SW		004	1974		N	N		N	USGS	D
10100004	BURNS CREEK NEAR SAVAGE, MT.	030	083	SW	233.00	004	1975		Q			Q	USGS	D
10100004	YELLOWSTONE RIVER NEAR SIDNEY, MT.	030	083	SW	69103.00	124	1948		O	E		O	USGS	D
10110101	MISSOURI RIVER NR WILLISTON, ND	038	053	SW	164500.00		1945		E	E			USGS	D
10110101	BEAR DEN CREEK NR MANDAREE, ND	038	053	SW	74.00	004	1966		K	E		K	USGS	D
10110201	LITTLE MISSOURI RIVER AT ALZADA, MT.	030	011	SW	671.00	004	1949	1950	O	X			USGS	P
10110203	LITTLE MISSOURI RIVER AT MARMARTH, ND	038	087	SW	4640.00		1945		2			2	USGS	D
10110203	LITTLE MISSOURI RIVER AT MEDORA, ND	038	007	SW	6190.00		1946	1975	2	Q		2	USGS	D
10110205	LITTLE MISSOURI RIVER NR WATFORD CITY, ND	038	053	SW	8310.00	004	1947		O	R		O	USGS	D
10110205	LITTLE MISSOURI R NEAR WATFORD	038	053	SW			1968		E	E			USCE	D
10120101	PORCUPINE CR AT HILIGHT RD	056	005	SW			1975	1975	K				USFS	D
10120101	UPPER ANTELOPE CR	056	009	SW			1975	1975	K				USFS	D
10120101	BEAR CREEK	056	009	SW			1975	1975	K				USFS	D
10120101	ANTELOPE CR AT IRWIN RD	056	009	SW			1975	1975	K				USFS	D
10120102	DRY FORK CHEYENNE RIVER NEAR BILL, WYO	056	009	SW	128.00	024	1976		M		A		USGS	D
10120102	AT FIDDLEBACK CROSSING	056	009	SW			1975	1975	R				USFS	D
10120102	DRY FORK CHEYENNE R NR ORPHA WY	056	009	SW			1976	1976	A			A	USGS	D
10120103	CHEYENNE RIVER NR DULL CENTER WY	056	009	SW	1527.00	024	1975		E			E	USGS	D
10120103	UPPER LITTLE THUNDER CREEK	056	005	SW			1975	1975	K				USFS	D

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10120103	LOWER LITTLE THUNDER CREEK	056	005	SW			1975	1975	K				USFS	D
10120103	SCHOOL CR AT STOCK WATER RES	056	005	SW			1975	1975	K				USFS	D
10120105	BOX C BL CONFLUENCE NR BILL WY	056	009	SW			1976	1976	A	A		A	USGS	D
10120106	LANCE CR AT SPENCER WYO	056	027	SW	2070.00	004	1950		3	E		3	USGS	D
10120106	CHEYENNE RIV NR SPENCER WYO	056	027	SW	5270.00		1951		E	E		E	USGS	D
10120106	CHEYENNE R NEAR HOT SPRINGS SD	046	047	SW	8710.00	004	1852	1967	2	N		2	USGS	D
10120107	BEAVER CREEK NEAR NEWCASTLE, WYO.	056	045	SW	1320.00	014	1949		2			2	USGS	D
10120108	HAT CR NEAR EDGEMONT SD	046	047	SW	1044.00	004	1949	1978	2	E		2	USGS	D
10120109	CHEYENNE R BELOW ANGOSTURA DAM SD	046	047	SW	9100.00		1951		E	E			USGS	D
10120110	CASTLE CR ABOVE DEERFIELD RES NEAR HILL CITY	046	103	SW	83.00		1963		Q			Q	USGS	D
10120112	CHEYENNE R NEAR PLAINVIEW SD	046	055	SW	21600.00	124	1972		E				USGS	
10120112	CHEYENNE R AT CHERRY CREEK SD	046	137	SW	23900.00	124	1970		0	R		0	USGS	D
10120201	BELLE FOURCHE R BL RATTLESNAKE C NR PINEY WY	056	005	SW	495.00	004	1975		C		A		USGS	D
10120201	BELLE FOURCHE R AB DRY C NR PINEY WY	056	005	SW	594.00	004	1975		C		A		USGS	D
10120201	BELLE FOURCHE RIVER BELOW MOORCROFT, WYO.	056	011	SW	1670.00	014	1945	1975	3	A	A	2	USGS	D
10120201	BELLE FOURCHE R BL RATTLESNAKE C NR PINEY WY	056	005	SW	495.00		1976		E			E	USGS	D
10120201	BELLE FOURCHE R AB DRY C NR PINEY WY	056	005	SW	594.00		1976		E			E	USGS	D
10120201	DONKEY CR BL WYODAK MINE NR GILLETTE WY	056	005	SW			1975		A				USGS	D
10120202	INDIAN CR NR ARPAN SD	046	019	SW	315.00		1965		E	E		E	USGS	D
10120202	HORSE CR NEAR VALE SD	046	019	SW	530.00		1964		E	E		E	USGS	D
10120202	BELLE FOURCHE R NEAR STURGIS SD	046	093	SW	5870.00	124	1954		2	E		2	USGS	D
10120202	BELLE FOURCHE R NEAR ELM SPRINGS SD	046	093	SW	7210.00	124	1946		6			6	USGS	D
10120203	REDWATER CR AT WY-SD STATE LINE	046	019	SW	471.00		1969		H	E		H	USGS	D
101238 E	WHITEWOOD C NR VALE SD	046	019	SW		004	1959	1962	E		E		USGS	P
101238 E	INDIAN C NR NEWELL SD	046	019	SW		004	1959	1962	Q		Q		USGS	P
101238 E	BELLE FOURCHE R NR HEREFORD SD	046	093	SW		014	1959	1962	Q		Q		USGS	P
10130101	MISSOURI RIVER AT GARRISON DAM, ND	038	057	SW	181400.00	014	1970		E				USGS	D
10130101	MISSOURI RIVER AT BISMARCK, ND	038	015	SW	186400.00	014	1965		0	E		0	USGS	D
10130101	MISSOURI R AT BISMARCK ND	038	015	SW			1946	1973	E	E			USCE	D
10130101	MISSOURI RIVER AT GARRISON DAM	038	057	SW			1968		W				USCE	C
10130102	MISSOURI RIVER NR SCHMIDT, ND	038	059	SW	191700.00		1965		E	E		E	USGS	D
10130102	GRAND R AT LITTLE EAGLE SD	046	031	SW	5370.00	014	1969		0	K		0	USGS	D
10130102	GRAND R NEAR WAKPALA SD	046	031	SW	5510.00	014	1946	1962	A	A	A		USGS	
10130102	MOREAU R AT PROMISE SD	046	041	SW	5223.00	004	1946	1958	0	0	0		USGS	
10130105	CHEYENNE R NEAR EAGLE BUTTE SD	046	055	SW	24500.00	014	1945		P	X	X		USGS	D
10130105	CHEYENNE RIVER NEAR EAGLE BUTTE	046	137	SW			1968		E	E			USCE	D
10130201	KNIFE RIVER NR GOLDEN VALLEY, ND	038	057	SW	1230.00		1946		2	E		2	USGS	D
10130201	SPRING CREEK AT ZAP, ND	038	057	SW	549.00		1946		E			E	USGS	D
10130201	KNIFE RIVER AT HAZEN, ND	038	057	SW	2350.00		1945		2	E		2	USGS	D
10130201	KNIFE R AT HAZEN N D	038	057	SW			1948	1969	M	M			USCE	P

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10130202	HEART RIVER NR RICHARDTON, ND	038	089	SW	1240.00		1946		2	Y		2	USGS	D
10130203	HEART R BELOW HEART BUTTE DAM NR GLEN ULLIN	038	037	SW	1710.00	014	1949	1972	3			2	USGS	D
10130203	HEART RIVER NR MANDAN, ND	038	059	SW	3310.00	014	1970		0	A		0	USGS	D
10130203	HEART R NEAR MANDAN, NO DAKOTA	038	059	SW			1968		E	E			USCE	P
10130204	CANNONBALL RIVER AT REGENT, ND	038	041	SW	580.00		1950		2	E		2	USGS	D
10130204	CANNONBALL RIVER BELOW BENTLEY, ND	038	037	SW	1140.00		1946		0	Y			USGS	P
10130205	CEDAR CREEK NR PRETTY ROCK, ND	038	037	SW	1340.00		1946		2	Y		2	USGS	D
10130206	CANNONBALL RIVER AT BREIEN, ND	038	085	SW	4100.00	004	1945		0	E		0	USGS	D
10130206	CANNONBALL RIVER NEAR BREIEN	038	059	SW			1968		E	E			USCE	D
10130301	NORTH FORK GRAND RIVER AT HALEY, ND	038	011	SW	509.00		1950		M	Y			USGS	P
10130301	NORTH FORK GRAND R NEAR WHITE BUTTE SD	046	105	SW	1190.00	014	1975		E	E			USGS	P
10130301	NF GRAND R NR HALEY N D	038	011	SW			1971		E	E			USCE	
10130302	SOUTH FORK GRAND R NEAR CASH SD	046	105	SW	1350.00	004	1975		E				USGS	P
10130303	GRAND R AT SHADEHILL SD	046	105	SW	3120.00	014	1945		2	E		2	USGS	D
10130303	GRAND R NEAR LITTLE EAGLE	046	031	SW			1968		E	E			USCE	C
10130306	MOREAU R NEAR FAITH SD	046	105	SW	2660.00	004	1946	1978	2	E		2	USGS	D
10130306	MOREAU R NEAR WHITEHORSE SD	046	041	SW	4880.00	004	1969		0	K		0	USGS	D
10130306	MOREAU RIVER NEAR WHITEHORSE SD	046	041	SW			1968		E	E			USCE	D
10140101	MISSOURI R AT PIERRE SD	046	117	SW	243500.00	124	1950		E			E	USGS	D
10140102	BAD R NEAR FORT PIERRE SD	046	117	SW	3107.00	004	1970		0	A		0	USGS	D
10140102	BAD RIVER NEAR FT PIERRE	046	117	SW			1968		E	E			USCE	D
10140201	WHITE R AT SLIM BUTTE SD	046	113	SW	1500.00	004	1963	1970	E	E		E	USGS	D
10140201	WHITE R NEAR OGLALA SD	046	113	SW	2200.00	004	1945	1975	2	E		2	USGS	D
10140201	WHITE R NEAR ROCKYFORD SD	046	113	SW	3000.00	004	1964	1967	M	N		M	USGS	D
10140202	WHITE R NEAR KADOKA SD	046	071	SW	5000.00	004	1948		2	X		2	USGS	D
10140203	LITTLE WHITE R BELOW WHITE RIVER SD	046	095	SW	1570.00	014	1950	1978	2	X	M	2	USGS	D
10140204	WHITE R NEAR OACOMA SD	046	085	SW	10200.00	014	1939		0	E		0	USGS	D
10140204	WHITE RIVER AT ST HWY 47	046	085	SW			1968		E	E			USCE	D
10150001	PONCA CREEK AT ANOKA, NEBR.	031	015	SW	505.00	004	1951	1967	2	M	M	2	USGS	D
10150003	NIOBRARA RIVER NR HAY SPRINGS, NEBR.	031	161	SW	1790.00	004	1949	1975	5			5	USGS	D
10150003	NIOBRARA RIVER NEAR GORDON, NEBR.	031	161	SW	2595.00	124	1946	1975	2	0	0	2	USGS	D
10150003	NIOBRARA RAT CODY NEBR	031	031	SW		004	1947	1975	4	M	M	4	USGS	D
10150004	NIOBRARA RIVER NEAR SPARKS, NEBR.	031	031	SW	6406.00	124	1946		2	M	M	2	USGS	D
10150004	NIOBRARA RIVER NR NORDEN NEBR	031	103	SW	8390.00	124	1955		5	E		5	USGS	D
10150004	NIOBRARA R NR MEADVILLE NE	031	103	SW		004	1950	1952	Q	Q	Q		USGS	P
10150004	LONG PINE CREEK NEAR RIVERVIEW, NEBR.	031	017	SW	390.00	004	1947		2	E	E	2	USGS	D
10150005	SNAKE RIVER NEAR BURGE, NEBR.	031	031	SW	920.00	124	1947	1954	E	E	E		USGS	P
10150006	KEYA PAHA R NEAR HIDDEN TIMBER SD	046	121	SW	320.00	004	1948	1951	Q	Q			USGS	P
10150006	KEYA PAHA R AT WEWELA SD	046	123	SW	1070.00	004	1948		M	Q			USGS	P
10150007	NIOBRARA RIVER NR. VERDEL, NEBR.	031	107	SW	12600.00	124	1958		0	M	Z	0	USGS	D

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10150007	VERDIGRE C NR VERDIGRE NE	031	107	SW		004	1947	1950	M	M	M		USGS	P
10150007	PISHELVILLE BRIDGE NEAR VERDEL	031	107	SW			1968		E	E			USCE	C
10160003	JAMES RIVER AT LAMOURE, ND	038	045	SW	4390.00		1952		R	A		R	USGS	D
10160003	JAMES R AT COLUMBIA SD	046	013	SW	7050.00	014	1960		M				USGS	D
10160008	SOUTH FORK SNAKE CR NEAR ATHOL SD	046	049	SW	1820.00	004	1957	1972	4	M		4	USGS	D
10160011	JAMES R NEAR SCOTLAND SD	046	067	SW	21550.00	014	1952		N			N	USGS	D
10170101	MISSOURI R AT FORT RANDALL SD	046	023	SW	263500.00	014	1973		Q			Q	USGS	D
10170101	MISSOURI R AT YANKTON SD	046	135	SW	279500.00	124	1955		P	X	X		USGS	D
10170101	POWERHOUSE OUTFLOW GAVINS PT DAM	031	027	SW			1968		M				USCE	C
10170101	MISSOURI R AT YANKTON S D	046	135	SW			1939	1969	M	M			USCE	D
10170102	VERMILLION R NR CHANCELLOR S DAK	046	125	SW	860.00	004	1960	1967	E			E	USGS	D
10170102	VERMILLION R NEAR WAKONDA SD	046	027	SW	1680.00	014	1960		E	E		E	USGS	D
10170102	VERMILLION R AT VERMILLION, S.D.	046	027	SW			1966	1967	R	A		R	USGS	D
10170202	BIG SIOUX R NEAR WATERTOWN SD	046	029	SW	241.00	004	1973		E			E	USGS	D
10170202	BIG SIOUX R AT WATERTOWN SD	046	029	SW	1800.00	004	1960	1972	E	E		E	USGS	D
10170202	WILLOW CR NEAR WATERTOWN SD	046	029	SW	125.00	004	1966		E			E	USGS	D
10170202	STRAY HORSE CR NEAR CASTLEWOOD SD	046	057	SW	73.70	004	1970		E			E	USGS	D
10170202	HIDEWOOD CR NEAR ESTELLINE SD	046	057	SW	164.00	004	1970		E			E	USGS	D
10170202	SIXMILE CR NEAR BROOKINGS SD	046	011	SW	54.00	004	1970		E			E	USGS	D
10170202	BIG SIOUX RIVER 114N51W30DD	046	057	SW			1966	1966	A			A	USGS	D
10170203	BIG SIOUX RIVER NEAR BROOKINGS SD	046	101	SW	4420.00	004	1960		E	E		E	USGS	D
10170203	BIG SIOUX R NEAR DELL RAPIDS SD	046	099	SW	5060.00	004	1960		O	E		O	USGS	D
10170203	SKUNK CR AT SIOUX FALLS SD	046	099	SW	520.00	004	1960		E			E	USGS	D
10170203	BIG SIOUX R NEAR BRANDON SD	046	099	SW	5810.00	004	1966	1972	E	E		E	USGS	D
10170203	SPLITROCK CR AT CORSON SD	046	099	SW	475.00	004	1970		E			E	USGS	D
10170203	BIG SIOUX R AT AKRON IA	019	149	SW	9030.00	004	1960		R	E		R	USGS	D
10170204	ROCK R NR ROCK VALLEY IOWA	019	167	SW	1600.00	004	1966	1973	E	E		E	USGS	D
10180001	NORTH PLATTE RIVER NEAR NORTHGATE, CO.	008	057	SW	1431.00		1964		E			E	USGS	D
10180001	MICHIGAN RIVER .5 MI S GOULD	008	057	SW			1974	1975	R				USFS	D
10180001	ILLINOIS R.AT RD #775	008	057	SW			1974	1975	R				USFS	D
10180001	LONE PINE CR.NR FRST BDRY.	008	057	SW			1969	1975	A				USFS	D
10180001	LITTLE GRIZZLEY CR. AB CHEDSEY CR. NR. COALM	008	057	SW			1976	1976	R			R	USGS	D
10180001	ILLINOIS R NR LARAND	008	057	SW			1976	1976	R			R	USGS	D
10180001	PINKHAM CR NR NORTHGATE	008	057	SW			1976	1976	R			R	USGS	D
10180002	ENCAMPMENT RIV AB HOG PARK CR NR ENCAMPMENT	056	007	SW	72.70	004	1964		H	N		H	USGS	D
10180002	SAGE CREEK NEAR SARATOGA, WYO	056	007	SW	263.00	014	1972		N	A		N	USGS	D
10180002	N PLATTE R AB SEMINOE RES NR SINCLAIR WYO	056	007	SW	8134.00	124	1959		E			E	USGS	D
10180002	ABOVE UPPER DOUGLAS TIMBER SALE	056	001	SW			1975	1975	A				USFS	D
10180002	BLOWE UPPER DOUGLAS TIMBER SALE	056	001	SW			1975	1975	A				USFS	D
10180002	BELOW UPPER DOUGLAS TIMBER SALE	056	001	SW			1975	1975	A				USFS	D

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10180002	SIX MILE GAP CAMPGROUND	056	007	SW			1975		A				USFS	D
10180002	NORTH PLATTE BL DOUGLAS CREEK	056	007	SW			1975	1975	A				USFS	D
10180002	N PLATTE AT A BAR A RANCH BOUND	056	007	SW			1975		A				USFS	D
10180002	LOWER DOUGLAS CREEK	056	007	SW			1976	1976	S				USFS	D
10180002	AB WEST MULLEN TIMBER SALE	056	007	SW			1975	1975	A				USFS	D
10180002	BELOW WEST MULLEN TIMBER SALE	056	007	SW			1975	1975	N				USFS	D
10180002	FRENCH CREEK	056	007	SW			1976	1976	A				USFS	D
10180002	BELOW N BARRETT TIMBER SALE	056	007	SW			1975	1975	A				USFS	D
10180002	ABOVE N BARRETT TIMBER SALE	056	007	SW			1975	1975	A				USFS	D
10180002	LOWER BARRETT	056	007	SW			1976	1976	N				USFS	D
10180002	UPPER BARRETT	056	007	SW			1976	1976	N				USFS	D
10180002	SOUTH BRUSH CR.	056	007	SW			1976	1976	A				USFS	D
10180002	NORTH BRUSH CREEK	056	007	SW			1976	1976	A				USFS	D
10180002	HOG PARK RESERVOIR	056	007	SW			1975	1975	A				USFS	D
10180002	N FORK ENCAM BL BOTTLE CR	056	007	SW			1975		S				USFS	D
10180002	ENCAMPMENT RIVER WATER VALLEY	056	007	SW			1976		A				USFS	D
10180002	PASS CREEK	056	007	SW			1976	1976	A				USFS	D
10180002	EAST FORK WIER	056	007	SW			1969		R				USFS	D
10180002	UPPER EAST FORK STREAM GAUGE	056	007	SW			1969	1975	K				USFS	D
10180002	COON CREEK STREAM GAUGE	056	007	SW			1969	1975	N				USFS	D
10180002	RYAN CR AT CONF WITH EAST FORK	056	007	SW			1975	1975	A				USFS	D
10180002	EAST FORK ENCAMP BELOW RYAN CR	056	007	SW			1975	1975	A				USFS	D
10180002	MAIN ENCAMP BELOW EAST FORK	056	007	SW			1973	1973	R				USFS	D
10180002	NELLIE CR ABOVE COW CR	056	007	SW			1975		A				USFS	D
10180002	LOWER HIDDEN TREASURE GULCH	056	007	SW			1975		A				USFS	D
10180002	NELLIE CR BELOW BATTLE TOWN SITE	056	007	SW			1975		A				USFS	D
10180002	HIDDEN TREASURE GULCH AB HW 70	056	007	SW			1975		A				USFS	D
10180002	JACK CR BL JACK CR PARK	056	007	SW			1975		R				USFS	D
10180002	JACK CR AB JACK CR GUARD STATION	056	007	SW			1975		K				USFS	D
10180002	BIG CREEK	056	007	SW			1976		R				USFS	D
10180002	DAMFINO CREEK STREAM GAUGE	008	057	SW			1973		A				USFS	D
10180002	DAMFINO CREEK AT HEADWATERS	008	057	SW			1975	1975	A				USFS	D
10180002	TRIBUTARY TO DAMFINO CR %UPPER<	008	057	SW			1975	1975	A				USFS	D
10180002	TRIBUTARY TO DAMFINO %LOWER STA<	008	057	SW			1975	1975	A				USFS	D
10180002	RYAN CREEK AT HEADWATERS	008	057	SW			1975	1975	A				USFS	D
10180002	AT HOG PARK GUARD STATION	008	057	SW			1973		A				USFS	D
10180002	WEST FORK ENCAMP AT JEEP TRAIL	008	057	SW			1969	1975	A				USFS	D
10180002	S.F. BIG CR NR PEARL	008	057	SW			1976	1976	R			R	USGS	D
10180003	BIG DITCH NR COYOTE SPRINGS WY	056	007	SW		004	1976	1976	A	A		A	USGS	D
10180003	NORTH DITCH NR COYOTE SPRINGS WY	056	007	SW	22.60	024	1976	1976	O	M	Q	9	USGS	P

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10180004	HANNA DRAW NR HANNA WY	056	007	SW		004	1975		A	A		A	USGS	D
10180004	MEDICINE BOW RIVER ABOVE SEMINOE RESERVOIR N	056	007	SW	2338.00	014	1965		M	A		M	USGS	D
10180004	MEDICINE BOW RIVER	056	007	SW			1976	1976	A				USFS	D
10180004	ROCK CREEK	056	007	SW			1976	1976	A				USFS	D
10180005	L MEDICINE BOW R NR MEDICINE BOW WYO	056	007	SW	963.00	004	1965		Q	A		Q	USGS	D
10180006	SWEETWATER RIVER NEAR SOUTH PASS CITY, WYOMI	056	013	SW	177.00	124	1975		M	Q	A	6	USGS	D
10180006	ROCK CREEK ABOVE ROCK CREEK RESERVOIR, WYO.	056	013	SW	9.20		1975	1975	A			A	USGS	D
10180006	SLATE CREEK NEAR ATLANTIC CITY, WYO.	056	013	SW	5.92		1956	1975	2			2	USGS	D
10180006	ROCK CREEK AT ATLANTIC CITY, WYO.	056	013	SW	21.30	014	1956		O	E		O	USGS	D
10180006	W F CROOKS CREEK NEAR JEFFREY CITY, WY	056	013	SW	11.60		1976	1978	N			N	USGS	D
10180006	SWEETWATER RIVER NEAR ALCOVA, WYO.	056	025	SW	2327.00		1964		K			K	USGS	D
10180006	SOUTH FORK SULFUR C SITE M	056	041	SW			1976	1976	A	A		A	USGS	D
10180006	WEST ALKALI C NR SWEETWATER STAT	056	013	SW			1976	1976	A	A		A	USGS	D
10180007	NORTH PLATTE R AT ALCOVA WYO	056	025	SW	14771.00	124	1964		R			R	USGS	D
10180007	BATES C NR ALCOVA WYO	056	025	SW	393.00	014	1956		2			2	USGS	D
10180007	N PLATT R NR GOOSE EGG WYO	056	025	SW	11449.00	124	1949	1975	2	Q		2	USGS	D
10180007	NORTH PLATTE RIVER BL CASPER WYO	056	025	SW	12574.00	124	1947		2	E		2	USGS	D
10180007	N PLATTE R NR GLENROCK WYO	056	009	SW	17497.00	124	1959		R			A	USGS	D
10180007	BATES CREEK	056	025	SW			1975	1976	B	B			USSCS	
10180007	BATES CREEK @ 220 BRIDGE	056	025	SW			1975	1976	B	B			USSCS	
10180007	BATES CREEK @ 220 BRIDGE	056	025	SW			1975	1976	B	B			USSCS	
10180007	STINKING CREEK @ STOCK TRAIL	056	025	SW			1975	1976	B	B			USSCS	
10180007	BIG RED	056	025	SW			1975	1976	B	B			USSCS	
10180007	CORRAL CREEK	056	025	SW			1975	1976	B	B			USSCS	
10180007	LITTLE RED CREEK	056	025	SW			1975	1976	B	B			USSCS	
10180007	FRANK DRAW TRIB NO 1 NR ORPHA WY	056	009	SW			1976	1976	A	A		A	USGS	D
10180008	NORTH PLATTE RIVER NR DOUGLAS WYO	056	009	SW	14379.00	124	1947	1975	2	Q		2	USGS	D
10180008	NORTH PLATTE R. AT ORIN, WYO.	056	009	SW	14888.00		1966		E	E		E	USGS	D
10180008	NORTH PLATTE RIVER NR CASSA WYO	056	031	SW	15837.00	124	1947	1975	2	Q		2	USGS	D
10180008	NORTH PLATTE R BL GUERNSEY RE, WYO	056	031	SW	20196.00	124	1947		2	Q	Q	2	USGS	D
10180009	NORTH PLATTE RIVER NEAR LINGLE, WYO.	056	015	SW	25095.00	124	1969	1975	M	A	Q		USGS	D
10180009	N PLATTE R AT WYO-NEBR STATE LINE	031	157	SW	26177.00	124	1964		M	A			USGS	D
10180009	BROWN CANYON DR NR MITCHELL NEBR	031	157	SW		024	1961	1965	A	A	A		USGS	D
10180009	DUTCH FLATS DR NR MITCHELL NEBR	031	157	SW		024	1961	1965	E	E	E		USGS	D
10180009	WINTER CREEK AT TRISTATE CA NR SCOTTSBLUFF,N	031	157	SW		024	1961	1965	A	A	A		USGS	D
10180009	HALE DRAIN NR SCOTTSBLUFF NEBR	031	157	SW		024	1961	1965	Q	Q	Q		USGS	D
10180009	GERING DR AT MITCHELL-GERING CAN NR GERING N	031	157	SW		024	1961	1965	A	A	A		USGS	D
10180009	ALLIANCE DR NR MINATARE NEBR	031	157	SW		024	1961	1965	A	A	A		USGS	D
10180009	NINEMILE DRAIN NR MINATARE NEBR	031	157	SW		024	1961	1965	A	A	A		USGS	D
10180009	WEST WILDHORSE DR NR BAYARD NEBR	031	123	SW		024	1961	1962	M	M	M		USGS	D

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10180009	WILDHORSE DR NR BAYARD, NEBR.	031	123	SW		024	1961	1962	Q	Q	Q		USGS	P
10180009	NORTH PLATTE RIVER AT LISCO, NEBR.	031	069	SW	30700.00	124	1969		M	M		E	USGS	D
10180009	N PLATTE R AT WYO-NEBR STATE LINE	031	015	SW			1974		M	A		M	USGS	D
10180010	LARAMIE RIVER AT LARAMIE, WYO.	056	001	SW	1071.00	124	1968	1970	O	Q			USGS	P
10180010	LARAMIE RIVER AT HOWELL, WY	056	001	SW		014	1974		E			E	USGS	D
10180010	FOX CREEK	056	001	SW			1976	1976	A				USFS	D
10180010	BOSWELL CREEK	056	001	SW			1976	1976	A				USFS	D
10180010	LIBBY CR ABOVE HW 130	056	001	SW			1975		K				USFS	D
10180010	TELEPHONE CR ABOVE HW 130	056	001	SW			1975		N				USFS	D
10180010	NASH FORK ABOVE HW 130	056	001	SW			1975		K				USFS	D
10180010	N FORK LITTLE LARAMIE R AB HW130	056	001	SW			1975		R				USFS	D
10180010	LIBBY CR AT FOREST BOUNDRY	056	001	SW			1975		R				USFS	D
10180010	NASH FORK AB MED BOW SKI AREA	056	001	SW			1975		R				USFS	D
10180010	NASH FORK BL MED BOW SKI AREA	056	001	SW			1975		R				USFS	D
10180010	SOUTH FORK LITTLE LARAMIE RIVER	056	001	SW			1976	1976	A				USFS	D
10180011	WHEATLAND CA NO 1 NR WHEATLAND WYO	056	031	SW		004	1958	1959	Q	A			USGS	P
10180011	WHEATLAND CA 2 NR WHEATLAND WYO	056	031	SW		004	1958	1959	Q	Q			USGS	P
10180011	LARAMIE R NR UVA WYO	056	031	SW	4440.00	124	1951	1975	2	Q		2	USGS	D
10180011	LARAMIE RIVER NR FT LARAMIE WYO	056	015	SW	4546.00		1964		M	A		M	USGS	D
10180012	HORSE CREEK AT WY CROSS RANCH NEAR LA GRANGE	056	015	SW	680.00	124	1965	1972	H	E		H	USGS	D
10180012	KIOWA C NR LYMAN NEBR	031	157	SW		004	1961	1965	A	A	A		USGS	D
101834 F	NORTH PLATTE R AT CASPER WYO	056	025	SW		014	1970		E	E		E	USGS	D
10190002	NF SOUTH PLATTE RIVER AT SOUTH PLATTE, CO.	008	059	SW	479.00	024	1964	1973	E	E		E	USGS	D
10190002	SOUTH PLATTE RIVER AT SOUTH PLATTE, CO.	008	059	SW	2579.00	124	1963	1972	E	E		E	USGS	D
10190003	THIRTY-SIXTH STREET STORM SEWER AT DENVER, C	008	031	SW			1975		R			R	USGS	D
10190003	WOMAN CREEK AT ROCKY FLATS PLANT, CO.	008	059	SW	2.10		1972	1973	O				USGS	D
10190005	ST. VRAIN CREEK AT LYONS, CO.	008	013	SW	212.00	124	1965		E	E		E	USGS	D
10190006	BIG THOMPSON RIVER AT ESTES PARK, CO.	008	069	SW	137.00	124	1973	1975	D				USGS	P
10190007	CACHE LA POUDRE R A MO OF CN, NR FT COLLINS,	008	069	SW	1055.00	124	1962		E	E		E	USGS	D
10190009	SOUTH PLATTE RIVER NEAR KERSEY, CO.	008	123	SW	9598.00	124	1947		E	E		E	USGS	D
10190009	1 MILE ABOVE WALLIS PG	056	001	SW			1975		N				USFS	D
10190009	BELOW BLAIR PG	056	001	SW			1975		N				USFS	D
10190009	RES OUTLET AT VEDAUWOO CG	056	001	SW			1975		K				USFS	D
10190009	AT FOREST RD NO 700	056	001	SW			1975		K				USFS	D
10190010	KIOWA CREEK AT ELBERT, CO.	008	039	SW	28.60	004	1957	1965	2			2	USGS	D
10190010	WEST KIOWA CREEK AT ELBERT, CO.	008	039	SW	35.90	004	1961	1965	4			2	USGS	D
10190010	KIOWA CREEK AT KIOWA, CO.	008	039	SW	111.00	024	1955	1965	3			2	USGS	D
10190012	SOUTH PLATTE RIVER NEAR WELDONA, CO.	008	087	SW	13245.00	124	1952		M	Q	A		USGS	P
10190015	LODGEPOLE CR AT POLE CR CAMPGR	056	001	SW			1975		K				USFS	D
10190015	LODGEPOLE CR AT UPPER TIE CITY	056	001	SW			1975	1975	N				USFS	D

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10190018	SOUTH PLATTE RIVER AT JULESBURG, CO.	008	115	SW	23138.00	024	1945		E	E		E	USGS	D
10200101	PLATTE R. AT GOTHENBURG, NEBR. (NORTH CHAN.)	031	047	SW			1971	1971	A	A		A	USGS	D
10200101	PLATTE R. AT GOTHENBURG, NEBR. (MIDDLE CHAN.	031	047	SW			1971	1971	A	A		A	USGS	D
10200101	PLATTE R. AT GOTHENBURG, NEBR. (SOUTH CHAN.)	031	047	SW			1971	1971	A	A		A	USGS	D
10200101	PLATTE R NR OVERTON N CHAN	031	047	SW			1957		E	E		E	USGS	D
10200101	PLATTE R NR OVERTON S CHAN	031	047	SW			1957		E	E		E	USGS	D
10200101	PLATTE RIVER NEAR OVERTON, NEBR. (TOTFLO)	031	047	SW	58400.00	124	1950		5	E		5	USGS	D
10200101	MISSOURI R AT NEBR CITY NE	031	131	SW			1957	1973	E				USCE	D
10200102	WOOD RIVER NEAR RIVERDALE, NEBR.	031	019	SW	379.00		1946	1975	4	E		4	USGS	D
10200103	PLATTE RIVER NEAR DUNCAN, NEBR.	031	141	SW	64900.00	124	1964		E	E		E	USGS	D
10200201	PLATTE RIVER NR. SCHUYLER, NEBR.	031	037	SW		004	1966	1968	A	A		A	USGS	D
10200201	SHELL CREEK NEAR COLUMBUS, NEBR.	031	141	SW	270.00		1948	1975	E	E	E		USGS	D
10200201	SHELL C NR PLATTE CENTER NEBR	031	141	SW			1951	1967	M	M			USCE	P
10200202	PLATTE RIVER AT NORTH BEND, NEBR.	031	053	SW	77800.00	124	1971		Z	Z		E	USGS	D
10200202	PLATTE RIVER NEAR SOUTH BEND, NEBR.	031	025	SW			1960	1972	K	R		K	USGS	D
10200202	MILL CREEK AT LOUISVILLE NEBR	031	025	SW		004	1973		A	A		A	USGS	D
10200202	PLATTE R AT LOUISVILLE NE	031	153	SW	88800.00		1970		O	M	M	O	USGS	D
10200202	CEDAR CREEK NEAR LOUISVILLE NEBR	031	025	SW		004	1973		A	A		A	USGS	D
10200202	FOURMILE CREEK NEAR PLATTSMOUTH, NEBR.	031	025	SW		004	1975		A	A		A	USGS	D
10200202	PLATTE R NR LOUISVILLE NE	031	025	SW			1952	1973	E	E			USCE	P
10200203	SALT CREEK AT LINCOLN, NEBR.	031	109	SW	684.00	014	1951		2	E	E	2	USGS	D
10200203	ROCK CREEK NEAR CERESCO, NEBR.	031	109	SW	119.00	004	1970		A	A		A	USGS	D
10200203	SALT CREEK AT GREENWOOD, NEBR.	031	025	SW	1060.00	014	1970	1978	O	M		O	USGS	D
10200203	BIG BLUE RIVER NEAR CRETE, NEBR.	031	151	SW	2716.00	024	1960		E	E		E	USGS	D
10200203	SALT C AT GREENWOOD NE	031	025	SW			1953	1973	E	E			USCE	
10200203	OAK C NR RAYMOND NEBR	031	109	SW			1964	1967	E	E			USCE	
10210001	MIDDLE LOUP RIVER AT DUNNING, NEBR.	031	009	SW	1760.00	004	1947	1978	4	A		4	USGS	D
10210002	DISMAL RIVER NR THEDFORD NEBR	031	171	SW	960.00	004	1966		E	E		E	USGS	D
10210002	DISMAL RIVER AT DUNNING, NEBR.	031	009	SW	1780.00	014	1948	1975	4	E	E	4	USGS	D
10210003	OAK CREEK NEAR LOUP CITY, NEBR.	031	163	SW	41.90	004	1958	1972	3			3	USGS	D
10210003	MIDDLE LOUP R. AT ST. PAUL, NEBR.	031	093	SW	7720.00	124	1943		4	E	E	4	USGS	D
10210004	SOUTH LOUP R AT ST. MICHAEL, NEBR.	031	019	SW	2350.00	004	1946		4	E	E	4	USGS	D
10210007	NORTH LOUP RIVER AT ORD, NEBR.	031	175	SW	3960.00	024	1949	1955	E	E	E		USGS	P
10210007	NORTH LOUP RIVER NR ST PAUL NEBR	031	093	SW	4290.00	024	1946		4	E	E	4	USGS	D
10210009	LOUP R POWER CA AT DIV NR GENOA, NEBR.	031	125	SW			1971		M	M		E	USGS	D
10210009	LOUP RIVER NEAR GENOA, NEBR.	031	125	SW	14400.00	024	1975		Z	Z	Z	R	USGS	D
10210009	BEAVER CR AT LORETTO NEBR	031	011	SW	311.00	004	1946	1950	O	O			USGS	P
10210010	CEDAR RIVER NEAR SPALDING, NEBR.	031	077	SW	805.00	014	1946	1975	5	E	E	5	USGS	D
10210010	CEDAR R AT BELGRADE NEBR	031	125	SW	1060.00	004	1956	1975	5	M	M	5	USGS	D
10210010	CEDAR RIVER NEAR FULLERTON, NEBR.	031	125	SW	1220.00	014	1957		4			4	USGS	D

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10220001	ELKHORN RIVER NR. INMAN, NEBR.	031	089	SW		004	1965	1968	N	K		N	USGS	D
10220001	ELKHORN RIVER AT EWING, NEBR.	031	089	SW	1400.00	004	1948		E	E	E		USGS	D
10220001	SOUTH FORK ELKHORN RIVER AT EWING, NEBR.	031	089	SW	320.00	004	1960	1968	E	E		E	USGS	D
10220001	CLEARWATER C NR CLEARWATER NEBR	031	003	SW	210.00	004	1962	1968	M	M	M		USGS	D
10220001	ELKHORN RIVER AT NELIGH, NEBR.	031	003	SW	2200.00	004	1948		E	E		E	USGS	D
10220001	ELKHORN R AT MEADOW GROVE NEBR	031	119	SW	2500.00	004	1963	1968	E	E		E	USGS	D
10220001	ELKHORN RIVER NEAR NORFOLK, NEBR.	031	119	SW	2790.00	004	1960		A	E		A	USGS	D
10220002	NORTH FORK ELKHORN RIVER NEAR PIERCE, NEBR.	031	139	SW	520.00	004	1960	1978	E	E	E		USGS	P
10220002	NF ELKHORN R. AT NORFOLK, NEBR.	031	119	SW		004	1965	1968	R	K		R	USGS	D
10220003	ELKHORN R AT WATERLOO NE	031	055	SW	6900.00	004	1948		M	M	Z	E	USGS	D
10220004	LOGAN CREEK PENDER NEBRASKA	031	173	SW	731.00	004	1964		E	E		E	USGS	D
10230002	FLOYD RIVER AT JAMES, IOWA	019	149	SW	882.00	004	1967	1975	2	E		2	USGS	D
10230003	LITTLE SIOUX RIVER NEAR GILLETT GROVE, IOWA	019	041	SW	1334.00	004	1968	1973	E			E	USGS	D
10230003	LITTLE SIOUX RIVER AT CORRECTIONVILLE, IOWA	019	193	SW	2500.00	004	1950	1973	2	E	E	2	USGS	D
10230003	LITTLE SIOUX RIVER AT KENNEBEC, IOWA	019	133	SW	2730.00	004	1950	1969				2	USGS	D
10230003	L SIOUX R NR TURIN IOWA	019	133	SW			1939	1969	M	M			USCE	P
10230004	WF DITCH NR HOLLY SPRINGS IOWA	019	193	SW			1957	1967	M	M			USCE	P
10230004	WOLF C NR HOLLY SPRINGS IOWA	019	193	SW			1957	1967	M	M			USCE	
10230004	MONONA HARRISON D NR TURIN IOWA	019	133	SW			1939	1969	M	M			USCE	P
10230005	GINGLES WATCRSHEDS	019	133	SW			1963		Y				IA007	
10230006	STEER CREEK NEAR MAGNOLIA, IA.	019	085	SW	9.26	004	1962	1969	2	A		2	USGS	D
10230006	WILLOW CREEK NEAR LOGAN, IOWA	019	085	SW	129.00		1970	1975	2	A		2	USGS	D
10230006	MISSOURI RIVER AT OMAHA, NEBRASKA	031	055	SW	322800.00	014	1969	1978	O	M		O	USGS	D
10230006	WB PAPILLION NR PAPILLION NEBR	031	153	SW			1965		W	W			USCE	
10230006	L PAPILLION C AT IRVINGTON NEBR	031	055	SW			1965		W	W			USCE	
10230006	BIG PAPILLION C AT FORT ST OMAHA	031	055	SW			1965		W	W			USCE	
10230006	INDIAN C N BROWY COUNCIL BLUFFS IA	019	155	SW			1956	1967	M	M			USCE	
10230006	MISSOURI R AT OMAHA NE	031	055	SW			1939	1973	E	E			USCE	D
10230006	L PAPILLION C A PEONY PARK OMAHA NE	031	055	SW			1956	1969	M	M			USCE	
10230007	BOYER RIVER AT LOGAN, IOWA	019	085	SW	871.00	004	1945	1973	H	E		H	USGS	D
10230007	THOMPSON CREEK AT WOODBINE, IA.	019	085	SW	6.97	004	1962	1969	2	A		2	USGS	D
10230007	BOYER RIVER AT DELOIT IA	019	047	SW			1968		W	W	W		USCE	P
10230007	E F BOYER RIVER NR DENISON IA	019	047	SW			1968		W	W	W		USCE	P
10240001	WEEPING WATER CR AT WEEPING WATER, NEBR.	031	025	SW	80.10	004	1973		E	E		E	USGS	D
10240001	S BR WEEPING WATER CREEK NEAR UNION NEBR	031	025	SW		004	1973		A	A		A	USGS	D
10240001	WEEPING WATER CREEK AT UNION, NEBR.	031	025	SW	238.00	004	1973	1978	A	A		A	USGS	D
10240001	WEEPING WATER C NR UNION, NEBR.	031	025	SW		004	1971		E	E		E	USGS	D
10240001	MISSOURI RIVER AT NEBRASKA CITY, NEBR.	031	131	SW	410000.00	014	1950		O	Q	Q	O	USGS	D
10240001	WEST NISHNABOTNA RIVER AT RANDOLPH, IOWA	019	071	SW	1326.00	004	1965	1973	K			K	USGS	D
10240001	MISSOURI RIVER AT NEBRASKA CITY,	031	131	SW			1976		M	H		M	USGS	D

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10240002	MULE C NR MALVERN IA	019	129	SW	10.60	004	1955	1969	2	R		2	USGS	D
10240003	DAVIDS CREEK NEAR HAMLIN, IOWA	019	009	SW	26.00	004	1952	1973	2	E		2	USGS	D
10240003	EAST NISHNABOTNA RIVER NEAR RED OAK, IOWA	019	137	SW	894.00		1945	1973	2	K		2	USGS	D
10240004	NISHNABOTNA RIVER ABOVE HAMBURG, IOWA	019	071	SW	2806.00	004	1945		A	A		A	USGS	D
10240005	TARKIO RIVER AT STANTON, IOWA	019	137	SW	49.30	004	1966	1973	E			E	USGS	D
10240005	WOLF R AT LEONA, KS	020	043	SW	160.00	004	1976		K	R		K	USGS	D
10240005	WOLF R NR SPARKS, KS	020	043	SW	220.00		1976		R	R		R	USGS	D
10240006	LITTLE NEMAHA RIVER NEAR SYRACUSE, NEBR.	031	131	SW	218.00	004	1956	1975	4			4	USGS	D
10240006	BROWNELL C SUBWATERSHED 1A NR SYRACUSE NEBR	031	131	SW	.19	004	1955	1975	2	C		2	USGS	D
10240006	BROWNELL C SUBWATERSHED 1 NR SYRACUSE NEBR	031	131	SW	.77	004	1955	1975	2	C		2	USGS	D
10240007	TURKEY C NR SENECA, KS	020	131	SW	276.00	004	1949	1965	E	E	E		USGS	P
10240008	SPRING C NR FAIRVIEW, KS	020	013	SW		004	1964	1970	A	E		A	USGS	D
10240008	WALNUT C NR FAIRVIEW, KS	020	013	SW	27.00		1976		K	R		K	USGS	D
10240008	MULBERRY C NR FAIRVIEW, KS	020	013	SW		004	1964	1971	A	E		A	USGS	D
10240008	TERRAPIN C AT HAMLIN, KS	020	013	SW		004	1964	1972	A	E		A	USGS	D
10240008	WALNUT C AT RESERVE, KS	020	013	SW	111.00	004	1962		K	R		K	USGS	D
10240008	NEMAHA R FALLS CITY NEB	031	147	SW			1949	1968	W	M			USCE	P
10240009	NODAWAY RIVER AT CLARINDA, IOWA	019	145	SW	762.00		1969		O	Q	M	O	USGS	D
10240010	BURLINGTON JUNCTION NODAWAY R	029	147	SW			1969		O	B	B		USCE	
10240010	PLATTE RIVER NEAR DIAGONAL, IOWA	019	159	SW	217.00	004	1968	1973	R	E		R	USGS	D
10240011	MISSOURI RIVER AT ST. JOSEPH, MO.	029	021	SW	420300.00		1969		H	H		H	USGS	D
10240011	MISSOURI R ST JOSEPH MO	029	021	SW			1948		W	M			USCE	P
10240012	L PLATTE R SMITHVILLE MAIN STREET M	029	165	SW			1965	1972	W	M			USCE	P
10250001	ARIKAREE RIVER AT HAIGLER, NEBR.	031	057	SW	1640.00	024	1946	1975	2	E		2	USGS	D
10250002	NORTH FORK REPUBLICAN RIVER NEAR WRAY, CO.	008	125	SW	1019.00	024	1961	1975	2			2	USGS	D
10250002	S.F. REPUBLICAN R NR BENKELMAN NEB	031	057	SW			1961	1967	W	M			USCE	P
10250003	SF REPUBLICAN R NR CO-KS ST LINE, KS	020	023	SW	1860.00	014	1946	1950	E	E			USGS	
10250004	REPUBLICAN RIVER AT STRATTON, NEBR.	031	087	SW	8450.00	124	1949	1975	E	E			USGS	P
10250004	REPUBLICAN RIVER AT TRENTON, NEBR.	031	087	SW	8620.00	124	1946		2	E		2	USGS	D
10250005	ENDERS RESERVOIR NEAR ENDERS, NEBR.	031	029	SW	950.00	124	1945	1971	2			2	USGS	D
10250005	FRENCHMAN CREEK NEAR ENDERS, NEBR.	031	029	SW	950.00	124	1946	1964	E	E	E		USGS	P
10250005	FRENCHMAN R NR WAUNETA NE	031	029	SW		004	1963	1967	M	M	M		USGS	D
10250005	FRENCHMAN CREEK AT PALISADE, NEBR.	031	085	SW	1110.00	124	1962	1978	2	E		2	USGS	D
10250005	FRENCHMAN CREEK AT CULBERTSON, NEBR.	031	087	SW	2770.00	124	1947		3			3	USGS	D
10250006	STINKING WATER CREEK NEAR PALISADE, NEBR.	031	085	SW	1500.00		1963	1978	H	N		H	USGS	D
10250007	RED WILLOW CREEK NEAR RED WILLOW, NEBR.	031	145	SW	830.00	124	1949	1975	2	E	E	2	USGS	D
10250008	MEDICINE CREEK AT MAYWOOD, NEBR.	031	063	SW	259.00	004	1950	1975	2	E		2	USGS	D
10250008	BRUSHY CREEK NEAR MAYWOOD, NEBR.	031	063	SW	130.00	004	1950	1975	2	E		2	USGS	D
10250008	DRY CREEK NEAR CURTIS, NEBR.	031	063	SW	21.70	004	1958	1975	4			2	USGS	D
10250008	MEDICINE CREEK ABOVE HARRY STRUNK LAKE, NEBR	031	063	SW	770.00	004	1951	1975	2	E	E	2	USGS	D

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10250008	MITCHELL CREEK ABOVE HARRY STRUNK LAKE, NEBR	031	063	SW	52.00	004	1951	1975	4	P		2	USGS	D
10250008	MEDICINE CREEK BELOW HARRY STRUNK LAKE, NEBR	031	063	SW	880.00		1970	1975	E				USGS	D
10250008	MEDICINE CREEK AT CAMBRIDGE, NEBR.	031	065	SW	1070.00	004	1944	1975	2			2	USGS	D
10250009	REPUBLICAN RIVER AT CAMBRIDGE, NEBR.	031	065	SW	14520.00	124	1947	1953	E				USGS	P
10250009	REPUBLICAN RIVER NEAR ORLEANS, NEBR.	031	083	SW	15640.00	124	1946		2	E		2	USGS	D
10250009	REPUBLICAN R NR ORLEANS NEB	031	083	SW			1948	1970	W	M			USCE	P
10250009	REPUBLICAN R NR CAMBRIDGE NEB	031	065	SW			1961	1967	W	M			USCE	P
10250010	SF SAPPA C NR BREWSTER, KS	020	181	SW	74.00	004	1968	1975	A	A		A	USGS	D
10250010	SF SAPPA C TR NR GOODLAND, KS	020	181	SW	4.98	004	1968	1968	A	A		A	USGS	D
10250010	SF SAPPA C NR ACHILLES, KS	020	039	SW	446.00	004	1962	1975	A			A	USGS	D
10250011	SAPPA C NR OBERLIN, KS	020	039	SW	1063.00	004	1951	1971	2	R		2	USGS	D
10250011	SAPPA CREEK NEAR BEAVER CITY, NEBR.	031	065	SW	1510.00	004	1946	1975	2	O		2	USGS	D
10250011	SAPPA CREEK NEAR STAMFORD, NEBR.	031	083	SW	3740.00		1946	1975	2			2	USGS	D
10250014	BEAVER C AT LUDELL, KS	020	153	SW	1460.00	004	1965	1974	A			A	USGS	D
10250014	BEAVER C AT CEDAR BLUFFS, KS	020	039	SW	1618.00	004	1958	1975	2	M		2	USGS	D
10250014	BEAVER CREEK NEAR BEAVER CITY, NEBR.	031	065	SW	1950.00	004	1949	1975	2	E		2	USGS	D
10250015	PRAIRIE DOG C AB NORTON RE, KS	020	137	SW	590.00	004	1963		M	M			USGS	P
10250015	PRAIRIE DOG C AT NORTON, KS	020	137	SW	684.00	014	1947	1975	2	E			USGS	D
10250016	WHITE ROCK C NR BURR OAK, KS	020	089	SW	227.00	004	1961		M	A			USGS	D
10250016	WHITE ROCK C AT LOVEWELL, KS	020	089	SW	345.00	014	1948	1975	2	E		2	USGS	D
10250016	REPUBLICAN R GUIDE ROCK NEB	031	181	SW			1961	1968	W	M			USCE	P
10250016	REPUBLICAN RIVER NR BLOOMINGTON NEB	031	061	SW			1942	1968	W	M			USCE	P
10250017	REPUBLICAN R AT SCANDIA, KS	020	157	SW	22903.00	014	1956	1971	2	A		2	USGS	D
10250017	BUFFALO C NR JAMESTOWN, KS	020	029	SW	330.00	004	1961		A			A	USGS	D
10250017	REPUBLICAN R AT CLAY CENTER, KS	020	027	SW	24542.00	014	1956		2			2	USGS	D
10250017	SALT C NR ADA, KS	020	143	SW	384.00	004	1963	1978	R	A		R	USGS	D
10250017	SALT C NR ADA KANS	020	143	SW			1970		W	B	B		USCE	
10250017	REPUBLICAN R CLAY CENTER KAN	020	027	SW			1948		W	M			USCE	P
10250017	REPUBLICAN R NR CONCORDIA KAN	020	029	SW			1961	1968	W	M			USCE	P
10250017	BUFFALO C NR JAMESTOWN KA	020	029	SW			1970		W	B	B		USCE	
10260002	NF SMOKY HILL R NR MCALLASTER, KS	020	109	SW	670.00	004	1966		M	A			USGS	D
10260003	SMOKY HILL R NR ARNOLD, KS	020	195	SW	5220.00	004	1966		A			A	USGS	D
10260004	LADDER C BL CHALK C NR SCOTT CITY, KS	020	109	SW	1460.00	004	1958		M	A	E		USGS	P
10260005	SB HACKBERRY C NR ORION, KS	020	063	SW	49.60	004	1964	1968	A	E		A	USGS	D
10260006	SMOKY HILL R NR ELLIS, KS	020	051	SW	5630.00	004	1944	1975	2	E		2	USGS	D
10260006	SMOKY HILL R NR RUSSELL, KS	020	167	SW	6965.00	004	1941	1974	E	E			USGS	P
10260006	SMOKY HILL R NR BUNKER HILL, KS	020	167	SW	7075.00		1974		A	A		A	USGS	D
10260006	SMOKY HILL R AT ELLSWORTH, KS	020	053	SW	7580.00	004	1949	1975	E	E	E		USGS	P
10260006	SMOKY HILL R ELLSWORTH KAN	020	053	SW			1942	1967	W	M			USCE	P
10260006	SALINE R NR RUSSELL KAN	020	167	SW			1964	1970	W	M			USCE	P

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10260007	BIG C NR OGALLAH, KS	020	195	SW	297.00	004	1954	1968	2	E		2	USGS	D
10260007	BIG C NR HAYS, KS	020	051	SW	542.00	004	1961		M	A			USGS	D
10260007	NF BIG C NR VICTDRIA KS	020	051	SW	54.00	004	1975		M	A			USGS	D
10260008	SMOKY HILL R AT LINDSBORG, KS	020	113	SW	8110.00	014	1951	1958	E	E			USGS	P
10260008	SMOKY HILL R AT NEW CAMBRIA, KS	020	169	SW	11730.00	014	1961		2	E	E	2	USGS	D
10260008	GYPSUM C NR GYPSUM, KS	020	169	SW	120.00	004	1964	1978	E	E		E	USGS	D
10260008	MUD C AT ABILENE, KS	020	041	SW	87.00	004	1973	1973	A			A	USGS	D
10260008	TURKEY C NR ABILENE, KS	020	041	SW	143.00	004	1957	1978	4	E		4	USGS	D
10260008	SMOKY HILL R AT ENTERPRISE, KS	020	041	SW	19260.00	014	1909		2	Q	A	2	USGS	D
10260008	CHAPMAN C NR CHAPMAN, KS	020	041	SW	300.00	004	1957		5	A		5	USGS	D
10260008	LYON C NR WOODBINE, KS	020	061	SW	230.00	004	1957	1971	4	E		4	USGS	D
10260008	LYON C NR WOODBINE KAN	020	061	SW			1963	1969	W	M			USCE	P
10260008	CHAPMAN C NR CHAPMAN KANS	020	041	SW			1970		W	B	B		USCE	
10260009	SALINE R NR WAKEENEY, KS	020	195	SW	696.00	004	1954	1966	2	E		2	USGS	D
10260009	SALINE R NR RUSSELL, KS	020	167	SW	1502.00	014	1945	1975	2	A	E	2	USGS	D
10260009	PARADISE C NR PARADISE, KS	020	167	SW	212.00	004	1946	1971	2	E		2	USGS	D
10260009	SALINE R NR WILSON, KS	020	167	SW	1900.00	004	1940	1975	E	E			USGS	P
10260010	WOLF C NR SYLVAN GROVE, KS	020	105	SW	261.00	004	1947	1975	2	E		2	USGS	D
10260010	NB SPILLMAN C NR ASH GROVE, KS	020	105	SW	26.10	004	1971	1971	A	A		A	USGS	D
10260010	SALINE R AT TESCOTT, KS	020	143	SW	2820.00	014	1948	1975	2	M	A	2	USGS	D
10260010	MULBERRY C NR SALINA, KS	020	169	SW	250.00	004	1961	1970	E			E	USGS	D
10260010	SALINE RIVER NR SYLVAN GROVE KAN	020	105	SW			1964		W				USCE	
10260011	NF SOLOMON R AT GLADE, KS	020	147	SW	849.00	004	1971		M	A			USGS	D
10260011	SF SOLOMON R AB WEBSTER RE, KS	020	163	SW	1040.00	004	1958	1975	4	A		4	USGS	D
10260012	NF SOLOMON R AT KIRWIN, KS	020	147	SW	1367.00	014	1945	1975	2	E		2	USGS	D
10260012	DEER C NR PHILLIPSBURG, KS	020	147	SW	65.00	004	1967		M	A			USGS	D
10260012	M BEAVER C NR SMITH CENTER, KS	020	183	SW	71.00	004	1963	1968	K	R		K	USGS	D
10260012	PORTIS KAN NF SOLOMON R PORTIS KAN	020	141	SW			1961	1968	W	M			USCE	P
10260014	SF SOLOMON R AT ALTON, KS	020	141	SW	1720.00	014	1946	1975	2	E		2	USGS	D
10260014	KILL C NR BLOOMINGTON, KS	020	141	SW	52.00	004	1975		M	A			USGS	D
10260014	S F SOLOMON R OSBORNE KAN	020	141	SW			1962	1968	W	M			USCE	P
10260015	SOLOMON R AT BELOIT, KS	020	123	SW	5530.00	014	1948	1965	2	E		2	USGS	D
10260015	M PIPE C NR MILTONVALE, KS	020	029	SW	10.20	004	1968	1973	A			A	USGS	D
10260015	SOLOMON R AT NILES, KS	020	143	SW	6770.00	014	1909		6	A		6	USGS	D
10270101	CLARK C NR JUNCTION CITY, KS	020	061	SW	200.00	004	1957	1975	3			3	USGS	D
10270102	KANSAS R AT WAMEGO, KS	020	149	SW	55280.00	014	1955	1975	2	A	A	2	USGS	D
10270102	VERMILLION C NR WAMEGO, KS	020	149	SW	243.00	004	1957	1971	2	A		2	USGS	D
10270102	VERMILLION C NR LOUISVILLE KS	020	149	SW	297.00	004	1972	1974	A	E		A	USGS	D
10270102	SOLDIER C NR GOFF, KS	020	131	SW	2.06	004	1968		A	A		A	USGS	D
10270102	SOLDIER C NR BANCROFT, KS	020	131	SW	10.50	004	1968		A	A		A	USGS	D

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10270102	SOLDIER C NR SOLDIER, KS	020	085	SW	16.90	004	1968		A	A		A	USGS	D
10270102	SOLDIER C NR CIRCLEVILLE, KS	020	085	SW	49.30	004	1967		R	A		R	USGS	D
10270102	SOLDIER C NR ST. CLERE, KS	020	085	SW	80.00	004	1967	1978	A	E		A	USGS	D
10270102	SOLDIER C NR DELIA, KS	020	177	SW	157.00	004	1965		Q	A			USGS	P
10270102	SOLDIER C NR DELIA KAN	020	177	SW			1963	1970	W	M			USCE	P
10270102	MILL C NR PAXICO KA	020	197	SW			1970		W	B	B		USCE	
10270103	ARRINGTON DELAWARE R	020	005	SW			1969	1969	W	B	B		USCE	P
10270103	L DELAWARE R NR HORTON, KS	020	013	SW	19.00	004	1976		A	A		A	USGS	D
10270103	L GRASSHOPPER C NR EFFINGHAM, KS	020	005	SW	22.00		1976		K	R		K	USGS	D
10270103	DELAWARE R NR MUSCOTAH, KS	020	005	SW	431.00	004	1969		R	R		R	USGS	D
10270103	DELAWARE R AT VALLEY FALLS, KS	020	087	SW	922.00	004	1956	1967	5	E		5	USGS	D
10270103	DELAWARE R NR MUSCOTAH KS	020	005	SW			1970		W	B	B		USCE	P
10270104	YANKEE TANK C NR LAWRENCE, KS	020	045	SW	3.90	004	1968	1975	E	E			USGS	P
10270104	WAKARUSA R NR LAWRENCE, KS	020	045	SW	425.00	004	1957	1971	5			5	USGS	D
10270104	STRANGER C NR TONGANOXIE, KS	020	103	SW	406.00	004	1956		5	E		5	USGS	D
10270104	KANSAS R AT DESOTO, KS	020	103	SW	59756.00	014	1973		3	E		E	USGS	D
10270104	CEDAR C NR CEDAR JUNCTION, KS	020	091	SW	38.90	004	1965	1968	Q			Q	USGS	D
10270104	KANSAS R AT BONNER SPRINGS, KS	020	209	SW	59928.00	014	1949	1975	E	E			USGS	P
10270104	TURKEY C AT KANSAS CITY KS	020	209	SW	22.30	004	1974	1974	A			A	USGS	D
10270104	KANSAS R BONNER SPRINGS KAN	020	209	SW			1949		W	M			USCE	P
10270104	KANSAS R AT DESOTA KANSAS	020	103	SW			1973		W	M	M		USCE	P
10270104	KANSAS R AT LECOMPTON KANSAS	020	087	SW			1974		W	M	M		USCE	
10270104	STRANGER C NR TONGANOXIE KS	020	103	SW			1964	1971	W	B	B		USCE	P
10270104	WAKARUSA R NR LAWRENCE KAN	020	045	SW			1963	1970	W	M			USCE	P
10270201	SEWARD LINCOLN CR	031	159	SW			1967		O	B			USCE	
10270201	BIG BLUE RIVER AT SURPRISE, NEBR.	031	023	SW	345.00	004	1965		E	E		E	USGS	D
10270201	LINCOLN CREEK NEAR SEWARD, NEBR.	031	159	SW	446.00	004	1963		E	E		E	USGS	D
10270202	BIG BLUE R AT BEATRICE NEBR	031	067	SW	3901.00	004	1960		Z	Z		Z	USGS	D
10270202	LITTLE BLUE RIVER NEAR FAIRBURY, NEBR.	031	095	SW	2350.00	004	1951	1968	4	M	M	4	USGS	D
10270202	BIG BLUE R NR CRETE NEB	031	151	SW			1964	1970	W	M			USCE	P
10270202	TURKEY C NR WILBER NEBR	031	151	SW			1970		W	B	B		USCE	
10270203	DORCHESTER WF BIG BLUE R	031	159	SW			1967		O		B		USCE	
10270203	WEST FORK BIG BLUE RIVER NR DORCHESTER, NEBR	031	159	SW	1206.00	004	1963		E	E		E	USGS	D
10270204	TURKEY CREEK NEAR WILBER, NEBR.	031	151	SW	460.00	024	1965		E	E		E	USGS	D
10270205	BIG BLUE R AT BARNESTON NEBR	031	067	SW	4444.00	124	1957	1971	4			4	USGS	D
10270205	BLACK VERMILLION R NR FRANKFORT, KS	020	117	SW	410.00	004	1958	1978	5	A		5	USGS	D
10270205	BIG BLUE R AT RANDOLPH, KS	020	161	SW	9100.00	004	1949	1957	E	E			USGS	P
10270205	BIG BLUE R NR MANHATTAN, KS	020	161	SW	9640.00	014	1954		N			N	USGS	D
10270205	FANCY C AT WINKLER, KS	020	161	SW			1971	1971	A	A		A	USGS	D
10270205	BIG BLUE R BARNESTON NEB	031	067	SW			1959	1972	W	M			USCE	P

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10270206	LITTLE BLUE RIVER NEAR DEWEESE, NEBR.	031	129	SW	979.00	004	1954		2	M	M	2	USGS	D
10270207	LITTLE BLUE R AT HOLLENBERG, KS	020	201	SW		004	1972		E	E		E	USGS	D
10270207	L BLUE R NR BARNES, KS	020	201	SW	3324.00	004	1962		R	A		R	USGS	D
10270207	L BLUE R NR BARNES KS	020	177	SW			1959	1971	W	B	B		USCE	P
10270207	MILL C AT WASHINGTON KANS	020	201	SW			1970		W	B	B		USCE	
10280101	SHOAL C NR BRAYMER MO	029	025	SW			1963	1969	W	M			USCE	P
10280102	ELK CREEK NEAR DECATUR CITY, IOWA	019	053	SW	52.50	004	1967		M	A		6	USGS	D
10280102	THOMPSON R AT DAVIS CITY IOWA	019	053	SW	701.00	004	1945	1973	O	Q	A	2	USGS	D
10280102	WELDON R NR LEON IOWA	019	053	SW	104.00	004	1968	1973	E			E	USGS	D
10280102	THOMPSON R NR MT MORAIH MO	029	129	SW			1963	1969	W	M			USCE	P
10280102	WELDON R MILL GROVE MO	029	129	SW			1963	1971	W	M	E		USCE	P
10280103	GRAND RIVER NEAR SUMNER MO	029	117	SW	6880.00		1962		M	M		M	USGS	D
10280103	W YELLOW C BROOKFIELD MO	029	115	SW			1964	1969	E	E			USCE	P
10280103	LOCUST C NR LINNEUS MO	029	115	SW			1963	1969	E	E			USCE	P
10280103	MEDICINE C NR GALT MO	029	211	SW			1970		W	B	B		USCE	
10280201	PROMISE CITY SF CHARITON R	019	185	SW			1969		O	B	B		USCE	
10280201	CHARITON RIVER NEAR CHARITON, IOWA	019	117	SW	182.00	004	1968	1973	2	A		2	USGS	D
10280201	HONEY CR. NR RUSSELL, IOWA	019	117	SW	13.20	004	1952	1975	3	Q		2	USGS	D
10280201	SOUTH FORK CHARITON RIVER NEAR PROMISE CITY,	019	185	SW	168.00	004	1965	1973	E			E	USGS	D
10280201	CHARITON RIVER NEAR RATHBUN, IOWA	019	007	SW	549.00	014	1961	1973	2	E		2	USGS	D
10280202	MUSSEL FORK MUSSEL FORK CHARITON R	029	041	SW			1969		O	B	B		USCE	
10280203	E FK L CHARITON R HUNTSVILLE MO	029	175	SW			1963	1970	W	M			USCE	P
10290101	GARNETT POTTAWATOMIE C	020	003	SW			1968		W	B	B		USCE	P
10290101	POTTAWATOMIE C NR GARNETT, KS	020	003	SW	334.00	004	1963		M	A			USGS	D
10290101	DRAGON C NR BURLINGAME KAN	020	139	SW			1962	1970	W	M			USCE	P
10290101	MARAIS DES CYGNES R MELVERN KAN	020	139	SW			1964	1970	W	M			USCE	P
10290101	MARAIS DES CYGNES R NR READING KS	020	111	SW			1971		W	B	B		USCE	
10290102	MARAIS DES CYGNES R NR KS-MO ST LINE, KS	020	107	SW	3230.00	004	1961	1973	E			E	USGS	D
10290103	L OSAGE R AT FULTON, KS	020	011	SW	295.00	004	1968		A			A	USGS	D
10290103	L OSAGE R AT FULTON KANS	020	011	SW			1970		W	B	B		USCE	
10290104	MARMATON R NR FORT SCOTT, KS	020	011	SW	408.00	004	1949	1975	E	E	E		USGS	P
10290104	COX C 1 MILE S OF ARCADIA, KS	020	037	SW			1976		A			A	USGS	D
10290104	COX C 2 MILES N OF ARCADIA, KS	020	011	SW			1976		A			A	USGS	D
10290106	DADEVILLE SAC R	029	057	SW			1969		O	B	B		USCE	
10290106	STOCKTON DAM	029	039	SW			1969		W				USCE	P
10290107	POMME DE TERRE R NR BOLIVAR MO	029	167	SW			1961	1968	W	M			USCE	P
10290108	S GRAND R AT ARCHIE	029	037	SW			1972		W	B	B		USCE	
10290108	BIG C BLAIRSTOWN MO	029	083	SW			1965		W	M			USCE	P
10290111	OSAGE RIVER BELOW ST. THOMAS, MISSOURI	029	051	SW	14500.00	014	1973		H	H		H	USGS	D
10300101	EXCELIOR SPRINGS EF FISHING R	029	047	SW			1968	1972	O	B			USCE	P

HYDROLOGIC UNIT CODE	STATION NAME AND LOCATION	STATE	COUNTY	TYPE OF SITE	DRAINAGE AREA	BASIN DESCRIPTOR	QW BEGIN YEAR	QW END YEAR	SUSP SED CONCEN	SUSP PART SIZE	BED MAT PART SIZE	SUSP DISCHARGE	ORGANIZATION CODE	SED STOR MEDIA
10300101	KANSAS CITY MO LITTLE BLUE R	029	095	SW			1966		O	B	B		USCE	
10300101	LITTLE BLUE R LONGVIEW RD KS CITY	029	095	SW			1967	1975	W	B	B		USCE	P
10300102	BURGE BRANCH NEAR ARROW ROCK MO	029	053	SW	.33		1960	1975	2			2	USGS	D
10300102	MOREAU R NR JEFFERSON CITY MO	029	051	SW			1965	1972	W	B	B		USCE	P
10300200	MISSOURI RIVER AT HERMANN, MO	029	073	SW	528200.00	124	1967		H	H		H	USGS	D

ARKANSAS-WHITE-RED REGION 11

HYDROLOGIC UNIT CODE	STATION NAME AND LOCATION	STATE	COUNTY	TYPE OF SITE	DRAINAGE AREA	BASIN DESCRIPTOR	QW BEGIN YEAR	QW END YEAR	SUSP SED CONCEN	SUSP PART SIZE	BED MAT PART SIZE	SUSP DISCHARGE	ORGANIZATION CODE	SED STOR MEDIA
110044 B	ALPENA ARK	005	009	SW			1963		B				AR001	P
110044 B	HUNTSVILLE ARK	005	087	SW			1936		B				AR001	P
110044 B	WEST FORK ARK	005	143	SW			1961		B				AR001	P
110044 G	IMBODEN ARK	005	075	SW			1953		B				AR001	P
110044 G	HARDY ARK	005	135	SW			1936		B				AR001	P
110044 I	POCAHONTAS ARK	005	121	SW			1936		B				AR001	P
110044 J	BATESVILLE ARK	005	063	SW			1936		B				AR001	P
110044 K	PANGBURN ARK	005	145	SW			1957		B				AR001	P
110044 K	SEARCY ARK	005	145	SW			1936		B				AR001	P
110044 K	CLINTON ARK	005	141	SW			1953		B				AR001	P
110044 N	MULBERRY ARK	005	033	SW			1935		B				AR001	P
110044 O	DANVILLE ARK	005	149	SW			1937		B				AR001	P
110044 Q	PERRYVILLE ARK	005	105	SW			1960		B				AR001	P
110044 R	DOVER ARK	005	115	SW			1957		B				AR001	P
110044 R	RUSSELLVILLE ARK	005	115	SW			1935		B				AR001	P
110044 R	CONWAY ARK	005	045	SW			1935		B				AR001	P
110045 J	GENTRY ARK	005	007	SW			1935		B				AR001	P
110049 G	DEQUEEN ARK	005	133	SW			1935		B				AR001	P
110049 H	RED R NR DE KALB TX	048	037	SW			1969		O				TX001	C
11010004	WHITE RIVER AT CALICO ROCK, ARK.	005	065	SW	9978.00	014	1962		E	E		E	USGS	D
11010004	NORTH SYLAMORE CREEK NEAR FIFTY SIX, ARK.	005	137	SW	58.10	004	1965		M	A		M	USGS	D
11010006	NORTH FORK R NR TECUMSEH MO	029	153	SW			1945	1969	B	E			USCE	
11010007	CURRENT RIVER ABOVE POWDER MILL	029	203	SW		004	1973		E			E	USGS	D
11010007	BLACK R NR ANNAPOLIS MO	029	179	SW			1939		B				USCE	
11010007	BLACK R AT POPLAR BLUFF MO	029	023	SW			1939		B				USCE	
11010008	JACKS FORK ABOVE TWO RIVERS	029	203	SW		004	1973		E			E	USGS	D
11010008	CURRENT RIVER BELOW HAWES CAMPGROUND	029	035	SW		004	1973		E			E	USGS	D
11010009	BLACK RIVER AT BLACK ROCK, ARK.	005	075	SW	7369.00		1944		E	E		E	USGS	D
11010014	SOUTHEAST WHITE COUNTY - SEARCY	005	145	SW			1972		B				AR001	
11020001	HALFMOON CREEK NEAR MALTA, CO.	008	065	SW	23.60	004	1966		E			E	USGS	D
11020001	ARKANSAS RIVER AT PARKDALE, CO.	008	043	SW	2548.00	124	1967	1978	M	A		M	USGS	D
11020002	BESSEMER DITCH	008	101	CN			1969		M	A			USBR	
11020002	BESSEMER DITCH	008	101	CN			1969		M	M			USBR	
11020002	BESSEMER DITCH	008	101	CN			1969		M	M			USBR	
11020002	BESSEMER D	008	101	CN			1970		M	M			USBR	
11020002	ARKANSAS RIVER AT CANON CITY, CO.	008	043	SW	3117.00	124	1963		E	E		E	USGS	D
11020002	ARKANSAS RIVER NEAR PORTLAND, CO.	008	101	SW	4280.00	124	1964		E	E		E	USGS	D
11020002	ARKANSAS RIVER ABOVE PUEBLO, CO.	008	101	SW	4670.00	124	1965		E	E		E	USGS	D
11020002	ARKANSAS RIVER NEAR PUEBLO, CO.	008	101	SW	4686.00	124	1963		E	E		E	USGS	D
11020003	SOUTH CHEYENNE C AT BROADMOOR COLO	008	041	SW			1966		M	M			C0003	

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11020003	BEAR C NR COLORADO SPRINGS COLO	008	041	SW			1959		A	A			CO003	
11020003	NORTH CHEYENNE C AT BROADMOOR COL	008	041	SW			1966		A	A			CO003	
11020003	BLUE R DIV NR GREEN MTN FALLS COLO	008	119	SW			1956		M	M			CO003	
11020009	PURGATOIRE R NR LAS ANIMAS COLO	008	011	SW			1959		M	M			USCE	
11020009	ARKANSAS R AT LAS ANIMAS COLO	008	011	SW			1959		M	M			USCE	
11030001	ARKANSAS R NR COOLIDGE, KS	020	075	SW	25410.00		1963		E	E		E	USGS	D
11030001	ARKANSAS R AT SYRACUSE, KS	020	075	SW	25763.00	124	1939		M	A		M	USGS	D
11030001	ARKANSAS R AT GARDEN CITY, KS	020	055	SW	27071.00	014	1939	1968	N	E		N	USGS	D
11030002	WHITEWOMAN C NR LEOTI, KS	020	203	SW	750.00	004	1971	1978	A	A		A	USGS	D
11030002	WHITEWOMAN C NR MODOC, KS	020	171	SW		004	1964	1968	A	A		A	USGS	D
11030003	ARKANSAS R AT DODGE CITY, KS	020	057	SW	30600.00	014	1961		Q	A		Q	USGS	D
11030004	ARKANSAS R TR NR DODGE CITY, KS	020	057	SW	8.66	004	1963	1978	A			A	USGS	D
11030004	MULBERRY C NR DODGE CITY, KS	020	057	SW	73.80	004	1975		M	A			USGS	D
11030004	ARKANSAS R NR KINSLEY, KS	020	047	SW	31066.00	014	1958	1978	2	E		2	USGS	D
11030004	WHITEWOMAN C NR BELLEFONT, KS	020	083	SW	14.00	004	1971	1978	A			A	USGS	D
11030004	ARKANSAS R AT GREAT BEND, KS	020	009	SW	34356.00	014	1944	1975	E	E	E		USGS	P
11030005	PAWNEE R TR NR KALVESTA, KS	020	055	SW	6.89	004	1973	1978	A			A	USGS	D
11030005	GUZZLERS GULCH NR NESS CITY, KS	020	135	SW	58.20	004	1963	1978	A	A		A	USGS	D
11030005	PAWNEE R NR LARNED, KS	020	145	SW	2148.00	004	1958		M	Q			USGS	P
11030007	SF WALNUT CR TR NR DIGHTON, KS	020	101	SW	.81	004	1973	1973	A			A	USGS	D
11030007	LONG BRANCH C NR NESS CITY, KS	020	135	SW	28.00	004	1963	1972	A	A		A	USGS	D
11030008	WALNUT C NR RUSH CENTER, KS	020	165	SW	1256.00	004	1976	1976	A			A	USGS	D
11030008	OTTER C NR RUSH CENTER, KS	020	165	SW	17.00	004	1967	1973	A			A	USGS	D
11030008	WALNUT C AT ALBERT, KS	020	009	SW	1410.00	004	1958	1975	2	Q		2	USGS	D
11030008	WALNUT C NR ALBERT, KS	020	009	SW	1500.00	004	1968	1975	A	E		A	USGS	D
11030009	RATTLESNAKE C NR MACKSVILLE, KS	020	185	SW	784.00	004	1962		M	A			USGS	D
11030009	RATTLESNAKE C NR RAYMOND, KS	020	159	SW	1167.00	004	1960	1978	A			A	USGS	D
11030010	ARKANSAS R NR HUTCHINSON, KS	020	155	SW	38910.00	004	1959		2	A		2	USGS	D
11030011	COW C NR CLAFLIN, KS	020	009	SW	43.00	004	1975		M				USGS	D
11030011	BLOOD C NR BOYD, KS	020	009	SW	61.00	004	1967		M	A			USGS	D
11030011	PLUM C NR HOLYROOD, KS	020	053	SW	19.00	004	1971	1971	A	A		A	USGS	D
11030011	COW C NR LYONS, KS	020	159	SW	728.00	004	1939		H	E		H	USGS	D
11030012	L ARKANSAS R AT VALLEY CENTER, KS	020	173	SW	1327.00	004	1944	1975	2	E	E	2	USGS	D
11030013	ARKANSAS R AT WICHITA, KS	020	173	SW	40490.00	014	1958	1971	A	A		A	USGS	D
11030013	ARKANSAS R AT DERBY, KS	020	173	SW	40830.00	014	1961		E	E		E	USGS	D
11030013	STATE C AT WELLINGTON KS	020	191	SW	154.00	004	1975		M	A			USGS	P
11030013	ARKANSAS R AT ARKANSAS CITY, KS	020	035	SW	43713.00	014	1912		2	Q	A	2	USGS	D
11030014	NF NINNESCAH R AB CHENEY RE, KS	020	155	SW	787.00	004	1967		M	E		M	USGS	D
11030015	SF NINNESCAH R NR MURDOCK, KS	020	095	SW	650.00	004	1950	1975	M	A	A		USGS	P
11030016	NINNESCAH R NR PECK, KS	020	191	SW	2129.00	004	1951	1975	M	A	A		USGS	P

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11030017	COLE C NR DEGRAFF, KS	020	015	SW	30.00	004	1962		M	A			USGS	D
11030017	WB WHITEWATER R NR FURLEY, KS	020	015	SW	88.00	004	1966	1969	E	E		E	USGS	D
11030017	WHITEWATER R AT TOWANDA, KS	020	015	SW	426.00	004	1961	1975	M	A	E		USGS	P
11030018	WALNUT R AT WINFIELD, KS	020	035	SW	1872.00	004	1960	1975	2	A		2	USGS	D
11040001	DRY CIMARRON R NR GUY, NM	035	059	SW	545.00	014	1963		M	A			USGS	D
11040001	CIMARRON RIVER NR KENTON, OK	040	025	SW	1106.00	024	1952		N			N	USGS	D
11040001	DRY CIMARRON R NR GUY, NM	035	059	SW			1963	1974	E	E		E	USGS	D
11040003	NF CIMARRON R TR NR ELKHART, KS	020	129	SW	75.00	004	1971	1971	A			A	USGS	D
11040003	NF CIMARRON R AT RICHFIELD KS	020	129	SW	463.00	004	1975		M	A			USGS	P
11040003	NF CIMARRON R NR ULYSSES, KS	020	067	SW	1640.00	004	1962	1972	A	A		A	USGS	D
11040005	BEAR C NR JOHNSON, KS	020	187	SW	835.00	004	1971	1978	R	A		R	USGS	D
11040006	CIMARRON R AT LIBERAL, KS	020	175	SW	7452.00	004	1938	1975	A	E		A	USGS	D
11040006	CIMARRON RIVER NR FORGAN, OK	020	119	SW	8536.00	024	1967	1974	A	E		A	USGS	D
11040006	CIMARRON RIVER NR MOCANE, OK	040	007	SW	8670.00	024	1944		S	A		S	USGS	D
11040007	CROOKED C NR NYE, KS	020	119	SW	1157.00	004	1944		S	E		S	USGS	D
11040008	KIGER C NR ASHLAND, KS	020	025	SW	34.00	004	1973	1973	A			A	USGS	D
11040008	CIMARRON RIVER NR BUTTERMILK, KS	020	033	SW	11120.00	004	1972		A	A		A	USGS	D
11040008	BLUFF C NR PROTECTION, KS	020	033	SW	303.00	004	1962	1970	E	E		E	USGS	D
11040008	CAVALRY C AT COLDWATER, KS	020	033	SW	39.00	004	1963		Q	E		Q	USGS	D
11040008	BLUFF CREEK NR BUTTERMILK, KS	020	033	SW	657.00	004	1972		E	E			USGS	D
11050001	CIMARRON RIVER NR BUFFALO, OK	040	151	SW	11930.00	024	1959		E	E		E	USGS	D
11050002	TURKEY CREEK NR DRUMMOND, OK	040	047	SW	248.00	004	1946		O				USGS	
11050003	CIMARRON RIVER AT PERKINS, OK	040	119	SW	17852.00		1951		R	R		R	USGS	D
11050003	STILLWATER CREEK AT STILLWATER, OK	040	119	SW	168.00	004	1934	1937	O				USGS	P
11050003	WEST FORK BRUSH CREEK NR STILLWATER, OK	040	119	SW	13.10	004	1934	1937	O				USGS	
11050003	COUNCIL CREEK NR STILLWATER, OK	040	119	SW	31.00	004	1934	1944	O				USGS	P
11060003	MEDICINE LODGE R NR KIOWA, KS	020	007	SW	903.00	004	1953		M	A	E		USGS	P
11060005	CHIKASKIA R NR CORBIN KS	020	191	SW	794.00	004	1950	1978	2	A		2	USGS	D
11070101	VERDIGRIS R NR MADISON KS	020	073	SW	181.00		1956		M				USCE	
11070101	VERDIGRIS R NR ALTOONA KANS	020	205	SW	1138.00		1940		B				USCE	
11070102	FALL R NR FALL RIVER KANS	020	073	SW	585.00		1940		B				USCE	
11070103	BIG HILL C NR CHERRYVALE KANS	020	099	SW	37.00		1958		M				USCE	
11070104	ELK R AT ELK FALLS, KS	020	049	SW	220.00		1962		A			A	USGS	D
11070105	VERDIGRIS RIVER NR SAGEEYAH, OK	040	131	SW	4042.00	004	1944	1959	M				USGS	
11070105	VERDIGRIS RIVER NR INOLA, OK	040	131	SW	7911.00		1946	1972	O				USGS	D
11070105	NEWT GRAHAM LOCK AND DAM NR INOLA, OK	040	131	SW		001	1970		R	R		R	USGS	D
11070105	VERDIGRIS R NR CLAREMORE OK	040	131	SW	6534.00	014	1947	1959	O				USCE	
11070106	DOUBLE CREEK SWS 5 NR RAMONA, OK	040	147	SW	2.39	014	1964	1969	M	M			USGS	P
11070106	CANEY R NR ELGIN KANS	020	019	SW	445.00		1940		O				USCE	
11070201	NEOSHO R NR AMERICUS, KS	020	111	SW	622.00	014	1963	1975	A			A	USGS	D

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11070205	NEOSHO R NR PARSONS, KS	020	099	SW	4905.00	014	1958		K			K	USGS	D
11070205	LIGHTNING C NR MCCUNE, KS	020	021	SW	197.00	004	1940		N			N	USGS	D
11070205	DEER C NR WEST MINERAL, KS	020	021	SW	1.50		1976		A			A	USGS	D
11070205	DEER C NR HALLOWELL, KS	020	021	SW	7.00		1976		K			K	USGS	D
11070205	DEER C NR OSWEGO, KS	020	021	SW	12.00		1976		A			A	USGS	D
11070205	LIGHTNING C NR OSWEGO, KS	020	021	SW	250.00		1976		R			R	USGS	D
11070205	CHERRY C NR WEST MINERAL, KS	020	021	SW	27.00		1976		K			K	USGS	D
11070205	L CHERRY C NR WEST MINERAL, KS	020	021	SW	34.00		1976		K			K	USGS	D
11070205	CHERRY C NR HALLOWELL, KS	020	021	SW	90.00		1905		K			K	USGS	D
11070206	NEOSHO RIVER NR COMMERCE, OK	040	115	SW	5876.00	014	1944		O				USGS	D
11070207	FIRST COW C AT FRONTENAC, KS	020	037	SW	30.00		1976		S	A		S	USGS	D
11070207	EAST COW C AT FRONTENAC, KS	020	037	SW	7.50		1976		S			S	USGS	D
11070207	EAST COW C NR PITTSBURG, KS	020	037	SW	43.00		1976		K			K	USGS	D
11070207	COW C NR WEIR, KS	020	021	SW	170.00		1975		K	A		K	USGS	D
11070207	BRUSH C NR WEIR, KS	020	021	SW	30.00		1976		A			A	USGS	D
11070207	CENTER CREEK NEAR FIDELITY, MO	029	097	SW		004	1976	1976	A			A	USGS	D
11070207	CENTER CREEK NEAR SMITHFIELD, MO.	029	097	SW		004	1964		A			A	USGS	D
11070207	TURKEY CREEK AT DUNWEG, MO	029	097	SW			1976	1976	A			A	USGS	D
11070207	TURKEY CREEK NEAR JOPLIN, MO	029	097	SW	41.80	023	1963		A			A	USGS	D
11070207	SPRING RIVER NR QUAPAW, OK	040	115	SW	2510.00	014	1944		O				USGS	
11070207	COW C NR LAWTON, KS	020	021	SW			1976		A			A	USGS	D
11070208	ELK RIVER NR TIFF CITY, MO	029	119	SW	872.00	004	1946		O				USGS	D
11070209	NEOSHO R NR WAGONER OK	040	021	SW	12307.00	004	1947	1975	O				USCE	
11080001	CHICORICA CREEK NEAR HEBRON, NM	035	007	SW	381.00	004	1949		C	C			USGS	P
11080001	VERMEJO RIVER NEAR DAWSON, NM	035	007	SW	301.00	004	1964		E			E	USGS	D
11080003	CANADIAN R NR TAYLOR SPRINGS, NM	035	007	SW	2850.00	014	1966	1975	H	N		H	USGS	D
11080003	CANADIAN RIVER NEAR SANCHEZ, NM	035	047	SW	6015.00	014	1938		E	E		E	USGS	D
11080006	CANADIAN RIVER ABOVE NM-TX STATE LINE, NM	035	037	SW		004	1969		H	Q		H	USGS	D
11080008	REVUELTO CREEK NEAR LOGAN, NM	035	037	SW	786.00	014	1958		E	E		E	USGS	D
11090105	CANADIAN RIVER NR AMARILLO, TEX.	048	375	SW	19445.00	124	1948		2			2	USGS	D
11090106	CANADIAN R NR CANADIAN, TX	048	211	SW	22866.00	124	1967		E	E		E	USGS	D
11090201	CANADIAN RIVER AT BRIDGEPORT, OK	040	011	SW	25229.00	014	1947		O				USGS	D
11090202	CANADIAN RIVER NR NEWCASTLE, OK	040	087	SW	25763.00	014	1975	1975	M				USGS	
11090203	LITTLE RIVER BLW LK THUNDERBIRD NR NORMAN, O	040	027	SW	257.00	014	1953		2			2	USGS	D
11090204	DEER CR NR MCALISTER, OK	040	121	SW	38.30	004	1978		O	Q		O	USGS	D
11090204	BRUSHY CR NR HAILEYVILLE, OK	040	121	SW	139.00	004	1978		O	Q		O	USGS	D
11090204	PEACEABLE CR NR HAILEYVILLE, OK	040	121	SW	134.00	004	1978		O	Q		O	USGS	D
11090204	BLUE C TR NR BLOCKER, OK	040	121	SW	7.36	004	1978		F				USGS	D
11090204	BLUE CREEK TRIB NR BLOCKER, OK	040	121	SW		004	1976		M	M			USGS	D
11090204	BLUE CREEK NR BLOCKER, OK	040	121	SW		004	1976		M	M			USGS	D

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11090204	MATHULDY CREEK NR CROWDER, OK	040	121	SW		004	1976		M	M			USGS	D
11090204	TALOKA C AT STIGLER, OK	040	061	SW	3.98	004	1978		F				USGS	D
11090204	TALOKA C NR STIGLER, OK	040	061	SW	20.10	004	1978		F				USGS	D
11090204	CANADIAN R NR WHITEFIELD OK	040	061	SW	47576.00	014	1944		O				USCE	
11100101	BEAVER RIVER NR GUYMON, OK	040	139	SW	2139.00		1951		E	E		E	USGS	D
11100102	BEAVER RIVER AT BEAVER, OK	040	007	SW	7955.00	004	1961		N	N		E	USGS	D
11100301	NORTH CANADIAN RIVER AT WOODWARD, OK	040	153	SW	11589.00	014	1955		E	E		E	USGS	D
11100303	BELLCOW CREEK AT CHANDLER, OK	040	081	SW	46.00	004	1947	1975	O				USGS	
11100303	DRY CREEK NR KENDRICK, OK	040	081	SW	69.00	004	1960	1974	E	E		E	USGS	D
11100303	DEEP FORK NEAR DEWAR, OK	040	091	SW	2307.00	004	1947	1975	O				USGS	
11110101	ARKANSAS RIVER AT SAND SPRINGS NR TULSA, OK	040	143	SW	74615.00		1945	1977	Q	Q		E	USGS	D
11110101	ARKANSAS R AT TULSA OK	040	143	SW	74615.00	014	1960	1977		R		N	USCE	D
11110101	ARKANSAS R NR TULLAHASSEE OK	040	101	SW	75815.00	014	1969	1972	M				USCE	
11110102	ARKANSAS R NR MUSKOGEE OK	040	101	SW	96674.00	014	1943		E				USCE	
11110104	LITTLE SANS BOIS C NR STIGLER, OK	040	061	SW		004	1979		O	Q		O	USGS	D
11110104	SANS BOIS C NR QUINTON, OK	040	121	SW		004	1979		O	Q		O	USGS	D
11110104	MULE C NR MCCURTAIN, OK	040	061	SW		004	1979		O	Q		O	USGS	D
11110104	COAL CR NR SPIRO, OK	040	079	SW		004	1978		O	Q		O	USGS	D
11110104	ARKANSAS RIVER AT VAN BUREN, ARK.	005	133	SW	150482.00	014	1944		E				USGS	P
11110104	ARKANSAS R NR SALISAW OK	040	079	SW	147757.00	014	1957	1969	W				USCE	
11110104	ARKANSAS R AT VAN BUREN ARK	005	033	SW			1944		O	E			USCE	
11110105	FOURCHE MALINE NR WILBURTON, OK	040	077	SW	56.20	004	1978		O	Q		O	USGS	D
11110105	RED OAK CR NR RED OAK, OK	040	077	SW	12.80	004	1978		O	Q		O	USGS	D
11110105	CASTON CR AT WISTER, OK	040	079	SW	72.90	004	1978		O	Q		O	USGS	D
11110105	MORRIS CR AT HOWE, OK	040	079	SW	19.40	004	1978		O	Q		O	USGS	D
11110105	SUGARLOAF CR NR MONROE, OK	040	079	SW	53.60	004	1978		O	Q		O	USGS	D
11110105	BRAZIL C NR RED OAK, OK	040	077	SW	2.74	004	1978		F				USGS	D
11110105	ROCK C NR RED OAK, OK	040	077	SW	12.00	004	1978		F				USGS	D
11110105	BRAZIL C NR WALLS, OK	040	077	SW	69.10	004	1978		F				USGS	D
11110105	WILDHORSE C NR MCCURTAIN, OK	040	079	SW		004	1979		O	Q		O	USGS	D
11110105	OWL CR NR MCCURTAIN, OK	040	079	SW	27.90	004	1978		O	Q		O	USGS	D
11110105	WOLF C NR MCCURTAIN, OK	040	079	SW		004	1979		O			O	USGS	D
11110105	DOE C NR BOKOSHE, OK	040	079	SW		004	1979		O	Q		O	USGS	D
11110105	JAMES FORK NEAR HACKETT, ARK.	005	131	SW	147.00	004	1960		Q	Q			USGS	D
11110105	JAMES FORK NR WILLIAMS, OK	040	079	SW		004	1976		M	M			USGS	D
11110105	COAL CREEK NR BOKOSHE, OK	040	079	SW		004	1976		A	A		A	USGS	D
11110105	COAL CREEK NR PANAMA, OK	040	079	SW		004	1976		M	M			USGS	D
11110105	HOLI-TUSKA CR NR PANAMA, OK	040	079	SW	4.39	004	1978		O	Q		O	USGS	D
11110201	ARKANSAS R AT OZARK ARK	005	047	SW			1930		M	E			USCE	
11110201	HARTMAN - CLARKSVILLE	005	071	SW			1968		B				AR001	

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11110201	ARKANSAS R. AT DAM NO. 13, NR VAN BUREN, ARK	005	131	SW	150547.00	014	1947		X	H		2	USGS	D
11110201	ARK RIVER AT OZARK DAM AT OZARK, ARK.	005	047	SW			1973		2			2	USGS	D
11110201	MULBERRY R NR MULBERRY ARK	005	047	SW			1940		B				USCE	
11110202	KNOXVILLE-CLARKSVILLE	005	071	SW			1968		B				AR001	
11110202	SIXMILE C SWS 6 NR CHISMVILLE ARK	005	083	SW	3.91	014	1958	1967	2	R		2	USGS	D
11110202	SPADRA C AT CLARKSVILLE ARK	005	071	SW			1961		B				USCE	
11110202	ILLINOIS BAYOU NR SCOTTSVILLE ARK	005	115	SW			1958		B				USCE	
11110203	ARKANSAS RIVER AT DARDANELLE, ARK.	005	115	SW	153670.00	014	1947		2			2	USGS	D
11110203	ARKANSAS R AT DARDANELLE ARK	005	115	SW			1948		B	E			USCE	
11110204	PETIT JEAN C NR BOONEVILLE ARK	005	083	SW			1939		W	E			USCE	
11110204	DUTCH C AT WALTREAK ARK	005	149	SW			1946		B				USCE	
11110206	FOURCHE LA FAVE R NR GRAVELLY ARK	005	149	SW			1939		B				USCE	
11110207	ARK RIV AT MURRAY DAM, NR LITTLE ROCK, ARK	005	119	SW	158030.00	014	1973		2			2	USGS	D
11110207	ARKANSAS R @ DAVID D TERRY L&D BL LITTLE ROC	005	119	SW	158288.00	014	1947		E	E		E	USGS	D
11110207	ARKANSAS R AT LITTLE ROCK ARK	005	119	SW			1939		M	E			USCE	
11120103	PDTF RED RIVER NEAR WAYSIDE, TEX.	048	011	SW	4211.00	014	1967		E	E		E	USGS	D
11120103	PRAIRIE DOG TOWN FORK RED R NR BRICE TEX (DI	048	191	SW	5972.00	004	1948	1975	2			2	USGS	D
11120103	MULBERRY CREEK NEAR BRICE, TEX.(DISC)	048	191	SW	534.00	004	1948	1975	2			2	USGS	D
11120105	POT F RED R NEAR LAKEVIEW	048	191	SW			1964		O				TX001	C
11120202	SALT FORK RED RIVER NR WELLINGTON, TX	048	087	SW	1222.00		1952		E	E		E	USGS	D
11120202	SALT FORK RED RIVER AT MANGUM, OK	040	055	SW	1566.00	004	1945		O				USGS	
11120202	SALT F RED R NR ELMER, OK	040	065	SW		004	1978		M			M	USGS	D
11120302	NORTH FORK RED RIVER NR CARTER, OK	040	009	SW	2337.00	004	1948		O				USGS	D
11120303	ELK CREEK NR HOBART, OK	040	075	SW	549.00	004	1948		2			2	USGS	D
11120303	NORTH FORK RED RIVER NR HEADRICK, OK	040	141	SW	4244.00		1926		E	E		E	USGS	D
11130105	PEASE RIVER NEAR CHILDRESS, TEX.	048	101	SW	2754.00	004	1967		R	R		R	USGS	D
11130201	EAST FORK LITTLE WICHITA R NEAR HENRIETTA, T	048	077	SW	178.00	004	1952		E	E		E	USGS	D
11130206	WICHITA RIVER NR SEYMOUR, TEX.	048	023	SW	1874.00	004	1966		A	A		A	USGS	D
11130206	WICHITA RIVER AT WICHITA FALLS, TEX.	048	485	SW	3140.00	124	1966	1975	S	S		S	USGS	D
11130206	LITTLE WICHITA RIVER NEAR ARCHER CITY, TEX.	048	009	SW	481.00	124	1953	1975	A	A		A	USGS	D
11130207	BEAVER CREEK NR ELECTRA, TEX.	048	485	SW	652.00	014	1966	1975	A	A		A	USGS	D
11130208	BEAVER CREEK NR WAURIKA, OK	040	067	SW	563.00	004	1954		2			2	USGS	D
11130210	MINERAL CREEK NEAR SADLER, TEX.(DISC)	048	181	SW	26.00	024	1968	1976	E	E		E	USGS	D
11130302	WASHITA RIVER NR FOSS, OK	040	039	SW	1551.00	014	1920		O				USGS	D
11130302	BARNITZ CREEK NR ARAPAHO, OK	040	039	SW	243.00	014	1947	1955	O				USGS	
11130302	WASHITA RIVER NR CLINTON, OK	040	039	SW	1977.00	014	1959	1975	O				USGS	
11130302	WASHITA RIVER AT CARNEGIE, OK	040	015	SW	3129.00	014	1909		O				USGS	D
11130302	COOB CREEK NR FORT COOB, OK	040	015	SW	313.00	014	1943	1953	O				USGS	
11130302	WASHITA RIVER NR TABLER, OK	040	051	SW	4706.00	004	1945	1975	O				USGS	
11130303	WASHITA R NR DOUGHERTY OKLA	040	099	SW			1964	1972	O				USCE	

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11130303	WASHITA RIVER NR DURWOOD, OK	040	019	SW	7202.00		1941		0				USGS	D
111349 D	RED RIVER AT DENISON DAM NR DENISON, TX	048	181	SW	39720.00	124	1944		H	H		E	USGS	D
111349 D	RED R AT DENISON DAM NR DENISON TX	048	181	SW	39720.00	124	1944		M	M			USCE	D
111350 K	RED RIVER NR BURKBURNETT, TX	048	485	SW	20570.00	004	1967		E	E		E	USGS	D
11140103	COAL C NR LEHIGH, OK	040	029	SW		004	1978		0				USGS	D
11140103	MUDDY BOGGY CR AT ATOKA, OK	040	005	SW	445.00	004	1978		0	Q		0	USGS	D
11140103	MUDDY BOGGY C NR FARRIS OK	040	005	SW	1087.00	014	1947		0				USCE	
11140105	KIAMICHI RIVER NR BIG CEDAR, OK	040	079	SW	40.10	004	1965		A	A		E	USGS	D
11140105	KIAMICHI R NR BELZONI OK	040	127	SW	1423.00	004	1947	1963	0				USCE	
11140107	LITTLE RIVER NR IDABEL, OK	040	089	SW	1173.00	004	1947	1954	0				USGS	
11140108	MOUNTAIN FK NR EAGLETON OK	040	089	SW	787.00	014	1947	1963	0				USCE	
11140201	RED RIVER AT FULTON, ARK.	005	081	SW	52380.00	014	1945	1975	K			K	USGS	D
11140201	RED RIVER AT FULTON, ARK.	005	057	SW	52300.00		1965	1974	H			H	USCE	D
11140201	RED RIVER NR HOSSTON, LA	005	017	SW			1957		W	W	5		USCE	C
11140204	RED R AT SHREVEPORT LA	022	017	SW	60613.00		1962		M		M		USCE	C
11140207	RED RIVER AT COLFAX, LA.	022	069	SW	66860.00		1972	1974	W			W	USCE	D
11140302	SULPHUR R NR TALCO	048	449	SW			1962		0				TX001	C
11140302	SULPHUR R NR NAPLES TEX	048	037	SW	2774.00		1973	1974	B				USCE	C
11140302	SULPHUR RIVER NR TEXARKANA, TEX.	048	067	SW	3400.00		1973	1974	B				USCE	C
11140303	WHITE OAK C NR TALCO	048	449	SW			1963		0				TX001	C
11140305	CYPRESS CREEK NR DAINGERFIELD, T	048	343	SW			1973	1974	B				USCE	C
11140306	CYPRESS CREEK NR JEFFERSON, TEX.	048	315	SW	850.00		1973	1974	B				USCE	C

TEXAS-GULF REGION 12

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12010002	SABINE R NR TATUM TEX	048	401	SW			1968		O				TX001	C
12010005	COW BAYOU NEAR MAURICEVILLE, TEXAS	048	361	SW	83.30	004	1951		R			R	USGS	D
120151 C	SABINE RIVER NR RULIFF, TEX.	048	351	SW	9329.00	014	1944		M	M		Q	USGS	D
12020001	NECHES RIVER NEAR ALTO, TEX.	048	073	SW	1945.00		1958	1978				E	USGS	D
12020001	KICKAPOO C NR BROUNSBORO	048	213	SW			1962		O				TX001	C
12020002	NECHES R NR DIBOLL	048	005	SW			1966		O				TX001	C
12020002	PINEY C NR GROVETON	048	455	SW			1962		O				TX001	C
12020003	NECHES RIVER AT EVADALE, TEX.	048	241	SW	7951.00	124	1946		H	H		H	USGS	D
12020003	NECHES RIVER AT EVADALE US96	048	241	SW			1974		E	E		E	TX007	D
12020005	BAYOU LA NANA AT NACOGDOCHES	048	347	SW			1965		O				TX001	C
12030101	BIG SANDY CR NR BRIDGEPORT TEX	048	497	SW	333.00	124	1964	1978	O	K		O	USGS	D
12030102	MOUNTAIN CREEK NEAR CEDAR HILL, TEX.	048	113	SW	119.00	004	1974		M	M			USGS	D
12030103	ELM FK TRINITY RIVER NEAR,MUENSTER,TEX. (DIS	048	097	SW	46.00	014	1856	1973	2	E		2	USGS	D
12030103	ELM FORK TRINITY RIVER NEAR SANGER, TEX.	048	121	SW	381.00		1961		E	E		E	USGS	D
12030103	ISLE DU BOIS CREEK NEAR PILOT POINT, TEXAS	048	121	SW	266.00		1961	1975	R	E		R	USGS	D
12030103	CLEAR CREEK NR SANGER, TEX.	048	121	SW	295.00	014	1966	1978	O	A		O	USGS	D
12030103	LITTLE ELM CR NR CELINA, TEX. (DISC)	048	085	SW	46.70	014	1965	1975	2	Q		2	USGS	D
12030103	LITTLE ELM CR NR AUBREY, TEX.(DISC)	048	121	SW	75.50	014	1965	1975	2	Q		2	USGS	D
12030103	LITTLE ELM C NR AUBREY	048	121	SW			1964	1968	O				TX001	C
12030103	LITTLE ELM CR NR AUBREY, TEX.(DISC)	048	121	SW			1962	1974	S	S		S	USGS	D
12030104	DENTON CREEK NEAR JUSTIN, TEXAS	048	121	SW	400.00	014	1964	1975	R	E		R	USGS	D
12030105	TRINITY RIVER BELOW DALLAS, TEX.	048	113	SW	6278.00	123	1967		E	E		E	USGS	D
12030105	TRINITY RIVER NEAR ROSSER, TEXAS	048	257	SW	8146.00	123	1953		E	E		E	USGS	D
12030105	TRINITY R NR ROSSER	048	257	SW			1938		O				TX001	C
12030106	DUCK CREEK NEAR GARLAND, TEX.	048	113	SW	31.60	123	1969	1978	M	M			USGS	C
12030107	KINGS CREEK NEAR KAUFMAN, TEX.	048	257	SW	233.00	124	1976		M	M			USGS	C
12030108	PIN OAK CR NR HUBBARD, TEX.(DISC)	048	293	SW	17.60	014	1908	1971	2	A		2	USGS	D
12030109	CHAMBERS C NR CORSICANA	048	349	SW			1963		O				TX001	C
12030201	TRINITY RIVER NEAR OAKWOOD, TEX	048	001	SW	12833.00	124	1946		O	E	E		USGS	D
12030201	TRINITY RIVER NR CROCKETT, TEX.	048	225	SW	13911.00	124	1963		Q	Q		Q	USGS	D
12030201	TRINITY R NR CROCKETT TEX	048	225	SW			1968		O				TX001	C
12030202	TRINITY RIVER NEAR MIDWAY, TEX. (DISC)	048	313	SW	14450.00	124	1965	1974	R	R		R	USGS	D
12030202	LONG KING C NR LIVINGSTON	048	373	SW			1963		O				TX001	C
12030203	TRINITY R AT ROMAYOR, TEXAS	048	291	SW	17186.00	124	1940		2	H		2	USGS	D
12030203	TRINITY R AT ROMAYOR	048	291	SW			1936		O				TX001	C
12040101	WEST FORK SAN JACINTO RIVER NR CONROE, TX	048	339	SW	809.00	004	1960		Q	A		Q	USGS	D
12040102	PANTHER BRANCH NEAR SPRING , TEX.	048	339	SW	34.50	004	1972	1976	O	E		O	USGS	D
12040102	SPRING CREEK NEAR SPRING, TEX.(DISC)	048	201	SW	409.00	004	1962	1975	K	R		K	USGS	D
12040103	CANEY CREEK NEAR SPLENDORA, TEXAS	048	339	SW	105.00	004	1962	1975	R	A		R	USGS	D
12040103	EF SAN JACINTO R NR CLEVELAND	048	291	SW			1952		O				TX001	C

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12040104	KEEGANS BAYOU AT KEEGAN ROAD NEAR HOUSTON, T	048	201	SW	5.77	003	1970	1972	E			E	USGS	D
12040104	KEEGANS BAYOU AT ROARK ROAD NEAR HOUSTON, TE	048	201	SW	11.60	004	1971		E			E	USGS	D
12040104	BRAYS BAYOU AT HOUSTON, TEX.	048	201	SW	88.40	023	1968		E			E	USGS	D
12040104	GREENS BAYOU NEAR HOUSTON, TEX.	048	201	SW	72.70	023	1968		R			R	USGS	D
12040203	GALVESTON BAY TRINITY BAY PT B	048	071	ES			1948		W	M			USCE	P
12040204	BRAZOS RIVER AT RICHMOND, TEX.	048	157	SW	45007.00	124	1940		O	K		O	USGS	D
12050004	DMF BRAZOS RIVER NEAR ASPERMONT, TEX.	048	433	SW	7980.00	004	1947		2	E		2	USGS	D
12050007	SALT FK BRAZOS R NR ASPERMONT, TX	048	433	SW	5130.00		1947		M	M		K	USGS	D
12050007	STINKING CREEK NEAR ASPERMONT, TEX.	048	433	SW	92.40	004	1948		A			A	USGS	D
12060101	BRAZOS RIVER AT SEYMOUR, TEX.	048	023	SW	14490.00	004	1958		H	H		H	USGS	D
12060101	MILLERS CREEK NEAR MUNDAY, TEX.	048	447	SW	113.00	004	1962		A			A	USGS	D
12060102	CLEAR FORK BRAZOS RIVER AT HAWLEY, TEX.	048	253	SW	1390.00	004	1966		E	E		E	USGS	D
12060103	CALIFORNIA C NR STAMFORD	048	253	SW			1964		O				TX001	C
12060104	CLEAR FORK BRAZOS RIVER AT FORT GRIFFIN, TEX	048	417	SW	3974.00	124	1948		2			2	USGS	D
12060104	CLEAR F OF BRAZOS R AT ELIASVILLE	048	503	SW			1966		O				TX001	C
12060105	HUBBARD CREEK NEAR ALBANY, TEX. (DISC)	048	417	SW	454.00		1962	1975	Q	Q	Q		USGS	D
12060105	SALT PRONG HUBBARD CR AT 380 NR MORAN,TEX.(D	048	417	SW	61.00		1963	1975	E	E	E		USGS	D
12060105	NORTH FORK HUBBARD CREEK NR ALBANY, TEX.	048	417	SW	38.40	004	1961		E	E		E	USGS	D
12060105	BIG SANDY CREEK NR BRECKENRIDGE, TEX.(DISC)	048	429	SW	288.00	014	1960	1975	E	E		E	USGS	D
12060201	BRAZOS RIVER NEAR SOUTH BEND,TEXAS	048	503	SW	22673.00	124	1964		E	E		E	USGS	D
12060201	BRAZOS R NR SOUTH BEND	048	503	SW			1942		O				TX001	C
12060201	BRAZOS R AT POSSUM KINGDOM DAM	048	363	SW			1942		O				TX001	C
12060202	AQUILLA C NR AQUILLA	048	217	SW			1963		O				TX001	C
12060204	N BOSQUE R AT HICO	048	193	SW			1962		O				TX001	C
12070101	BRAZOS RIVER NR HIGHBANK, TEX.	048	145	SW	30436.00	124	1966		E	E		E	USGS	D
12070101	LITTLE POND CREEK AT BURLINGTON, TEX.	048	331	SW	23.00	004	1966	1975	A	A		A	USGS	D
12070101	EAST YEGUA CREEK NEAR DIME BOX, TEX.	048	051	SW	244.00	004	1966	1975	K	E		K	USGS	D
12070102	DAVIDSON CREEK NEAR LYONS, TEX.	048	051	SW	195.00	004	1966	1975	R			R	USGS	D
12070102	YEGUA C NR SOMERVILLE	048	051	SW			1962		O				TX001	C
12070103	NAVASOTA RIVER NR BRYAN, TEX.	048	041	SW	1454.00	024	1957		O	E		O	USGS	D
12070103	NAVASOTA R NR EASTERLY	048	395	SW			1942		O				TX001	C
12070104	MILL CREEK NR BELLVILLE, TX	048	015	SW	376.00	024	1965		E	E		E	USGS	D
12070104	BRAZOS RIVER NR ROSHARON, TEX.	048	157	SW	45339.00	124	1967		E	E		E	USGS	D
12070201	LEON R AT GATESVILLE	048	099	SW			1953		O				TX001	C
12070201	SAN SABA R AT SAN SABA	048	411	SW			1966		O				TX001	C
12070201	COLORADO R NR SAN SABA	048	411	SW			1930		O				TX001	C
12070203	SOUTH FORK ROCKY CREEK NEAR BRIGGS, TEX.	048	053	SW	33.30	004	1963		E	E		E	USGS	D
12080007	BEALS CRK NR WESTBROOK, TX	048	335	SW	9903.00		1957		K	K		K	USGS	D
12080008	COLORADO RIVER ABOVE SILVER, TEX.	048	081	SW	15407.00	014	1966		S	A		S	USGS	D
12080008	COLORADO RIVER AT ROBERT LEE, TEX.	048	081	SW	15770.00	124	1946	1967	2	E		2	USGS	D

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12090106	COLORADO RIVER NEAR STACY, TEX.	048	307	SW	24040.00		1967		E	E		E	USGS	D
12090201	COLORADO R AT INKS DAM	048	053	SW			1942	1963	O				TX001	C
12090201	COLORADO RIVER NR SAN SABA, TEX.	048	411	SW	30600.00	124	1946		2	E	E	2	USGS	D
12090201	SANDY CREEK NEAR KINGSLAND, TEX.	048	299	SW	327.00	004	1968	1975	R	E		R	USGS	D
12090201	COLORADO R AT BUCHANAN DAM	048	053	SW			1947		O				TX001	C
12090204	BRAZOS R AT RICHMOND	048	157	SW			1924		O				TX001	C
12090204	LLANO R AT LLANO	048	299	SW			1942		O				TX001	C
12090205	BULL CREEK AT FM 2222, AUSTIN, TEX.	048	453	SW	30.40	003	1975		M				USGS	D
12090205	BARTON CREEK BELOW BARTON SPRINGS, AUSTIN, T	048	453	SW	125.30		1975		M				USGS	D
12090205	SHOAL CREEK AT 12TH STREET, AUSTIN, TEX.	048	453	SW	12.80		1975		M				USGS	D
12090205	COLORADO RIVER AT AUSTIN, TEX.	048	453	SW	38400.00	124	1946		M	Q		M	USGS	D
12090205	BOGGY CREEK AT U.S. 183, AUSTIN, TEX.	048	453	SW	13.10	003	1975		M				USGS	D
12090205	WALNUT CREEK S.P. RR BRIDGE, AUSTIN, TEX.	048	453	SW	53.50	004	1975		M				USGS	D
12090205	WILLIAMSON CREEK AT JIMMY CLAY ROAD, AUSTIN,	048	453	SW	27.60		1975		M				USGS	D
12090205	ONION CREEK AT U.S. HWY. 183, NR AUSTIN, TEX	048	453	SW	321.00	003	1976		S			S	USGS	D
12090205	COLORADO R AT AUSTIN	048	453	SW			1937		O				TX001	C
12090206	PEDERNALES R AT JOHNSON CITY	048	031	SW			1942	1967	O				TX001	C
12090302	COLORADO RIVER AT COLUMBUS, TEX.	048	089	SW	41070.00	124	1957		2	E		2	USGS	D
12090302	COLORADO RIVER AT WHARTON, TEX.	048	481	SW	41380.00	124	1943		H	H		H	USGS	D
12100004	SABINE R AT LOGANSPORT LA	022	031	SW			1932	1968	O				TX001	C
12100102	NAVIDAD RIVER NR GANADO, TEX.	048	239	SW	1063.00	024	1958		H	H		H	USGS	D
12100102	NAVIDAD R NR HALLETSVILLE	048	285	SW			1962		O				TX001	C
12100201	GUADALUPE R NR SPRING BRANCH	048	091	SW			1942		O				TX001	C
12100204	GUADALUPE RIVER AT VICTORIA, TEX.	048	469	SW	5198.00	124	1944		M	H		M	USGS	D
12100204	GUADLUPE R AT VICTORIA	048	469	SW			1945		O				TX001	C
12100301	OLMOS C TRIB AT FR 1535, SHAVANO PARK, TEX.	048	029	SW	.33	004	1970		E			E	USGS	D
12100301	OLMOS CR AT DRESDEN DRIVE, SAN ANTONIO, TEX.	048	029	SW	21.20	003	1968		E	E		E	USGS	D
12100301	SAN ANTONIO RIVER AT SAN ANTONIO, TEX.	048	029	SW	41.80	013	1965		E			E	USGS	D
12100301	ALAZAN C AT ST. CLOUD ST, SAN ANTONIO, TEX.	048	029	SW	3.26	003	1968		E			E	USGS	D
12100301	PANTHER SPG CR @ FR2696 NR SAN ANTONIO, TX(D	048	029	SW	9.54	004	1969	1977	E			E	USGS	D
12100301	SALADO CR TRIB AT BITTERS RD, SAN ANTONIO, T	048	029	SW	.62	003	1968		E			E	USGS	D
12100301	SALADO CREEK (UPPER STATION) AT SAN ANTONIO,	048	029	SW	137.00	003	1968		E			E	USGS	D
12100301	SALADO C TRIB AT BEE ST, SAN ANTONIO, TEX.(D	048	029	SW	.45	003	1970		E			E	USGS	D
12100301	SALADO CREEK (LOWER STATION) AT SAN ANTONIO,	048	029	SW	189.00	003	1968		E			E	USGS	D
12100302	LEON CR TRIB AT FR 1604, SAN ANTONIO, TEX.	048	029	SW	5.57	004	1970		E			E	USGS	D
12100302	FRENCH CR TRIB NR HELOTES, TEX.	048	029	SW	1.08	004	1972	1972	A			A	USGS	D
12100302	HELOTES CREEK AT HELOTES, TEXAS	048	029	SW	15.00	024	1969		E			E	USGS	D
12100302	LEON CREEK TRIB AT KELLY AIR FORCE BASE, TEX	048	029	SW	1.10	003	1969		E			E	USGS	D
12100303	SAN ANTONIO RIVER NEAR FALLS CITY, TEX.	048	255	SW	2113.00	124	1966		E	E		E	USGS	D
12100303	ECLETO CREEK NEAR RUNGE, TEX.	048	255	SW	239.00	004	1961	1975	A	E		A	USGS	D

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12100303	ESCONDIDO CR SWS NO. 1 NR KENEDY, TEX.	048	255	SW	3.29	014	1965	1965	E	E			USGS	
12100303	SAN ANTONIO RIVER AT GOLIAD, TEX.	048	175	SW	3921.00	124	1945		A	H		H	USGS	D
12100303	SAN ANTONIO R AT GOLIAD	048	175	SW			1942		O				TX001	C
12100304	CIBOLO CREEK NR FALLS CITY, TEX.	048	255	SW	827.00	024	1961		E	E		E	USGS	D
12100304	CIBOLO C NR FALLS CITY	048	255	SW			1963		O				TX001	C
12100402	LAVACA R NR EDNA	048	239	SW			1945		O				TX001	C
12100406	MISSION RIVER AT REFUGIO, TEXAS	048	391	SW	690.00	004	1960		E			E	USGS	D
12100407	ARANSAS RIVER NEAR SKIDMORE, TEX.	048	025	SW	247.00	024	1961	1975	R	E		R	USGS	D
12110105	NUECES RIVER NEAR TILDEN, TEX.	048	311	SW	8192.00	004	1948	1968	2			2	USGS	D
12110105	NUECES RIVER AT SIMMONS, TEX.(DISC)	048	297	SW	8561.00	004	1965		N			N	USGS	D
12110105	NUECES R AT COTULLA	048	283	SW			1942		O				TX001	C
12110108	FRIO RIVER AT CALLIHAM, TEX.	048	311	SW	5491.00	004	1962			M		M	USGS	D
12110108	FRIO R AT CALLIHAM	048	311	SW			1953		O				TX001	C
12110109	SAN MIGUEL CREEK NEAR TILDEN, TEX.	048	311	SW	793.00	024	1965		M	M		M	USGS	D
12110110	ATASCOSA RIVER AT WHITSETT, TEX.	048	297	SW	1171.00	004	1964		M	M		M	USGS	D
12110111	NUECES RIVER NR. THREE RIVERS, TEX.	048	297	SW	15600.00	004	1940		M	E		M	USGS	D
12110111	NUECES R NR MATHIS	048	409	SW			1942		O				TX001	C
12110205	LOS OLMOS CREEK NEAR FALFURRIAS, TEX.	048	047	SW	480.00		1973		E	E		E	USGS	D
12110208	NORTH FLOODWAY NR SEBASTIAN, TEX	048	001	SW			1967	1967	A	A		A	USGS	D
12110208	NORTH FLOODWAY NEAR SEBASTION, TEX.	048	061	SW		124	1973		A	A		A	USGS	D
12110208	ARROYO COLORADO @ EL FUSTE SIPHON NR MERCEDE	048	215	SW		124	1966		E	E		E	USGS	D

RIO GRANDE REGION 13

HYDROLOGIC UNIT CODE	STATION NAME AND LOCATION	STATE	COUNTY	TYPE OF SITE	DRAINAGE AREA	BASIN DESCRIPTOR	QW BEGIN YEAR	QW END YEAR	SUSP SED CONCEN	SUSP PART SIZE	BED MAT PART SIZE	SUSP DISCHARGE	ORGANIZATION CODE	SED STOR MEDIA
130055 L	RIO GRANDE AT LAREDO WATER PLT TX	048	479	SW			1932		O				USIBW	
130055 L	RIO GRANDE AT LAREDO TX	048	479	SW	132578.00		1956	1977	E				USIBW	P
130055 M	RIO GRANDE BL FALCON DAM TX	048	427	SW	159270.00		1956		W				USIBW	P
130055 M	RIO GRANDE NR BROWNSVILLE TX	048	061	SW	176333.00		1934		E				USIBW	P
130056 C	RIO GRANDE BL RIO CONCHOS NR PRES	048	377	SW	63339.00		1950	1977	E				USIBW	P
130056 J	RIO GRANDE AT LANGTRY TX	048	465	SW	81429.00		1945	1968	E				USIBW	P
13010001	NAVAJO RIVER BL OSO DIV DAM, NEAR CHROMO, CO	008	007	SW		024	1972	1975	K	E		K	USGS	D
13010001	LITTLE NAVAJO BL LITTLE OSO DIV DAM,CO	008	007	SW			1973	1974	E	E		E	USGS	D
13010002	RIO GRANDE NEAR LOBATOS, CO.	008	021	SW	7700.00	124	1969		E			E	USGS	D
13010002	NAVAJO R AT BANDED PEAK RANCH, NEAR CHROMO,	008	007	SW	69.80	004	1974	1974	A	A		A	USGS	D
13020101	COSTILLA C NR COSTILLA, NM	035	055	SW	195.00	014	1966	1975	Q	A		Q	USGS	D
13020101	RED RIVER BELOW ZWERGLE DAM SITE NR RED RIVE	035	055	SW	25.70	004	1976	1976	M	A			USGS	P
13020101	RED R AT FISH HATCH NR QUESTA,NM	035	055	SW	185.00	014	1966		E			E	USGS	D
13020101	RIO GRANDE DEL RANCHO NEAR TALPA, N. MEX.	035	055	SW	83.00	004	1961	1965	M	A			USGS	P
13020101	RIO GRANDE AT EMBUDO, N. MEX.	035	039	SW	10400.00	014	1963	1969	M				USGS	P
13020101	RIO GRANDE AT OTOWI BRIDGE, NM	035	049	SW	14300.00	124	1934		O	E		O	USGS	D
13020101	RIO NAMBE AT NAMBE FALLS NR NAMBE NM	035	049	SW	25.10	004	1961	1965	W				USBR	P
13020102	RIO CHAMA NEAR LA PUENTE, N. MEX.	035	039	SW	480.00	014	1974	1974	A	A		A	USGS	D
13020102	WILLOW CR ABV AZOTEA CR NR PARK VIEW N. MEX.	035	039	SW	42.00	004	1973	1973	A	A		A	USGS	D
13020102	AZOTEA TUNNEL AT OUTLET NEAR CHAMA, N. MEX.	035	039	SW		024	1974	1975	K	E		K	USGS	D
13020102	HORSE LAKE CR AB HERON RES NR PARK VIEW, N.	035	039	SW	45.00	004	1973	1973	A			A	USGS	D
13020102	RIO CHAMA BL HERON DAM,NM	035	039	SW			1973	1974	A	A		A	USGS	D
13020102	RIO CHAMA BELOW EL VADO DAM, N. MEX.	035	039	SW	877.00	124	1974	1974	A	A		A	USGS	D
13020102	RIO CHAMA AB ABIQUIU RE, NM	035	039	SW	1600.00	124	1961	1974	2	Q		2	USGS	D
13020102	RIO CHAMA BL ABIQUIU DAM, NM	035	039	SW	2147.00	124	1961	1974	2	R		2	USGS	D
13020102	RIO CHAMA NEAR CHAMITA,NM	035	039	SW	3144.00	124	1956	1975	2	E		2	USGS	D
13020102	WILLOW CREEK ABOVE HERON RES NR PARK VIEW N.	035	039	SW			1973	1974	A	A		A	USGS	D
13020102	EL VADO RESERVOIR NEAR TIERRA AMARILLA, N. M	035	039	SW			1973	1973	Q	Q			USGS	D
13020201	RIO GRANDE AT COCHITI, NEW MEXICO	035	043	SW	14600.00	124	1973	1973	A	A			USGS	D
13020201	RIO GRANDE BL COCHITI DAM, NM	035	043	SW	14900.00	124	1970		O	A		O	USGS	D
13020201	GALISTEO RESERVOIR NEAR CERRILLOS, N. MEX.	035	049	SW	596.00	004	1926	1957	W	W			USGS	P
13020201	GALISTEO CREEK BELOW GALISTEO DAM,NM	035	049	SW	597.00	014	1971		O	N		O	USGS	D
13020201	GALISTEO C AT DOMINGO, NM	035	043	SW	640.00	004	1958	1970	2	E		2	USGS	D
13020201	RIO GRANDE AT SAN FELIPE,NM	035	043	SW	16100.00	124	1953		E	E		E	USGS	D
13020201	RIO GRANDE COCHITI TO ISLETA X-SECTION 1,NM	035	043	SW			1970	1972	S	A			USGS	D
13020201	RIO GRANDE COCHITI TO ISLETA X-SECTION 2,NM	035	043	SW			1970	1975	S	S			USGS	D
13020201	RIO GRANDE COCHITI TO ISLETA X-SECTION 3,NM	035	043	SW			1970	1975	S	A			USGS	D
13020201	RIO GRANDE COCHITI TO ISLETA X-SECTION 4W,NM	035	043	SW			1970	1974	A	A			USGS	D
13020201	RIO GRANDE COCHITI TO ISLETA X-SECTION 4M,NM	035	043	SW			1970	1975	A	A			USGS	D
13020201	RIO GRANDE COCHITI TO ISLETA X-SECTION 4E,NM	035	043	SW			1970	1975	A	A			USGS	D

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13020201	RIO GRANDE COCHITI TO ISLETA X-SECTION 5,NM	035	043	SW			1970	1975	S	A			USGS	D
13020201	RIO GRANDE COCHITI TO ISLETA X-SECTION 6,NM	035	043	SW			1970	1975	S	S			USGS	D
13020201	RIO GRANDE COCHITI TO ISLETA X-SECTION 7W,NM	035	043	SW			1970	1974	S	A			USGS	D
13020201	RIO GRANDE COCHITI TO ISLETA X-SECTION 7M,NM	035	043	SW			1972	1972	A	A			USGS	D
13020201	RIO GRANDE COCHITI TO ISLETA X-SECTION 7E,NM	035	043	SW			1971	1975	R	R			USGS	D
13020201	RIO GRANDE COCHITI TO ISLETA X-SECTION 8,NM	035	043	SW			1970	1975	S	A			USGS	D
13020201	RIO GRANDE COCHITI TO ISLETA X-SECTION 9W,NM	035	043	SW			1971	1975	S	S			USGS	D
13020201	RIO GRANDE COCHITI TO ISLETA X-SECTION 9E,NM	035	043	SW			1972	1974	S	S			USGS	D
13020201	RIO GRANDE COCHITI TO ISLETA X-SECTION 10W,N	035	043	SW			1970	1975	S	A			USGS	D
13020201	RIO GRANDE COCHITI TO ISLETA X-SECTION 10E,N	035	043	SW			1970	1975	S	A			USGS	D
13020201	RIO GRANDE COCHITI TO ISLETA X-SECTION 11,NM	035	043	SW			1971	1975	S	S			USGS	D
13020201	RIO GRANDE COCHITI TO ISLETA X-SECTION 12,NM	035	043	SW			1970	1975	S	A			USGS	D
13020201	RIO GRANDE COCHITI TO ISLETA X-SECTION 13,NM	035	043	SW			1970	1975	S	A			USGS	D
13020201	RIO GRANDE COCHITI TO ISLETA X-SECTION 14,NM	035	043	SW			1970	1975	S	S			USGS	D
13020201	RIO GRANDE COCHITI TO ISLETA X-SECTION 15,NM	035	043	SW			1970	1975	S	S			USGS	D
13020201	RIO GRANDE COCHITI TO ISLETA X-SECTION 16,NM	035	043	SW			1970	1975	S	S			USGS	D
13020201	RIO GRANDE COCHITI TO ISLETA X-SECTION 18,NM	035	043	SW			1971	1975	S	S			USGS	D
13020201	RIO GRANDE COCHITI TO ISLETA X-SECTION 19,NM	035	043	SW			1970	1975	S	A			USGS	D
13020201	RIO GRANDE COCHITI TO ISLETA X-SECTION 20,NM	035	043	SW			1971	1975	S	S		E	USGS	D
13020201	RIO GRANDE COCHITI TO ISLETA X-SECTION 21W,N	035	043	SW			1970	1975	S	S			USGS	D
13020201	RIO GRANDE COCHITI TO ISLETA X-SECTION 21E,N	035	043	SW			1970	1975	S	A			USGS	D
13020201	RIO GRANDE COCHITI TO ISLETA X-SECTION 22,NM	035	043	SW			1971	1975	S	S		E	USGS	D
13020201	RIO GRANDE COCHITI TO ISLETA X-SECTION 23W,N	035	043	SW			1970	1972	S	S			USGS	D
13020201	RIO GRANDE COCHITI TO ISLETA X-SECTION 23E,N	035	043	SW			1972	1975	K	A		E	USGS	D
13020201	RIO GRANDE COCHITI TO ISLETA X-SECTION 24W,N	035	043	SW			1971	1972	S	S			USGS	D
13020201	RIO GRANDE COCHITI TO ISLETA X-SECTION 25E,N	035	043	SW			1972	1975	S	S		E	USGS	D
13020201	RIO GRANDE COCHITI TO ISLETA X-SECTION 27,NM	035	043	SW			1971	1975	S	S		E	USGS	D
13020202	JEMEZ R BL JEMEZ CANY DAM N MEX	035	043	SW			1959		W	M			USCE	
13020202	JEMEZ RIVER BELOW JEMEZ CANYON DAM,NM	035	043	SW	1038.00	014	1953		2	E		E	USGS	D
13020202	RIO GRANDE COCHITI TO ISLETA X-SECTION 24E,N	035	043	SW			1972	1975	S	A		E	USGS	D
13020203	PIEDRA LISA ARROYO NR BERNALILLO N M	035	043	SW	4.10	014	1956	1967	A	A		A	USGS	D
13020203	RIO GRAND NR BERNALILLO,NM	035	043	SW	17300.00	124	1958	1974	2	E		2	USGS	D
13020203	RIO GRANDE AT ALBUQUERQUE, N. MEX.	035	001	SW	17440.00	124	1968	1975	O	H		O	USGS	D
13020203	RIO GRANDE NEAR ISLETA,NM	035	061	SW	17900.00	124	1970		E	E		E	USGS	D
13020203	RIO GRANDE CONVEYANCE CHANNEL NEAR BERNARDO,	035	053	SW		124	1963	1975	2	E		2	USGS	D
13020203	RIO GRANDE NR BERNARDO, N. M.	035	053	SW	19230.00	124	1958	1975				2	USGS	D
13020203	RIO GRANDE FLOODWAY NEAR BERNARDO, NM	035	053	SW	19230.00	124	1964		O	E		O	USGS	D
13020203	BERNARDO INTERIOR DRAIN NR BERNARDO,N. M.	035	053	SW			1963	1968	2	K		2	USGS	D
13020203	SOCORRO MAIN CANAL NORTH AT SAN ACACIA, NM	035	053	SW		124	1974		O	X			USGS	P
13020203	RIO GRANDE CONVEYANCE CHANNEL AT SAN ACACIA,	035	053	SW		124	1958		O	E		O	USGS	D

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13020203	RIO GRANDE FLOODWAY AT SAN ACACIA, NM	035	053	SW	26770.00	124	1960		O	E		O	USGS	D
13020203	RIO GRANDE CONVEYANCE CHANNEL AT SAN MARCIAL	035	053	SW		124	1958		O	E		O	USGS	D
13020203	RIO GRANDE FLOODWAY AT SAN MARCIAL, NM	035	053	SW	27700.00	124	1897		O	E		O	USGS	D
13020203	TORTUGAS ARROYO NR LAS CRUCES, N MEX	035	013	SW	20.70	014	1967	1972	4	N		4	USGS	D
13020203	RIO GRANDE COCHITI TO ISLETA X-SECTION 25W,N	035	043	SW			1971	1972	S	S			USGS	D
13020203	RIO GRANDE COCHITI TO ISLETA X-SECTION 26,NM	035	043	SW			1971	1975	S	A		E	USGS	D
13020203	RIO GRANDE COCHITI TO ISLETA X-SECTION 28,NM	035	043	SW			1970	1975	S	S		E	USGS	D
13020203	RIO GRANDE COCHITI TO ISLETA X-SECTION 29,NM	035	043	SW			1971	1975	S	S		E	USGS	D
13020203	RIO GRANDE COCHITI TO ISLETA X-SECTION 30,NM	035	043	SW			1971	1975	S	S		E	USGS	D
13020203	RIO GRANDE COCHITI TO ISLETA X-SECTION 31,NM	035	043	SW			1971	1975	S	S		E	USGS	D
13020203	RIO GRANDE COCHITI TO ISLETA X-SECTION 32,NM	035	043	SW			1971	1975	S	S		E	USGS	D
13020203	RIO GRANDE COCHITI TO ISLETA X-SECTION 33,NM	035	043	SW			1970	1975	S	S		E	USGS	D
13020203	RIO GRANDE COCHITI TO ISLETA X-SECTION 34,NM	035	043	SW			1970	1975	S	S		E	USGS	D
13020203	RIO GRANDE COCHITI TO ISLETA X-SECTION 35,NM	035	043	SW			1970	1975	S	S		E	USGS	D
13020203	RIO GRANDE COCHITI TO ISLETA X-SECTION 37,NM	035	043	SW			1970	1975	S	S		E	USGS	D
13020203	RIO GRANDE COCHITI TO ISLETA X-SECTION 38,NM	035	043	SW			1970	1975	S	S		E	USGS	D
13020204	RIO PUERCO AT RIO PUERCO, NEW MEXICO	035	061	SW	6590.00	014	1975	1975	D	X			USGS	P
13020204	RIO PUERCO NEAR BERNARDO,NM	035	053	SW	7350.00	014	1958		2	E		2	USGS	D
13020207	BLUEWATER LK NR BLUEWATER N M	035	061	SW	201.00	014	1966	1969	E	E		E	USGS	D
13020207	RIO SAN JOSE AT CORREO N M	035	061	SW	3660.00	014	1949	1956	D	X			USGS	P
13020209	RIO SALADO NEAR SAN ACACIA,NM	035	053	SW	1380.00	004	1966		E	E		E	USGS	D
13030102	RIO GRANDE AT VINTON BR NR ANTHONY, TX (DISC	048	141	SW	28680.00	124	1975		E	E		E	USGS	D
13030102	RIO GRANDE AT EL PASO TX	048	141	SW	29267.00		1930	1948	E				USIBW	P
13030201	GILA RIVER ABOVE CLIFF NM	035	017	SW			1975		A				USFS	D
13030202	MIMBRES R AT MCKNIGHT DS NR MIMBRES N M	035	017	SW	97.30		1967	1972	K	E		K	USGS	D
13030202	GALLINAS CR BELOW IRON CREEK	035	017	SW			1975	1975	A				USFS	D
13030202	MIMBRES RIVER BELOW SAN LORENZO	035	017	SW			1975		E				USFS	D
13040205	RIO GRANDE AT JOHNSON RANCH TX	048	043	SW	67760.00		1948	1977	E				USIBW	P
13040212	RIO GRANDE AT FOSTER RANCH NR LANGTRY, TEXAS	048	465	SW	84120.00	014	1973		E	E		E	USGS	D
13040302	DEVILS RIVER AT PAFFORD CROSSING NR COMSTOCK	048	465	SW			1967		M	M			USGS	D
130456 Z	RIO GRANDE AT FORT QUITMAN, TEXAS	048	229	SW	32035.00	014	1973		E	E		E	USGS	D
13050003	RIO TULAROSA NEAR BENT, NM	035	035	SW	120.00		1963		E	E		E	USGS	D
13060001	RIO MORA NEAR TERRERO, NM	035	047	SW	53.20	004	1962		E	E		E	USGS	D
13060001	PECOS RIVER NEAR ANTON CHICO, NM	035	019	SW	1050.00	014	1967		E	E		E	USGS	D
13060001	PECOS RIVER AT SANTA ROSA, NM	035	019	SW	2650.00	014	1958	1978	O	N		O	USGS	D
13060001	PECOS RIVER NEAR PUERTO DE LUNA, NM	035	019	SW	3970.00	014	1939		E	E		E	USGS	D
13060003	PECOS RIVER BELOW SUMNER DAM, NM	035	011	SW	4390.00	014	1941	1978	M	E		M	USGS	D
13060007	PECOS RIVER NEAR ARTESIA, NM	035	015	SW	15300.00	014	1933		O	[illegible]		O	USGS	D
13060008	RIO HONDO AT DIAMOND A RANCH NR ROSWELL N M	035	005	SW	947.00	014	1951	1975	3	X		2	USGS	D
13060010	RIO PENASCO AT DAYTON N M	035	015	SW	1060.00	014	1960	1972	2	A		2	USGS	D

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13060011	PECOS RIVER AT CARLSBAD, NM	035	015	SW	18100.00	014	1950		X				USGS	P
13060011	PECOS RIVER NEAR MALAGA, NM	035	015	SW	19190.00	014	1936		E			E	USGS	D
13060011	PECOS RIVER AT RED BLUFF, NM	035	015	SW	19540.00	014	1936		E	E		E	USGS	D
13070008	PECOS R NR LANGTRY, TEXAS	048	465	SW	35179.00	014	1974		E	E		E	USGS	D
13070008	PECOS RIVER NR SHUMLA TX	048	465	SW	35162.00		1955	1966	E				USIBW	P
13080001	RIO GRANDE NR DEL RIO TX	048	465	SW	123303.00		1955	1977	E				USIBW	P
130855 L	RIO GRANDE AT LAREDO, TEX.	048	479	SW	135976.00	124	1913		E	E		E	USGS	D
13090001	RIO GRANDE AT FORT RINGGOLD TX	048	427	SW	174362.00		1959		W				USIBW	P
13090001	RIO GRANDE NR LOS EBANOS TX	048	215	SW			1956		W				USIBW	P
13090002	RIO GRANDE BL ANZALDUAS DAM TX	048	215	SW			1956		E				USIBW	P
13090002	RIO GRANDE NR SAN BENITO TX	048	061	SW	176304.00		1955		W				USIBW	P
130955 M	RIO GRANDE NEAR BROWNSVILLE, TEXAS	048	061	SW	182215.00	124	1965		O	E		O	USGS	D

UPPER COLORADO REGION 14

HYDROLOGIC UNIT CODE	STATION NAME AND LOCATION	STATE	COUNTY	TYPE OF SITE	DRAINAGE AREA	BASIN DESCRIPTOR	QW BEGIN YEAR	QW END YEAR	SUSP SED CONCEN	SUSP PART SIZE	BED MAT PART SIZE	SUSP DISCHARGE	ORGANIZATION CODE	SED STOR MEDIA
140064 E	BITTER CREEK NR GREEN RIVER WYO	056	037	SW			1966	1972	R	A		R	USGS	D
140064 F	LITTLE MUDDY C NR GLENCOE WY	056	023	SW			1976		R	E		R	USGS	D
140064 J	VERMILLION CREEK NEAR HIAWATHA COLO	056	037	SW			1977		E	E		E	USGS	D
14010001	COLORADO RIVER NEAR GRANBY, CO.	008	049	SW	323.00	124	1976	1978	R			R	USGS	D
14010001	EAST FORK TROUBLESOME C NEAR TROUBLESOME, CO	008	049	SW	76.00	004	1976	1978	R			R	USGS	D
14010001	RED DIRT CREEK NEAR KREMMLING, CO.	008	049	SW	19.00		1976	1976	A			A	USGS	D
14010001	COLORADO RIVER NEAR KREMMLING, CO.	008	049	SW	2382.00	124	1976	1978	A			A	USGS	D
14010001	COLORADO RIVER NEAR DOTSERO, CO.	008	037	SW	4394.00		1959		4	E		4	USGS	D
14010001	COLORADO RIVER AT GLENWOOD SPRINGS, CO.	008	045	SW	4558.00		1953	1966	4	E		4	USGS	D
14010001	EAST TROUBLESOME 7 MI NE KREMMLI	008	049	SW			1971	1975	A				USFS	D
14010001	WILLIAMS FK BI. KINNEY CR ATLEAL	008	049	SW			1975	1975	A				USFS	D
14010001	ST LOUIS CR ABV FRASER	008	007	SW			1976	1976	R			R	USGS	D
14010001	RANCH CR NR TABERNASH	008	007	SW			1976	1976	R			R	USGS	D
14010001	FRASER R ABV GRANBY STP NR GRANBY	008	007	SW			1976	1976	A			A	USGS	D
14010001	FRASER R AT CONFLUENCE WITH COLORADO R	008	049	SW			1976	1976	R			R	USGS	D
14010002	WEST TENMILE CREEK AT COPPER MOUNTAIN, CO.	008	117	SW	21.00		1972		0			0	USGS	D
14010002	BLUE RIVER BELOW GREEN MOUNTAIN RESERVOIR, C	008	117	SW	599.00	014	1976	1978	A			A	USGS	D
14010002	BLUE R AT BLUE R ABV GOOSE PASTURE TARN	008	117	SW			1976	1976	R			R	USGS	D
14010002	SWAN R AT MOUTH NR FRISCO	008	075	SW			1976	1976	A			A	USGS	D
14010002	STRAIGHT CR AT MOUTH NR FRISCO	008	075	SW			1976	1976	R			R	USGS	D
14010002	BLUE R NR SILVERTHORNE	008	117	SW			1976	1976	R			R	USGS	D
14010002	BLUE R ABV PASS CR BLW SIERRA BOSQUE	008	075	SW			1976	1976	A			A	USGS	D
14010002	BLUE R BLW SIERRA BOSQUE	008	075	SW			1976	1976	R			A	USGS	D
14010003	BLACK GORE CREEK NEAR VAIL, CO.	008	037	SW	19.00	004	1972		0			0	USGS	D
14010003	GORE CREEK AT VAIL, CO.	008	037	SW	55.00		1973		0			0	USGS	D
14010003	EAGLE RIVER AT GYPSUM, CO.	008	037	SW	844.00	023	1947		5			5	USGS	D
14010003	EAST BRUSH CR AT YEOMAN PARK NR	008	037	SW			1976	1976	R			R	USGS	D
14010003	GYPSUM CR AT MOUTH NR GYPSUM	008	037	SW			1976	1976	R			R	USGS	D
14010003	MILK CR. AT MOUTH, NR. WOLCOTT	008	037	SW			1976	1976	R			R	USGS	D
14010004	CRYSTAL RIVER AB AVALANCHE C, NEAR REDSTONE,	008	097	SW	167.00	004	1976	1976	A			A	USGS	D
14010004	NORTH THOMPSON CREEK NEAR CARBONDALE, CO.	008	097	SW	26.80	024	1976	1976	A			A	USGS	D
14010004	ROARING FORK RIVER AT GLENWOOD SPRINGS, CO.	008	045	SW	1451.00		1959		4	E		4	USGS	D
14010004	DIFFICULT CREEK NR. MOUTH AT DIF	008	097	SW			1976	1976	A			A	USGS	D
14010004	CRYSTAL R ABV COAL CR NR REDSTONE	008	097	SW			1976	1976	R			A	USGS	D
14010004	COAL CR BL MIDCONTINENT AT REDSTONE	008	055	SW			1976	1976	R			R	USGS	D
14010004	COAL CR ABV MIDCONTINENT NR REDSTONE	008	097	SW			1976	1976	R			R	USGS	D
14010004	ROARING FORK R. BLW SNOWMASS	008	097	SW			1976	1976	A				USGS	D
14010004	SOPRUS CR ABV CONFLUENCE NR BASALT	008	055	SW			1976	1976	R			A	USGS	D
14010004	FRYINGPAN RIVER AT MEREDITH	008	037	SW			1973		A				USFS	D
14010005	WEST DIVIDE CREEK NEAR RAVEN, CO.	008	077	SW	64.60	004	1957	1958	E				USGS	P

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14010005	COLORADO RIVER NEAR DE BEQUE, CO.	008	077	SW	7370.00	124	1970		O	E		O	USGS	D
14010005	PLATEAU CREEK NEAR COLLBRAN, CO.	008	077	SW	80.40	124	1950	1958	E				USGS	P
14010006	PARACHUTE CREEK NEAR GRAND VALLEY, CO.	008	045	SW	141.00	024	1973		2			2	USGS	D
14010006	PARACHUTE CREEK AT GRAND VALLEY, CO.	008	045	SW	198.00		1974		E	E		O	USGS	D
14010006	ROAN CREEK NEAR DE BEQUE, CO.	008	045	SW	321.00	024	1974		O			O	USGS	D
14020002	CIMARRON RIVER NEAR CIMARRON, CO.	008	051	SW	66.60	124	1956	1958	E				USGS	P
14020002	SMITH FORK NEAR CRAWFORD, CO.	008	029	SW	43.70	024	1952	1957	E				USGS	P
14020005	SURFACE CREEK AT CEDAREDGE, CO.	008	029	SW	39.50	124	1952	1953	E				USGS	P
14020005	GUNNISON RIVER NEAR GRAND JUNCTION, CO.	008	077	SW	7928.00		1856		4	E		4	USGS	D
14020006	UNCOMPAHGRE RIVER AT DELTA, CO.	008	029	SW	1129.00	024	1958		4	E		4	USGS	D
14030002	DOLORES RIVER AT DOLORES, CO.	008	083	SW	504.00	124	1940	1958	E	E			USGS	P
14030004	DOLORES RIVER NEAR CISCO,UT.	049	019	SW	4580.00	014	1948		2			2	USGS	D
14030005	COLORADO RIVER NEAR CISCO UTAH	049	019	SW	24100.00	014	1928		O	K		O	USGS	D
14030005	MILL CR NR MOAB UTAH	049	019	SW	74:90	014	1971		O	E		O	USGS	D
14040101	GREEN RIVER AT WARREN BRIDGE, NEAR DANIEL, W	056	035	SW	468.00	014	1962		H	Q		H	USGS	D
14040101	HORSE CREEK NEAR DANIEL, WYO.	056	035	SW	124.00	014	1969		A			A	USGS	D
14040101	GREEN RIVER NEAR BIG PINEY, WYO.	056	035	SW		014	1967		M	E		M	USGS	D
14040101	NEW FORK RIVER NEAR BIG PINEY, WYOMING	056	035	SW	1230.00	014	1964		H	N		H	USGS	D
14040101	DRY BASIN C NR BIG PINEY WY	056	035	SW	47.20	004	1965		M	9		9	USGS	D
14040101	DRY PINEY CREEK NEAR BIG PINEY, WYO.	056	035	SW	67.00	004	1965	1973	2	A		2	USGS	D
14040101	LA BARGE CR NR LA BARGE MEADOWS RANGER STA,	056	023	SW	6.30	004	1975		M	E		7	USGS	D
14040101	GREEN R NR LABARGE WYO	056	023	SW	3910.00		1962		H	R		H	USGS	D
14040101	FONTENELLE CR NR HERSCHLER RANCH, NR FONTENE	056	023	SW	152.00	004	1975		M	E		7	USGS	D
14040101	BUCKHORN C AT LOWER FARSON CUTOFF WY	056	037	SW			1976	1976	A	A		A	USGS	D
14040102	PINE CREEK ABOVE FREMONT LAKE, WYO.	056	035	SW	75.80	004	1975		M	E		7	USGS	D
14040102	EAST FORK RIVER NEAR BIG SANDY, WYO.	056	035	SW	79.20	004	1975		M	E		5	USGS	D
14040102	SILVER CREEK NEAR BIG SANDY, WYO.	056	035	SW	45.40	014	1965		A			A	USGS	D
14040102	SAND SPRINGS DRAW TR NR BOULDER WY	056	035	SW	2.77	004	1975		M		9		USGS	D
14040103	GREEN R BEL FONTENELLE RES WYO	056	037	SW	4500.00	014	1966		H	R		H	USGS	D
14040103	FOURMILE GULCH TR NR FONTENELLE WY	056	037	SW	14.20	004	1975		M		9		USGS	D
14040103	E OTTERSON WASH NR GREEN R WY	056	037	SW	16.60	004	1975	1976	M			9	USGS	D
14040103	GREEN RIVER AT BIG ISLAND, NEAR GREEN RIVER,	056	037	SW		014	1966		N	A		N	USGS	D
14040103	SKUNK CANYON C NR GREEN R WY	056	037	SW	15.70	004	1975		M		9		USGS	D
14040104	BIG SANDY RIVER AT LECHIE RANCH NR. BIG SAND	056	035	SW	94.00	004	1961		M		A		USGS	D
14040104	BIG SANDY CREEK NEAR FARSON, WYOMING	056	035	SW	322.00	014	1962		N	A		N	USGS	D
14040104	LITTLE SANDY CREEK ABOVE EDEN, WYO.	056	037	SW	170.00	014	1963		M	E		9	USGS	D
14040104	BIG SANDY RIVER BELOW EDEN WYO	056	037	SW	1610.00	014	1961		M	A		M	USGS	D
14040104	BIG SANDY R AT GASSON BRIDGE, NR EDEN, WYO.	056	037	SW	1720.00	014	1975		M	E		7	USGS	D
14040104	JACK MORROW C SITE A	056	037	SW			1976	1976	A	A		A	USGS	D
14040104	GIB SANDY RIVER BL L SANDY C NR FARSON, WY	056	037	SW			1976		A	A		A	USGS	D

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14040104	JACK MORROW C SITE B	056	037	SW			1976	1976	A	A		A	USGS	D
14040104	PARNELL C SITE C	056	037	SW			1976	1976	A	A		A	USGS	D
14040104	ROCK CABIN C SITE D	056	037	SW			1976	1976	A	A		A	USGS	D
14040104	JACK MORROW C NR FARSON WY	056	037	SW			1976	1976	A	A		A	USGS	D
14040104	PACIFIC C AB JACK MORROW C NR FARSON WY	056	037	SW			1976	1976	A	A		A	USGS	D
14040105	BITTER CREEK NEAR BITTER CREEK, WYO	056	037	SW	308.00	004	1975		E	E		E	USGS	D
14040105	DEADMAN WASH NR POINT OF ROCKS WYO	056	037	SW	152.00	004	1975		M		A		USGS	D
14040105	BITTER CR NR POINT OF ROCKS WYO	056	037	SW	759.00	004	1975		K	A		K	USGS	D
14040105	BITTER C AB SALT WELLS C NR SALT WELLS WY	056	037	SW	836.00	024	1975		M	Q	Q	E	USGS	D
14040105	SALT WELLS C NR S BAXTER WY	056	037	SW		004	1975		M	Q	Q	E	USGS	D
14040105	GAP C AB BEANS SP C NR SO BAXTER	056	037	SW	22.00	004	1975		M	9		7	USGS	D
14040105	BEANS SPRING C NR SOUTH BAXTER WY	056	037	SW	4.92	004	1975		M	9		9	USGS	D
14040105	BEANS SPRING C AT MOUTH NR SO BAXT	056	037	SW	13.10	004	1975		M	5		5	USGS	D
14040105	GAP C BL BEANS SP C NR S BAXTER WY	056	037	SW	35.90	004	1974		M	5		2	USGS	D
14040105	DRY CANYON C NR SOUTH BAXTER WY	056	037	SW	3.69	004	1976		M		9		USGS	D
14040105	BIG FLAT DRAW NR ROCK SPRINGS WY	056	037	SW	19.50	004	1975	1976	M	8		8	USGS	D
14040105	CUTTHROAT DRAW NR ROCK SPRINGS WY	056	037	SW	7.88	004	1975		M		9		USGS	D
14040105	NO NAME C NR ROCK SPRINGS WY	056	037	SW	18.20	004	1975		M	9		E	USGS	D
14040105	SALT WELLS CR NR ROCK SPRINGS WYO	056	037	SW	515.00	004	1968		N	K		N	USGS	D
14040105	SALT WELLS CREEK NEAR SALT WELLS WY	056	037	SW	526.00	004	1976		M	Q	Q	E	USGS	D
14040105	BITTER CR BEL LITTLE BITTER CR NR KANDA WYO	056	037	SW		004	1975		M	Q	Q		USGS	D
14040105	BITTER C TR NR GREEN R WY	056	037	SW	1.65	004	1975		M				USGS	D
14040105	SALT WELLS C AT SITE X	056	037	SW			1976	1976	A	A		A	USGS	D
14040105	SALT WELLS C 3.0MI AB ALKALI C NR S BAXTER W	056	037	SW			1976		R	R		A	USGS	D
14040105	SALT WELLS C AT SITE A	056	037	SW			1976	1976	A	A		A	USGS	D
14040105	ALKALI C AT MOUTH NR S BAXTER WY	056	037	SW			1976	1976	A	A		A	USGS	D
14040105	SALT WELLS C AT SITE B	056	037	SW			1976	1976	R	R		R	USGS	D
14040105	SALT WELLS C 2.2MI AB ALKALI C NR S BAXTER W	056	037	SW			1976		R	A			USGS	D
14040105	SALT WELLS C BL ALKALI C NR S BAXTER WY	056	037	SW			1976		R	R		S	USGS	D
14040105	GAP C NR RED SPRINGS RANCH WY	056	037	SW			1976	1976	A	A		A	USGS	D
14040105	LITTLE BASIN C AT MOUTH NR SOUTH BAXTER WY	056	037	SW			1976	1976	N	N		N	USGS	D
14040105	LITTLE BASIN C TRIB	056	037	SW			1976	1976	A	A		A	USGS	D
14040105	DRY CANYON CR AB PIO RESERVOIR NR S BAXTER W	056	037	SW			1976	1976	A	A		A	USGS	D
14040105	SALT WELLS C AB GAP C NR S BAXTER WY	056	007	SW			1976	1976	R	R		R	USGS	D
14040105	DANS CREEK NR SOUTH BAXTER WY	056	037	SW			1976	1976	R	R		R	USGS	D
14040105	GAP C AT MOUTH NR S BAXTER WY	056	037	SW			1976		N	N		N	USGS	D
14040105	DRY CANYON AT MOUTH NR SOUTH BAXTER WY	056	037	SW			1976	1976	A	A		A	USGS	D
14040105	SALT WELLS C BELOW DRY CANYON C NR S. BAXTER	056	037	SW			1976	1976	A	A		A	USGS	D
14040105	SALT WELLS C AT SITE F	056	037	SW			1976	1976	A	A		A	USGS	D
14040105	PRETTY WATER CR AT MOUTH NR S BAXTER WY	056	037	SW			1976	1976	A	A		A	USGS	D

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14040105	IRON PIPE DRAW AT FORT LA CLEDE, WY	056	037	SW			1976	1976	A	A		A	USGS	D
14040105	LANEY WASH AT FORT LA CLEDE, WY	056	037	SW			1976		A	A		A	USGS	D
14040105	BITTER C AB ANTELOPE C NR FORT LA CLEDE,WYO	056	037	SW			1976	1976	A	A		A	USGS	D
14040105	ANTELOPE C AT MOUTH NR FORT LA CLEDE,WYO	056	037	SW			1976	1976	A	A		A	USGS	D
14040105	BITTER C BL PATRICK DRAW NR BITTER C, WY	056	037	SW			1976	1976	A	A		A	USGS	D
14040105	BITTER C AT BLACK BUTTES STAGE STATION, WY	056	037	SW			1976	1976	A	A		A	USGS	D
14040105	RYCKMAN C AT MOUTH NR ELKOL,WY	056	041	SW			1976	1976	A	A			USGS	D
14040105	L MUDDY C AB RYCKMAN C NR ELKOL,WY	056	041	SW			1976	1976	A	A		A	USGS	D
14040105	SALT WELLS CR AT IRON CULVERT NR ROCK SPRING	056	037	SW			1976	1976	A	A		A	USGS	D
14040106	GREEN R. NR GREEN RIVER, WYO.	056	037	SW	10000.00	124	1950		O	A		O	USGS	D
14040106	GREEN RIVER BELOW GREEN RIVER WYO	056	037	SW		014	1974		A	A		A	USGS	D
14040106	SQUAW HOLLOW NEAR BURNTFORK, WY	056	037	SW	6.57	004	1975		M			9	USGS	D
14040106	GREEN R TR NO 2 NR BURNTFORK WY	056	037	SW	13.00	004	1975	1976	M			9	USGS	D
14040106	HENRYS FORK NEAR LONETREE, WYO.	056	041	SW	56.00	014	1969		A			A	USGS	D
14040106	BURNT FORK NEAR BURNTFORK, WYO.	049	041	SW	52.80	124	1969		N	N		N	USGS	D
14040106	HENRYS FORK NEAR LINWOOD UT	056	037	SW	520.00	124	1951		H	K		H	USGS	D
14040106	GREEN RIVER NEAR GREENDALE, UTAH	049	009	SW	15100.00		1955		2	R		2	USGS	D
14040106	RED CREEK NEAR DUTCH JOHN,UTAH	049	009	SW	140.00	014	1971	1976	O	E		O	USGS	D
14040106	UPPER MARSH C NR ROCK SPRINGS WYO	056	037	SW			1975	1975	A			A	USGS	D
14040106	CURRANT C AB CURRANT C RANCH WYO	056	037	SW			1976	1976	A	A		A	USGS	D
14040106	CURRANT CR NR MOUTH NR MCKINNON JUNCTION WY	056	037	SW			1976	1976	A	A		A	USGS	D
14040106	SAGE C AB SAGE C RANCH NR SHEEP MOUNTAIN,WYO	056	037	SW			1976	1976	A	A		A	USGS	D
14040106	SAGE C BL SAGE C RANCH NR GREASEWOOD DRAW,WY	056	037	SW			1976	1976	A	A		A	USGS	D
14040106	SAGE C NR ROCK SPRINGS WYO	056	037	SW			1975	1975	A			A	USGS	D
14040107	BLACKS FORK NEAR ROBERTSON, WYO.	049	043	SW	130.00	014	1971		A	A		A	USGS	D
14040107	BLACKS FORK NEAR MILLBURNE, WYO.	056	041	SW	156.00	014	1969		M	E		M	USGS	D
14040107	EAST FORK OF SMITH FORK NR ROBERTSON, WYO.	056	041	SW	53.00	004	1975		N	N		N	USGS	D
14040107	WEST FORK OF SMITH FORK NR ROBERTSON, WYO.	056	041	SW	37.20	004	1975		N	N		N	USGS	D
14040107	SMITHS FORK NR ROBERTSON, WYO.	056	041	SW	144.00	014	1969		A	A		A	USGS	D
14040107	SMITHS FORK NEAR LYMAN, WY	056	041	SW		014	1974		N	E		N	USGS	D
14040107	MUD SPRING HOLLOW NR CHURCH BUTTE NR LYMAN W	056	041	SW	8.83	004	1975		M		A		USGS	D
14040107	BLACKS FK NR LYMAN WYO	056	041	SW	821.00	014	1962		R	A		R	USGS	D
14040107	HAMS FORK BL POLE CR, NR FRONTIER, WYO.	056	023	SW	128.00	004	1975		M	E		7	USGS	D
14040107	HAMS FORK NEAR GRANGER, WYO.	056	037	SW	670.00	014	1965		N	A		N	USGS	D
14040107	BLACKS F TR NR GRANGER WY	056	037	SW	5.03	004	1975		M				USGS	D
14040107	BLACKS FORK RIVER NEAR LITTLE AMERICA WYO	056	037	SW	3100.00	014	1951		2	A		2	USGS	D
14040107	MEADOW SPRINGS WASH TR NR GREEN R	056	037	SW	5.22	004	1975		M		9		USGS	D
14040107	BLACKS F TR NR 2 NR GREEN R WY	056	037	SW	12.00	004	1975		M		9		USGS	D
14040107	BLACKS F TR NO 3 NR GREEN R WY	056	037	SW	3.59	004	1975		M		9		USGS	D
14040107	BLACKS F TR NO 4 NR GREEN R WY	056	037	SW	1.26	004	1975		M		9		USGS	D

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14040107	SUMMERS DRY C NR GREEN RIVER WY	056	037	SW	423.00	004	1975		M	9		8	USGS	D
14040107	L MUDDY C AB WARFIELD C NR ELKOL,WY	056	023	SW			1976	1976	A	A		A	USGS	D
14040107	N F L MUDDY C TRIB NO. 2 NR ELKOL,WY	056	023	SW			1976	1976	A	A		A	USGS	D
14040108	LITTLE MUDDY C NR GLENCOE WY	056	023	SW	416.00	004	1975		M		A		USGS	D
14040108	MUDDY CREEK NEAR HAMPTON WYO	056	041	SW	963.00	004	1975		M		A		USGS	D
14040108	MUDDY CREEK NEAR HAMPTON WYO	056	041	SW	963.00		1976		H	E		H	USGS	D
14040108	MUDDY C AB SODA HOLLOW, NR LEROY, WY	056	041	SW			1976	1976	A	A		A	USGS	D
14040108	MUDDY C AB ROCK C NR CARTER,WY	056	041	SW			1976	1976	A	A		A	USGS	D
14040108	MUDDY C AT HAMPTON,WY	056	041	SW			1976	1976	A	A		A	USGS	D
14040108	L MUDDY C NR MOUTH NR HAMPTON,WY	056	041	SW			1976	1976	A	A		A	USGS	D
14040108	L MUDDY C AB BELL C NR ELKOL,WY	056	023	SW			1976	1976	A	A			USGS	D
14040108	L MUDDY C AB N F NR GLENCO,WY	056	023	SW			1976	1976	A	A		A	USGS	D
14040108	N F L MUDDY C AT MOUTH NR GLENCO,WY	056	023	SW			1976	1976	A	A		A	USGS	D
14040108	L MUDDY C AB SHEEP C NR ELKOL,WY	056	023	SW			1976	1976	A	A		A	USGS	D
14040108	SHEEP C AT MOUTH NR ELKOL,WY	056	023	SW			1976	1976	A	A		A	USGS	D
14040108	CARTER C AT MOUTH AT ELKOL,WY	056	023	SW			1976	1976	A	A		A	USGS	D
14040108	N F L MUDDY C NR ELKOL WY	056	023	SW			1976	1976	A	A		A	USGS	D
14040108	WARFIELD C AT MOUTH NR ELKOL,WY	056	023	SW			1976	1976	A	A		A	USGS	D
14040108	CHICKEN C AB ROAD HOLLOW NR ELKOL,WY	056	023	SW			1976	1976	A	A		A	USGS	D
14040108	ROAD HOLLOW AT MOUTH NR ELKOL,WY	056	023	SW			1976	1976	A	A		A	USGS	D
14040108	N F L MUDDY C AT BLAZON JUNCTION,WY	056	023	SW			1976	1976	A	A			USGS	D
14040108	N F L MUDDY C TRIB NO. 1 NR ELKOL,WY	056	023	SW			1976	1976	A	A		A	USGS	D
14040109	VERMILLION C NR HIAWATHA CO	056	037	SW	196.00	004	1975		M	Q	Q		USGS	D
14040109	SALT WELLS C BL PINE LK NR S BAXTER WY	056	037	SW			1976	1976	A	A		A	USGS	D
14040109	NF VERMILLION C NR PINE MTN WY	056	037	SW			1976	1976	A	A		A	USGS	D
14040109	VERMILLION C NR GUY RIFE RANCH NR HIAWATHA C	056	037	SW			1976		A	A		A	USGS	D
14040109	VERMILLION C AB BELL SP NR HIAWATHA CO	056	037	SW			1976		A	A		A	USGS	D
14040109	COYOTE C AT MOUTH NR HIAWATHA CO	056	037	SW			1976	1976	A	A		A	USGS	D
14040109	VERMILLION C AB COYOTE C, NR HIAWATHA, CO	056	037	SW			1976	1976	A	A		A	USGS	D
14040109	NF VERMILLION C NR RIFE RANCH WY	056	037	SW			1976	1976	A	A		A	USGS	D
14040200	SEPARATION C AT UP STA NR RINER WY	056	007	SW			1975		K	K		K	USGS	D
14040200	SEPARATION C NR RINER WYO	056	007	SW			1975		N	N		N	USGS	D
14040200	SEPARATION C AT UPPER STA NR RINER	056	007	SW	41.80	004	1975		M		9		USGS	D
14040200	SEPARATION C NR RINER WYO	056	007	SW	55.30	004	1974		M	Q	Q	2	USGS	D
14040200	DELANEY DRAW NR RED DESERT WYO	056	037	SW	32.80	004	1976	1978	S	A		S	USGS	D
14040200	SITE S-10	056	007	SW			1976	1976	K	K		R	USGS	D
14040200	SITE S-9	056	007	SW			1976	1976	A	A		A	USGS	D
14040200	SITE S-14	056	007	SW			1976	1976	K	K		A	USGS	D
14040200	SITE S-6	056	007	SW			1976	1976	K	K		A	USGS	D
14040200	SITE S-20A	056	007	SW			1976	1976	R	R		R	USGS	D

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14040200	SITE S-20B	056	007	SW			1976	1976	R	R		R	USGS	D
14040200	SITE S-20C	056	007	SW			1976	1976	R	R		R	USGS	D
14040200	SITE S-27	056	007	SW			1976	1976	R	R		R	USGS	D
14040200	SEPERATION C RILL A2R BL GAGE NR RINER WY	056	037	SW			1976	1976	A	A		A	USGS	D
14040200	SEPARATION CR RILL AIL BL GAGE NR RINER WY	056	037	SW			1976	1976	A			A	USGS	D
14040200	LARSON DRAW NR COMMAND CENTER	056	037	SW			1976	1976	A	A		A	USGS	D
14040200	SITE S-32	056	037	SW			1975		R	R		R	USGS	D
14040200	SITE S-39	056	037	SW			1976	1976	A	A		A	USGS	D
14040200	SITE S-41	056	007	SW			1976	1976	A	A		A	USGS	D
14040200	RED C AB HAY RES	056	037	SW			1976	1976	A	A		A	USGS	D
14040200	LOST C BL EAGLES NEST SPRING	056	037	SW			1976	1976	A	A		A	USGS	D
14040200	BUSH C AT MOUTH	056	037	SW			1976	1976	A	A		A	USGS	D
14040200	LOST C AB EAGLES NEST SPRING	056	037	SW			1976	1976	A	A		A	USGS	D
14040200	RED C AT ROCKY CROSSING	056	037	SW			1976	1976	A	A		A	USGS	D
14040200	RED C TRIB AT ROCKY CROSSING	056	037	SW			1976	1976	A	A		A	USGS	D
14040200	LOST C AT GOODFORD CROSSING	056	037	SW			1976	1976	A	A		A	USGS	D
14040200	RED C TRIB NR 5-FINGERS BUTTE	056	037	SW			1976	1976	A	A		A	USGS	D
14040200	RED C NR FIVE FINGERS BUTTE	056	037	SW			1976	1976	A	A		A	USGS	D
14040200	BEAR C NR HONEYCOMB BUTTE	056	037	SW			1976	1976	A	A		A	USGS	D
14040200	BEAR C AB NORTH FORK BEAR C	056	037	SW			1976	1976	A	A		A	USGS	D
14040200	NORTH FORK BEAR C AT MOUTH	056	037	SW			1976	1976	A	A		A	USGS	D
14040200	LOST SOLDIER C NR LOST SOLDIER LAKE	056	007	SW			1976	1976	A	A		A	USGS	D
14040200	LOST C AB BIG BEND	056	037	SW			1976	1976	A	A		A	USGS	D
14040200	LOST C TRIB AB BIG BEND	056	037	SW			1976	1976	A	A		A	USGS	D
14040200	RED C AT FOOTHILLS	056	037	SW			1976	1976	A	A		A	USGS	D
14040200	LOST C BL ARAPAHOE C	056	037	SW			1976	1976	A	A		A	USGS	D
14040200	LOST SOLDIER C NR BAIROIL	056	007	SW			1976	1976	A	A		A	USGS	D
14040200	RED C AT CYCLONE RIM	056	037	SW			1976	1976	A	A		A	USGS	D
14040200	LOST C AB ARAPAHOE C	056	037	SW			1976	1976	A	A		A	USGS	D
14040200	LOST C TRIB AB ARAPAHOE C	056	037	SW			1976	1976	A	A		A	USGS	D
14050001	FISH CREEK NEAR STEAMBOAT SPRING	008	107	SW	26.00	024	1947	1976	E			E	USGS	D
14050001	YAMPA RIVER AT STEAMBOAT SPRINGS, CO.	008	107	SW	604.00	024	1949		E	E		E	USGS	D
14050001	MAD CREEK NEAR STEAMBOAT SPRINGS	008	107	SW	40.00	024	1957	1976	E			E	USGS	D
14050001	ELK RIVER NEAR TRULL, CO.	008	107	SW	415.00	024	1947	1976	E			E	USGS	D
14050001	MIDDLE CREEK NEAR OAK CREEK, CO.	008	107	SW		004	1975		M				USGS	D
14050001	FOIDEL CREEK NEAR OAK CREEK, CO.	008	107	SW			1975		M				USGS	D
14050001	FOIDEL CREEK AT MOUTH, NEAR OAK CREEK, CO.	008	107	SW		004	1975		O				USGS	D
14050001	YAMPA RIVER BELOW DIVERSION, NEAR HAYDEN, CO	008	107	SW	1430.00		1975		E	E		E	USGS	D
14050001	ELKHEAD CREEK NEAR ELKHEAD, CO.	008	107	SW	64.20	004	1957		E	E		E	USGS	D
14050001	NORTH FORK ELKHEAD CREEK NEAR ELKHEAD, CO.	008	107	SW	21.00	004	1975	1975	A			A	USGS	D

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14050001	ELKHEAD CREEK NEAR CRAIG, CO.	008	081	SW	249.00	024	1957	1976	E			E	USGS	D
14050001	YAMPA RIVER BELOW ELKHEAD CREEK NEAR CRAIG,	008	081	SW		024	1975		E				USGS	D
14050001	YAMPA RIVER AT CRAIG, CO.	008	081	SW	1730.00	024	1947	1976	E			E	USGS	D
14050001	YAMPA RIVER BELOW CRAIG, CO.	008	081	SW		024	1975		E				USGS	D
14050001	WILLIAMS FORK AT MOUTH, NEAR HAMILTON, CO.	008	081	SW		024	1975		E	E		E	USGS	D
14050001	BEAR RIVER #1,14 MI SW YAMPA COL	008	045	SW			1974	1975	A				USFS	D
14050001	BEAR RIVER #2,13 MI SW YAMPA COL	008	045	SW			1974	1975	A				USFS	D
14050001	BEAR RIVER #3,10 MI SW YAMPA COL	008	045	SW			1974	1975	A				USFS	D
14050001	FLOYD CREEK ABV. FRST BDRY	008	107	SW			1975	1975	A				USFS	D
14050001	CHIMNEY CREEK AT TRAPPER, CO.	008	107	SW			1975		E			E	USGS	D
14050001	YAMPA RIVER AT PHIPPSBURG, CO.	008	107	SW			1975		E			E	USGS	D
14050001	LITTLE MORRISON CREEK NEAR STAGE	008	107	SW			1975		E			E	USGS	D
14050001	OAK CREEK AB OAK CREEK DRAIN NEA	008	107	SW			1972		E			E	USGS	D
14050001	OAK CREEK ABOVE ROUTT, CO.	008	107	SW			1972		E			E	USGS	D
14050001	HARRISON CREEK AT MOUTH NR BLACK	008	107	SW			1975	1975	A			A	USGS	D
14050001	WILLIAMS FORK BL MORAPOS CREEK A	008	081	SW			1975	1975	A			A	USGS	D
14050001	YAMPA RIVER AB OAK CREEK NR STEA	008	107	SW			1975		E			E	USGS	D
14050001	FISH CREEK AT MOUTH NEAR MILNER,	008	107	SW			1975		E			E	USGS	D
14050001	TROUT CREEK BELOW FOIDEL CREEK N	008	107	SW			1975	1975	A			A	USGS	D
14050001	YAMPA RIVER BELOW OAK CREEK NR S	008	107	SW			1975		E			E	USGS	D
14050001	BURGESS CREEK BL SKI AREA NR STE	008	107	SW			1975	1975	A				USGS	D
14050001	BURGESS CREEK AB SKI AREA NR STE	008	107	SW			1975		E				USGS	D
14050001	YAMPA RIVER AB SEWAGE PLANT BL S	008	107	SW			1975		E			E	USGS	D
14050001	FORTIFICATION CREEK BELOW CRAIG,	008	081	SW			1975	1975	A			A	USGS	D
14050001	FORTIFICATION CREEK ABOVE CRAIG,	008	081	SW			1975		E			E	USGS	D
14050001	ELKHEAD CREEK ABOVE ELKHEAD RESE	008	107	SW			1975		E			E	USGS	D
14050001	ELK RIVER BELOW SOUTH FORK AT HI	008	107	SW			1975		E			E	USGS	D
14050001	NORTH FORK ELK RIVER NEAR HINMAN	008	107	SW			1975	1975	A				USGS	D
14050002	WILSON CREEK NEAR AXIAL, CO.	008	081	SW	19.90		1973		P			R	USGS	D
14050002	JUBB CREEK NEAR AXIAL, CO.	008	081	SW			1974		M				USGS	D
14050002	YAMPA RIVER NEAR MAYBELL, CO.	008	081	SW	3410.00	124	1949		O	E		O	USGS	D
14050002	STINKING GULCH NEAR THRONBURGH,	008	081	SW			1975		E			E	USGS	D
14050002	MILK CREEK NEAR MOUTH NEAR AXIAL	008	081	SW			1975		E			E	USGS	D
14050003	LITTLE SNAKE RIVER NEAR SLATER, CO.	008	107	SW	285.00	004	1957		R	A		R	USGS	D
14050003	SLATER FORK NEAR SLATER, CO.	008	081	SW	161.00	004	1957		A	A		A	USGS	D
14050003	SAVERY CREEK AT UPPER STATION, NEAR SAVERY,	056	007	SW	200.00	024	1957		A	A		A	USGS	D
14050003	SAVERY CREEK NEAR SAVERY, WY.	056	007	SW	330.00	124	1975		A	A		A	USGS	D
14050003	SAVERY CREEK AT SAVERY, WY.	056	007	SW	354.00	124	1957		A			A	USGS	D
14050003	LITTLE SNAKE RIVER NEAR DIXON, WY.	056	007	SW	988.00	124	1957		N	A		N	USGS	D
14050003	WILLOW CREEK NEAR DIXON, WY.	008	081	SW	23.00	014	1957	1978	A	A		A	USGS	D

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14050003	LITTLE SNAKE RIVER NEAR BAGGS, WY.	056	037	SW	3020.00	014	1965		A	A			USGS	D
14050003	LITTLE SNAKE AB LILY COLO	008	081	SW			1950	1969	E	E			USGS	D
14050003	LITTLE SNAKE RIVER ABOVE LILY, CO.	008	081	SW			1949	1970	2			2	USGS	D
14050003	LITTLE SNAKE RIVER NEAR LILY, CO.	008	081	SW	3730.00		1970		E	E		E	USGS	D
14050003	BIG SANDSTONE CREEK	056	007	SW			1976		A				USFS	D
14050003	MIDDLE FK LITTLE SNAKE NR COLUMB	008	107	SW			1973	1975	A				USFS	D
14050003	WHISKEY CR,9 MI NO COLUMBINE	008	107	SW			1973	1975	A				USFS	D
14050003	WHISKEY CREEK AB WHISKEY PARK NR COLUMBINE,	008	107	SW			1972		A			A	USGS	D
14050003	L SAVERY C NR MCCARY RANCH, WY	056	007	SW			1976		A	S		A	USGS	D
14050003	DIRTYMAN F SAVERY C AT MOUTH NR BAGGS, WY	056	007	SW			1976		A	A		A	USGS	D
14050003	EF SAVERY C AT MOUTH NR BAGGS, WY	056	007	SW			1976		A	A		A	USGS	D
14050004	DRY COW C NR BAGGS WY	056	007	SW	49.70	004	1975		M	9		9	USGS	D
14050004	MUDDY CREEK ABOVE BAGGS, WY.	056	007	SW	1178.00	004	1976	1976	A	A			USGS	D
14050004	COW C AT MOUTH NR BAGGS WY	056	007	SW			1976	1976	A	A		A	USGS	D
14050004	MUDDY C AB CANARY GROVE DRAW NR BAGGS, WY	056	007	SW			1976	1976	A	A		A	USGS	D
14050004	MUDDY C NR DAD WY	056	007	SW			1976	1976	A	A		A	USGS	D
14050004	MUDDY C AB LITTLEFIELD C AT MC KEIL HOMESTEA	056	007	SW			1976	1976	A	A		A	USGS	D
14050004	LITTLEFIELD C AT MOUTH AT MCKEIL HOMESTEAD W	056	007	SW			1976	1976	A	A		A	USGS	D
14050004	ALAMOSA C NR SULFUR SPRINGS RANCH, WY	056	007	SW			1976	1976	A	A		A	USGS	D
14050004	MUDDY C AB ALAMOSA C NR SULFUR SPRINGS RANCH	056	007	SW			1976	1976	A	A		A	USGS	D
14050005	LOST CREEK NEAR BUFORD, CO.	008	103	SW	21.60	004	1975	1978	A	A		A	USGS	D
14050005	MARVINE CREEK NEAR BUFORD, CO.	008	103	SW	59.40	024	1975	1978	A	A		A	USGS	D
14050005	NORTH FORK WHITE RIVER AT BUFORD, CO.	008	103	SW	254.00	024	1952		E	E		E	USGS	D
14050005	SOUTH FORK WHITE RIVER NEAR BUFORD, CO.	008	103	SW	157.00	004	1975		E	E		E	USGS	D
14050005	WHITE RIVER ABOVE COAL CREEK, NEAR MEEKER, C	008	103	SW	660.00	024	1973	1978	A	A		A	USGS	D
14050005	WHITE RIVER NEAR MEEKER, CO.	008	103	SW	762.00	024	1970	1978	A	A		A	USGS	D
14050006	PICEANCE CREEK BELOW RIO BLANCO, CO.	008	103	SW	177.00	024	1973		O	E		O	USGS	D
14050006	MIDDLE FORK STEWART GULCH NEAR RIO BLANCO, C	008	103	SW	23.80		1976		W				USGS	D
14050006	STEWART GULCH AB WEST FORK, NEAR RIO BLANCO,	008	103	SW	43.40		1973		E			O	USGS	D
14050006	WEST FORK STEWART GULCH NEAR RIO BLANCO, CO.	008	103	SW	14.20	004	1973		2			2	USGS	D
14050006	W F STEWART GULCH AT MOUTH, NEAR RIO BLANCO,	008	103	SW	15.70		1975		E	E		3	USGS	D
14050006	SORGHUM GULCH NEAR RIO BLANCO, CO.	008	103	SW	1.22		1974		E			4	USGS	D
14050006	SORGHUM GULCH AT MOUTH, NEAR RIO BLANCO, CO.	008	103	SW	3.62		1974		9			9	USGS	D
14050006	COTTONWOOD GULCH NEAR RIO BLANCO, CO.	008	103	SW	1.20		1973		4			4	USGS	D
14050006	PICEANCE CREEK TRIBUTARY NEAR RIO BLANCO, CO	008	103	SW	1.06		1974		O				USGS	D
14050006	SCANDARD GULCH NEAR RIO BLANCO, CO.	008	103	SW	6.67		1975		4			E	USGS	D
14050006	SCANDARD GULCH AT MOUTH, NEAR RIO BLANCO, CO	008	103	SW	8.03		1973		3	A		3	USGS	D
14050006	WILLOW CREEK NEAR RIO BLANCO, CO.	008	103	SW	48.70		1973		E			O	USGS	D
14050006	PICEANCE CREEK AB HUNTER C, NEAR RIO BLANCO,	008	103	SW	309.00		1973		O	E		O	USGS	D
14050006	BLACK SULPHUR CREEK NEAR RIO BLANCO, CO.	008	103	SW	103.00	024	1974		O			O	USGS	D

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14050006	PICEANCE CREEK BL RYAN GULCH, NR RIO BLANCO,	008	103	SW	485.00	024	1970		P	E		0	USGS	D
14050006	PICEANCE CREEK AT WHITE RIVER, CO.	008	103	SW	629.00	024	1965		0	E		0	USGS	D
14050006	STAKE SPRINGS DRAW NEAR RANGELY, CO.	008	103	SW	26.10		1976		0			X	USGS	D
14050006	CORRAL GULCH BELOW WATER GULCH, NR RANGELY,	008	103	SW	8.61		1973		2	E		0	USGS	D
14050006	DRY FORK NEAR RANGELY, CO.	008	103	SW	2.74		1974		3			K	USGS	D
14050006	BOX ELDER GULCH NEAR RANGELY, CO.	008	103	SW	9.21	004	1973		2			2	USGS	D
14050006	BOX ELDER GULCH TRIBUTARY NEAR RANGELY, CO.	008	103	SW	3.50		1975		4			4	USGS	D
14050006	CORRAL GULCH NEAR RANGELY, CO.	008	103	SW			1973		0	E		0	USGS	D
14050006	CORRAL GULCH AT 84 RANCH, CO.	008	103	SW		004	1974	1977	0			0	USGS	D
14050006	YELLOW CREEK TRIBUTARY NEAR 84 RANCH, CO.	008	103	SW			1975	1977	R				USGS	D
14050006	DUCK CREEK AT UPPER STATION NEAR 84 RANCH, C	008	103	SW		004	1975	1977	E				USGS	D
14050006	DUCK CREEK NEAR 84 RANCH, CO.	008	103	SW			1975	1977	0				USGS	D
14050006	YELLOW CREEK NEAR WHITE RIVER, CO.	008	103	SW	260.00		1965		0	E		0	USGS	D
14050007	WHITE RIVER ABOVE RANGELY, CO.	008	103	SW	2790.00	024	1972		E	E		E	USGS	D
14050007	WHITE RIVER ABV HELLS HOLE CANYON NR WATSON	049	047	SW	4.12	004	1974	1976	P	Q	Q		USGS	C
14050007	HELL'S HOLE CAN AT MOUTH NR WATSON UT	049	047	SW		004	1975	1976			Q		USGS	C
14050007	EVACUATION C AB MI C NR DRAGON, UTAH	049	047	SW		004	1974		M	Q	Q		USGS	C
14050007	EVACUATION CR BLW PARK CAN NR WATSON UT	049	047	SW		004	1974	1975	P	Q	Q		USGS	C
14050007	THIMBLE ROCK CAN NR WATSON UT	049	047	SW		004	1974	1975			Q		USGS	C
14050007	EVACUATION CREEK AT WATSON UTAH	049	047	SW		004	1974	1975	P	Q	Q		USGS	C
14050007	EVACUATION CR TRIBUTARY NR WATSON UT	049	047	SW		004	1974	1975			Q		USGS	C
14050007	EVACUATION CR NR MOUTH NR WATSON,UT	049	047	SW		004	1973		P	Q	Q		USGS	C
14050007	WHITE R NR WATSON UT	049	047	SW	4020.00	014	1949		2			2	USGS	D
14050007	WHITE R ABV SOUTHAM CAN NR WATSON UT	049	047	SW		004	1974	1976	P	Q	Q		USGS	C
14050007	SOUTHAM CAN WASH NR WATSON UT	049	047	SW		004	1976	1976			Q		USGS	C
14050007	SOUTHAM CAN WASH AT MOUTH NR WATSON UT	049	047	SW		004	1976	1976			Q		USGS	C
14050007	ASPHALT WASH BLW CENTER FORK NR WATSON UT	049	047	SW		004	1976	1976			Q		USGS	C
14050007	ASPHALT WASH NR MOUTH NR WATSON, UTAH	049	047	SW		004	1975	1976			Q		USGS	C
14050007	WHITE R BLW ASPHALT WASH NR WATSON UT	049	047	SW		004	1974	1976	P	Q	Q		USGS	C
14050007	BITTER C AB DICK CAN NR WATSON, UTAH	049	047	SW		004	1974	1978	M	Q	Q		USGS	C
14050007	SWEETWATER CAN C BL S CAN NR WATSON, UTAH	049	047	SW		004	1974	1978	M	Q	Q		USGS	C
14050007	SWEETWATER CAN C NR MOUTH NR WATSON, UTAH	049	047	SW			1975	1978			Q		USGS	C
14050007	BITTER CR AT MOUTH NR BONANZA UT	049	047	SW		004	1974		M	Q	Q		USGS	C
14050007	SAND WASH NR OURAY UT	049	047	SW			1976	1976			Q		USGS	C
14050007	WHITE RIVER AT MOUTH NEAR OURAY UTAH	049	047	SW	1099.00	004	1973		0	E		0	USGS	D
14060001	GREEN RIVER NEAR JENSEN, UTAH	049	047	SW	25400.00	014	1947		0	E		0	USGS	D
14060003	DUCHESNE RIVER NEAR RANDLETT, UTAH	049	047	SW	3920.00	014	1949		0	R		K	USGS	D
14060005	GREEN RIVER NEAR OURAY, UTAH	049	047	SW	35500.00	014	1949	1966	2	K		2	USGS	D
14060005	PARIETTE DRAW NEAR OURAY, UTAH	049	047	SW		004	1975		M	Y	Y		USGS	P
14060005	PARIETTE DRAW NR EIGHT MILE FLAT NEAR MYTON	049	047	SW			1975		M	Y	Y		USGS	P

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14060005	PARIETTE DRAW AT MOUTH NEAR OURAY,UTAH	049	047	SW			1975		M	Y	Y		USGS	P
14060006	REID RANCH CANAL NR OURAY UT	049	047	SW			1974	1977			Q		USGS	C
14060006	HILL CR ABV TOWAVE RES NR OURAY UT	049	047	SW		004	1974		M	Q	Q		USGS	C
14060006	HILL CR NR MOUTH NR OURAY UT	049	047	SW			1975				Q		USGS	C
14060006	WILLOW CREEK NEAR OURAY, UTAH	049	047	SW	890.00	014	1949		0	Q	Q	0	USGS	D
14060007	PLEASANT VALLEY C BL W Q CAN AT SCOFIELD UT	049	007	SW	29.10	004	1978		Q	Q	Q		USGS	
14060007	SPRING CANYON BL SOWBELLY GULCH AT HELPER UT	049	007	SW	23.00	004	1978		Q	Q	Q		USGS	
14060007	COAL CREEK AT CANYON MOUTH NEAR HELPER, UTAH	049	007	SW			1976	1976	R	R	R		USGS	D
14060007	HORSE CANYON NR SUNNYSIDE, UT	049	007	SW	12.50	004	1978		Q	Q	Q		USGS	
14060007	PRICE RIVER AT WOODSIDE, UTAH	049	015	SW	1500.00	014	1921		Q	A		Q	USGS	D
14060007	SWASEY CREEK BELOW SUMMER HOMES	049	015	SW			1967		E				USFS	D
14060007	BLACK CANYON AT BRIDGE	049	015	SW			1970		E				USFS	D
14060008	GREEN RIVER AT GREEN RIVER, UTAH	049	015	SW	40600.00	014	1928		0	K		0	USGS	D
14060009	LITTLES CREEK AT GAGING STATION	049	015	SW			1970		B				USFS	C
14060009	CRANDALL CYN CREEK AT MOUTH NR HUNTINGTON, U	049	015	SW			1976	1976	R	R	R		USGS	D
14060009	TIE F CANYON NR HUNTINGTON UT	049	015	SW	11.70	004	1978		R	R	R		USGS	D
14060009	EPHRAIM TUNNEL NEAR EPHRAIM, UTAH	049	039	SW		024	1971	1975	Q	Q	Q		USGS	
14060009	COTTONWOOD CR AB STRAIGHT CAN NR ORANGEVILLE	049	015	SW	21.90	004	1978		R	R	R		USGS	D
14060009	COTTONWOOD CREEK NEAR ORANGEVILLE, UTAH	049	015	SW	205.00		1975		M	Y	Y		USGS	P
14060009	FERRON CREEK BEL PARADISE RANCH NR CLAWSON,	049	015	SW	221.00		1975		M	Y	Y		USGS	P
14060009	SAN RAFAEL R AT SAN R BR CAMPGROUND NR C DAL	049	015	SW	1284.00		1975		Q	K		K	USGS	D
14060009	SAN RAFAEL RIVER NEAR GREEN RIVER, UTAH	049	015	SW	1670.00	014	1946		2	A		2	USGS	D
14060009	SWASEY DIVERSION BELOW FOREST BD	049	015	SW			1972		E				USFS	D
14060009	SEELY CREEK AT GAGE	049	015	SW			1967		E				USFS	D
14060009	LOWRY WATER AT POTTERS PONDS	049	015	SW			1973		E				USFS	D
14060009	LOWER STRAIGHT CYN. AT FOREST BD	049	015	SW			1967		E				USFS	D
14060009	UPPER STRAIGHT CANYON	049	015	SW			1971		E				USFS	D
14060009	LOWRY WATER AT GAGE	049	015	SW			1967		E				USFS	D
14060009	INDIAN CREEK AT GAGE	049	015	SW			1972		E				USFS	D
14060009	REEDER CYN BELOW SUMMER HOMES	049	015	SW			1970		E				USFS	D
14060009	LITTLES CREEK AT GAGE	049	039	SW			1970		E				USFS	D
14060009	LITTLES CREEK AT HI-WAY BRIDGE	049	015	SW			1967		E				USFS	D
14060009	INDIAN CREEK AT ROAD CULVERT	049	015	SW			1971		E				USFS	D
14060009	FERRON CREEK USGS STATION	049	015	SW			1972		B				USFS	
14060009	INDIAN CREEK AT ROAD CULVERT	049	015	SW			1970	1972	B				USFS	C
14070001	COLORADO RIVER AT HITE, UTAH	049	037	SW	76600.00	014	1947	1975	2	W		2	USGS	D
14070002	MUDDY CR AT DELTA MINE NR HANKSVILLE, UT. 21	049	015	SW	841.00		1975		Q	S		R	USGS	D
14070002	MUDDY CREEK AT MOUTH NR HANKSVILLE, UT. 11.0	049	055	SW	1552.00	004	1975		N	N		N	USGS	D
14070002	MUDDY C AT USGS STATION	049	015	SW			1972		B				USFS	
14070003	PLEASANT CR NR CAINEVILLE, UT. 72.00	049	055	SW	115.00	014	1969	1972	2	R		2	USGS	D

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14070003	FREMONT RIVER NR CAINVILLE, UT. 71.00	049	055	SW	1190.00	014	1967	1978	2	E		2	USGS	D
14070005	PINE C BLUE SPRUCE C G	049	017	SW			1974		A				USFS	
14070006	COLORADO R AT LEES FERRY, AZ.	004	005	SW	107900.00	124	1926		2	N		2	USGS	D
14070007	PARIA R AT WHITE HOUSE RUINS NR GLEN CANYON,	049	025	SW		024	1977		M			M	USGS	D
14070007	PARIA R BLW WATER POCKETS GULCH NR PAGE, ARI	004	005	SW		024	1977		M			M	USGS	D
14070007	PARIA RIVER AT LEES FERRY, ARIZ.	004	005	SW	1410.00	024	1947		M			M	USGS	D
14080101	WOLF CREEK NEAR PAGOSA SPRINGS, CO.	008	079	SW	14.00		1970	1975	K	E		K	USGS	D
14080101	RIO BLANCO NEAR PAGOSA SPRINGS, CO.	008	007	SW	58.00	024	1960	1974	4	N		4	USGS	D
14080101	RIO BLANCO BL BLANCO DIV DAM, NR PAGOSA SPS,	008	007	SW		024	1972	1975	R	E		A	USGS	D
14080101	RIO BLANCO AT US HIGHWAY 84, NR PAGOSA SPGS,	008	007	SW		024	1972	1974	K	K		K	USGS	D
14080101	RIO BLANCO AT MOUTH, NEAR TRUJIL	008	007	SW		024	1972	1972	N				USGS	D
14080101	NAVAJO RIVER ABOVE CHROMO, CO.	008	007	SW	96.40		1960	1974	4	A		4	USGS	D
14080101	LITTLE NAVAJO RIVER BL LITTLE OS	008	007	SW			1974	1975	A	E		A	USGS	D
14080101	LITTLE NAVAJO RIVER AT CHROMO, CO.	008	007	SW	21.90	024	1974	1974	A	A		A	USGS	D
14080101	NAVAJO RIVER AT EDITH, CO.	008	007	SW	172.00	024	1969	1978	Q	N		Q	USGS	D
14080101	NAVAJO R. AB AMARGO CR. NR DULCE	035	039	SW		024	1972	1972	N				USGS	D
14080101	NAVAJO R. AT MOUTH NR JUANITA, C	008	007	SW		024	1972	1972	N				USGS	D
14080101	SAN JUAN RIVER NR CARRACAS, COLORADO	008	007	SW	1230.00	014	1969	1973	Q	A		Q	USGS	D
14080101	VALLECITO CREEK NEAR BAYFIELD, CO.	008	067	SW	72.10	004	1961		E			E	USGS	D
14080101	LOS PINOS RIVER NEAR BAYFIELD, CO.	008	067	SW	270.00	014	1948	1958	E				USGS	P
14080101	LOS PINOS RIVER AT LA BOCA, COLO.	008	067	SW	510.00	014	1969	1974	E	E		E	USGS	D
14080101	SAN JUAN RIVER NEAR ARCHULETA,NM	035	045	SW	3260.00	014	1953		2	E		2	USGS	D
14080101	SAN JUAN R NR BLANCO,NM	035	045	SW	3560.00	014	1944	1975	2			2	USGS	D
14080101	SAN JUAN RIVER AT BLOOMFIELD, NM	035	045	SW	5410.00	014	1957		2	A		2	USGS	D
14080101	28N.11W.15.122 KUNTZ CAN AT STHWY 44,NM 29E6	035	045	SW			1974	1974	A	A		A	USGS	D
14080101	SAN JUAN RIVER AT WEST HAMMOND BRIDGE, NM	035	045	SW			1975		A	A		A	USGS	D
14080101	SAN JUAN RIVER AT BLANCO BRIDGE, NM	035	045	SW			1975		A	A		A	USGS	D
14080101	30N.09W.25.143 PUMP CANYON AT ARCHULETA,NM 6	035	045	SW			1975	1975	A	A		A	USGS	D
14080101	30N.09W.19.422 GOBERNADOR WASH AT ARCHULETA	035	045	SW			1975	1975	A	A		A	USGS	D
14080102	MIDDLE FORK PIEDRA RIVER NR PAGOSA SPRINGS,	008	053	SW	32.20		1970	1975	N	E		N	USGS	D
14080102	PIEDRA RIVER NEAR ARBOLES, COLO.	008	007	SW	629.00	014	1969	1973	Q	A		Q	USGS	D
14080103	29N.09W.26.334 CANYON LARGO NR BLANCO,NM 29E	035	045	SW			1975	1975	A	A		A	USGS	D
14080104	ANIMAS RIVER AT HOWARDSVILLE, CO.	008	111	SW	55.90	004	1970	1975	N	E		N	USGS	D
14080104	MINERAL CREEK ABOVE SILVERTON, CO.	008	111	SW	11.00		1970	1975	N	E		N	USGS	D
14080104	ANIMAS RIVER NEAR CEDAR HILL, N. MEX.	008	067	SW	1090.00	014	1969	1975	E	E		E	USGS	D
14080104	ANIMAS RIVER AT FARMINGTON, NM	035	045	SW	1360.00	014	1939		O	E		O	USGS	D
14080104	LA PLATA RIVER AT HESPERUS, CO.	008	067	SW	37.00	024	1948	1958	E				USGS	P
14080105	SAN JUAN RIVER AT FARMINGTON, NM	035	045	SW	7240.00		1962		A	A		A	USGS	D
14080105	LA PLATA RIVER NEAR FARMINGTON, NM	035	045	SW	583.00		1970		Q				USGS	D
14080105	SAN JUAN RIVER AT SHIPROCK, NM	035	045	SW	12900.00	014	1941		O	E		O	USGS	D

HYDROLOGIC UNIT CODE	STATION NAME AND LOCATION	STATE	COUNTY	TYPE OF SITE	DRAINAGE AREA	BASIN DESCRIPTOR	QW BEGIN YEAR	QW END YEAR	SUSP SED CONCEN	SUSP PART SIZE	BED MAT PART SIZE	SUSP DISCHARGE	ORGANIZATION CODE	SED STOR MEDIA
14080105	SAN JUAN RIVER AT FRUITLAND BRIDGE, NM	035	045	SW			1975		A	A		A	USGS	D
14080105	SAN JUAN RIVER IN HOGBACK DIVERSION BYPASS,	035	045	SW			1975		A	A		A	USGS	D
14080105	SAN JUAN RIVER AT SHIPROCK BRIDGE, NM	035	045	SW			1975		A	A		A	USGS	D
14080105	WESTWATER ARROYO ABOVE SAN JUAN MINE, NM	035	045	SW			1975		A	A		A	USGS	D
14080105	30N.15W.06.422 WESTWATER ARR NR SPRINGS 3SWE	035	045	SW			1975	1975	A	A		A	USGS	D
14080106	CHACO WASH AT CHACO CANYON NATIONAL MONUMENT	035	045	SW			1976		N	N		N	USGS	D
14080106	ALAMO WASH NEAR TANNER LAKE , NM	035	045	SW			1974		A	A		A	USGS	D
14080106	DE-NA-ZIN WASH NR BISTI TRADING POST , NM	035	045	SW			1974		E	E		E	USGS	D
14080106	HUNTER WASH AT BISTI TRADING POST, NM	035	045	SW			1974		E	E		E	USGS	D
14080106	HUNTER TRIBURARY AT ROAD XING S. OF BISTI TP	035	045	SW			1976		S	S		A	USGS	D
14080106	NR067.0225X0788 COYOTE WASH NR NASCHITTI,NM	035	045	SW			1976		A	A		A	USGS	D
14080106	22N.10W.07.143 AHSHISLEPAH WASH,6 M W KIMBET	035	045	SW			1976		A	A			USGS	D
14080106	COAL CREEK ABOVE TANNER LAKE NEAR BISTI TP ,	035	045	SW			1975		S	S		A	USGS	D
14080106	23N.08W.07.2331 KIMBETO W AT STHWY 44,NM	035	045	SW			1974	1975	E	E		E	USGS	D
14080106	23N.13W.05.1413 HUNTER T AT RDX	035	045	SW			1975	1975	R	A		R	USGS	D
14080106	NR049.0367X0923 CHACO R AT BRIDGE NR BURNHAM	035	045	SW			1974		A	A		A	USGS	D
14080106	NR049.0433X0206 SANOSTEE WASH NR SANOTEE TP,	035	045	SW			1976		A	A		A	USGS	D
14080107	MANCOS RIVER NEAR TOWAOC, CO.	008	083	SW	550.00	124	1960	1978	2			2	USGS	D
14080201	COTTONWOOD WASH NR BLANDING UTAH	049	037	SW	205.00	004	1967	1978	2	E		2	USGS	D
14080201	SAN JUAN R AT 4 CORNERS BRIDGE,CO	008	083	SW			1975		A	A		A	USGS	D
14080205	SAN JUAN RIVER NEAR BLUFF, UTAH	049	037	SW	23000.00	014	1852		D	Q		D	USGS	D

LOWER COLORADO REGION 15

HYDROLOGIC UNIT CODE	STATION NAME AND LOCATION	STATE	COUNTY	TYPE OF SITE	DRAINAGE AREA	BASIN DESCRIPTOR	QW BEGIN YEAR	QW END YEAR	SUSP SED CONCEN	SUSP PART SIZE	BED MAT PART SIZE	SUSP DISCHARGE	ORGANIZATION CODE	SED STOR MEDIA
150059 F	COLORADO R AT RIVER SECTION 43	006	071	SW			1964		M	M	M		USBR	
150059 Q	COLORADO R AT YUMA ARIZONA	004	027	SW			1958		M	M	M		USBR	
150059 Q	COLO R AT TAYLOR FERRY	006	065	SW	183700.00		1964		M	M	M		USBR	
150059 S	COLORADO R AT N INTERNATIONAL BORY	004	027	SW			1961		Q				USIBW	P
150059 S	GILA R AT MOUTH AZ	004	027	SW			1958		W	W	M		USBR	
15010001	COLORADO R. NEAR GRAND CANYON, ARIZ.	004	005	SW	137800.00	124	1925		E	E	E	2	USGS	D
15010003	MILL CREEK ABOVE STUDY AREA NR GLENDALE,UT.	049	025	SW	4.81		1975	1977	M	M	M		USGS	D
15010003	SKUTUMPAH CR. BL STUDY AREA NR GLENDALE,UT.	049	025	SW	14.80		1975	1977	M	M	M		USGS	D
15010003	INTERMEDIATE DR NR GLENDALE UT	049	025	SW	2.49	004	1975	1977	M	M	M		USGS	D
15010003	THOMPSON CREEK ABV STUDY AREA NR GLENDALE, U	049	025	SW	9.80		1969	1977	M	M	M		USGS	D
15010003	THOMPSON CREEK BLW STUDY AREA NR GLENDALE, U	049	025	SW	16.60		1975	1977	M	M	M		USGS	D
15010003	KANAB CREEK NR FREDONIA, ARIZ.	004	005	SW	1085.00	024	1966	1973	2	E		2	USGS	D
15010005	LAKE MEAD AT HOOVER DAM, ARIZ.-NEV.	004	015	SW	167800.00	124	1958		5			5	USGS	D
15010008	EAST FORK VIRGIN RIVER NR GLENDALE UTAH	049	025	SW	74.00	004	1966		E	E		E	USGS	D
15010008	NF VIRGIN R.NR.GLENDALE,UTAH	049	025	SW		004	1973	1978	P			O	USGS	D
15010008	NF VIRGIN R BLW BULLOCK CANYON NR GLENDALE U	049	025	SW		004	1973	1978	O	E		O	USGS	D
15010008	NORTH FORK VIRGIN RIVER NEAR SPRINGDALE,UTAH	049	053	SW	350.00	014	1966	1978	E			E	USGS	D
15010008	VIRGIN RIVER AT VIRGIN UTAH	049	053	SW	934.00		1962	1971	2	R		2	USGS	D
15010008	VIRGIN RIVER NR HURRICANE UTAH	049	053	SW	1530.00	014	1967	1978	2	E		2	USGS	D
15010008	SANTA CLARA RIVER AB WINSOR DAM NR SANTA CLA	049	053	SW	338.00	014	1961	1972	2	E		2	USGS	D
15010009	FORT PIERCE WASH NR ST. GEORGE, UTAH	049	053	SW	1650.00	004	1966	1967	A	A		A	USGS	D
15010010	VIRGIN R AT BLOOMINGTON, UT	049	053	SW		004	1977		M			M	USGS	D
15010010	VIRGIN RIVER NEAR ST. GEORGE,UTAH	049	053	SW	3820.00	014	1966	1973	E	E		E	USGS	D
15010010	VIRGIN R AB I-15 REST AREA NR LITTLEFIELD, A	004	015	SW		004	1977		M			M	USGS	D
15010010	VIRGIN R BL I-15 REST AREA NR LITTLEFIELD, A	004	015	SW		004	1977		M			M	USGS	D
15010010	VIRGIN R AT MOUTH OF NARROWS NR LITTLEFIELD,	004	015	SW		004	1977		M			M	USGS	D
15010010	VIRGIN R AT LITTLEFIELD, AZ	004	015	SW	5090.00	004	1946		M	E		M	USGS	D
15010015	LAS VEGAS WASH NR HENDERSON, NV	032	003	SW	2125.00		1968		K			K	USGS	D
15010015	LAS VEGAS WASH NR BOULDER CITY, NV	032	003	SW	2193.00	013	1968		E	E		E	USGS	D
15020001	LITTLE COLORADO RIVER AT GREER, ARIZ	004	001	SW	30.90		1978		M			M	USGS	D
15020001	LITTLE COLORADO R AB LYMAN RES NR ST JOHNS,	004	001	SW	747.00	124	1976		M			M	USGS	D
15020005	SHOW LOW CREEK NEAR LAKESIDE, ARIZ	004	017	SW	68.60	124	1976		M			M	USGS	D
15020006	21N.13W.11.144 PUERCO RIVER NEAR STATE LINE,	035	031	SW			1976		A	A		A	USGS	D
15020006	PUERCO RIVER TRIBUTARY BL MINES AT CHURCHROC	035	031	SW			1975		A	A		A	USGS	D
15020008	LITTLE COLORADO RIVER AT HOLBROOK, ARIZ.	004	001	SW	11300.00	124	1971		O			O	USGS	D
15020008	LITTLE COLORADO R NR JOSEPH CITY, AZ.	004	017	SW	12200.00	124	1973		O			O	USGS	D
15020016	LITTLE COLORADO R AT CAMERON AZ	004	005	SW			1974		M	E	E	M	USGS	D
15020016	LITTLE COLORADO RIVER NEAR CAMERON, ARIZ.	004	005	SW	26500.00		1957	1972	2			2	USGS	D
15020018	MOENKOPI WASH TRIB NEAR KAYENTA, ARIZ	004	017	SW	.41	004	1978		Z			Z	USGS	D
15020018	COAL MINE WASH NEAR KAYENTA, ARIZ	004	017	SW	34.10	004	1973		Z			Z	USGS	D

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15020018	COAL MINE WASH TRIB NR KAYENTA, ARIZ	004	017	SW	.62	004	1973		Z			Z	USGS	D
15020018	COAL MINE W TRIB NO.2 NR KAYENTA, ARIZ	004	017	SW	.62	004	1973		Z			Z	USGS	D
15020018	YELLOW WATER CANYON NEAR KAYENTA, ARIZ	004	017	SW	18.60	004	1973		Z			Z	USGS	D
15020018	YELLOW WATER CANYON NR SHONTO	004	017	SW	49.00	004	1975		Z			Z	USGS	D
15020018	COAL MINE WASH NR MOUTH NR SHONTO, ARIZ	004	017	SW	137.00	004	1978		Z			Z	USGS	D
15020018	MOENKOPI WASH NR MOENKOPI AZ	004	005	SW	1650.00	004	1972	1976	2	Q	Q	2	USGS	D
15020018	MOENKOPI WASH AT MOENKOPI	004	005	SW			1972		O			O	USGS	D
15030101	COLORADO R NEAR TOPOCK	004	015	SW			1964		M	M	M		USBR	
15030101	COLORADO R AT NEEDLES BRIDGE	006	071	SW			1955		M	M	M		USBR	
15030101	COLORADO RIVER BLW HOOVER DAM,ARIZ-NEV	004	001	SW	167800.00	124	1939		N	K		E	USGS	D
15030101	COLORADO R AQUEDUCT NR PARKER DAM ARIZ-CALIF	006	071	SW		024	1965			A			USGS	D
15030104	COLORADO R BL PALO VERDE DAM	006	025	SW			1964		M	M	M		USBR	
15030104	COLO R AT WATER WHEEL	006	065	SW	180700.00		1964		M	M	M		USBR	
15030201	BIG SANDY RIVER NEAR WIKIEUP,ARIZ.	004	015	SW	2800.00		1978		M			M	USGS	D
15030202	BURRO CREEK AB BOULDER CREEK NR BAGDAD, ARIZ	004	025	SW		004	1977		M			M	USGS	D
15030202	BOULDER CREEK ABV COPPER CREEK NR BAGDAD,AZ	004	025	SW		004	1977		M			M	USGS	D
15030202	COPPER CREEK NR MOUTH NR BAGDAD, AZ.	004	025	SW		004	1977		M			M	USGS	D
15030202	BOULDER CREEK NR MOUTH NR BAGDAD,AZ.	004	025	SW		004	1977		M			M	USGS	D
15030202	BURRO CREEK AT US 93 BRIDGE NR BAGDAD, AZ.	004	015	SW		004	1977		M			M	USGS	D
15030202	BURRO CREEK AT OLD US 93 BRIDGE NR BAGDAD, A	004	015	SW		004	1977		M			M	USGS	D
15030204	BILL WILLIAMS R NR PLANET, ARIZ.	004	027	SW			1969		E	E		E	USGS	D
150360 C	SUNSET CA AB NM-AZ STATELINE,NM	035	023	SW		014	1969	1972	Q	A			USGS	D
15040001	GILA RIVER NEAR GILA, NM	035	017	SW	1864.00		1958	1969	2	E		2	USGS	D
15040001	MOGOLLON CREEK NEAR CLIFF, NM	035	017	SW	69.00	004	1967		E	E		E	USGS	D
15040001	TAYLOR CREEK ABOVE WALL LAKE	035	003	SW			1975	1975	A				USFS	D
15040001	HARDCASTLE CANYON NE OF BEAVHED	035	003	SW			1975	1975	A				USFS	D
15040001	LITTLE CR ABOVE CONF WITH GILA R	035	017	SW			1975	1975	A				USFS	D
15040002	GILA RIVER NEAR REDROCK, NM	035	017	SW	2829.00	014	1967		E	E		E	USGS	D
15040002	NEW MODEL CA AB NM-AZ ST.LINE,NM	035	023	SW		014	1969	1972	A			A	USGS	D
15040002	GILA RIVER AT N.MEX-ARIZ.ST.LINE NR VIRDEN,	035	011	SW	3360.00	014	1967	1973	R	A		R	USGS	D
15040002	GILA RIVER NEAR CLIFTON, ARIZ.	004	011	SW	4010.00		1976		M			M	USGS	D
15040002	MCNIGHT CREEK BELOW S.AN N FORKS	035	017	SW			1975	1975	A				USFS	D
15040002	GILA RIVER BELOW CLIFF NM	035	017	SW			1975		A				USFS	D
15040002	BEAR CREEK BELOW CHERRY CREEK	035	017	SW			1975	1975	A				USFS	D
15040004	SAN FRANCISCO RIVER NEAR GLENWOOD, NM	035	003	SW	1653.00	014	1963		E	E		E	USGS	D
15040004	SAN FRANCISCO RIVER AT CLIFTON, ARIZ.	004	011	SW	2766.00	024	1965	1967	E	E		E	USGS	D
15040004	SAN FRANCISCO RIVER NEAR CLIFTON, ARIZ.	004	011	SW	2770.00	004	1976		M			M	USGS	D
15040004	SAN FRANCISCO ABOVE ALMA NM	035	003	SW			1975	1975	A				USFS	D
15040004	MINERAL CR ABOVE GLENWOOD NM	035	003	SW			1975	1975	A				USFS	D
15040004	FRISCO HOT SPRINGS BELOW GLNWOOD	035	003	SW			1975	1975	A				USFS	D

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15040004	TULAROSA CR ABOVE CONF OF NEGRIT	035	003	SW			1975	1975	A				USFS	D
15040004	NEGRITO CR ABOVE CON OF TULAROSA	035	003	SW			1975	1975	A				USFS	D
15040004	SOUTH FK OF NEGRITO CR	035	003	SW			1975	1975	A				USFS	D
15040004	SAN FRANCISCO BELOW RESERVE NM	035	003	SW			1975	1975	A				USFS	D
15040004	CENTERFIRE CR ABOVE LUNA NM	035	003	SW			1975	1975	A				USFS	D
15040005	GILA R AT HEAD OF SAFFORD VALLEY NR SOLOMON	004	009	SW	7896.00	024	1959		M	E		M	USGS	D
15040005	FRYE CREEK AT THATCHER, ARIZ.	004	009	SW	24.30	004	1963	1973	A	A		A	USGS	D
15040005	GILA RIVER AT CALVA, ARIZ.	004	009	SW	11470.00		1974		E	E		E	USGS	D
15050100	GILA RIVER AT WINKELMAN, ARIZ.	004	007	SW	13268.00	124	1976		M			M	USGS	D
15050100	GILA R AT KELVIN ARIZ	004	021	SW	18011.00		1949		M	E		M	USGS	D
15050100	DRIPPING SPRINGS WASH AB GILA R	004	007	SW			1967		B				AZ003	P
15050100	GILA R AB DRIPPING SPRINGS WA	004	021	SW			1967	1974	B				AZ003	P
15050100	GILA R NR DIAMOND A RANCH	004	021	SW			1971		B				AZ003	P
15050202	SAN PEDRO RIVER AT CHARLESTON, ARIZ.	004	003	SW	1219.00	024	1962	1975	2	A		2	USGS	D
15050203	SAN PEDRO RIVER NEAR BENSON, ARIZ.	004	003	SW	2500.00	024	1966	1973	2	A		2	USGS	D
15050203	SAN PEDRO RIVER NEAR WINKELMAN, AZ.	004	021	SW	4449.00	024	1962	1967	2	E		2	USGS	D
15050203	SAN PEDRO R AT WINKELMAN, ARIZ.	004	021	SW	4471.00	024	1965		O	Q	A	O	USGS	D
15050203	SAN PEDRO R AB GILA R	004	021	SW			1971		B				AZ003	P
15050301	SANTA CRUZ RIVER NR. NOGALES, ARIZ.	004	023	SW	533.00	024	1967		M			M	USGS	D
15050301	SANTA CRUZ RIVER AT RIO RICO, ARIZ.	004	023	SW			1976		M			M	USGS	D
15050301	SANTA CRUZ RIVER AT TUCSON, ARIZ.	004	019	SW	2222.00	024	1965	1968	R	E		R	USGS	D
15050301	HIGH SCHOOL WASH FLUME AT TUCSON	004	019	SW			1969		C				AZ001	
15050301	RAILROAD WASH FLUME AT TUCSON	004	019	SW			1969		C				AZ001	
15050302	ARCADIA WASH FLUME AT TUCSON	004	019	SW			1969		C				AZ001	
15050302	RILLITO CREEK NEAR TUCSON, ARIZ.	004	019	SW	918.00		1967	1968	S	E		S	USGS	D
15050302	RILLITO C NR TUCSON ARIZ.	004	019	SW	918.00		1965	1966	S			S	USGS	D
15050303	SANTA CRUZ RIVER NEAR LAVEEN, ARIZ.	004	021	SW	8581.00	124	1974		M				USGS	D
15060101	BLACK RIVER NEAR FORT APACHE, ARIZ. MILE 5.0	004	007	SW	1232.00	024	1976		M			M	USGS	D
15060102	WHITE RIVER NEAR FORT APACHE, ARIZ. MILE 4.5	004	007	SW	632.00	004	1976		M			M	USGS	D
15060103	CANYON C AT STATE HATCHERY OUTFLOW	004	007	SW			1972		M				AZ003	P
15060103	CANYON C AT STATE HATCHERY INTAKE	004	007	SW			1972		M				AZ003	P
15060103	CANYON C AB STATE FISH HATCHERY	004	007	SW			1972		M				AZ003	P
15060105	TONTO CREEK ABV. GUN CR., NR ROOSEVELT, AZ	004	007	SW	675.00	004	1976		M			M	USGS	D
15060106	SALT R BL STEWART MOUNTAIN D ARIZ	004	013	SW	6232.00	014	1929		E	E			USGS	D
15060202	OAK CREEK AT SEDONA, ARIZ	004	025	SW		004	1978		M			M	USGS	D
15060202	OAK CR AT RED ROCK CROSSING NR SEDONA, ARIZ	004	025	SW		004	1978		M			M	USGS	D
15060202	DRY BEAVER CREEK NEAR RIMROCK, ARIZ.	004	025	SW	142.00	004	1963	1965				2	USGS	D
15060203	VERDE RIVER NEAR CAMP VERDE, ARIZ.	004	025	SW	5024.00	004	1976		M			M	USGS	D
15060203	WET BOTTOM CREEK NR CHILDS, ARIZ.	004	007	SW	36.40	004	1967		E			E	USGS	D
15060203	VERDE R BL BARTLETT D ARIZ	004	013	SW	6188.00	124	1949		H	H		E	USGS	D

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15060203	WF SYCAMORE CR AB MCFAR CAN, N SUNFLOWER, AZ	004	013	SW	4.58	004	1965	1966	M	Z			USGS	
15060203	EAST FORK SYCAMORE CREEK NEAR SUNFLOWER, ARI	004	013	SW	4.49	004	1965	1966	M				USGS	C
15070101	GILA R AB DIVERSIONS AT GILLESPIE DAM AZ.	004	013	SW	49650.00		1967		M	E		M	USGS	D
15070201	GILA RIVER NEAR MOUTH, NEAR YUMA, ARIZ.	004	027	SW	57950.00	014	1960		M	M		E	USGS	D
15080101	VAMORI WASH NR KOM VO AZ	004	019	SW	1250.00	004	1978		M			M	USGS	D
15080301	WHITEWATER DRAW NEAR DOUGLAS, ARIZ.	004	003	SW	1023.00	024	1978		M			M	USGS	D

GREAT BASIN REGION 16

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160066 D	SHERRILL DRIVE UT	049	041	SW			1957	1972	B				USFS	
160068 I	HEAVENLY VALLY CREEK AT 8800 FT	006	017	SW			1972		Y				CA064	P
160068 I	HEAVENLY VALLEY CREEK AT 8160 FT C	006	017	SW			1972		Y				CA064	P
160068 I	HEAVENLY VALLEY CREEK AT 8120 FT	006	017	SW			1972		Y				CA064	P
160068 I	HEAVENLY VALLEY CREEK AT 8000 FT C	006	017	SW			1972		Y				CA064	P
160068 I	HEAVENLY VALLEY CREEK AT 7960 FT C	006	017	SW			1972		Y				CA064	P
160068 I	HEAVENLY VALLEY CREEK AT 6440 FT C	006	017	SW			1972		Y				CA064	P
160068 I	COLD CREEK UPSTREAM CA	006	017	SW			1972	1974	W				CA064	
160068 I	COLD C AT PIONEER TRAIL CA	006	017	SW			1972	1974	W				CA064	
16010101	TWIN CREEK AT SAGE WYO	056	023	SW	246.00	014	1967		M		A		USGS	D
16010201	BEAR LAKE OUTLET CANAL NEAR PARIS IDAHO	016	007	SW		024	1974		A	A		E	USGS	D
16010204	BEAR R NR CORINNE	049	003	SW	7029.00	014	1973		H	Q		E	USGS	D
16020102	WEBER RIVER NR PLAIN CITY UTAH	049	057	SW	2060.00		1973		H	H		E	USGS	D
16020204	LITTLE COTTONWOOD CREEK NEAR SALT LAKE CITY,	049	035	SW	27.40	004	1964	1970	E			E	USGS	D
16020204	BIG COTTONWOOD CR NR SALT LAKE CITY UTAH	049	035	SW	50.00	004	1964	1970	E			E	USGS	D
16020204	BIG COTTONWOOD C AT COT LANE SLC UTAH	049	035	SW	58.20	014	1973	1975	A				USGS	D
16020204	MILL CREEK NEAR SALT LAKE CITY, UTAH	049	035	SW	21.70	004	1964	1968	Q			Q	USGS	D
16020204	JORDAN R AT SALT LAKE CITY, UT	049	035	SW	3420.00	124	1963		A	A		E	USGS	D
16020204	PARLEYS CK.AT SUICIDE RK.,NR.SALT LAKE CITY,	049	035	SW	50.70	014	1964	1968	N			N	USGS	D
16020204	EMIGRATION CREEK NEAR SALT LAKE CITY, UTAH	049	035	SW	18.00	004	1964	1968	K	E		K	USGS	D
16020204	RED BUTTE CREEK AT FT. DOUGLAS NR. SLC, UTAH	049	035	SW	7.25	004	1963		H	A		H	USGS	D
16020204	CITY CK AB WASATCH DRIVE NR SALT LAKE CITY U	049	035	SW	17.10	014	1963	1968	K			K	USGS	D
16020204	SB VITRO WASTE D AB CONFL WITH VIT	049	035	CN			1967				M		UT001	D
16030001	MAMMOTH CREEK	049	017	SW			1974		A				USFS	
16030002	E F SEVIER R TROPIC RE	049	017	SW			1974		A				USFS	
16030003	MILL CREEK NEAR GLENWOOD, UTAH	049	041	SW	14.00	004	1973	1973	M	M			USGS	
16030003	WF SHEEP C NR SALINA UT	049	041	SW			1957	1972	B				USFS	
16030003	SHEEP C NR SALINA UT	049	041	SW			1957		B				USFS	
16030005	SEVIER RIVER NEAR LYNNDYL, UTAH	049	027	SW	6270.00	014	1900		Q	Q		E	USGS	D
16030006	COAL CREEK NEAR CEDAR CITY, UTAH	049	021	SW	80.90	014	1967		E	E		E	USGS	D
16030007	BEAVER RIV AT ADAMSVILLE, UTAH	049	001	SW	23.00		1974		Q	Q		E	USGS	D
16030007	MERCHANT C UPPER BEAVER	049	001	SW	4.50		1971		M				USFS	
16030007	MERCHANT C LOWER BEAVER	049	001	SW	7.50		1971		M				USFS	
16030007	NF THREE C LOWER BEAVER	049	001	SW	3.50		1971		M				USFS	
16030007	MF THREE C UPPER BEAVER	049	001	SW	2.00		1971		M				USFS	
16030007	MF THREE C LOWER BEAVER	049	001	SW	12.00		1971		M				USFS	
16040101	HUMBOLDT R AT PALISADE, NV	032	007	SW			1962	1966	M	R			USGS	
16040102	N F HUMBOLDT R AT DEVILS GATE NR HALLECK, NV	032	007	SW	830.00	024	1976	1978	A	A		A	USGS	D
16040103	S F HUMBOLDT R AB DIXIE C NR ELKO, NV	032	007	SW	1150.00	024	1976	1978	R	A		R	USGS	D
16040108	HUMBOLDT R NR IMLAY, NV	032	027	SW	15700.00	024	1974		M	K		M	USGS	D

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16040108	HUMBOLDT R NR RYE PATCH, NV	032	027	SW	16100.00	014	1949		N			N	USGS	D
16040201	MC DERMITT C NR MC DERMITT, NV	032	013	SW	225.00		1949		E	E		E	USGS	D
16050101	GRASS LAKE CREEK NEAR MEYERS CALIF	006	017	SW	6.99	004	1970	1974	2	G		2	USGS	D
16050101	UPPER TRUCKEE RIVER AT SOUTH LAKE TAHOE CALI	006	017	SW	54.80	004	1970	1974	2	A		2	USGS	D
16050101	GLEN ALPINE CREEK NR MEYERS	006	017	SW	10.80	004	1974	1975	Q				USGS	D
16050101	EAGLE CREEK NEAR CAMP RICHARDSON CALIF	006	017	SW	6.38	004	1970	1974	2	K		2	USGS	D
16050101	MEEKS C AT MEEKS BAY CALIF	006	017	SW	8.08	004	1970	1974	2	R		2	USGS	D
16050101	QUAIL LAKE CREEK AT HOMEWOOD CALIF	006	061	SW	.95	004	1970	1974	2	R		2	USGS	D
16050101	MADDEN CREEK NR HOMEWOOD CALIF	006	061	SW	1.40	004	1970	1973	2	N		2	USGS	D
16050101	MADDEN CREEK AT HOMEWOOD CALIF	006	061	SW	2.06	004	1970	1973	2	N		2	USGS	D
16050101	BLACKWOOD CREEK NR TAHOE CITY CALIF	006	061	SW	11.20	004	1973		0	S		0	USGS	D
16050101	WARD CREEK NR TAHOE PINES, CALIF	006	061	SW	2.00	004	1971		0	K		0	USGS	D
16050101	WARD CREEK TRIBUTARY NEAR TAHOE PINES, CALIF	006	061	SW	.89	004	1971		0	R		0	USGS	D
16050101	WARD CREEK LOOP ROAD TRIBUTARY NR TAHOE PINE	006	061	SW	.48	004	1973		X	E		P	USGS	D
16050101	WARD CREEK AT HY 89 NEAR TAHOE PINES, CALIF	006	061	SW	9.70	004	1971		0	R		0	USGS	D
16050101	DOLLAR CREEK NR TAHOE CITY CALIF	006	061	SW	1.07	004	1972	1974	2	R		2	USGS	D
16050101	FIRST C NR CRYSTAL BAY, NV	032	031	SW	1.09	004	1969	1973	E	R		E	USGS	D
16050101	SECOND C NR CRYSTAL BAY, NV	032	031	SW	1.63	004	1969	1973	E	A		E	USGS	D
16050101	WOOD C NR CRYSTAL BAY, NV	032	031	SW	1.69	004	1969	1973	E	E		E	USGS	D
16050101	WOOD C AT MOUTH NR CRYSTAL BAY, NV	032	031	SW	2.05	004	1969	1973	E	A		E	USGS	D
16050101	THIRD C AT INCLINE VILLAGE, NV	032	031	SW	4.30	004	1969	1973	E	E		E	USGS	D
16050101	THIRD C NR CRYSTAL BAY, NV	032	031	SW	6.00	003	1969	1973	E	A		E	USGS	D
16050101	INCLINE C NR CRYSTAL BAY, NV	032	031	SW	7.00		1969	1973	E	R		E	USGS	D
16050101	GLENBROOK C AT GLENBROOK, NV	032	005	SW	4.07		1971	1974		R			USGS	D
16050101	TROUT CREEK NR TAHOE VALLEY CALIF	006	017	SW	36.70	004	1972	1974	2	A		2	USGS	D
16050101	TROUT CREEK AT SOUTH LAKE TAHOE CALIF	006	017	SW	40.40	004	1970	1974	2	N		2	USGS	D
16050101	HEAVENLY VALLEY CREEK AT 8800 FT	006	017	SW			1972		Y				CA064	P
16050101	HEAVENLY VALLEY CREEK AT 8160 FT C	006	017	SW			1972		Y				CA064	P
16050101	HEAVENLY VALLEY CREEK AT 8120 FT	006	017	SW			1972		Y				CA064	P
16050101	HEAVENLY VALLEY CREEK AT 8000 FT C	006	017	SW			1972		Y				CA064	P
16050101	HEAVENLY VALLEY CREEK AT 7960 FT C	006	017	SW			1972		Y				CA064	P
16050101	HEAVENLY VALLEY CREEK AT 6440 FT C	006	017	SW			1972		Y				CA064	P
16050101	COLD CREEK UPSTREAM CA	006	017	SW			1972	1974	W				CA064	
16050101	COLD C AT PIONEER TRAIL CA	006	017	SW			1972	1974	W				CA064	
16050101	LONELY GULCH BELOW RESERVOIR CA	006	017	SW			1972	1974	W				CA064	P
16050101	LONELY GULCH AT VICTORIA DR CA	006	017	SW			1972	1974	W				CA064	P
16050101	TROUT C AT S LAKE TAHOE CA	006	017	SW			1970	1975	Y				NV005	C
16050101	WARD C AT HWY 89 CA	006	061	SW			1970	1975	Y				NV005	C
16050101	BLACKWOOD C AT HWY 89 CA	006	061	SW			1970	1975	Y				NV005	C
16050101	MADDEN C AT HOMEWOOD CA	006	061	SW			1972	1974	Y				NV005	C

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16050101	HOMEWOOD C AT HOMEWOOD CA	006	061	SW			1972	1975	Y				NV005	C
16050101	MCKINNEY C AT HWY 89	006	061	SW			1972	1974	Y				NV005	C
16050101	MCKINNEY C AT CASCADE DR CA	006	061	SW			1972	1974	Y				NV005	C
16050101	GENERAL C AB HWY 89	006	017	SW			1970	1974	Y				NV005	C
16050101	MEEKS C AT MEEKS BAY CA	006	017	SW			1972	1974	Y				NV005	C
16050101	EAGLE C AB HWY 89	006	017	SW			1972	1975	Y				NV005	C
16050101	TALLAC C AT HWY 89	006	017	SW			1972	1974	Y				NV005	C
16050101	UPPER TALLAC C AB HWY 89	006	017	SW			1972	1974	Y				NV005	C
16050101	GRASS LAKE C NR MEYERS CA	006	017	SW			1972	1974	Y				NV005	C
16050101	UPPER TRUCKEE R NR MEYERS CA	006	017	SW			1972	1974	Y				NV005	C
16050101	UPPER TRUCKEE R AT S LK TAHOE CA	006	017	SW			1970	1974	Y				NV005	C
16050101	HEAVENLY VALLEY C AT PIONEER TRAIL	006	017	SW			1972	1975	Y				NV005	C
16050101	EDGEWOOD C AT HWY 50 NV	032	005	SW			1971	1975	Y				NV005	C
16050101	BURKE C AT HWY 50 NV	032	005	SW			1972	1974	Y				NV005	C
16050101	LOGAN HOUSE C AB HWY 50 NV	032	005	SW			1972	1974	Y				NV005	C
16050101	GLENBROOK C AT GLENBROOK NV	032	005	SW			1970	1974	Y				NV005	C
16050101	INCLINE C AT INCLINE VILLAGE NV	032	031	SW			1970	1975	Y				NV005	C
16050101	INCLINE C AT SKI INCLINE NV	032	031	SW			1972	1975	Y				NV005	C
16050101	INCLINE C AT TYROLEAN VILLAGE NV	032	031	SW			1972	1975	Y				NV005	C
16050101	THIRD C AT LAKESHORE BLVD NV	032	031	SW			1970	1974	Y				NV005	C
16050101	THIRD C AT HWY 27 NV	032	031	SW			1972	1974	Y				NV005	C
16050101	WOOD C AT LAKESHORE BLVD NV	032	031	SW			1972	1974	Y				NV005	C
16050101	WOOD C AT HWY 27 NV	032	031	SW			1972	1974	Y				NV005	C
16050101	SECOND C AT SILVERTIP DR NV	032	031	SW			1970	1975	Y				NV005	C
16050101	WATSON C AT HWY 28 CA	006	061	SW			1972	1974	Y				NV005	C
16050101	DOLLAR C NR TAHOE CITY CA	006	061	SW			1972	1974	Y				NV005	C
16050101	BURTON C AT HWY 28 CA	006	061	SW			1972	1975	Y				NV005	C
16050101	FIRST C AT HWY 28 NV	032	031	SW			1970	1974	Y				NV005	C
16050101	WARD CREEK CA	006	061	SW			1974		Y				CA064	P
16050101	89 ED 1.70	006	017	SW			1973	1974	P	R		P	USGS	D
16050101	89 ED 1.94	006	017	SW			1972	1974	H	N		H	USGS	D
16050101	89 ED 2.99	006	017	SW			1972	1974	K	X		K	USGS	D
16050101	89 ED 2.21	006	017	SW			1972	1974	N	N		N	USGS	D
16050101	89 ED 2.44	006	017	SW			1972	1974	M	N		M	USGS	D
16050101	28 PL 3.50	006	017	SW			1972	1974	N	N		N	USGS	D
16050101	WARD CREEK CA	006	061	SW			1974		Y				CA064	P
16050102	CARSON R NR FORT CHURCHILL, NV	032	019	SW	1450.00	124	1970		E	E		E	USGS	D
16050102	MARTIS C AT HWY 267 NR TRUCKEE, CA	006	061	SW	25.80	004	1972		R			S	USGS	D
16050102	MARTIS CREEK LAKE NEAR TRUCKEE CA	006	057	SW	40.00	014	1973		S				USGS	D
16050102	MARTIS CREEK NEAR TRUCKEE CA	006	057	SW	40.80	014	1972		R			R	USGS	D

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16050102	SAGEHEN CREEK NR TRUCKEE CALIF	006	057	SW	10.80	004	1968	1975	M	A		M	USGS	D
16050102	TRUCKEE R AT FARAD, CA	006	057	SW	932.00		1951		E			E	USGS	D
16050102	PEAVINE C NR RENO, NV	032	031	SW	2.34		1967	1974	R	A		R	USGS	D
16050102	MARTIS CR AT HWY 267,CA	006	061	SW			1973	1973	A				USGS	D
16050102	GAUGE 2	006	061	SW			1974	1975	N				CA009	D
16050102	EAST FORK BELOW SAWMILL PIPE	006	061	SW			1975	1975	A				CA009	D
16050102	SAWMILL VALVE	006	061	SW			1975	1975	K				CA009	D
16050102	CULVERT UNDER SAWMILL FLAT ROAD	006	061	SW			1975	1975	A				CA009	D
16050102	BELOW DAM SPILLWAY	006	061	SW			1975	1975	A				CA009	D
16050102	DRAINAGE FROM DAM ROAD	006	061	SW			1975	1975	A				CA009	D
16050102	MIDDLE FORK MARTIS ABOVE MARTIS	006	061	SW			1975	1975	N				CA009	D
16050102	MARTIS CREEK ABOVE WEST MARTIS	006	061	SW			1975	1975	N				CA009	D
16050102	SMALL CREEK AT BASQUE DRIVE	006	061	SW			1975	1975	R				CA009	D
16050102	SMALL CREEK AT NORTHSTAR DRIVE	006	061	SW			1975	1975	A				CA009	D
16050102	GAUGE 4	006	061	SW			1974	1975	K				CA009	D
16050102	WEST MARTIS ABOVE MARTIS	006	061	SW			1975	1975	N				CA009	D
16050102	GAUGE 3	006	061	SW			1974	1975	K				CA009	D
16050102	WEST MARTIS AT BASQUE DRIVE	006	061	SW			1975	1975	A				CA009	D
16050102	W. MARTIS BELOW NORTHSTAR DRIVE	006	061	SW			1975	1975	N				CA009	D
16050102	ROCK LINED DRAINAGE DITCH 1	006	061	SW			1975	1975	A				CA009	D
16050102	ROCK LINED DRAINAGE DITCH 2	006	061	SW			1975	1975	A				CA009	D
16050102	ROCK LINED DRAINAGE DITCH 3	006	061	SW			1975	1975	A				CA009	D
16050102	ABOVE ROCK LINED DRAINAGE DITCH	006	061	SW			1975	1975	A				CA009	D
16050102	DRAINAGE FROM UNIT 1B	006	061	SW			1975	1975	A				CA009	D
16050102	TRAPEZOIDAL WEIR	006	061	SW			1974	1975	K				CA009	D
16050102	VILLAGE CULVERT	006	061	SW			1974	1975	K				CA009	D
16050102	PARKING LOT DROP INLET 1	006	061	SW			1975	1975	A				CA009	D
16050102	PARKING LOT DROP INLET 3	006	061	SW			1975	1975	A				CA009	D
16050102	WEST FORK ABOVE VILLAGE CULVERT	006	061	SW			1974	1975	K				CA009	D
16050102	DRAINAGE FROM T1 LIFT	006	061	SW			1975	1975	A				CA009	D
16050102	WEST FORK ABOVE T1 DRAINAGE	006	061	SW			1975	1975	A				CA009	D
16050102	GAUGE 1	006	061	SW			1975	1975	N				CA009	D
16050102	NEW DRAINAGE NEAR BIG SPRINGS	006	061	SW			1975	1975	A				CA009	D
16050102	MAIN DRAINAGE AT HALFWAY HOUSE	006	061	SW			1975	1975	A				CA009	D
16050102	WEST OR C DRAINAGE AT HALFWAY HS	006	061	SW			1975	1975	A				CA009	D
16050103	TRUCKEE R NR NIXON, NV	032	031	SW	1815.00	124	1966		M	E		M	USGS	D
16050303	WALKER R NR WABUSKA, NV	032	019	SW	2600.00	014	1960		E	E		E	USGS	D
16060004	S TWIN R NR ROUND MOUNTAIN, NV	032	023	SW	20.00	014	1965		E	E		E	USGS	D
16060008	STEPTOE C NR ELY, NV	032	033	SW	11.10	004	1955		E	E		E	USGS	D
16060010	CHIATOVICH C NR DYER, NV	032	009	SW	37.30	004	1960		E	E		E	USGS	D

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16060012	WHITE SAGE	032	033	SW			1975		0	0			USBLM	

PACIFIC NORTHWEST REGION 17

HYDROLOGIC UNIT CODE	STATION NAME AND LOCATION	STATE	COUNTY	TYPE OF SITE	DRAINAGE AREA	BASIN DESCRIPTOR	QW BEGIN YEAR	QW END YEAR	SUSP SED CONCEN	SUSP PART SIZE	BED MAT PART SIZE	SUSP DISCHARGE	ORGANIZATION CODE	SED STOR MEDIA
170073 U	ROGUE RIVER NEAR AGNESS,OREG.	041	015	SW			1975		E	E		E	USGS	D
170074 E	JOHN DAY R AT MCDONALD FERRY,OREG.	041	055	SW			1975		E	E		E	USGS	D
170074 T	TUALATIN RIVER AT WEST LINN,OREG.	041	005	SW			1975		E	E		E	USGS	D
170074AD	DEER C II	041	041	SW			1962	1967	W				OR001	C
170074AD	DEER C III	041	041	SW			1962	1967	W				OR001	C
170074AD	DEER C IV	041	041	SW			1964	1967	W				OR001	C
170074AD	DEER C V	041	041	SW			1963	1967	W				OR001	C
170076 L	FLATHEAD RIVER AT FLATHEAD, BRITISH COLUMBIA	087		SW	450.00		1965		O	A		O	USGS	D
170076 M	BIG CREEK	030	061	SW			1968		W	W			USFS	
170076 W	HAYDEN CREEK	018	055	SW			1967	1969	B	B			USFS	
17010101	KOOTENAI RIVER NEAR REXFORD, MT.	030	053	SW	8420.00	024	1966	1972	2	E		2	USGS	D
17010101	KOOTENAI RIVER BL LIBBY DAM, NEAR LIBBY, MT.	030	053	SW	8985.00	014	1966		O	E		O	USGS	D
17010101	ROSS CREEK NEAR TROY MT	030	053	SW	23.80	004	1970		E			E	USGS	D
17010102	FISHER RIVER ABOVE WOLF CREEK, NEAR LIBBY, M	030	053	SW	768.00	004	1967	1970	M			M	USGS	D
17010102	WOLF CREEK NEAR LIBBY, MT.	030	053	SW	216.00	004	1966	1970	2	A		2	USGS	D
17010102	FISHER RIVER NEAR LIBBY, MT.	030	053	SW	838.00	004	1966		O	E		O	USGS	D
17010104	BALL CREEK NEAR BONNERS FERRY, IDAHO	016	021	SW	27.00	024	1973		E				USGS	D
17010104	KOOTENAI RIVER NR COPELAND, ID	016	021	SW	13400.00	004	1965		O	E		O	USGS	D
17010201	AMBROSE CREEK	030	081	SW			1973		Y				USFS	C
17010201	MIDDLE FK ROCK CR NR POTATO L&S	030	039	SW			1970	1975	X				USFS	D
17010201	ROCK CR BL WEST FORK ROCK CREEK	030	039	SW			1970	1975	X				USFS	D
17010202	S F FLUME LOWER WILLOW C NR HALL	030	039	SW			1972		B				USSCS	
17010202	OUTFLOW FLUME L LOWER WILLOW C	030	039	SW			1972		B				USSCS	
17010202	N F FLUME LOWER WILLOW C NR HALL	030	039	SW			1972		B				USSCS	
17010202	ALDER CR AT MOUTH	030	039	SW			1970	1975	N				USFS	D
17010202	EAST FK ROCK CR BL E FK RESERVR	030	039	SW			1970	1975	A				USFS	D
17010202	GRIZZLY CRK NR MOUTH	030	039	SW			1970	1975	X				USFS	D
17010202	MEADOW CR BL DRY GULCH	030	039	SW			1970	1975	A				USFS	D
17010202	MIDDLE FK ROCK CR NR KAISER LAKE	030	039	SW			1970	1975	X				USFS	D
17010202	ROCK CRK NR MOUTH	030	063	SW			1970	1975	X				USFS	D
17010202	ROCK CRK NR DALLES CR CG	030	039	SW			1970	1975	X				USFS	D
17010202	ROCK CR AT BIGHORN CR CG	030	039	SW			1970	1975	N				USFS	D
17010202	ROSS FORK ROCK CR BL MOOSE MDW C	030	039	SW			1970	1975	X				USFS	D
17010202	WELCOME CRK AT MOUTH	030	039	SW			1970	1975	X				USFS	D
17010202	WEST FK ROCK CR AT WEST FK GS	030	039	SW			1970	1975	R				USFS	D
17010202	WILLOW CRK NR SLIDEROCK MTN	030	039	SW			1970	1975	K				USFS	D
17010202	WILLOW CRK AT GILLES BRIDGE	030	039	SW			1970	1975	R				USFS	D
17010202	WYMAN CR AT MOUTH	030	039	SW			1970	1975	N				USFS	D
17010203	BLACKFOOT RIVER NEAR LINCOLN, MT.	030	049	SW	15.10	004	1967	1975	M				USGS	D
17010203	BLACKFOOT RIVER BL ALICE CREEK, NR LINCOLN,	030	049	SW	96.90		1969	1975	E	E		E	USGS	D

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17010204	RATTLESNAKE CREEK	030	063	SW			1968	1969	M				USFS	
17010205	WEST FORK BITTERROOT	030	081	SW			1973		Y				USFS	C
17010205	DEER CREEK	030	081	SW			1973		Y				USFS	C
17010205	HUGHES CREEK	030	081	SW			1973		Y				USFS	C
17010205	OVERWHICH CREEK	030	081	SW			1973		Y				USFS	C
17010205	SLATE CREEK	030	081	SW			1973		Y				USFS	C
17010205	WEST FORK BITTERROOT	030	081	SW			1973		Y				USFS	C
17010205	WEST FORK BITTERROOT	030	081	SW			1973		Y				USFS	C
17010205	NEZPERCE FORK	030	081	SW			1973		Y				USFS	C
17010205	NEZPERCE FORK	030	081	SW			1973		Y				USFS	C
17010205	BOULDER CREEK	030	081	SW			1973		Y				USFS	C
17010205	PIQUETT CREEK	030	081	SW			1973		Y				USFS	C
17010205	PIQUETT CREEK	030	081	SW			1973		Y				USFS	C
17010205	WEST FORK BITTERROOT RIVER	030	081	SW			1973		Y				USFS	C
17010205	EF BITTERROOT R GUARD STATION	030	081	SW			1973		Y				USFS	C
17010205	WARM SPRINGS CREEK	030	081	SW			1973		Y				USFS	C
17010205	EF BITTERROOT R D-2	030	081	SW			1973		Y				USFS	C
17010205	RYE CREEK	030	081	SW			1973		Y				USFS	C
17010205	NORTH FORK RYE CREEK	030	081	SW			1973		Y				USFS	C
17010205	CHAFFIN CREEK	030	081	SW			1973		Y				USFS	C
17010205	LOST HORSE CREEK	030	081	SW			1973		Y				USFS	C
17010205	SLEEPING CHILD C	030	081	SW			1973		Y				USFS	C
17010205	SLEEPING CHILD C	030	081	SW			1973		Y				USFS	C
17010205	LITTLE SLEEPING CHILD CREEK	030	081	SW			1973		Y				USFS	C
17010205	SOUTH FORK SKALKAHO	030	081	SW			1973		Y				USFS	C
17010205	DALY CREEK	030	081	SW			1973		Y				USFS	C
17010205	SKAIKAHO CREEK	030	081	SW			1973		Y				USFS	C
17010205	BLODGETT CREEK	030	081	SW			1973		Y				USFS	C
17010205	WILLOW CREEK	030	081	SW			1973		Y				USFS	C
17010205	BURNT FORK CREEK	030	081	SW			1973		Y				USFS	C
17010205	GOLD CREEK	030	081	SW			1973		Y				USFS	C
17010205	KOOTENAI CREEK	030	081	SW			1973		Y				USFS	C
17010205	EIGHTMILE CREEK	030	081	SW			1973		Y				USFS	C
17010206	N F FLATHEAD RIVER NEAR COLUMBIA FALLS, MT.	030	029	SW	1548.00	004	1970		D	E		D	USGS	D
17010207	M F FLATHEAD RIVER NEAR WEST GLACIER, MT.	030	029	SW	1128.00	004	1970	1970	E				USGS	D
17010208	FLATHEAD RIVER AT COLUMBIA FALLS, MT.	030	029	SW	4464.00	024	1948	1970	2	E		2	USGS	D
17010208	FLATHEAD RIVER NEAR KALISPELL, MT	030	029	SW	4500.00	124	1964	1968	2	A		2	USGS	D
17010213	THOMPSON RIVER NEAR MARION, MT.	030	029	SW	104.00	004	1975		Q				USGS	D
17010213	THOMPSON R AB L THOMPSON R NR THOMPSON FALLS	030	089	SW	321.00		1975		Q				USGS	D
17010213	LITTLE THOMPSON RIVER NEAR THOMPSON FALLS, M	030	089	SW	129.00		1975		Q				USGS	D

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17010213	WEST FORK THOMPSON RIVER NR THOMPSON FALLS,	030	089	SW	35.70		1975		Q				USGS	D
17010213	THOMPSON RIVER NEAR THOMPSON FALLS, MT.	030	089	SW	642.00		1975		Q				USGS	D
17010214	PACK RIVER NEAR COLBURN, IDAHO	016	017	SW	124.00	004	1973		E			E	USGS	D
17010215	PRIEST RIVER NEAR PRIEST RIVER, IDAHO	016	017	SW	902.00	014	1972		E			E	USGS	D
17010216	PEND OREILLE RIVER AT INT BOUNDARY	053	051	SW	25200.00	124	1973		E	E		E	USGS	D
17010302	S FK COEUR D'ALENE RIVER AT KELLOGG ID	016	079	SW	194.00	004	1972		A			A	USGS	D
17010302	S FK COEUR DALENE R AT SMELTERVILLE, IDAHO	016	079	SW	202.00	004	1967	1973	E			E	USGS	D
17010304	ST. MARIES RIVER NEAR SANTA IDAHO	016	009	SW	275.00	004	1972		E			E	USGS	D
17010304	SHERLOCK CREEK AT MOUTH	016	079	SW			1972		A				USFS	D
17010304	QUARTZ CREEK AT FR 218 BRIDGE	016	079	SW			1970		K				USFS	D
17010304	SIMMONS CREEK AT FR 218 BRIDGE	016	079	SW			1970		K				USFS	D
17010304	ST JOE RIVER AT CALDER,IDAHO	016	079	SW			1970		N				USFS	D
17010304	ST JOE RIVER AT HOYT FLAT	016	079	SW			1970		N				USFS	D
17010304	ST JOE RIVER AT RED IVES	016	079	SW			1970		N				USFS	D
17010305	HAYDEN CK BELOW N FK, NR HAYDEN LAKE, IDAHO	016	055	SW	22.00	004	1966		E	E		E	USGS	D
17010307	SPOKANE RIVER AT LONG LAKE, WASH	053	063	SW	6020.00	123	1958		M	M		M	USGS	D
17020001	COLUMBIA RIVER AT NORTHPORT, WASH.	053	065	SW	60200.00	124	1951		E	E		E	USGS	D
17020001	BARNABY CREEK NR. RICE	053	019	SW			1972	1973	Q			Q	USGS	D
17020001	LITTLE JIM CREEK NR. DAISY	053	019	SW			1972	1973	R			R	USGS	D
17020001	HALL CREEK AT INCHELIUM, WASH.	053	019	SW	160.00	024	1972	1973	Q			Q	USGS	D
17020001	STRANGER CREEK AT INCHELIUM	053	019	SW	80.20	024	1972	1973	Q			Q	USGS	D
17020001	NEZ PERCE CREEK NR. KEWA	053	019	SW			1972	1973	Q			Q	USGS	D
17020001	FALLS CREEK NR. KEWA	053	019	SW			1972	1973	Q			Q	USGS	D
17020001	WILMONT CREEK NR. HUNTER	053	019	SW			1972	1973	Q			Q	USGS	D
17020001	NINEMILE CREEK NR. FRUITLAND	053	019	SW			1972	1973	Q			Q	USGS	D
17020001	LITTLE NINEMILE CREEK NR. FRUITLAND	053	019	SW			1972	1973	Q			Q	USGS	D
17020001	SIXMILE CREEK NR. MILES	053	019	SW			1972	1973	Q			Q	USGS	D
17020001	THREEMILE CREEK NR. MILES	053	019	SW			1972	1973	R			R	USGS	D
17020002	KETTLE RIVER NEAR FERRY, WASH.	053	019	SW	2220.00	024	1969	1971	Q				USGS	
17020002	KETTLE RIVER NEAR LAURIER, WASH.	053	019	SW	3800.00	024	1969	1971	Q				USGS	
17020003	SHEEP CREEK AT SPRINGDALE, WASH.	053	065	SW	48.20	124	1969	1971	Q				USGS	
17020003	DEER CREEK NEAR VALLEY, WASH.	053	065	SW	36.00	024	1969	1971	M				USGS	
17020003	CHEWELAH CREEK AT CHEWELAH, WASH.	053	065	SW	94.10	024	1968	1968	M				USGS	
17020003	LITTLE PEND OREILLE RIVER NEAR COLVILLE, WAS	053	065	SW	132.00	004	1969	1971	Q				USGS	
17020003	HALLER C NR ARDEN WASH	053	065	SW	37.00	024	1969	1970	M				USGS	
17020003	MILL CREEK NEAR COLVILLE, WASH.	053	065	SW	83.00	024	1969	1975	M				USGS	
17020004	SANPOIL R AB THIRTEENMILE CR NR REPUBLIC WA.	053	019	SW	265.00	024	1968	1973	Q			Q	USGS	D
17020004	THIRTEENMILE CREEK NR. REPUBLIC	053	019	SW			1972	1973	N			N	USGS	D
17020004	LOST CREEK NR. DIGAUTEL	053	047	SW			1972	1973	Q			Q	USGS	D
17020004	GOLD CREEK NR. REPUBLIC	053	019	SW			1972	1973	N			N	USGS	D

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17020004	W F SANPOIL RIVER NR REPUBLIC, WASH	053	019	SW	308.00	004	1968	1973	Q			Q	USGS	D
17020004	SEVENTEENMILE CREEK NR. REPUBLIC	053	019	SW			1972	1975	E			E	USGS	D
17020004	NINETEENMILE CREEK NR. REPUBLIC	053	019	SW			1972	1973	N			N	USGS	D
17020004	NORTH NANAMKIN CREEK NR. KELLER	053	019	SW			1972	1973	Q			Q	USGS	D
17020004	THIRTYMILE CREEK NR. KELLER	053	019	SW			1972	1973	Q			Q	USGS	D
17020004	BRIDGE CREEK AT MOUTH NR. KELLER	053	019	SW			1972	1973	Q			Q	USGS	D
17020004	CACHE CREEK NR. KELLER	053	019	SW			1972	1973	Q			Q	USGS	D
17020004	IRON CREEK NR. KELLER	053	019	SW			1972	1973	Q			Q	USGS	D
17020004	SANPOIL R NR KELLER,WASH	053	019	SW	890.00	024	1967	1973	A			A	USGS	D
17020004	BRUSH CREEK NR. KELLER	053	019	SW			1972	1973	Q			Q	USGS	D
17020004	SANPOIL R ABV JACK CR AT KELLER, WASH	053	019	SW		004	1960		E			E	USGS	D
17020004	JACK CREEK AT KELLER	053	019	SW	8.17	004	1972	1973	Q			Q	USGS	D
17020004	COPPER CREEK NR. KELLER	053	019	SW			1972	1973	Q			Q	USGS	D
17020004	MEADOW CREEK NR. KELLER	053	019	SW			1972	1973	Q			Q	USGS	D
17020004	SILVER CREEK NR. KELLER	053	019	SW			1972	1973	Q			Q	USGS	D
17020004	JOHN TOM CREEK NR. KELLER	053	019	SW			1972	1973	Q			Q	USGS	D
17020004	DICK CREEK NR. KELLER	053	019	SW			1972	1973	N			N	USGS	D
17020004	MANILA CREEK NR. KELLER	053	019	SW			1972	1973	Q			Q	USGS	D
17020005	PETER DAN CREEK AT ELMER CITY	053	047	SW			1972	1973	Q			Q	USGS	D
17020005	MILL CREEK NR. NESPELEM	053	047	SW			1972	1973	N			N	USGS	D
17020005	MILL CREEK NR. NESPELEM	053	047	SW			1972	1973	E			E	USGS	D
17020005	NESPELEM CANAL NR. NESPELEM	053	047	SW		124	1972	1973	Q			Q	USGS	D
17020005	NESPELEM RIVER AT NESPELEM, WASH.	053	047	SW	122.00	024	1972	1973	Q			Q	USGS	D
17020005	NESPELEM R BLW MILLPOND AT NESPELEM, WASH	053	047	SW	123.00	024	1972	1973	Q			Q	USGS	D
17020005	LITTLE NESPELEM RIVER NR. NESPELEM	053	047	SW			1972	1973	Q			Q	USGS	D
17020005	NESPELEM RIVER AT MOUTH NR. NESPELEM	053	047	SW			1972	1973	Q			Q	USGS	D
17020005	COYOTE CREEK NR. NESPELEM	053	047	SW			1972	1973	N			N	USGS	D
17020006	TONASKET CREEK AT OROVILLE, WASH.	053	047	SW	60.10	024	1969	1971	M				USGS	
17020006	OKANOGAN R AT OROVILLE	053	047	SW	3195.00	123	1958	1975	M				USGS	C
17020006	BONAPARTE CREEK NEAR WAUCONDA, WASH.	053	047	SW	96.60	124	1970	1971	M				USGS	
17020006	OKANOGAN RIVER NEAR TONASKET, WASH.	053	047	SW	7260.00	123	1969	1971	M				USGS	
17020006	WANNACOTT CREEK NR. OMAK	053	047	SW			1972	1973	R			R	USGS	D
17020006	OMAK CREEK NEAR OMAK, WASH	053	047	SW	119.00	024	1972	1973	Q			Q	USGS	D
17020006	KARTAR CREEK NR. OMAK	053	047	SW			1972	1973	Q			Q	USGS	D
17020006	NO NAME CREEK NR. OMAK	053	047	SW			1972	1973	R			R	USGS	D
17020006	NO NAME CREEK AT MOUTH NR. OMAK	053	047	SW			1972	1973	R			R	USGS	D
17020006	OMAK CREEK AT OMAK	053	047	SW			1972	1973	Q			Q	USGS	D
17020006	OKANOGAN R AT MALOTT, WASH	053	047	SW	3030.00	123	1966		M				USGS	D
17020006	OKANOGAN R USGS STA NR TONASKET	053	047	SW			1976		B				USBR	C
17020006	OKANOGAN R CNTY RD BR ELLIS FORD	053	047	SW			1976		B				USBR	C

HYDROLOGIC UNIT CODE	STATION NAME AND LOCATION	STATE	COUNTY	TYPE OF SITE	DRAINAGE AREA	BASIN DESCRIPTOR	OW BEGIN YEAR	OW END YEAR	SUSP SED CONCEN	SUSP PART SIZE	SED MAT PART SIZE	SUSP DISCHARGE	ORGANIZATION CODE	SED STOR MEDIA
17020006	OKANOGAN R AT OROVILLE	053	047	SW			1959	1970	M	M	M		USGS	
17020007	TOATS COULEE CREEK NEAR LOOMIS, WASH.	053	047	SW	130.00	004	1969	1971	M				USGS	
17020007	SIMILKAMEEN RIVER NR NIGHTHAWK WASH	053	047	SW	3550.00	124	1960	1970	M				USGS	D
17020008	ANDREWS CREEK NEAR MAZAMA, WASH.	053	047	SW	22.10	004	1972		E			E	USGS	D
17020008	BEAVER CREEK BELOW SOUTH FORK, NEAR TWISP, W	053	047	SW	62.00	004	1969	1971	M				USGS	
17020008	METHOW RIVER NR PATEROS, WASH.	053	047	SW	1772.00	024	1967	1975	M				USGS	C
17020009	STEHEKIN RIVER AT STEHEKIN, WASH.	053	007	SW	344.00	004	1969	1971	M				USGS	
17020010	ENTIAT RIVER NEAR ARDENVOIR, WA.	053	007	SW	203.00	124	1967	1972	M				USGS	D
17020010	LOWER CRAB C AT SEC 3J15N23E	053	025	SW			1966		B				USBR	D
17020010	D72-141 DRAIN AT WHITE TRAILS ROAD	053	025	DR			1975		B				USBR	C
17020011	WHITE RIVER NEAR PLAIN, WASH.	053	007	SW	150.00	004	1969	1975	M				USGS	
17020011	WENATCHEE RIVER AT PLAIN, WASH	053	007	SW	591.00	124	1969	1971	M				USGS	
17020011	ICICLE CREEK ABOVE SNOW CREEK, NEAR LEAVENWO	053	007	SW	193.00	004	1969	1971	M				USGS	
17020011	WENATCHEE RIVER AT PESHASTIN, WASH.	053	007	SW	1000.00	024	1969	1971	M				USGS	
17020011	MISSION CREEK ABOVE SAND CREEK NEAR CASHMERE	053	007	SW	39.80	004	1973	1973	M				USGS	
17020011	WENATCHEE RIVER AT MONITOR, WASH.	053	007	SW	1301.00	024	1970	1970	M				USGS	
17020012	ROCKY FORD CR AT RT 17	053	025	SW			1964		B				USBR	D
17020013	COAL CREEK AT MOHLER, WASH.	053	043	SW	64.70		1969	1971	M				USGS	
17020013	CRAB CREEK AT IRBY, WASHINGTON	053	043	SW	1042.00	024	1969	1971	M				USGS	
17020013	WILSON CREEK BE. CORBETT DRAW, NR. ALMIRA, W	053	043	SW	327.00	024	1969	1971	M				USGS	
17020013	WILSON CREEK AT WILSON CREEK, WASH.	053	025	SW	427.00	124	1970	1971	Q				USGS	
17020014	MAIN CA AT LONG LAKE DAM	053	025	CN			1964		B				USBR	D
17020015	CRAB CREEK NEAR MOSES LAKE, WASH.	053	025	SW	2228.00	024	1969	1971	M				USGS	
17020015	ROCKY FORD CREEK NEAR EPHRATA, WASH	053	025	SW	458.00	014	1969	1971	Q				USGS	
17020015	FARRIER COULEE NEAR SCHRAG, WASH.	053	001	SW	42.00		1970	1970	A				USGS	
17020015	CRAB CR NR BEVERLY, WASH	053	025	SW	4842.00	124	1958		M				USGS	D
17020015	POTHOLES CANAL AT MILE 0.2	053	025	CN			1956		B				USBR	D
17020015	LIND COULEE AT RT 17 CROSSING	053	025	SW			1956		B				USBR	D
17020015	W645 DRAIN IN SEC 34 18N 25E	053	025	DR			1958		B				USBR	D
17020015	CRAB C LAT AT CRAB C W W	053	001	CN			1963		B				USBR	D
17020015	W CA AT FRENCHMAN HILLS W W	053	025	CN			1963		B				USBR	D
17020015	CRAB CR AT CO RD 7N BRIDGE	053	025	SW			1967		B				USBR	D
17020015	FR HILLS W W AT SEC 9 17N/27E	053	025	DR			1964		B				USBR	D
17020015	DW239B DRAIN AT W CA	053	025	DR			1964		B				USBR	D
17020015	DPE 215 AT ROUTE 26	053	001	DR			1972		B				USBR	C
17020015	LOWER CRAB C AT MC MANNAN ROAD	053	001	SW			1972		B				USBR	C
17020015	DCC1 AT RED ROCK COULEE ROAD	053	025	DR			1972		B				USBR	C
17020015	W645 DRAIN AT COUNTY ROAD R NW	053	025	DR			1974		B				USBR	C
17020015	D46-179 DRAIN AT GILLIS ROAD	053	001	DR			1975		B				USBR	C
17020016	PROVIDENCE COULEE AT CUNNINGHAM, WASH.	053	001	SW	27.80	004	1969	1970	Q				USGS	

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17020016	ESQUATZEL COULEE AT CONNEL,WASH	053	021	SW	234.00	004	1969	1971	A				USGS	
17020016	ESQUATZEL COULEE AT ELTOPIA, WASH.	053	021	SW	551.00	014	1970	1971	A				USGS	
17020016	COYOTE DR - AMON WW NR KENNEWICK W	053	005	DR			1968	1975	M	M			USBR	
17020016	ROZA CA AT MILE 44.2 NR GRANGER WA	053	077	CN			1968		M	M			USBR	
17020016	CHANDLER CA MI 2.8 NR PROSSER WA	053	005	CN			1970		M	M			USBR	
17020016	POTHOLES E CA AT MILE 26.6	053	021	CN			1956		B				USBR	D
17020016	POTHOLES E CA AT MILE 38.0	053	021	CN			1956		B				USBR	D
17020016	POTHOLES E CA AT MILE 65.8	053	021	CN			1956		B				USBR	D
17020016	WB5 LAT AT HEAD	053	021	CN			1964		B				USBR	D
17020016	WB5G LAT AT WB5G W W	053	021	CN			1964		B				USBR	D
17020016	ELTOPIA B CA AT E B W W	053	021	CN			1964		B				USBR	D
17020016	ESQUATZEL CHANNEL AT SHEFFIELD RD	053	021	SW			1974		B				USBR	C
17020016	D15-146 DRAIN AT BELLEVUE DRIVE	053	021	DR			1975		B				USBR	C
170276 L	N F FLATHEAD R AT FLATHEAD, BRITISH COLUMBIA	087		SW	450.00	004	1949		D	O			CAXO1	D
17030001	YAKIMA RIVER NEAR MARTIN, WASH.	053	037	SW	54.70	014	1969	1971	A				USGS	
17030001	KACHESS RIVER NEAR EASTON, WASH.	053	037	SW	63.60	014	1969	1971	A				USGS	
17030001	CLE ELUM RIVER NEAR ROSYLN, WASH.	053	037	SW	203.00	014	1969	1971	A				USGS	
17030001	YAKIMA RIVER AT CLE ELUM, WASH.	053	037	SW	495.00	124	1910	1975	M				USGS	D
17030001	TEANAWAY RIVER BELOW FORKS, NR. CLE ELUM, WA	053	037	SW	172.00		1969	1971	M				USGS	
17030001	NANEUM CREEK NEAR ELLENSBURG, WASH.	053	037	SW	69.50	024	1969	1971	M				USGS	
17030001	WILSON C AT THRALL WA	053	037	SW	382.00		1965		M				USGS	D
17030001	WILSON CREEK AT THRALL, WASH.	053	037	SW	382.00	004	1965	1975	M				USGS	
17030001	YAKIMA R AT UMTANUM WASHINGTON	053	037	SW	1594.00	124	1969	1971	M				USGS	
17030001	YAKIMA R AT HARRISON RD BRIDGE	053	077	SW			1974		M				USBR	C
17030001	YAKIMA R AT TERRACE HGTS. BRIDGE	053	077	SW			1974		M				USBR	C
17030001	YAKIMA R AT CLE ELUM	053	037	SW			1974		M				USBR	C
17030001	WILSON C AT SANDERS RD	053	037	SW			1974		M				USBR	C
17030001	WILSON C AT DAMMON RD	053	037	SW			1974		M				USBR	C
17030001	WIPPLE WW AT THRALL RD	053	037	SW			1974		M				USBR	C
17030001	WILSON C AT THRALL RD	053	037	SW			1974		M				USBR	C
17030001	YAKIMA R AT ELLENSBURG	053	037	SW			1974		M				USBR	C
17030001	YAKIMA R AT UMTANUM	053	037	SW			1974		M				USBR	C
17030001	COLEMAN C NW 1/4 SEC 20 17N 19E	053	037	SW			1971		B				USBR	
17030001	KITTITAS CA SE1/4 SEC6 18N 19E	053	037	CN			1971	1973	B				USBR	
17030001	FANHOUSE NO. 3 NR ROSLYN, WASH	053	037	SW			1976	1976	A				USGS	D
17030002	DEEP CR NR GOOSE PRAIRIE WASH.	053	077	SW	12.70	004	1969	1969	A				USGS	
17030002	BUMPING RIVER NEAR NILE, WASH.	053	077	SW	70.70	014	1969	1975	A				USGS	
17030002	AMERICAN R NR NILE WASH	053	077	SW	78.90	004	1962	1975	M				USGS	D
17030002	HAUSE CREEK NEAR RIMROCK, WASH.	053	077	SW	3.91	004	1969	1969	A				USGS	
17030002	TIETON RIVER AT CANAL HEADWORKS NR NACHES, W	053	077	SW	239.00	124	1969	1971	A				USGS	

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17030002	NACHES RIVER BELOW TIETON RIVER, NEAR NACHES	053	077	SW	941.00	124	1969	1971	M				USGS	
17030002	NACHES R AT NELSON BRIDGE	053	077	SW			1974		M				USBR	C
17030002	WIDE HOLLOW C NR GROMORE	053	077	SW			1974		M				USBR	C
17030003	ROZA CANAL AT SCOON RD NR SUNNYSIDE WASH	053	077	SW			1976	1976	X			X	USGS	D
17030003	ROZA CANAL BLW SULPHUR CR WSTWY NR SUNNYSIDE	053	077	SW		024	1976	1976	X			X	USGS	D
17030003	ROZA CANAL AT BLK CANYON CR NR SUNNYSIDE WAS	053	077	SW			1976	1976	X			X	USGS	D
17030003	ROZA CANAL AT FACTORY RD NR SUNNYSIDE WASH	053	077	SW			1976	1976	X			X	USGS	D
17030003	ROZA CANAL AT WILGUS RD NR GRANDVIEW WASH	053	077	SW			1976	1976	X			X	USGS	D
17030003	YAKIMA R ABV AHTANUM CR AT UNION GAP WASH	053	077	SW	3479.00	124	1969	1971	M				USGS	
17030003	NORTH FORK AHTANUM CREEK NEAR TAMPICO, WASH.	053	077	SW	68.90	004	1969	1971	M				USGS	
17030003	N.F. AHTANUM CR AT TAMPICO	053	077	SW			1973	1974	A				USGS	D
17030003	SOUTH FORK AHTANUM CREEK AT CONRAD RANCH, NE	053	077	SW	24.80	024	1969	1971	M				USGS	
17030003	S.F. AHTANUM CR AT TAMPICO	053	077	SW			1973	1974	A				USGS	D
17030003	AHTANUM CR AT GOODMAN RD AT UNION GAP	053	077	SW			1973	1974	E				USGS	D
17030003	AHTANUM CREEK AT UNION GAP, WASH.	053	077	SW	173.00	023	1969	1971	M				USGS	
17030003	YAKIMA R AT PARKER	053	077	SW	3650.00	023	1959		M				USGS	D
17030003	SUNNYSIDE CANAL AT MAPLE GROVE RD NR SUNNYSI	053	077	SW			1976	1976	X			X	USGS	D
17030003	SUNNYSIDE CANAL BLW SULPHUR CR WSTWY NR SUNN	053	077	SW		024	1976	1976	X			X	USGS	D
17030003	SUNNYSIDE CANAL AT EDISON RD NR SUNNYSIDE WA	053	077	SW			1976	1976	X			X	USGS	D
17030003	SUNNYSIDE CANAL AT BETHNAY RD NR GRANDVIEW,	053	077	SW			1976	1976	X			X	USGS	D
17030003	SUNNYSIDE CANAL AT GRANDVIEW WASH	053	077	SW			1976	1976	X			X	USGS	D
17030003	TOPPENISH CREEK NEAR FT. SIMCOE, WASH.	053	077	SW	122.00	024	1973	1974	A				USGS	D
17030003	N.F. SIMCOE CR NR FORT SIMCOE	053	077	SW			1973	1974	A				USGS	D
17030003	SF SIMCOE CR NR FT SIMCOE,WASH	053	077	SW			1973	1974	A				USGS	D
17030003	TOPPENISH CR NR SATUS,WASH	053	077	SW	625.00	004	1973	1975	M				USGS	D
17030003	DRY CR NR TOPPENSIH	053	077	SW			1973	1974	E				USGS	D
17030003	DID 18 DRAIN AT SUNNYSIDE WASH	053	077	SW		024	1976		O	E		O	USGS	D
17030003	BLACK CANYON CR AT WANETA RD NR SUNNYSIDE,WA	053	077	SW		024	1976		O	E		O	USGS	D
17030003	DID 9 DRAIN NR SUNNYSIDE WASH	053	077	SW		024	1976		O			O	USGS	D
17030003	DID 3 DRAIN NR SUNNYSIDE WASH	053	077	SW		024	1976		O			O	USGS	D
17030003	SULPHUR CR WASTEWAY NR SUNNYSIDE WASH	053	077	SW		024	1976		O	E		O	USGS	D
17030003	YAKIMA RIVER AT KIONA, WASH	053	005	SW	5615.00	123	1951		H	H		H	USGS	D
17030003	DID 25 NR GRANGER WA	053	077	DR			1968	1973	M	M			USBR	
17030003	KENNEWICK CA HDWKS NR CHANDLER WA	053	005	CN			1968	1973	M	M			USBR	P
17030003	MARION DR AT HWY 22 NR TOPPENISH W	053	007	DR			1968		M	M			USBR	
17030003	MARION DR AT ROB RD NR TOPPENISH W	053	077	DR			1968	1971	M	M			USBR	
17030003	MARION DR AT LAT C NR TOPPENISH WA	053	077	DR			1968	1971	M	M			USBR	
17030003	NEW RESER CA-DROP 3-NR WAPATO WA	053	077	CN			1968	1973	M	M			USBR	
17030003	NEW RESER CA - HDWKS NR WAPATO WA	053	077	CN			1968	1973	M	M			USBR	P
17030003	CHANDLER CA MI 0.6 NR PROSSER WA	053	005	CN			1970		M	M			USBR	

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17030003	DID 2 NR GRANGER WA	053	077	DR			1968	1973	M	M			USBR	
17030003	DID 2 NR GRANGER WA	053	077	DR			1968	1973	M	M			USBR	
17030003	DRAIN 27.2 NR GRANGER WA	053	077	DR			1968	1973	M	M			USBR	
17030003	DRAIN 26.6 NR GRANGER WA	053	077	DR			1968	1973	M	M			USBR	
17030003	SUNNYSIDE CA MI 24.7 NR GRANGER WA	053	077	CN			1968		M	M			USBR	
17030003	DRAIN AT BIRCHFIELD RD	053	077	SW			1974		M				USBR	C
17030003	WIDE HOLLOW C AT W WASHINGTON AV	053	077	SW			1974		M				USBR	C
17030003	WIDE HOLLOW C AT UNION GAP STP	053	077	SW			1974		M				USBR	C
17030003	AHTANUM C AT MOUTH	053	077	SW			1974		M				USBR	C
17030003	SULPHUR C AT NORTH AV SUNNYSIDE	053	077	SW			1974		M				USBR	C
17030003	SULPHUR C WW AT FACTORY RD SUNYS	053	077	SW			1974		M				USBR	C
17030003	DRAIN DID #3 AT S HILL RD	053	077	SW			1974		M				USBR	C
17030003	DRAIN DID #3 AT DUFFY RD	053	077	SW			1974		M				USBR	C
17030003	SULPHUR C WW AT DUFFY RD	053	077	SW			1974		M				USBR	C
17030003	SULPHUR C WW AT MORSE RD	053	077	SW			1974		M				USBR	C
17030003	SULPHUR C WW AT MCGEE RD	053	077	SW			1974		M				USBR	C
17030003	GRIFFIN LAKE INLET	053	077	SW			1974		M				USBR	C
17030003	GRIFFIN LAKE OUTLET	053	077	SW			1974		M				USBR	C
17030003	YAKIMA R AT BRIDGE NR GRANGER	053	077	SW			1974		M				USBR	C
17030003	YAKIMA R AT BRIDGE NR MABTON	053	077	SW			1971		M				USBR	C
17030003	E TOPPENISH DR AT WILSON RD	053	077	SW			1974		M				USBR	C
17030003	SUB-DRAIN 35 AT PARTON RD	053	077	SW			1974		M				USBR	C
17030003	MARION DR AT HWY 97	053	077	SW			1974		M				USBR	C
17030003	WANITY SLOUGH AT MYERS RD	053	077	SW			1974		M				USBR	C
17030003	SOUTH DR AT HWY 22 NR SATUS	053	077	SW			1974		M				USBR	C
17030003	GRANGER D AT HWY 223 AB GRANGER	053	077	SW			1974		M				USBR	C
17030003	SPRING C AT HESS RD	053	005	SW			1974		M				USBR	C
17030003	SNIPES C. AT OLD INLAND EMPIRE R	053	005	SW			1974		M				USBR	C
17030003	DR DID#3 15'AB RENDRNG PLNT OTLT	053	077	SW			1975		M				USBR	C
17030003	NF AHTANUM CR. AT TAMPICO	053	077	SW			1973	1974	A				USEPA	D
17030003	S.F. ANTANUM CR. AT TAMPICO	053	077	SW			1973	1974	A				USEPA	D
17030003	AHTANUM CR @GOODMAN RD EUNIONGAP	053	077	SW			1973	1974	E				USEPA	D
17030003	TOPPENISH CR NR FORT SIMCOE	053	077	SW			1973	1974	A				USEPA	D
17030003	NF SIMCOE CR NR FORT SIMCOE	053	077	SW			1973	1974	A				USEPA	D
17030003	SF SIMCOE CRK NR FT SIMCOE	053	077	SW			1973	1974	A				USEPA	D
17030003	DRY CREEK NR TOPPENISH	053	077	SW			1973	1974	E				USEPA	D
17030003	NEQUIST D NW 1/4 SEC 25 9N 21 E	053	077	DR			1971	1974	B				USBR	
17030003	SATUS D 302 NW 1/4 SEC 34 9N 22E	053	077	DR			1971		B				USBR	
17040103	CACHE CREEK NEAR JACKSON, WYO.	056	039	SW	10.00	004	1965		Q	E		Q	USGS	D
17040103	SNAKE RIVER AB RESERVOIR NR ALPINE WY	056	023	SW	3465.00	124	1964		M	H		M	USGS	D

HYDROLOGIC UNIT CODE	STATION NAME AND LOCATION	STATE	COUNTY	TYPE OF SITE	DRAINAGE AREA	BASIN DESCRIPTOR	QW BEGIN YEAR	QW END YEAR	SUSP SED CONCEN	SUSP PART SIZE	BED MAT PART SIZE	SUSP DISCHARGE	ORGANIZATION CODE	SED STOR MEDIA
17040103	GREYS RIVER AB RESERVOIR NR ALPINE WY	056	023	SW	448.00	004	1965		A	A			USGS	D
17040104	SNAKE R NR HEISE ID	016	019	SW			1964	1972	B				USBR	
17040105	SWIFT CREEK NEAR AFTON, WYO.	056	023	SW	27.40	014	1965	1971	A			A	USGS	D
17040105	SALT R NR AUBURN WYO	056	023	SW			1971	1971	A			A	USGS	D
17040105	MILL CR....100YD ABV.FOREST BNDY	016	029	SW	2.00		1974		H				USFS	D
17040201	SNAKE RIVER NR HEISE, IDAHO	016	019	SW	5752.00	124	1900		A			A	USGS	D
17040201	SPOIL BANKS DRAIN AT EAGLE, IDAHO	016	001	SW			1971	1972	A			A	USGS	D
17040201	DRAIN WELL INFLOW 1N-38E-7ACC1	016	019	SW			1972	1972	A			A	USGS	D
17040201	DRAIN WELL INFLOW 1N-38E-7BDD1	016	019	SW			1972	1972	A			A	USGS	D
17040201	DRAIN WELL INFLOW 1N-38E-7BCD1	016	019	SW			1972	1972	A			A	USGS	D
17040201	GERMAN CANAL 1N-38E-7BBB1	016	019	SW			1972	1972	A				USGS	D
17040201	DRAIN WELL INFLOW 1N-37E-4CCC1	016	019	SW			1972	1972	A				USGS	D
17040201	DRAIN WELL INFLOW 1N-37E-5DCB1	016	019	SW			1972	1972	A				USGS	D
17040201	DRAIN WELL INFLOW 1N-38E-6ACB1	016	019	SW			1972	1972	A			A	USGS	D
17040201	DRAIN WELL INFLOW 2N-38E-32DDC1	016	019	SW			1972	1972	A				USGS	D
17040201	DRAIN WELL INFLOW 2N-38E-31ABC1	016	019	SW			1972	1972	A			A	USGS	D
17040201	DRAIN WELL INFLOW 2N-37E-33BCB1	016	019	SW			1972	1972	A			A	USGS	D
17040201	DRAIN WELL INFLOW 2N-37E-27DDC1	016	019	SW			1972	1972	A				USGS	D
17040201	DRAIN WELL INFLOW 2N-37E-26CDB1	016	019	SW			1972	1972	A			A	USGS	D
17040201	DRAIN WELL INFLOW 2N-38E-30ADC1	016	019	SW			1972	1972	A				USGS	D
17040201	DRAIN WELL INFLOW 2N-38E-28ACC1	016	019	SW			1972	1972	A			A	USGS	D
17040201	DRAIN WELL INFLOW 2N-37E-27BCC1	016	019	SW			1972	1972	A				USGS	D
17040201	DRAIN WELL INFLOW 2N-37E-26BBD1	016	019	SW			1972	1972	A			A	USGS	D
17040201	DRAIN WELL INFLOW 2N-37E-27BAB1	016	019	SW			1972	1972	A				USGS	D
17040201	DRAIN WELL INFLOW 2N-37E-27BBA1	016	019	SW			1972	1972	A			A	USGS	D
17040201	DIVERSION DITCH 2N-37E-27BBA2	016	019	SW			1972	1972	A			A	USGS	D
17040201	DRAIN WELL INFLOW 2N-37E-30BBB1	016	019	SW			1972	1972	A				USGS	D
17040201	DRAIN WELL INFLOW 2N 38E 20DCC1	016	019	SW			1973	1973	A				USGS	D
17040201	DRAIN WELL INFLOW 2N-38E-20DAD1	016	019	SW			1973	1973	A				USGS	D
17040201	DRAIN WELL INFLOW 2N-37E-24CBB1	016	019	SW			1973	1973	A				USGS	D
17040201	DRAIN WELL INFLOW 2N-38E-19ACC1	016	019	SW			1973	1973	A				USGS	D
17040201	DRAIN WELL INFLOW 2N-37E-21ACC1	016	019	SW			1972	1972	A				USGS	D
17040201	DRAIN WELL INFLOW 2N 38E 20ADA1	016	019	SW			1972	1972	A				USGS	D
17040201	DRAIN WELL INFLOW 2N 38E 20BAA1	016	019	SW			1972	1972	A				USGS	D
17040201	DRAIN WELL INFLOW 2N-37E-14CDC1	016	019	SW			1972	1973	A				USGS	D
17040201	DRAIN WELL INFLOW 2N-37E-14CDC2	016	019	SW			1972	1972	A			A	USGS	D
17040201	DRAIN WELL INFLOW 2N-37E-15DCD1	016	019	SW			1972	1972	A			A	USGS	D
17040201	DRAIN WELL INFLOW 2N-37E-14DDD1	016	019	SW			1972	1973	A				USGS	D
17040201	DRAIN WELL INFLOW 2N-37E-15DCA1	016	019	SW			1972	1972	A			A	USGS	D
17040201	DRAIN WELL INFLOW 2N-38E-17CBC1	016	019	SW			1973	1973	A				USGS	D

HYDROLOGIC UNIT CODE	STATION NAME AND LOCATION	STATE	COUNTY	TYPE OF SITE	DRAINAGE AREA	BASIN DESCRIPTOR	OW BEGIN YEAR	OW END YEAR	SUSP SED CONCEN	SUSP PART SIZE	BED MAT PART SIZE	SUSP DISCHARGE	ORGANIZATION CODE	SED STOR MEDIA
17040201	DRAIN WELL INFLOW 2N 37E 13CBC1	016	019	SW			1972	1972	A				USGS	D
17040201	DRAIN WELL INFLOW 2N-37E-15DAB1	016	019	SW			1972	1972	A			A	USGS	D
17040201	DRAIN WELL INFLOW 2N-37E-14BCC1	016	019	SW			1972	1972	A				USGS	D
17040201	DRAIN WELL INFLOW 2N 37E 15ADC1	016	019	SW			1972	1973	A			E	USGS	D
17040201	DRAIN WELL INFLOW 2N-39E-7CDC1	016	019	SW			1973	1973	A				USGS	D
17040201	DRAIN WELL INFLOW 2N-38E-18BAB1	016	019	SW			1972	1973	A				USGS	D
17040201	DRAIN WELL INFLOW 2N-37E-10BDA1	016	019	SW			1972	1972	A			A	USGS	D
17040201	DRAIN WELL INFLOW 2N-37E-11BAD1	016	019	SW			1972	1972	A			A	USGS	D
17040201	DRAIN WELL INFLOW 2N-37E-11ABC1	016	019	SW			1972	1972	A			A	USGS	D
17040201	DRAIN WELL INFLOW 2N-37E-11ABA1	016	019	SW			1972	1972	A				USGS	D
17040201	DRAIN WELL INFLOW 2N-37E-2CDD1	016	019	SW			1972	1972	A			A	USGS	D
17040201	DRAIN WELL INFLOW 2N-37E-2DCD1	016	019	SW			1972	1972	A				USGS	D
17040201	DRAIN WELL INFLOW 2N-37E-2DCB1	016	019	SW			1972	1972	A				USGS	D
17040201	DRAIN WELL INFLOW 2N-37E-2CDA1	016	019	SW			1972	1972	A			A	USGS	D
17040201	DRAIN WELL INFLOW 2N-37E-2BDC1	016	019	SW			1972	1972	A			A	USGS	D
17040201	DRAIN WELL INFLOW 3N-38E-29BBC1	016	019	SW			1972	1972	A				USGS	D
17040201	DRAIN WELL INFLOW 3N-38E-20BCC1	016	019	SW			1972	1972	A				USGS	D
17040201	DRAIN WELL INFLOW 3N-38E-18DAB1	016	019	SW			1972	1972	A				USGS	D
17040201	GREAT WESTERN CANAL 3N-37E-13BCA1	016	019	SW			1972	1972	A			A	USGS	D
17040201	DRAIN WELL INFLOW 3N-38E-7DCC1	016	019	SW			1972	1972	A				USGS	D
17040201	DRAIN WELL INFLOW 3N-38E-10CBB1	016	019	SW			1972	1972	A				USGS	D
17040201	DRAIN WELL INFLOW 3N-37E-11ADC1	016	019	SW			1972	1972	A			A	USGS	D
17040201	DRAIN WELL INFLOW 3N-38E-4DCC1	016	019	SW			1972	1972	A			A	USGS	D
17040201	DRAIN WELL INFLOW 3N-37E-2DDD1	016	019	SW			1972	1972	A			A	USGS	D
17040201	DRAIN WELL INFLOW 3N-38E-3DBC1	016	019	SW			1972	1972	A			A	USGS	D
17040201	DRAIN WELL INFLOW 3N-37E-6DAD1	016	019	SW			1973	1973	A				USGS	D
17040201	DRAIN WELL INFLOW 3N 37E 02DBA1	016	019	SW			1972	1973	A			A	USGS	D
17040201	DRAIN WELL INFLOW 6N-36E-35DAD1	016	051	SW			1973	1973	A			A	USGS	D
17040202	THIRTY CR AT BIG SPR NR MACKS INN ID	016	043	SW			1974		E			E	USGS	D
17040202	MOOSE CREEK NEAR BIG SPRINGS	016	043	SW			1965		E			E	USGS	D
17040203	HENRYS FORK AT ST ANTHONY ID	016	043	SW			1960	1973	B				USBR	
17040203	NF SQUIRREL C NR SQUIRREL ID	056	039	SW			1964	1967	B				USBR	
17040204	TETON R NR DRIGGS ID	016	081	SW			1963	1972	B				USBR	
17040204	TETON R NR ST ANTHONY ID	016	043	SW			1960	1972	B				USBR	
17040204	TETON RIVER AB LEIGH CREEK NR DRIGGS ID	016	081	SW	335.00	004	1972		R			E	USGS	D
17040204	TETON R NR ST ANTHONY IDAHO	016	043	SW	890.00	024	1963		E			E	USGS	D
17040204	BITCH CR 1/4 MI US HWY 32 X-ING	016	081	SW			1971		M				USBR	C
17040204	SF TETON R SH 33 X-ING	016	081	SW			1971		M				USBR	C
17040204	CANYON C 1000 FT US SH 33 X-ING	016	065	SW			1971		M				USBR	C
17040204	TETON R 1 MI BELOW DAMSITE	016	043	SW			1971		M				USBR	C

HYDROLOGIC UNIT CODE	STATION NAME AND LOCATION	STATE	COUNTY	TYPE OF SITE	DRAINAGE AREA	BASIN DESCRIPTOR	QW BEGIN YEAR	QW END YEAR	SUSP SED CONCEN	SUSP PART SIZE	BED MAT PART SIZE	SUSP DISCHARGE	ORGANIZATION CODE	SED STOR MEDIA
17040205	WILLOW CR AB RIRIE LAKE NR OZONE IDA	016	019	SW			1973	1974	K			K	USGS	D
17040205	WILLOW CREEK NR RIRIE, IDAHO	016	019	SW	627.00	024	1967		R			K	USGS	D
17040205	WILLOW C 9M SE OF IONA AT OLD BRDG	016	019	SW			1974	1976	M				USBR	C
17040205	WILLCREEK BL RIRIE DAM OUTLET	016	019	SW			1974	1976	M				USBR	C
17040206	SNAKE R NR SHELLEY ID	016	011	SW			1964	1972	B				USBR	
17040206	SNAKE R NR BLACKFOOT ID	016	011	SW			1964	1972	B				USBR	
17040206	PORTNEUF R AT POCATELLO ID	016	005	SW			1965	1972	B				USBR	
17040206	SNAKE RIVER NEAR SHELLEY IDAHO	016	011	SW	9790.00	124	1970		A			A	USGS	D
17040206	SNAKE RIVER NEAR BLACKFOOT IDAHO	016	011	SW	11310.00	124	1965		A			A	USGS	D
17040206	DRAIN WELL INFLOW 1N-37E-5CCD1	016	019	SW			1972	1972	A				USGS	D
17040206	DRAIN WELL INFLOW 1N-37E-6CBC1	016	019	SW			1973	1973	A				USGS	D
17040207	BLACKFOOT RIVER NEAR BLACKFOOT, IDAHO	016	011	SW	1295.00	124	1965		A			A	USGS	D
17040207	STEWART CR ABV. CONF.W/DIAMONDCR	016	029	SW	3.00		1974		A				USFS	D
17040207	DIAMOND CR ABV CONF W/STEWART CR	016	029	SW	10.00		1974		A				USFS	D
17040207	ANGUS CR 1/2 MI ABV NF BY	016	029	SW	4.00		1974		H				USFS	D
17040207	SHEEP CR. FTBRDG 1.5MI ABV NF BY	016	029	SW	9.00		1974		H				USFS	D
17040207	ANGUS CREEK NEAR HEADWATERS	016	029	SW	1.00		1974		K				USFS	D
17040207	MABIE CR AT FOREST BOUNDARY	016	029	SW			1974	1975	N				USFS	D
17040207	BLACKFOOT R BELOW NF BNDY	016	029	SW	152.00		1974		H				USFS	D
17040207	KENDALL CR AT NF BOUNDARY	016	029	SW			1974	1975	Q				USFS	D
17040207	1/4 MILE ABOVE FOREST BDRY	016	029	SW			1975		H				USFS	D
17040207	100 YARDS ABOVE FOREST BDRY.	016	029	SW			1975	1975	A				USFS	D
17040207	250 YARDS BELOW FOREST BDRY.	016	029	SW			1975	1975	A				USFS	D
17040208	PORTNEUF RIVER AT POCATELLO, IDAHO	016	005	SW	1250.00	124	1965		E			E	USGS	D
17040208	PORTNEUF R NR TYHEE IDAHO	016	005	SW			1970	1972	R			R	USGS	D
17040209	SNAKE R AT NEELEY ID	016	077	SW			1964	1968	B				USBR	
17040209	ROCK CR NR ROCKLAND ID	016	077	SW	182.00	024	1975	1975	A				USGS	D
17040209	SNAKE R AT BURLEY ID	016	031	SW			1971		A				USGS	D
17040209	F MAIN DRAIN AT CAMP HOLLEY LK NR R	016	067	DR			1972	1974	Q				USGS	D
17040209	MILNER LAKE E OF PP ON S SIDE	016	031	SW			1975		M				USBR	C
17040209	WALCOTT LAKE, 3 MILES FROM DAM	016	067	SW			1976		B				USBR	C
17040209	SNAKE RIVER AT NEELEY IDAHO	016	077	SW			1975		E			E	USGS	D
17040209	10S 22E 18CCB1 CANAL	016	031	SW			1972	1972	A			A	USGS	D
17040209	10S 21E 13ACB1 DRAIN WELL INFLOW	016	053	SW			1972	1972	A			A	USGS	D
17040209	09S 22E 26BBA1 DRAIN WELL INFLOW FROM POND	016	067	SW			1972	1973	A			A	USGS	D
17040209	09S 22E 11DDD1 K MAIN DRAIN AT WASTE WELL	016	067	SW			1972	1972	A			A	USGS	D
17040209	09S 24E 06DDD1 DRAIN WELL INFLOW	016	067	SW			1973	1973	A				USGS	D
17040209	09S 24E 06DDB1 DRAIN WELL INFLOW	016	067	SW			1972	1973	A			A	USGS	D
17040209	09S 24E 05DAA3 DRAIN WELL INFLOW	016	067	SW			1973	1973	A				USGS	D
17040209	09S 24E 05BCC TRIBUTARY TO F MAIN DRAIN	016	067	SW			1972	1972	A				USGS	D

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17040209	09S 24E 05BCC F MAIN DRAIN NR RUPERT, IDA	016	067	SW			1972	1973	N			N	USGS	D
17040209	08S 23E 27CCA1 DRAIN WELL INFLOW	016	067	SW			1972	1972	A				USGS	D
17040209	08S 25E 29BDD1 DRAIN WELL INFLOW FROM POND	016	067	SW			1972	1973	A				USGS	D
17040209	08S 25E 20BDB1 DRAIN WELL INFLOW	016	067	SW			1972	1973	A			A	USGS	D
17040209	08S 25E 20CAD1 DRAIN WELL INFLOW	016	067	SW			1972	1972	A				USGS	D
17040209	07S 24E 26DDD1 DRAIN WELL INFLOW	016	067	SW			1973	1973	A			A	USGS	D
17040212	SNAKE RIVER AB BLUE LAKES SPRING	016	083	SW			1976	1976	A			A	USGS	D
17040212	ROCK CREEK NR MOUTH NR TWIN FALLS IDAHO	016	083	SW	300.00	124	1975		A			A	USGS	D
17040212	SNAKE RIVER ABOVE CRYSTAL SPRINGS	016	083	SW			1976	1976	A			A	USGS	D
17040212	SNAKE RIVER NEAR BUHL, IDAHO	016	083	SW		124	1965		A			A	USGS	D
17040212	SNAKE RIVER BELOW CLEAR LAKES SPRING	016	083	SW			1976	1976	A			A	USGS	D
17040212	MUD CREEK AT MOUTH NEAR BUHL IDAHO	016	083	SW			1976	1976	A			A	USGS	D
17040212	SNAKE RIVER ABOVE 1000 SPRINGS NR HAGERMAN I	016	047	SW			1973		A			A	USGS	D
17040212	SNAKE RIVER BELOW 1000 SPRINGS NR HAGERMAN I	016	047	SW			1973		A			A	USGS	D
17040212	SNAKE R BL LOWER SALMON FALLS NR HAGERMAN ID	016	047	SW		124	1965		A			A	USGS	D
17040212	SNAKE RIVER AT SHOESTRING RD NR BLISS IDAHO	016	083	SW			1976	1976	A			A	USGS	D
17040212	ROCK CREEK 7 M SOUTH OF HANSEN	016	083	SW			1975	1976	M				USBR	C
17040212	ROCK C IN PARK NR US HWY #30	016	083	DR			1975	1976	M				USBR	C
17040212	N COTTONWOOD C AT 2800 NORTH	016	083	SW			1975	1976	M				USBR	C
17040212	DEEP CREEK AT 3300 NORTH	016	083	CN			1975	1976	M				USBR	C
17040212	DEEP CREEK NR AUTO WRECKING YARD	016	083	DR			1975	1976	M				USBR	C
17040212	CEDAR DRAW .5 M FROM MOUTH	016	083	DR			1975	1976	M				USBR	C
17040212	09S 18E 11BAA1 CANAL DIV	016	053	SW			1972	1972	A			A	USGS	D
17040212	09S 18E 03DDB2 DRAIN WELL INFLOW	016	053	SW			1972	1972	A				USGS	D
17040212	09S 19E 03DAA1 CANAL DIV	016	053	SW			1972	1972	A			A	USGS	D
17040212	09S 19E 02BBB1 DRAIN WELL INFLOW	016	053	SW			1972	1972	A				USGS	D
17040212	08S 16E 33CCD1 DRAIN WELL INFLOW	016	053	SW			1972	1972	A				USGS	D
17040212	08S 19E 34DAD1 DRAIN WELL INFLOW FROM POND	016	053	SW			1972	1972	A			A	USGS	D
17040212	08S 19E 34DAA2 DRAIN WELL INFLOW	016	053	SW			1972	1973	E				USGS	D
17040212	08S 16E 24AAC1 DRAIN WELL INFLOW	016	053	SW			1972	1972	A				USGS	D
17040212	08S 16E 16CBC1 DRAIN WELL INFLOW	016	053	SW			1972	1972	A				USGS	D
17040212	08S 15E 13ABA1 DRAIN WELL INFLOW FROM POND	016	047	SW		124	1972	1973	R			R	USGS	D
17040212	08S 15E 11CCC1 DRAIN WELL INFLOW	016	047	SW			1972	1972	A				USGS	D
17040212	07S 15E 33CAD1 DRAIN WELL INFLOW	016	047	SW			1972	1973	A			A	USGS	D
17040212	07S 15E 33DBB1 DRAIN WELL INFLOW	016	047	SW			1972	1972	A				USGS	D
17040212	07S 17E 32ADA1 DRAIN WELL INFLOW	016	053	SW			1972	1972	A				USGS	D
17040212	07S 17E 36BBD1 DRAIN WELL INFLOW	016	053	SW			1972	1972	A				USGS	D
17040212	07S 13E 29AAA1 DRAIN WELL INFLOW FROM POND	016	047	SW			1972	1973	A				USGS	D
17040212	07S 18E 19ACC1 DRAIN WELL INFLOW	016	053	SW			1972	1972	A				USGS	D
17040212	07S 13E 14CAD2 DRAIN WELL INFLOW	016	047	SW			1972	1972	A				USGS	D

HYDROLOGIC UNIT CODE	STATION NAME AND LOCATION	STATE	COUNTY	TYPE OF SITE	DRAINAGE AREA	BASIN DESCRIPTOR	OW BEGIN YEAR	OW END YEAR	SUSP SED CONCEN	SUSP PART SIZE	BED MAT PART SIZE	SUSP DISCHARGE	ORGANIZATION CODE	SED STOR MEDIA
17040212	07S 13E 14CAD1 DRAIN WELL INFLOW	016	047	SW			1972	1972	A				USGS	D
17040212	07S 17E 14ACC1 CANAL DIV	016	053	SW			1972	1972	A				USGS	D
17040212	07S 17E 15BCC1 DRAIN WELL INFLOW FROM S	016	053	SW			1972	1973	A			A	USGS	D
17040212	07S 17E 15BCC1 DRAIN WELL INFLOW	016	053	SW			1972	1972	A			A	USGS	D
17040212	07S 13E 14ACC1 DRAIN WELL INFLOW	016	047	SW			1972	1972	A			A	USGS	D
17040212	07S 17E 16BAA1 DRAIN WELL INFLOW	016	053	SW			1972	1972	A				USGS	D
17040212	07S 17E 11CDA1 DRAIN WELL INFLOW	016	053	SW			1972	1972	A				USGS	D
17040212	06S 15E 31CBC1 DRAIN WELL INFLOW	016	047	SW			1972	1972	A				USGS	D
17040212	06S 13E 04CDD1 DRAIN WELL INFLOW	016	047	SW			1973	1973	A				USGS	D
17040213	SALMON FALLS CREEK NEAR HAGERMAN, IDAHO	016	047	SW	2120.00	124	1965		A			A	USGS	D
17040219	06S 14E 24BCC1 DRAIN WELL INFLOW	016	047	SW			1972	1972	A				USGS	D
17040219	06S 14E 13CCD1 CANAL DIV	016	047	SW			1972	1972	A			A	USGS	D
17040219	05S 15E 19DDB1 DRAIN WELL INFLOW	016	047	SW			1972	1973	A			A	USGS	D
17040219	05S 15E 20CAA1 CANAL DIV	016	047	SW			1972	1972	A			A	USGS	D
17040221	06S 17E 02BAD1 DRAIN WELL INFLOW	016	063	SW			1973	1973	A			A	USGS	D
17040221	06S 17E 02BAD2 DRAIN WELL INFLOW	016	063	SW			1973	1973	A			A	USGS	D
17040221	06S 17E 02BBD1 DRAIN WELL INFLOW	016	063	SW			1973	1973	A			A	USGS	D
17040221	05S 17E 35CDB1 DRAIN WELL INFLOW	016	063	SW			1973	1973	A			A	USGS	D
17050101	SNAKE RIVER AT KING HILL IDAHO	016	039	SW	35800.00	124	1950		M	M		M	USGS	D
17050101	B JACKS CR NR BRUNEAU ID	016	073	SW	253.00	004	1967		K	A		K	USGS	D
17050102	BRUNEAU RIVER NEAR HOT SPRING, IDAHO	016	073	SW	2630.00	024	1965		A			A	USGS	D
17050103	SNAKE R NR MURPHY ID	016	001	SW			1960	1972	B				USBR	
17050108	JORDAN C NR JORDAN VALLEY OREG	016	073	SW			1966	1969	B				USBR	
17050108	JORDON CR AB LONE TREE CR NR JORDON VLY , OR	016	027	SW	440.00	024	1967	1967	E				USGS	P
17050112	COTTONWOOD CREEK AT ARROWROCK RESERVOIR ID	016	015	SW	21.40	024	1975		E	E	E		USGS	P
17050112	GROUSE CREEK NR ARROWROCK DAM ID	016	039	SW	8.00	004	1976	1978	E	E			USGS	P
17050112	MOORE CK AB GRANITE CK NR IDAHO CITY ID	016	015	SW	37.00	024	1939	1940	E	E			USGS	P
17050112	GRANITE CK NR IDAHO CITY ID	016	015	SW	4.80	004	1939	1940	E	E			USGS	P
17050112	BANNOCK CREEK NEAR IDAHO CITY, IDAHO	016	015	SW	5.75	004	1975		E	E			USGS	P
17050112	PINE CK AB BARRY PLCR DIV NR IDAHO CITY ID	016	015	SW	6.10	024	1940	1940	E	E			USGS	P
17050112	PINE CK NR IDAHO CITY ID	016	015	SW	6.50	024	1939	1940	E	E			USGS	P
17050112	ELK CK AB GOLD HILL PLCR DIV NR IDAHO CITY I	016	015	SW	13.10	004	1939	1940	E	E			USGS	P
17050112	ELK CK NR IDAHO CITY ID	016	015	SW	22.30	024	1939	1940	E	E			USGS	P
17050112	MOORE CK AB THORN CK NR IDAHO CITY ID	016	015	SW	119.00	024	1939	1940	E	E			USGS	P
17050112	MORES CREEK AB ROBIE CREEK NR ARROWROCK DAM	016	015	SW	399.00	024	1963		A			A	USGS	D
17050113	ANDERSON RANCH RES, 100 YD ABV D	001	039	SW			1976		B				USBR	C
17050113	S F BOISE R 500 YDS BL DAM	016	039	SW			1976		B				USBR	C
17050114	SOUTH BOISE DRAIN NR PARMA, IDAHO	016	027	SW			1971	1972	A			A	USGS	D
17050114	BOSS DRAIN AT MOUTH NR PARMA, IDAHO	016	027	SW			1972	1972	A			A	USGS	D
17050114	NEW YORK CA NR BARBER ID	016	001	CN		014	1939	1940	E	E			USGS	P

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17050114	COTTONWOOD GULCH AT BOISE ID	016	001	SW	16.00	004	1939	1940	E	E			USGS	P
17050114	MOUNTAIN VIEW DR AT BOISE, IDAHO	016	001	SW			1973	1974	E			E	USGS	D
17050114	AMERICAN BLVD STORM SEWER AT BOISE ID	016	001	SW			1973	1974	K			K	USGS	D
17050114	DRY CREEK AT EAGLE, IDAHO	016	001	SW	66.40	024	1971	1972	A			A	USGS	D
17050114	THRUMAN MILL DRAIN NR EAGLE, IDAHO	016	001	SW			1971	1972	A			A	USGS	D
17050114	FIFTEEN MILE CR AT MOUTH NR MIDDLETON, IDAHO	016	027	SW			1972	1972	A			A	USGS	D
17050114	MILL SLOUGH AT MOUTH NR MIDDLETON, IDAHO	016	027	SW			1972	1972	A			A	USGS	D
17050114	WILLOW CREEK AT MOUTH NR MIDDLETON, IDAHO	016	027	SW			1972	1972	A			A	USGS	D
17050114	MASON SLOUGH AT MOUTH AT CALDWELL, IDAHO	016	027	SW			1972	1972	A			A	USGS	D
17050114	HARTLEY DRAIN NR CALDWELL, IDAHO	016	027	SW			1971	1972	A			A	USGS	D
17050114	MASON CREEK AT MOUTH AT CALDWELL, IDAHO	016	027	SW	3220.00	124	1971	1974	E			E	USGS	D
17050114	CONWAY GULCH AT MOUTH NR NOTUS, IDAHO	016	027	SW			1972	1972	A			A	USGS	D
17050114	DIXIE SLOUGH AT MOUTH NR PARMA, IDAHO	016	027	SW			1971	1972	A			A	USGS	D
17050114	BOISE RIVER NR PARMA IDA	016	027	SW	3970.00	014	1969		E	E		E	USGS	D
17050114	INDIAN CREEK @ WILDER HWY BRIDGE	016	027	SW			1976		M				USBR	C
17050114	EAST END DRAIN 1 MI FROM MOUTH	016	027	SW			1976		M				USBR	C
17050114	SAND HOLLOW DRAIN @ 1ST AVE PARM	016	027	SW			1976		M				USBR	C
17050114	TENMILE CR AT CLOVERDALE RD	016	001	SW			1971		M				USBR	C
17050114	TENMILE CR RIDENBAUGH CROSSING	016	001	SW			1971		M				USBR	C
17050114	TENMILE RD AT CHERRY LANE	016	001	SW			1971		M				USBR	C
17050114	TENMILE CR AT CAN ADA ROAD	016	027	SW			1971		M				USBR	C
17050114	TENMILE CR NR MOUTH	016	027	SW			1971		M				USBR	C
17050114	INDIAN CR AT MOUTH	016	027	SW			1971		M				USBR	C
17050114	INDIAN CR AT 21 AV CALDWELL	016	027	SW			1971		M				USBR	C
17050114	INDIAN CR AT KARCHER RD NAMPA	016	027	SW			1971		M				USBR	C
17050114	INDIAN CR AT NAMPA BLVD NAMPA	016	027	SW			1971		M				USBR	C
17050114	INDIAN CR CENTER SEC26 T3N R2W	016	027	SW			1971		M				USBR	C
17050114	NEW YORK CA AT LK SHORE DRIVE	016	027	SW			1972	1976	M				USBR	C
17050114	RIDEN BAUGH DROP AT NEW YORK CA	016	027	SW			1972	1976	M				USBR	C
17050114	GARLAND DRAIN N YORK CANAL	016	027	SW			1972		M				USBR	C
17050114	WILLOW CR AT HWY 44	016	027	SW			1972		M				USBR	C
17050114	BOISE RIVER BELOW LUCKY PEAK DAM	016	001	SW			1973		M				USBR	C
17050114	BOISE R BELOW BARBER DAM	016	001	SW			1973		M				USBR	C
17050114	RIDENBAUGH DR E END ANN MORRISON	016	001	SW			1973		M				USBR	C
17050114	BAXTER DR W END ANN M PARK	016	001	SW			1973		M				USBR	C
17050114	DAVIS DR BELOW GARDEN CITY STP	016	001	SW			1973		M				USBR	C
17050114	BOISE R AT GLENWOOD BRIDGE	016	001	SW			1973		M				USBR	C
17050114	EAGLE DR AT EAGLE	016	001	SW			1973		M				USBR	C
17050114	FISH HATCHERY OUTFALL NR EAGLE	016	001	SW			1973		M				USBR	C
17050114	THURMAN DR NR EAGLE	016	001	SW			1973		M				USBR	C

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17050114	BOISE R AT STAR BRIDGE	016	001	SW			1973		M				USBR	C
17050114	NORTH MIDDLETON DRAIN	016	027	SW			1973		M				USBR	C
17050114	SOUTH MIDDLETON DRAIN	016	027	SW			1972		M				USBR	C
17050114	HARTLEY DR NR CALDWELL (EAST)	016	027	SW			1973		M				USBR	C
17050114	HARTLEY GULCH NR CALDWELL (WEST)	016	027	SW			1972		M				USBR	C
17050114	BOISE R AT HWY 30 BRDG CALDWELL	016	027	SW			1973		M				USBR	C
17050114	MASON DR NR CALDWELL	016	027	SW			1972		M				USBR	C
17050114	MASON CR NORTH CHANNEL	016	027	SW			1973		M				USBR	C
17050114	INDIAN CR AT ROBISON RD	016	027	SW			1973		M				USBR	C
17050114	DIXIE DR MOUTH NW1/4 S36 T5N R5W	016	027	SW			1972		M				USBR	C
17050114	CONWAY GULCH W NOTUS HWY 95	016	027	SW			1973		M				USBR	C
17050114	DRY CREEK NR EAGLE HWY 44 CROSS	016	001	SW			1974		M				USBR	C
17050114	MASON CREEK SOUTH CHANNEL	016	027	SW			1973		M				USBR	C
17050114	LK LOWELL 1.5 M E BOAT RAMP	016	027	SW			1975		M				USBR	C
17050114	LK LOWELL NR UPPER EMBANKMENT	016	027	SW			1975		M				USBR	C
17050114	LK LOWELL SOUTHEAST END	016	027	SW			1975		M				USBR	C
17050114	LK LOWELL ACROSS FR U.EMBANKMENT	016	027	SW			1975		M				USBR	C
17050114	LK LOWELL 1M SE GAGE STA LL CANL	016	027	SW			1975		M				USBR	C
17050115	SAND HOLLOW DRAIN AT MOUTH NR PARMA, IDAHO	016	027	SW			1971	1972	A			A	USGS	D
17050115	SNAKE R AT NYSSA OR	041	045	SW	58700.00	014	1973		E	E		E	USGS	D
17050115	WEISER RIVER AT MOUTH, AT WEISER, IDAHO	016	087	SW			1974	1974	A	A		A	USGS	D
17050115	GRAVEYARD WN	016	075	SW			1968	1976	M				USBR	C
17050118	BULLY CREEK NEAR VALE,OREG.	041	045	SW	570.00	004	1957	1975	2			2	USGS	D
17050122	PAYETTE R NR EMMETT	016	045	SW			1968	1976	M				USBR	C
17050122	COMBINE DR AT TUNNEL 7 NW	016	045	SW			1969	1976	M				USBR	C
17050122	BISSEL CREEK NEAR MOUTH	016	045	SW			1973	1976	M				USBR	C
17050122	PAYETTE R NR FALK	016	075	SW			1969	1976	M				USBR	C
17050122	MAIN DR B LATERAL DR	016	075	SW			1969	1976	M				USBR	C
17050122	CEMETRAY DR NR NEW PLYMOUTH	016	075	SW			1970	1976	M				USBR	C
17050122	PAYETTE RIVER NEAR PAYETTE	016	075	SW			1969	1976	M				USBR	C
17050122	BIG WILLOW CR AT TOM PENCE RANCH	016	075	SW			1968	1975	B				USBR	
17050122	NORTH DRAIN AT HWY #16 NR EMMETT	016	045	SW			1969	1976	M				USBR	C
17050122	S DRAIN AT LAST CHANCE CA WASTEWAY	016	045	SW			1969	1976	M				USBR	C
17050122	BISSEL C BETWEEN SEC 28 & 29	016	045	SW			1975	1976	M				USBR	C
17050122	NORTH DRAIN AT RR NR BRAMWELL	016	045	SW			1969	1976	M				USBR	C
17050122	SOUTH DRAIN NR BRAMWELL	016	045	SW			1969	1976	M				USBR	C
17050122	SMALL DRAIN N OF RR NR BRAMWELL	016	045	SW			1969	1976	M				USBR	C
17050122	COMBINE DRAIN BL BLACK CANYON PUMP	016	045	SW			1975	1976	M				USBR	C
17050122	SMALL DR 1/2 MI E GRAVEYARD W W	016	075	SW			1969	1976	M				USBR	C
17050122	PAYETTE R 0.5 M WEST EMMETT STP	016	045	SW			1975	1976	M				USBR	C

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17050122	BLACK CANYON RE IN SQUAW CARM	016	045	SW			1975	1976	M				USBR	C
17050122	SQUAW C AT HWY #52 CROSSING	016	045	SW			1974	1976	M				USBR	C
17050122	LITTLE WILLOW CAB LWR PAYETTE	016	075	SW			1974	1976	M				USBR	C
17050123	GOLD FORK NR ROSEBERRY ID	016	085	SW			1965	1970	B				USBR	
17050123	LAKE F CR	016	085	SW			1975		B		B		USFS	
17050124	WEISER RIVER AT TAMARACK IDAHO	016	003	SW	36.50	004	1974	1978	R			R	USGS	D
17050124	EAST FORK WEISER RIVER NEAR STARKEY ID	016	003	SW	31.60	024	1974	1974	A			A	USGS	D
17050124	LOST CREEK ABOVE RESERVOIR NEAR TAMARACK IDA	016	003	SW	25.10	004	1974	1974	A			A	USGS	D
17050124	WEST FORK WEISER RIVER NR TAMARA	016	003	SW	24.40	004	1974	1975	A				USGS	D
17050124	WEST FORK WEISER RIVER NEAR FRUITVALE, IDAHO	016	003	SW	87.70	014	1974	1975	A			A	USGS	D
17050124	MILL CREEK NEAR COUNCIL, IDAHO	016	003	SW	8.22	004	1974	1975	A			A	USGS	D
17050124	NORTH HORNET CREEK NEAR COUNCIL, IDAHO	016	003	SW	31.20	004	1974	1975	A			A	USGS	D
17050124	HORNET CREEK NEAR COUNCIL, IDAHO	016	003	SW	107.00	024	1974	1978	R			R	USGS	D
17050124	COTTONWOOD CREEK, AB.DIV., NR. COUNCIL, IDAH	016	003	SW	18.50	004	1974	1975	A			A	USGS	D
17050124	COTTONWOOD CREEK NEAR COUNCIL ID	016	003	SW	20.70	024	1974	1975	R			R	USGS	D
17050124	M FK WEISER RIVER AB FALL CREEK NR MESA ID	016	003	SW		004	1974		A			A	USGS	D
17050124	JOHNSON CREEK NEAR GOODRICH, IDAHO	016	003	SW	21.00	004	1974		R			R	USGS	D
17050124	DRY CR AT GOODRICH ID	016	003	SW	7.37	004	1974	1975	A			A	USGS	D
17050124	GOODRICH CREEK NEAR GOODRICH, IDAHO	016	003	SW	15.30	004	1974		R			R	USGS	D
17050124	WEISER RIVER NR CAMBRIDGE ID	016	087	SW	605.00	004	1973		E	E		E	USGS	D
17050124	RUSH CREEK AT CAMBRIDGE ID	016	087	SW	32.00	124	1974	1978	R			R	USGS	D
17050124	SPRING CREEK AT CAMBRIDGE IDAHO	016	087	SW			1975	1975	A			A	USGS	D
17050124	PINE CREEK NEAR CAMBRIDGE, IDAHO	016	087	SW	54.00	024	1974	1978	E			E	USGS	D
17050124	WEST FORK PINE CREEK NEAR CAMBRIDGE, IDAHO	016	003	SW	23.90	004	1974	1975	A			A	USGS	D
17050124	PINE CREEK AT MOUTH AT CAMBRIDGE IDAHO	016	087	SW	83.50	024	1974	1975	R			R	USGS	D
17050124	L. WEISER R. AT RUBY RANCH NR. INDIAN VALLEY	016	003	SW	80.30	004	1974	1975	A			A	USGS	D
17050124	LITTLE WEISER RIVER NR MOUTH NR CAMBRIDGE ID	016	087	SW		024	1974	1975	R			R	USGS	D
17050124	DIXIE CREEK NEAR CAMBRIDGE, IDAHO	016	087	SW	11.00	004	1974	1975	A			A	USGS	D
17050124	KEITHLY CREEK, AB. DIV., NR. MIDVALE, IDAHO	016	087	SW	13.70	004	1973		E			E	USGS	D
17050124	KEITHLY CREEK AT MOUTH NEAR MIDVALE IDAHO	016	087	SW			1974	1975	N			N	USGS	D
17050124	BANNER CREEK NEAR MIDVALE, IDAHO	016	087	SW	8.95	004	1974	1975	A			A	USGS	D
17050124	WEISER R ABOVE CRANE CREEK, NR WEISER, IDAHO	016	087	SW	1160.00	124	1974	1974	A			A	USGS	D
17050124	CRANE CR AB RES NR CRANE ID	016	087	SW			1975	1975	A			A	USGS	D
17050124	HOG CR NR CRANE ID	016	087	SW			1975	1975	A			A	USGS	D
17050124	MILL CREEK NR CRANE	016	087	SW	12.20	004	1974	1975	A			A	USGS	D
17050124	TENNISON CREEK NEAR SOUTH CRANE SCHOOL, IDAH	016	087	SW	12.10	004	1974	1975	A			A	USGS	D
17050124	SOUTH FORK CRANE CREEK NEAR CRANE, IDAHO	016	087	SW	52.00	014	1974	1975	A			A	USGS	D
17050124	CRANE CREEK NR MIDVALE IDA	016	087	SW	242.00	014	1974	1974	A	A		A	USGS	D
17050124	CRANE CREEK AT MOUTH, NEAR WEISER, IDAHO	016	087	SW	288.00	014	1973	1975	N	E		N	USGS	D
17050124	WEISER RIVER NEAR WEISER, IDAHO	016	087	SW	1460.00	024	1959		M	E		M	USGS	D

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17050124	COVE C NR WEISER ID	016	087	SW	36.90	024	1974	1975	A				USGS	D
17050124	MANN CREEK ABOVE RESERVOIR NEAR WEISER, IDAH	016	087	SW	53.50	004	1974	1975	A			A	USGS	D
17050124	MONROE CREEK ABOVE SHEEP CREEK NEAR WEISER,	016	087	SW	32.00	024	1973	1975	N			N	USGS	D
17050124	EF WEISER R	016	003	SW			1975		B		B		USFS	
17050201	INDIAN CREEK BL CUPRUM	016	003	SW			1971	1972	Q				USFS	
17050201	SCOTT CREEK ABOVE DIVERSIONS, NEAR WEISER, I	016	087	SW	21.70	004	1974	1975	A			A	USGS	D
17050201	HOG CREEK NEAR WEISER, IDAHO	016	087	SW	21.40	004	1974	1975	A			A	USGS	D
17050201	WILDHORSE R	016	003	SW			1975		B		B		USFS	
17050201	SE R	016	003	SW			1975		B		B		USFS	
17050203	POWDER RIVER AT BAKER,OREG.	041	001	SW	351.00	124	1959	1975	2			2	USGS	D
17060101	COPPER CREEK	016	003	SW			1971	1972	Q				USFS	
17060101	KURRY CREEK	016	049	SW			1972	1975	A				USFS	D
17060103	SNAKE RIVER NEAR ANATONE WASHINGTON	053	003	SW	92960.00	014	1958		E	E		E	USGS	D
17060104	GRANDE RONDE RIVER NEAR HILGARD, OREG.	041	061	SW	505.00	024	1976	1976	A	A			USGS	D
17060105	MINAM RIVER AT MINAM,OREG.	041	063	SW	240.00	004	1964		E			E	USGS	D
17060107	DEADMAN CR NR CENTRAL FERRY,WASH	053	023	SW			1964	1967	M	E		M	USGS	D
17060107	MEADOW CREEK NR CENTRAL FERRY, WASH.	053	023	SW	66.20		1964	1967	M	E		M	USGS	D
17060107	TUCANNON RIVER NEAR STARBUCK, WASH	053	013	SW	431.00	024	1961	1970	2	E		2	USGS	D
17060108	PALOUSE RIVER NEAR COLFAX, WASH.	053	075	SW	491.00	124	1962	1963	M				USGS	P
17060108	S.F. PALOUSE R. AT PULLMAN,WASH	053	075	SW	132.00	124	1964		E			E	USGS	D
17060108	S F PALOUSE R NR COLFAX	053	075	SW	277.00	004	1964		E			E	USGS	D
17060108	PALOUSE RIVER AT HOOPER, WASH	053	075	SW	2500.00	023	1959		2	E		2	USGS	D
17060110	SNAKE RIVER AT BURBANK, WASH.	053	021	SW	108800.00	124	1960		E	E		E	USGS	D
17060201	CHALLIS C NR CHALLIS ID	016	037	SW			1962	1970	B				USBR	
17060201	SALMON RIVER AT HEAD NR OBSIDIAN ID	016	037	SW			1971		E			E	USGS	D
17060201	BEAVER CREEK NEAR STANLEY, IDAHO	016	037	SW	15.00	004	1971	1978	E			E	USGS	D
17060201	CHAMPION CREEK NEAR OBSIDIAN, IDAHO	016	037	SW			1971	1972	A			A	USGS	D
17060201	FOURTH OF JULY CREEK NEAR OBSIDIAN, IDAHO	016	037	SW			1971	1972	A			A	USGS	D
17060201	VALLEY CREEK AT STANLEY, IDAHO	016	037	SW	147.00	024	1957	1978	E			E	USGS	D
17060201	BASIN CREEK NEAR STANLEY, IDAHO	016	037	SW			1971	1972	A			A	USGS	D
17060201	YANKEE FORK SALMON R NR CLAYTON IDAHO	016	037	SW	195.00	004	1971	1974	E			E	USGS	D
17060201	SALMON RIVER BELOW YANKEE FORK, NEAR CLAYTON	016	037	SW	802.00	024	1971		E			E	USGS	D
17060201	WARM SPRINGS CREEK AT ROBINSON BAR NR CLAYTO	016	037	SW	81.00	024	1971	1978	E			E	USGS	D
17060201	PEACH CREEK NEAR CLAYTON, IDAHO	016	037	SW	7.62	004	1971	1978	E			E	USGS	D
17060201	SLATE CREEK NEAR CLAYTON, IDAHO	016	037	SW			1971	1972	A	A		A	USGS	D
17060201	HOLMAN CREEK NEAR CLAYTON, IDAHO	016	037	SW	6.10	004	1971	1978	E			E	USGS	D
17060201	THOMPSON C AB PAT HUGHES C NR CLAYTON, IDAHO	016	037	SW			1971	1972	R			R	USGS	D
17060201	PAT HUGHES CREEK NEAR CLAYTON, IDAHO	016	037	SW			1971	1973	E			E	USGS	D
17060201	THOMPSON CREEK NEAR CLAYTON IDAHO	016	037	SW	29.10	004	1971		E			E	USGS	D
17060201	SQUAW CREEK ABOVE BRUNO CREEK NR CLAYTON, ID	016	037	SW			1971	1972	A			A	USGS	D

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17060201	BRUNO CREEK NEAR CLAYTON, IDAHO	016	037	SW	6.29	004	1971		E			E	USGS	D
17060201	SQUAW CREEK BL BRUNO CREEK NR CLAYTON ID	016	037	SW	79.00	004	1973		E			E	USGS	D
17060201	SQUAW CREEK NEAR CLAYTON, IDAHO	016	037	SW			1971	1972	R			R	USGS	D
17060201	SALMON RIVER ABOVE EAST FORK NR CLAYTON, IDA	016	037	SW			1971	1973	R			R	USGS	D
17060201	S.F. OF E.F. SALMON R AB W.F. NR CLAYTON, ID	016	037	SW			1971		E			E	USGS	D
17060201	W.F. OF E.F. SALMON R AB S.F. NR CLAYTON, ID	016	037	SW			1971		E			E	USGS	D
17060201	WEST PASS CREEK NEAR CLAYTON, IDAHO	016	037	SW			1971	1973	R			R	USGS	D
17060201	E.F. SALMON R BL BOWERY G. S. NR CLAYTON, ID	016	037	SW			1971		E			E	USGS	D
17060201	GERMANIA CREEK NEAR CLAYTON, IDAHO	016	037	SW			1971		E			E	USGS	D
17060201	WICKIUP CREEK NEAR CLAYTON, IDAHO	016	037	SW			1971	1974	A			E	USGS	D
17060201	E.F. SALMON R BL WICKIUP C NR CLAYTON, IDAHO	016	037	SW			1971	1973	K			K	USGS	D
17060201	LITTLE BOULDER CREEK AB BAKER LAKE NR CLAYTO	016	037	SW	3.30		1970		N			K	USGS	D
17060201	L BOULDER C BL BO. CHAIN LK OUTLET NR CLAYTO	016	037	SW	12.20		1970		N			R	USGS	D
17060201	LITTLE BOULDER CREEK NEAR CLAYTON IDAHO	016	037	SW	18.40	004	1969		K			K	USGS	D
17060201	BIG BOULDER CR AT LIVINGSTON MILL NR CLAYTON	016	037	SW	9.30		1970		N			A	USGS	D
17060201	JIM CREEK AT LIVINGSTON MILL NR CLAYTON ID	016	037	SW	5.50		1970		N			N	USGS	D
17060201	BIG BOULDER CREEK NEAR CLAYTON, IDAHO	016	037	SW	27.50	004	1971		E			E	USGS	D
17060201	BIG LAKE CREEK NEAR CLAYTON, IDAHO	016	037	SW			1971	1972	R			R	USGS	D
17060201	HERD CREEK NEAR CLAYTON, IDAHO	016	037	SW			1971		E			E	USGS	D
17060201	ROAD C ABOVE HORSE BASIN C NR CLAYTON, IDAHO	016	037	SW			1971		E			E	USGS	D
17060201	HORSE BASIN CREEK NEAR CLAYTON IDAHO	016	037	SW			1971		E			E	USGS	D
17060201	ROAD CREEK NEAR CLAYTON IDAHO	016	037	SW			1971		E			E	USGS	D
17060201	E FK SALMON RIVER NR CLAYTON ID	016	037	SW	532.00	004	1971		E	E		E	USGS	D
17060201	MALM GULCH NEAR CLAYTON, IDAHO	016	037	SW	9.38	004	1972	1972	E				USGS	D
17060201	BAYHORSE CREEK NEAR CHALLIS IDAHO	016	037	SW			1973		E			E	USGS	D
17060201	SALMON RIVER NEAR CHALLIS, IDAHO	016	037	SW	1800.00	024	1965		E	E		E	USGS	D
17060201	CHALLIS CR BELOW JEFFS CR NR CHALLIS IDAHO	016	037	SW	91.20	004	1962	1970	E				USGS	
17060202	MORSE CREEK ABOVE DIVERSIONS NEAR MAY, IDAHO	016	059	SW	18.00	004	1971	1971	E				USGS	D
17060203	ANDERSON CREEK	016	059	SW			1972		Y				USFS	
17060203	ANDERSON CREEK	016	059	SW			1972		Y				USFS	
17060203	ANDERSON CREEK	016	059	SW			1972		Y				USFS	
17060203	DAHLONEGA CREEK	016	059	SW			1972		Y				USFS	
17060203	DAHLONEGA CREEK	016	059	SW			1972		Y				USFS	
17060203	DAHLONEGA CREEK	016	059	SW			1972		Y				USFS	
17060203	DUMP CREEK	016	059	SW			1972		Y				USFS	
17060203	NF IRON CREEK	016	059	SW			1972		Y				USFS	
17060203	NF IRON CREEK	016	059	SW			1972		Y				USFS	
17060203	NF IRON CREEK	016	059	SW			1972		Y				USFS	
17060203	NF IRON CREEK	016	059	SW			1972		Y				USFS	
17060203	NF IRON CREEK	016	059	SW			1972		Y				USFS	

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17060203	INDIAN CREEK	016	059	SW			1972		Y				USFS	
17060203	INDIAN CREEK	016	059	SW			1972		Y				USFS	
17060203	INDIAN CREEK	016	059	SW			1972		Y				USFS	
17060203	INDIAN CREEK	016	059	SW			1972		Y				USFS	C
17060203	MOOSE CREEK	016	059	SW			1972		Y				USFS	
17060203	MF SALMON R AT MOUTH	016	059	SW			1972		Y				USFS	
17060203	MUSGROVE CREEK	016	059	SW			1972		Y				USFS	
17060203	MUSGROVE CREEK	016	059	SW			1972		Y				USFS	
17060203	MUSGROVE CREEK	016	059	SW			1972		Y				USFS	
17060204	BIG EIGHTMILE CREEK	016	059	SW			1972		Y				USFS	
17060204	BIG EIGHTMILE CREEK	016	059	SW			1972		Y				USFS	
17060204	BIG EIGHTMILE CREEK	016	059	SW			1972		Y				USFS	
17060204	BIG EIGHTMILE CREEK	016	059	SW			1972		Y				USFS	
17060206	CAMAS CREEK	016	059	SW			1972		Y				USFS	
17060206	CAMAS CREEK	016	059	SW			1972		Y				USFS	
17060206	CAMAS CREEK	016	059	SW			1972		Y				USFS	
17060206	LOWER BIG CR	016	085	SW			1974		B				USFS	
17060208	SF K CREEK	016	049	SW			1971	1971			B		USFS	
17060208	NORTH TWIN C WEIR	016	085	SW			1974				A		USFS	
17060208	S FK SALMON RIVER NR KRASSEL RANGER STATION	016	085	SW	330.00	004	1973		E			E	USGS	D
17060208	E FK OF S FK SALMON RIVER NR STIBNITE ID	016	085	SW	42.50	124	1969		E			E	USGS	D
17060208	LOWER POVERTY X-S	016	085	SW			1973				A		USFS	
17060208	DOLLAR CR X-S	016	085	SW			1973				A		USFS	
17060208	DIME CR X-S	016	085	SW			1966				A		USFS	
17060208	CABIN CR X-S	016	085	SW			1966				A		USFS	
17060208	SF PLUNGE X-S	016	085	SW			1973				A		USFS	
17060208	FISH TRAP X-S	016	085	SW			1973				A		USFS	
17060208	LOWER STOLLE X-S	016	085	SW			1966				A		USFS	
17060208	UPPER STOLLE X-S	016	085	SW			1966				A		USFS	
17060208	UPPER S F X-S	016	085	SW			1973				A		USFS	
17060208	TEAPOT #8	016	085	SW			1975		B		B		USFS	
17060208	SF SALMON R AT GAGE	016	085	SW			1973		B		B		USFS	
17060208	EF OF SOUTH FORK OF SALMON AT SF	016	085	SW			1975		B		B		USFS	
17060208	SECESH R AB LICK CR	016	085	SW			1975		B		B		USFS	
17060209	SALMON RIVER AT WHITEBIRD, IDAHO	016	049	SW	13550.00	004	1965		H	H		H	USGS	D
17060209	NORTH FORK SLATE CR	016	049	SW			1974	1975	A				USFS	D
17060209	JOHN DAY AT GAGE	016	049	SW			1973	1975	A				USFS	D
17060209	ALLISON CREEK	016	049	SW			1974	1975	A				USFS	D
17060209	KELLY CR	016	049	SW			1974	1975	A				USFS	D
17060209	FRENCH CR	016	049	SW			1975		B		B		USFS	

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17060209	S R AT FRENCH CR	016	049	SW			1975		B				USFS	
17060210	RAPID R BL CASTLE CREEK	016	003	SW			1971	1972	Q				USFS	
17060210	CASTLE CREEK	016	003	SW			1971	1972	Q				USFS	
17060210	RAPID RIVER AB COPPER CREEK	016	003	SW			1971	1972	Q				USFS	
17060210	RAPID RIVER AB LAKE CREEK	016	003	SW			1971	1972	Q				USFS	
17060210	LAKE CREEK	016	003	SW			1971	1972	Q				USFS	
17060210	PARADISE CREEK	016	003	SW			1971	1972	Q				USFS	
17060210	RAPID R AB CASTLE CREEK	016	003	SW			1971	1972	Q				USFS	
17060210	RAPID RIVER AT GAGE	016	049	SW			1972	1975	A				USFS	D
17060302	SWIFTWATER CR	016	049	SW			1975	1975	A				USFS	D
17060302	ELK CITY CR	016	049	SW			1975	1975	A				USFS	D
17060302	MEADOW CREEK AT GAGE	016	049	SW			1972	1975	A				USFS	D
17060303	CAMP CREEK	016	049	SW			1974	1974				R	USFS	D
17060303	FOUR BIT CREEK	016	049	SW			1974	1974				R	USFS	D
17060303	LUNCH CREEK	016	049	SW			1974	1974				R	USFS	D
17060303	RELASCOPE CREEK	016	049	SW			1974	1974				R	USFS	D
17060303	WALDE CREEK	016	049	SW			1974	1974				K	USFS	D
17060304	FAN CREEK	016	049	SW			1974	1974				R	USFS	D
17060304	TROUT CREEK	016	049	SW			1974	1974				R	USFS	D
17060304	POLAR CREEK	016	049	SW			1974	1974				K	USFS	D
17060305	N FK CLEARWATER RIVER AT AHSAHKA ID	016	035	SW	2440.00	004	1957		2	E		2	USGS	D
17060305	SCHOONER CREEK	016	049	SW			1975	1975	A				USFS	D
17060305	TRAPPER CREEK AT GAGE	016	049	SW			1972	1975	A				USFS	D
17060305	WEST FORK RED RIVER	016	049	SW			1975	1975	A				USFS	D
17060305	SOUTH FORK RED RIVER	016	049	SW			1975	1975	A				USFS	D
17060305	WATERGATE CREEK	016	049	SW			1975	1975	A				USFS	D
17060305	DITCH CREEK	016	049	SW			1975	1975	A				USFS	D
17060305	WEST FORK NEWSOME CR	016	049	SW			1974	1975	A				USFS	D
17060305	MOOSE CREEK	016	049	SW			1974	1975	A				USFS	D
17060305	LITTLE ELK AT GAGE	016	049	SW			1972	1975	A				USFS	D
17060306	LAWYER CREEK NR NEZPERCE IDAHO	016	049	SW	150.00	004	1972	1974	E			E	USGS	D
17060306	LAPWAI CREEK NR LAPWAI ID	016	069	SW	235.00	024	1974		R			R	USGS	D
17060306	CLEARWATER RIVER AT SPALDING IDAHO	016	069	SW	9570.00	004	1958		H	S		H	USGS	D
17060306	MIKE WHITE CREEK	016	049	SW			1974	1974				R	USFS	D
17060306	BONAMI CREEK	016	027	SW			1974	1974				K	USFS	D
17060306	DISALTO CREEK	016	027	SW			1974	1974				K	USFS	D
17060306	SECUNDA CREEK	016	027	SW			1974	1974				K	USFS	D
17060307	COUGAR CREEK	016	035	SW			1974	1974				R	USFS	D
17060307	SHEEP MOUNTAIN CREEK	016	035	SW			1974	1974				R	USFS	D
17060307	CAMP CREEK	016	035	SW			1974	1974				R	USFS	D

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17060307	WOLF CREEK	016	035	SW			1974	1974				R	USFS	D
17060307	COOL CREEK	016	035	SW			1974	1974				R	USFS	D
17060307	ICE CREEK	016	049	SW			1974	1974				R	USFS	D
17060308	NF CLEARWATER R AB AHSAHKA IDAHO	016	035	SW			1966	1967	W				USGS	P
17070101	COLUMBIA RIVER AT MCNARY DAM,NEAR UMATILLA,O	041	059	SW	214000.00	124	1960	1969	2			2	USGS	D
17070101	ALDER CR AT ALDERDALE, WASH.	053	039	SW	197.00		1961	1966	2	A		2	USGS	D
17070101	ROCK CREEK NEAR ROOSEVELT, WA.	053	039	SW	213.00	004	1961	1966	2	R		2	USGS	D
17070101	HIGHLANDS DRAIN NR KENNEWICK WA	053	005	DR			1968	1973	M	M			USBR	
17070102	MILL CR BLW BLUE CR NR WALLA WALLA, WA.	053	071	SW	91.00		1961	1967	2	A		2	USGS	D
17070102	YELLOWHAWK CR NR COLLEGE PLACE, WASH	053	071	SW			1964	1968	E			E	USGS	D
17070102	TOUCHET RIVER AT BOLLES, WA.	053	071	SW	361.00	004	1962	1975	Q				USGS	P
17070102	TOUCHET RIVER AT TOUCHET	053	071	SW			1964		E			E	USGS	D
17070102	WALLA WALLA RIVER NEAR TOUCHET, WASH	053	071	SW	1657.00	123	1958	1971	2	E		2	USGS	D
17070102	WALLA WALLA R BL WARM SPR CR NR TOUCHET	053	071	SW		123	1959		M				USGS	D
17070102	N F TOUCHET R AT PVT ROAD BRIDGE	053	013	SW			1972		M				USBR	C
17070102	TOUCHET R AT U S HIWAY 12 BRIDGE	053	071	SW			1972		M				USBR	C
17070102	SF TOUCHET R 2 MI S DAYTON	053	013	SW			1975		M				USBR	C
17070102	TOUCHET R 1 MI BELOW DAYTON	053	013	SW			1975		M				USBR	C
17070102	TOUCHET R RD XING 2MI E PRESCOTT	053	071	SW			1973		M				USBR	C
17070103	UMATILLA RIVER AB MEACHAM CR NR GIBBON,OREG.	041	059	SW	131.00	004	1958		N	E		N	USGS	D
17070103	UMATILLA R NR UMATILLA OREG	041	059	SW	2290.00	124	1960		2	R		2	USGS	D
17070103	CORPORATION	041	059	SW			1966		O	O			USFS	P
17070104	WILLOW CREEK AT HEPPNER, OREG.	041	049	SW	87.00	024	1963	1973	A	E		A	USGS	D
17070104	WILLOW CREEK NR ARLINGTON, OREG.	041	049	SW	850.00	124	1961	1970	2	S		2	USGS	D
17070105	RATTLESNAKE C 5.5 M CNTY RD BRDG	053	039	SW			1975	1976	M				USBR	C
17070105	WF MAJOR CREEK MILE 3.5	053	039	SW			1975		M				USBR	C
17070105	TROUT LAKE C IM E OF TROUT LAKE	053	039	SW			1975	1976	M				USBR	C
17070105	WHITE SALMON R IM EAST TROUT LAKE	053	039	SW			1975	1976	M				USBR	C
17070105	WHITE SALMON RIN NORTHWESTERN LK	053	039	SW			1975	1976	M				USBR	C
17070105	CASCADE SALMON HATCHERY OREG	028	103	SW			1972	1975	M				OR005	D
17070106	KLICKITAT R BLW SODA SPR CR NR GLENWOOD	053	077	SW			1973	1974	R				USGS	D
17070106	BIG MUDDY CR NR GLENWOOD	053	077	SW	23.30	024	1973	1974	R				USGS	D
17070106	KLICKITAT R NR PITT	053	039	SW	1297.00	024	1949		E	E		E	USGS	D
17070106	WHITE SALMON R USGS GAGE AT HUSUM	053	039	SW			1975	1976	M				USBR	C
17070106	KLICKITAT R BLW SODA SPR CR NR G	053	077	SW			1973	1974	R				USEPA	D
17070106	BIG MUDDY CREEK NEAR GLENWOOD	053	077	SW			1973	1974	R				USEPA	D
17070201	JOHN DAY RIVER AT PRAIRIE CITY, OREG.	041	023	SW	231.00	004	1962	1967	H			H	USGS	D
17070201	JOHN DAY R AT PICTURE GORGE, NR DAYVILLE,ORE	041	023	SW	1680.00	004	1965	1967	K	E		K	USGS	D
17070201	SO FK JOHN DAY RIVER NR DAYVILLE,OREG.	041	023	SW	590.00		1965	1967	H	A		H	USGS	D
17070202	CAMAS CREEK NEAR UKIAH, OREG.	041	059	SW	121.00	004	1965	1967	K			K	USGS	D

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17070202	N FK JOHN DAY R AT MONUMENT, OREG.	041	023	SW	2520.00	124	1962	1967	H	A		H	USGS	D
17070203	M FK JOHN DAY R AT RITTER, OREG.	041	023	SW	515.00	004	1962	1967	K	E		K	USGS	D
17070204	JOHN DAY R AT MCDONALD FERRY,OREG.	041	055	SW	7580.00	004	1961		2			2	USGS	D
17070304	CROOKED RIVER AT POST, OREG.	041	013	SW	2160.00	004	1958	1975	2			2	USGS	D
17070304	BEAR CREEK NEAR PRINEVILLE,OREG.	041	013	SW	205.00		1974		O			D	USGS	D
17070305	CROOKED R NR PRINEVILLE, OREG.	041	013	SW	2700.00	124	1957	1975	2			2	USGS	D
17070306	CAMPBELL CREEK NR WARMSPRINGS,OREG.	041	031	SW			1973	1974	A			A	USGS	D
17070306	COYOTE CREEK NEAR SIMNASHO,OREG.	041	031	SW			1973	1974	N			N	USGS	D
17070306	BEAVER CR NR SIMNASHO,OREG.	041	065	SW			1973	1973	A			A	USGS	D
17070306	QUARTZ CREEK NEAR SIMNASHO,OREG.	041	031	SW			1974	1974	A			A	USGS	D
17070306	WARM SPRINGS RIVER NR KAHNEETA HOT SPRINGS,O	041	065	SW	526.00	024	1974	1974	A			A	USGS	D
17070306	DESCHUTES RIVER AT MOODY, NEAR BIGGS OREG	041	055	SW	10500.00	124	1951		E	E		E	USGS	D
17080001	COLUMBIA RIVER AT WARRENDALE,OREG.	041	051	SW	240400.00	014	1966		M	N		M	USGS	D
17080001	BULL RUN R NR MULTNOMAH FALLS, OREG.	041	051	SW	47.90	014	1971		H			H	USGS	D
17080001	KELLY CR ON KANE RD NR GRESHAM	041	051	SW			1975	1975	A			A	USGS	D
17080001	COLUMBIA RIVER AT VANCOUVER,WASH.	053	011	SW	241000.00	013	1962		2			2	USGS	D
17080001	VANCOUVER WESTSIDE PRIMARY PLANT	053	011	SW			1971	1972	E				USEPA	D
17080001	VANCOUVER EAST ACT SLDG PLT	053	011	SW			1971	1972	P				USEPA	D
17080003	DRY CREEK NEAR COUGAR, WASH.	053	015	SW	3.29		1968	1971	S			S	USGS	D
17080003	LONGVIEW EAST PRIMARY PLANT	053	015	SW			1971	1972	R				USEPA	D
17080004	COWLITZ RIVER NR RANDLE, WASH.	053	041	SW	1030.00	124	1968		R			R	USGS	D
17080005	COWLITZ RIVER AT TOLEDO, WASH.	053	041	SW	1461.00	004	1974		A				USGS	D
17080006	WATERWORKS CREEK NR SVENSEN OREGON SITE NO 1	041	007	SW			1969	1975	R			R	USGS	D
17080006	WATERWORKS CREEK NR SVENSEN OREGON SITE NO 3	041	007	SW			1969	1975	R			R	USGS	D
170876AF	PALOUSE RIVER NR POTLATCH ID	016	057	SW	317.00	014	1972		A			A	USGS	D
17090005	NO SANTIAM R BL BOULDER CR NR DETROIT,OREG.	041	047	SW	216.00	004	1950		N			N	USGS	D
17090005	BREITENBUSH R ABV CANYON CR NR DETROIT, OREG	041	047	SW	106.00	004	1949		N			N	USGS	D
17090005	LT NO SANTIAM R AB EVANS CR NR GATES,OREG.	041	043	SW			1972		R			R	USGS	D
17090006	SOUTH SANTIAM RIVER BELOW CASCADIA, OREG.	041	043	SW	174.00	004	1961		N			N	USGS	D
17090006	MIDDLE SANTIAM R NEAR CASCADIA,OREG.	041	043	SW	104.00	004	1962		N			N	USGS	D
17090007	RICKREALL C NR DALLAS AT GAGE	041	053	SW			1972	1974	B				USBR	C
17090008	YAMHILL R AT DAYTON BOAT RP	041	071	SW			1972	1974	B				USBR	C
17090008	WILLAMINA C NR WILLIAMINA	041	071	SW			1972	1974	B				USBR	C
17090008	MILL CR NR WILLIAMINA AT GAGE	041	053	SW			1972	1974	B				USBR	C
17090010	TUALATIN R AT CHY GR CNT RD BRDG	041	067	SW			1972		B				USBR	C
17090010	GALES CR BALM GR CNT RD BRDG	041	067	SW			1972	1975	B				USBR	C
17090010	W F DAIRY CR N BKS HWY 26 BRDG	041	067	SW			1972	1974	B				USBR	C
17090010	E F DAIRY CR MTNDALE CNT RD BRDG	041	067	SW			1972	1975	B				USBR	C
17090010	TUALATIN R CORNELIUS CNT RD BRDG	041	067	SW			1972	1974	B				USBR	C
17090010	DAIRY CR HILLSBORO HWY 8 BRDG	041	067	SW			1972		B				USBR	C

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17090010	ROCK CR HILLSBORO CNT RD BRDG	041	067	SW			1972		B				USBR	C
17090010	TUALATIN R FARMINGTN HARRIS BRDG	041	067	SW			1972		B				USBR	C
17090010	TUALATIN R TUALATIN HWY 99W BRDG	041	067	SW			1972		B				USBR	C
17090010	FANNO CR DURHAM CNT RD BRDG	041	067	SW			1972		B				USBR	C
17090010	TUALATIN R W LINN HWY 212 BRDG	041	005	SW			1972		B				USBR	C
17090011	BIG BOTTOM	041	005	SW			1967	1971	O	O			USFS	P
17090012	WILLAMETTE RIVER AT PORTLAND,OREG.	041	051	SW	11100.00	123	1974		E	E		E	USGS	D
17100102	N.F. QUINAULT RIVER NEAR AMANDA PARK, WASH.	053	031	SW	74.10	004	1959		R			R	USGS	D
17100103	SOUTH FORK CHEHALIS R AT BOISTFORT, WASH.	053	041	SW	48.00	024	1965	1965	A				USGS	P
17100103	NEWAUKUM RIVER NR CHEHALIS, WASH.	053	041	SW	155.00	014	1960	1975	X				USGS	P
17100103	SKOOKUMCHUCK RIVER NR BUCODA,WASH.	053	067	SW	112.00	014	1967	1975	2			2	USGS	D
17100103	HANAFORD CR NR BUCODA, WASH	053	041	SW			1975	1975	W				USGS	D
17100103	CHEHALIS SECONDARY PLANT	053	041	SW			1971	1972	E				USEPA	D
17100104	CHEHALIS RIVER AT PORTER, WASH.	053	027	SW	1294.00		1958	1975	2			2	USGS	D
17100104	CLOQUALLUM RIVER AT ELMA, WASH.	053	027	SW	64.90	014	1961		E			E	USGS	D
17100104	SATSOP RIVER NR SATSOP, WASH.	053	027	SW	299.00	004	1960		E			E	USGS	D
17100104	WYNOOCHEE RIVER NEAR GRISDALE, WASH.	053	027	SW	41.30	014	1966	1975	2			2	USGS	D
17100202	NEHALEM RIVER NEAR FOSS, OREG.	041	057	SW	667.00	004	1973		E	E		E	USGS	D
17100203	WILSON RIVER NEAR TILLAMOOK, OREG.	041	057	SW	161.00	004	1960	1973	A			A	USGS	D
17100204	SALMON RIVER NEAR OTIS,OREG.	041	041	SW			1972	1974	E			E	USGS	D
17100204	DRIFT CREEK NEAR CUTLER CITY,OREG.	041	041	SW			1972	1974	E			E	USGS	D
17100204	SILETZ RIVER AT SILETZ, OREG.	041	041	SW	202.00	004	1972	1974	A			A	USGS	D
17100204	EUCHRE CREEK NEAR SILETZ,OREG.	041	041	SW	13.40	004	1972	1974	E			E	USGS	D
17100204	MOLOCK CREEK NEAR BEVERLY BEACH,OREG.	041	041	SW			1972	1974	E			E	USGS	D
17100204	YAQUINA RIVER NEAR CHITWOOD,OREG.	041	041	SW	71.00		1971	1975	2	B		2	USGS	D
17100204	ELK CREEK NEAR ELK CITY,OREG.	041	041	SW			1972	1974	E			E	USGS	D
17100205	THEIL CREEK NEAR SOUTH BEACH,OREG.	041	041	SW			1972	1974	E			E	USGS	D
17100205	BEAVER CREEK NEAR ONA,OREG.	041	041	SW			1972	1974	E			E	USGS	D
17100205	ALSEA RIVER NEAR TIDEWATER, OREG.	041	041	SW	334.00		1971	1975	2	A		2	USGS	D
17100205	NEEDLE BRANCH NEAR SALADO,OREG.	041	041	SW	.27		1957	1967	2	K		2	USGS	D
17100205	FLYNN CREEK NEAR SALADO,OREG.	041	041	SW	.78	004	1957	1967	2	A		2	USGS	D
17100205	DEER CREEK NEAR SALADO,OREG.	041	041	SW	1.17	004	1957	1967	2	A		2	USGS	D
17100205	DRIFT CREEK NEAR WALDPORT,OREG.	041	041	SW			1972	1974	E			E	USGS	D
17100205	YACHATS RIVER NEAR YACHATS,OREG.	041	041	SW			1972	1974	E			E	USGS	D
17100205	DEER C VI	041	041	SW			1964	1967	W				OR001	C
17100205	DEER C I	041	041	SW			1962	1967	W				OR001	C
17100206	DEPOT CREEK NEAR TOLEDO,OREG.	041	041	SW			1972	1974	E			E	USGS	D
17100206	SIUSLAW R NR MAPLETON, OREG.	041	039	SW	588.00	004	1966	1975	2			2	USGS	D
17100301	STEAMBOAT CREEK NEAR GLIDE,OREG.	041	019	SW	227.00	004	1968	1973	A			A	USGS	D
17100301	NORTH UMPQUA R. AT WINCHESTER, OREG.	041	019	SW	1344.00	124	1967		K			K	USGS	D

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17100302	SOUTH UMPQUA RIVER AT TILLER, OREG.	041	019	SW	449.00	004	1967	1971	E			E	USGS	D
17100302	COW CREEK NEAR AZALEA, OREG.	041	019	SW	78.00	004	1967	1969	A			A	USGS	D
17100302	COW CREEK NEAR RIDDLE, OREG.	041	019	SW	456.00	004	1967		A			A	USGS	D
17100302	OLALLA CREEK NEAR TENMILE, OREG.	041	019	SW	61.30	004	1969	1973	A			A	USGS	D
17100302	LOOKINGGLASS CREEK AT BROCKWAY,OREG.	041	019	SW	158.00	004	1968	1973	N			N	USGS	D
17100302	SOUTH UMPQUA RIVER NEAR BROCKWAY, OREG.	041	019	SW	1670.00	004	1967		K			K	USGS	D
17100303	CALAPOOYA CREEK NEAR OAKLAND,OREG.	041	019	SW	210.00	024	1969	1973	K			K	USGS	D
17100303	UMPQUA RIVER NEAR ELKTON, OREG.	041	019	SW	3683.00	124	1965		K	S		K	USGS	D
17100303	ELK CREEK NEAR DRAIN, OREG.	041	019	SW	104.00	024	1967	1973	N			N	USGS	D
17100306	SIXES RIVER AT SIXES, OREG.	041	015	SW	116.00	004	1966	1975	2			2	USGS	D
17100306	ELK RIVER NEAR SIXES,OREG.	041	015	SW	86.10	004	1967	1970	Q			Q	USGS	D
17100308	LOWER EAST FORK ASHLAND CREEK	041	029	SW			1971	1975	E				USFS	D
17100308	LOWER WEST FORK ASHLAND CREEK	041	029	SW			1971	1975	E				USFS	D
17100308	ASHLAND CREEK FILTER PLANT	041	029	SW			1973	1975	E				USFS	D
17100310	ROGUE RIVER NEAR AGNESS,OREG.	041	015	SW	3939.00	124	1959		M				USGS	D
17110002	SKAGIT RIVER NEAR MOUNT VERNON, WASH.	053	057	SW	3093.00	014	1959		E	E		E	USGS	D
17110004	GALLOP CR NR GLACIER, WASH	053	073	SW			1976	1976	N			N	USGS	D
17110004	GALLOP CR ABV MOUTH NR GLACIER WASH	053	073	SW			1976	1976	A			A	USGS	D
17110004	GALLOP CR NR MOUTH AT GLACIER, WASH	053	073	SW			1975	1976	M			H	USGS	D
17110004	CORNELL CREEK AT GLACIER WASH	053	073	SW			1976	1976	A			A	USGS	D
17110004	VAN ZANDT PORTAL NR VAN ZANDT, WASH	053	073	SW			1976	1976	A				USGS	D
17110004	STREAM ABV VAN ZANDT MINE NR VAN ZANDT, WASH	053	073	SW			1976	1976	A				USGS	D
17110007	COKEDALE MINE NR SEDRO WOOLLEY, WASH	053	057	SW			1976	1976	A				USGS	D
17110009	SKYKOMISH RIVER AT MONROE, WA.	053	061	SW	834.00	004	1965	1975	2			2	USGS	D
17110010	SNOQUALMIE RIVER NEAR CARNATION, WASH.	053	033	SW	603.00	123	1965	1975	2			2	USGS	D
17110011	SNOHOMISH RIVER NEAR MONROE, WASH.	053	061	SW	1537.00	123	1974		A	A		A	USGS	D
17110011	SNOHOMISH R AT US HWY 2 AT EVERETT, WASH.	053	061	SW			1974	1976	A	A		A	USGS	D
17110011	SNOHOMISH R AT SNOHOMISH	053	061	SW			1976		E	E		E	USGS	D
17110012	CEDAR RIVER	053	033	SW			1969		M				WA006	
17110012	SAMMAMISH RIVER	053	033	SW			1969		M				WA006	
17110012	THORNTON CREEK	053	033	SW			1970		M				WA006	
17110012	LANDER ST REGULATOR	053	033	DR			1972	1973	M				WA011	D
17110013	GREEN RIVER NEAR AUBURN, WASH.	053	033	SW	399.00	124	1951		6			6	USGS	D
17110013	GREEN RIVER AT TUKWILA, WASH.	053	033	SW	440.00	123	1962	1970	2	E		2	USGS	D
17110013	UPPER GREEN RIVER II	053	033	SW			1966		0	0			USFS	P
17110014	PUYALLUP RIVER NEAR ORTING, WASH.	053	053	SW	172.00	124	1953	1975	6			6	USGS	D
17110014	WHITE R BL CLEARWATER R NR BUCKLEY WASH	053	033	SW	375.00	004	1974		0	G		0	USGS	D
17110014	WHITE RIVER NEAR BUCKLEY, WASH.	053	033	SW	401.00	014	1953	1975	2			2	USGS	D
17110014	PUYALLUP R. AT PUYALLUP, WASH	053	053	SW	948.00	124	1953		6			6	USGS	D
17110014	SKOOKUM SLOPE PORTAL # 1	053	053	SS			1976		A				USGS	D

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17110018	BIG BEEF C FISH RESEARCH STATION	053	035	SW			1966		E				WA004	
17110019	CONNECTICUT ST REGULATOR	053	033	DR			1972	1973	M				WA011	D
17110020	ELWHA RIVER AT MCDONALD BR., NR PORT ANGELES	053	009	SW	269.00		1974		E	E		E	USGS	D
171176AH	WALLA WALLA R AT MILTON-FREEWATER,OREG.	053	059	SW	155.00	004	1962	1968	K	E		K	USGS	D
17120003	DONNER UND BLITZEN RIVER NR FRENCHGLEN,OREG.	041	025	SW	200.00		1974		E	E		E	USGS	D

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	CALIFORNIA REGION 18													
18 71 A	HOPPER C NR PIRU CA	006	111	SW			1977		B	B	B		USGS	D
18 71 B	SAN ANTONIO C AT CASITAS SPRINGS	006	111	SW			1977		B	B	B		USGS	D
18 71 L	FY76 CHANGE OPERATION QWDC51450 TO	006	087	SW			1952	1975	A	A	K	A	USGS	D
18010101	SF SMITH R NR CRESCENT CITY CA	006	015	SW	291.00	004	1977		C	M	Q	C	USGS	D
18010101	SMITH RIVER NEAR CRESCENT CITY, CALIF.	006	015	SW	609.00	004	1951		C	M	Q	C	USGS	D
18010101	WB MILL C NR CRESCENT CITY, CALIF.	006	015	SW	6.46		1970	1975	A	A			USGS	D
18010101	WB MILL C BL R A CMPGRND NR CRESCENT CITY CA	006	015	SW	6.90	004	1974	1975	K	A	A	K	USGS	D
18010101	WB MILL C AT BR NR CRESCENT CITY CALIF	006	015	SW	10.80	004	1974	1975	A	A	A	A	USGS	D
18010101	EF MILL C NR CRESCENT CITY CALIF	006	015	SW	16.10	004	1974	1975	A			A	USGS	D
18010101	EF MILL C AT BR NR CRESCENT CITY CALIF	006	015	SW	16.70	004	1974	1975	A	A	A	A	USGS	D
18010101	MILL C NR CRESCENT CITY CALIF	006	015	SW	28.60	004	1973		H	R	R	Q	USGS	D
18010101	MILL C AT BR NR CRESCENT CITY CALIF	006	015	SW	35.10	004	1974	1975	A	A	A	A	USGS	D
18010101	MILL C AT MO NR CRESCENT CITY CALIF	006	015	SW	37.00	004	1974	1975	E			E	USGS	D
18010101	GRIFFIN CREEK 1	006	015	SW		004	1974	1974	F				CAO11	P
18010101	GRIFFIN CREEK 2	006	015	SW		004	1974	1975	F				CAO11	P
18010101	M F SMITH R AT KNOPTI CR	006	015	SW		004	1974	1975	F				CAO11	P
18010101	MIDDLE FORK SMITH RIVER 1	006	015	SW		004	1974	1975	F				CAO11	P
18010101	M F SMITH RIVER 2	006	015	SW		004	1974	1974	F				CAO11	P
18010101	M F SMITH RIVER 3	006	015	SW		004	1974	1975	F				CAO11	P
18010101	UNNAMED CR 1 EMPTYING INTO GRIFFIN C	006	015	SW		004	1974	1975	F				CAO11	P
18010101	UNNAMED CR 2 EMPTYING INTO GRIFFIN C	006	015	SW		004	1974	1975	F				CAO11	P
18010102	VAN DUZEN RIVER NR BRIDGEVILLE CALIF	006	023	SW	222.00	024	1955		E	E		E	USGS	D
18010102	MAD R NR FOREST GLEN CALIF	006	105	SW	143.00	014	1957		Q	A		Q	USGS	D
18010102	MAD RIVER NEAR KNEELAND CALIF	006	023	SW	352.00	014	1964		A	A	N	A	USGS	D
18010102	MAD R NR BLUE LAKE CALIF	006	023	SW	393.00	014	1971		A	A	A	A	USGS	D
18010102	NF MAD R NR KORBEL CALIF	006	023	SW	40.40	004	1972	1974	Q	A	A	Q	USGS	D
18010102	MAD RIVER NR ARCATA CALIF	006	023	SW	485.00	014	1957		2	E	E	2	USGS	D
18010102	REDWOOD C NR BLUE LAKE CALIF	006	023	SW	67.60	004	1971		O	A	A	O	USGS	D
18010102	REDWOOD C AT R V BR NR BLUE LK CALIF	006	023	SW	95.90	004	1973	1975	K	A	A	R	USGS	D
18010102	LACKS C NR ORICK CALIF	006	023	SW	17.00	004	1974		O	A		O	USGS	D
18010102	REDWOOD C AB PANTHR C NR ORICK CALIF	006	023	SW	150.00	004	1973	1975	R	R	A	R	USGS	D
18010102	HIGH-SLOPE SCHIST C NR ORICK CALIF	006	023	SW	.53	004	1973	1975	K	A		K	USGS	D
18010102	COPPER C NR ORICK CALIF	006	023	SW	2.78	004	1973	1975	N	A	E	N	USGS	D
18010102	SLIDE C NR ORICK CALIF	006	023	SW	1.16	004	1973	1975	K	K	E	N	USGS	D
18010102	REDWOOD C AT SPB NR ORICK CALIF	006	023	SW	185.00	004	1970		E	E	E	E	USGS	D
18010102	BRIDGE C NR ORICK CALIF	006	023	SW	11.60	004	1973		E	E	E	E	USGS	D
18010102	REDWOOD C AB HRY WR C NR ORICK CALIF	006	023	SW	202.00	004	1973		2	A	A	A	USGS	D
18010102	HARRY WIER CK NR ORICK CA	006	023	SW	2.96	004	1970		E	E	E	E	USGS	D
18010102	TOM MC DONALD C NR ORICK CALIF	006	023	SW	6.86	004	1973		E	E	E	E	USGS	D
18010102	FORTYFOUR C NR ORICK CALIF	006	023	SW	3.09	004	1973	1975	R	R	A	A	USGS	D

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18010102	MILLER C NR ORICK CALIF	006	023	SW	.67	004	1972		E	E	E	E	USGS	D
18010102	MILLER C AT MOUTH NR ORICK CALIF	006	023	SW	1.36	004	1973		E	E	E	E	USGS	D
18010102	REDWOOD CREEK NEAR ORICK CALIF	006	023	SW	218.00	004	1976			A			USGS	D
18010102	BOND C NR ORICK, CA	006	023	SW	1.37	004	1973	1975	R	N		A	USGS	D
18010102	CLOQUFT C NR ORICK, CA	006	023	SW	1.14	004	1973	1975	K	R		A	USGS	D
18010102	OSCAR LARSON C NR ORICK CALIF	006	023	SW	.69	004	1974	1975	K	R		K	USGS	D
18010102	GANS SOUTH C NR ORICK CALIF	006	023	SW	.52	004	1975	1975	K	R		K	USGS	D
18010102	ELAM C NR ORICK, CA	006	023	SW	2.49	004	1973	1975	K	R		S	USGS	D
18010102	GANS WEST C NR ORICK CALIF	006	023	SW	.27	004	1975	1975	K	R		K	USGS	D
18010102	MC ARTHUR C NR ORICK CALIF	006	023	SW	3.73	004	1973	1975	K	R		N	USGS	D
18010102	LOW-SLOPE SCHIST C NR ORICK CALIF	006	023	SW	.19	004	1973		N	A		N	USGS	D
18010102	HAYES C NR ORICK CALIF	006	023	SW	.58	004	1973		E	E	E	E	USGS	D
18010102	LOST MAN C NR ORICK CALIF	006	023	SW	3.97	004	1973		E	E	E	E	USGS	D
18010102	LOST MAN C TR NR ORICK CALIF	006	023	SW	.44	004	1974		E	E		E	USGS	D
18010102	LARRY DAMM C NR ORICK CALIF	006	023	SW	1.87	004	1973	1975	Q	N	E	Q	USGS	D
18010102	LITTLE LOST MAN C AT SITE NO 2 NR ORICK CALI	006	023	SW	3.46	004	1974		E	E	E	E	USGS	D
18010102	LITTLE LOST MAN C NR ORICK CALIF	006	023	SW	3.64	004	1973	1975	A	A	E	E	USGS	D
18010102	GENEVA C NR ORICK CALIF	006	023	SW	.08	004	1973	1975	K	R	E	K	USGS	D
18010102	BERRY GLENN C NR ORICK CA	006	023	SW	.40	004	1974	1975	R	R	E		USGS	D
18010102	REDWOOD CREEK AT ORICK CALIF	006	023	SW	278.00	004	1955		O	E	E	O	USGS	D
18010102	WIER CR ARCATA REDWOOD	006	023	SW		004	1977					Z	CA112	P
18010102	WIER CR ARCATA REDWOOD	006	023	SW		004	1977					Z	CA112	P
18010102	REDWOOD C TR AB M75 RD CULVERT 21 NR ORICK C	006	023	SW			1974	1975	A	E			USGS	D
18010102	REDWOOD C TR AT M75 RD CULVERT 21 NR ORICK C	006	023	SW			1974	1975	A	A		E	USGS	D
18010102	REDWOOD C TR BL M75 RD CULVERT 21 NR ORICK C	006	023	SW			1974	1975	A	A			USGS	D
18010102	REDWOOD C TR AT M75 RD CULVERT 20 NR ORICK C	006	023	SW			1974	1975	A	A		E	USGS	D
18010102	REDWOOD C TR BL M75 RD CULVERT 20 NR ORICK C	006	023	SW			1974	1975	A	A			USGS	D
18010103	EEL R BL SCOTT DAM NR POTTER VALLEY CALIF	006	033	SW	290.00		1962		E	E		E	USGS	D
18010103	EEL R NR DOS RIOS CALIF	006	045	SW	528.00	124	1958		E	E	E	E	USGS	D
18010103	OUTLET CREEK NR LONGVALE, CA.	006	045	SW	161.00	004	1960	1970	2	A		2	USGS	D
18010103	EEL R ABOVE DOS RIOS CALIF	006	045	SW	705.00	124	1956		3	E	E	2	USGS	D
18010104	MF EEL R AB BLACK BUTTE R NR COVELO CALIF	006	045	SW	204.00	004	1965		2	A		2	USGS	D
18010104	BLACK BUTTE R NR COVELO CALIF	006	045	SW	162.00	004	1963		2	K		2	USGS	D
18010104	MF EEL R BL BLACK BUTTE R NR COVELO CALIF	006	045	SW	367.00	004	1960		2	N		2	USGS	D
18010104	WILLIAMS C NR COVELO CALIF	006	045	SW	30.40	004	1961	1969	H	A		H	USGS	D
18010104	SHORT C NR COVELO CALIF	006	045	SW	15.20	004	1961	1964	M	A			USGS	P
18010104	MILL CREEK NEAR COVELO, CALIF.	006	045	SW	95.60	004	1964	1970	N	A		N	USGS	D
18010104	ELK CREEK NEAR HEARST CALIF	006	045	SW	84.10	004	1963	1973	K	A		K	USGS	D
18010104	MIDDLE FORK EEL R NR DOS RIOS CALIF	006	045	SW	745.00	004	1956		O	N	R	O	USGS	D
18010105	EEL R BL DOS RIOS CALIF	006	045	SW	1484.00	124	1956	1966	R	A		R	USGS	D

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18010105	HULLS C NR COVELO CALIF	006	045	SW	25.90	004	1961	1964	M				USGS	P
18010105	NORTH FORK EEL RIVER NR MINA, CALIF.	006	045	SW	248.00	004	1965		2	A	K	2	USGS	D
18010105	CHAMISE CREEK NEAR ISLAND MOUNTAIN, CALIF.	006	023	SW	22.60	004	1971	1975	2	R	A	2	USGS	D
18010105	EEL R AT FORT SEWARD CALIF	006	023	SW	2107.00	124	1959		0	N	R	0	USGS	D
18010105	DOBBYN CREEK NEAR FORT SEWARD, CALIF.	006	023	SW	61.40	004	1971		0	R	A	0	USGS	D
18010105	EEL RIVER AT SCOTIA CALIF	006	023	SW	3113.00	124	1951		0	N	E	0	USGS	D
18010106	SOUTH FORK EEL RIVER NR BRANSCOMB CALIF	006	045	SW	43.90	004	1957		2	A		2	USGS	D
18010106	ELDER CREEK NEAR BRANSCOMB CALIF	006	045	SW	6.50	004	1966		2	E	E	2	USGS	D
18010106	SF EEL RIVER NR MIRANDA CALIF	006	023	SW	537.00	014	1951		M				USGS	D
18010106	BULL CREEK NEAR WEOTT, CALIF.	006	023	SW	28.10	004	1974		0	X	A	0	USGS	D
18010106	STANDLEY CR STATION 1	006	045	SW		004	1976				A		CA112	P
18010106	STANDLEY CR STATION 2	006	045	SW		004	1976				A		CA112	P
18010106	STANDLEY CR STATION 3	006	045	SW		004	1976				A		CA112	P
18010106	STANDLEY CR STATION 4	006	045	SW		004	1976				A		CA112	P
18010106	STANDLEY CR STATION 5	006	045	SW		004	1976				A		CA112	P
18010106	STANDLEY CR STATION 6	006	045	SW		004	1976				A		CA112	P
18010106	STANDLEY CR STATION 7	006	045	SW		004	1976				A		CA112	P
18010106	GEORGIA PACIFIC STANDLEY CR 6	006	045	SW		004	1977					Z	CA112	P
18010106	GEORGIA PACIFIC STANDLEY CR 1	006	045	SW		004	1977					Z	CA112	P
18010106	GEORGIA PACIFIC STANDLEY CR 2	006	045	SW		004	1977					Z	CA112	P
18010106	GEORGIA PACIFIC STANDLEY CR 3	006	045	SW		004	1977					Z	CA112	P
18010106	GEORGIA PACIFIC STANDLEY CR 4	006	045	SW		004	1977					Z	CA112	P
18010106	GEORGIA PACIFIC STANDLEY CR 5	006	045	SW		004	1977					Z	CA112	P
18010106	GEORGIA PACIFIC STANDLEY CR 7	006	045	SW		004	1977					Z	CA112	P
18010107	HONEYDEW C AT HONEYDEW CALIF	006	023	SW	14.90	004	1973		R			R	USGS	D
18010109	SALMON CREEK AT BODEGA CALIF	006	097	SW	15.70	004	1962	1972	N	A		N	USGS	D
18010110	RUSSIAN RIVER NEAR UKIAH, CALIF.	006	045	SW	99.70	004	1963		2	A		2	USGS	D
18010110	EAST FORK RUSSIAN RIVER NEAR CALPELLA CALIF	006	045	SW	92.20	014	1952		2	E		2	USGS	D
18010110	EAST FORK RUSSIAN RIVER NEAR UKIAH CALIF	006	045	SW	105.00	014	1952		2	E		2	USGS	D
18010110	RUSSIAN RIVER NEAR CLOVERDALE, CALIF.	006	045	SW	503.00	004	1962		2	A		2	USGS	D
18010110	BIG SULPHUR C NR MIDDLETOWN CA	006	097	SW		004	1977			R			USGS	D
18010110	BIG SULPHUR CREEK NR CLOVERDALE CALIF	006	097	SW	82.30	004	1965	1968	2	A		2	USGS	D
18010110	MAACAMA CREEK NEAR KELLOGG, CALIF.	006	097	SW	43.40	004	1965	1967	Q	E		Q	USGS	D
18010110	DRY CREEK NR GEYSERVILLE CALIF	006	097	SW	162.00	004	1963		0	E		0	USGS	D
18010110	RUSSIAN RIVER NR GUERNEVILLE CALIF	006	097	SW	1338.00	004	1951		0	E		0	USGS	D
18010110	POTTER VALLEY POWERHOUSE TR NR POTTER VALLEY	006	045	SW			1960		2	A		2	USGS	D
18010110	REDWOOD LOG CR STATION 1A	006	097	SW		004	1976				A		CA112	P
18010110	REDWOOD LOG CR STATION 1B	006	097	SW		004	1976				A		CA112	P
18010110	REDWOOD LOG CR STATION 2	006	097	SW		004	1976				A		CA112	P
18010110	REDWOOD LOG CR STATION 3	006	097	SW		004	1976				A		CA112	P

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18010110	REDWOOD LOG CR STATION 4	006	097	SW		004	1976				A		CA112	P
18010110	REDWOOD LOG CR STATION 5	006	097	SW		004	1976				A		CA112	P
18010110	FELIZ CREEK	006	045	SW		004	1974	1975	M				CA011	P
18010110	ASH CREEK	006	045	SW		004	1974	1975	F				CA011	P
18010110	DOOLEY CREEK	006	045	SW		004	1974	1975	M				CA011	P
18010110	PIETA CREEK	006	045	SW		004	1974	1975	F				CA011	P
18010207	SHASTA RIVER NR YREKA CALIF	006	093	SW	793.00	014	1957		E	E			USGS	D
18010209	KLAMATH RIVER NR SEIAD VALLEY CALIF	006	093	SW	6940.00	014	1958		E	E			USGS	D
18010209	KLAMATH RIVER AT ORLEANS CALIF	006	023	SW	8475.00	124	1950		O	A		O	USGS	D
18010209	KLAMATH RIVER NEAR KLAMATH CALIF	006	015	SW	12100.00	124	1951		E	E		E	USGS	D
18010209	HIGH PRAIRIE CR STATION 6	006	015	SW		004	1976				A		CA112	P
18010209	HIGH PRAIRIE CR STATION 1	006	015	SW		004	1976				A		CA112	P
18010209	HIGH PRAIRE CR STATION 2	006	015	SW		004	1976				A		CA112	P
18010209	HIGH PRAIRE CR STATION 3	006	015	SW		004	1976				A		CA112	P
18010209	HIGH PRAIRIE CR STATION 4	006	015	SW		004	1976				A		CA112	P
18010209	HIGH PRAIRIE CR STATION 5	006	015	SW		004	1976				A		CA112	P
18010209	HUNTER CREEK 1	006	015	SW		004	1974	1976	F				CA011	P
18010209	HUNTER CREEK 2	006	015	SW		004	1974	1976	F				CA011	P
18010209	HIGH PRAIRIE CREEK	006	015	SW		004	1974	1976	F				CA011	P
18010209	MYNOT CREEK	006	015	SW		004	1974	1976	F				CA011	P
18010210	SALMON RIVER AT SOMES BAR CALIF	006	093	SW	751.00	004	1955		M	M			USGS	D
18010211	CLEAR CREEK AT FRENCH GULCH, CALIF.	006	089	SW	115.00	014	1957	1967	Q	A		Q	USGS	D
18010211	TRINITY RIVER AT LEWISTON CALIF	006	105	SW	728.00	014	1956		E	E			USGS	D
18010211	GRASS VALLEY CREEK AT FAWN LODGE NR LEWISTON	006	105	SW	30.80	004	1974		O	E		O	USGS	D
18010211	WEAVER C NR DOUGLAS CITY CALIF	006	105	SW	48.40		1962	1969	N	A		N	USGS	D
18010211	NORTH FORK TRINITY RIVER AT HELENA CALIF	006	105	SW	151.00	004	1961	1970	3	A		2	USGS	D
18010211	TRINITY RIVER NEAR BURNT RANCH CALIF	006	105	SW	1439.00	124	1960		K			K	USGS	D
18010211	TRINITY R AT HOOPA CALIF	006	023	SW	2854.00	124	1950		O	N		O	USGS	D
18010211	WEAVER C NR DOUGLAS CTY CA	006	105	SW	48.40	004	1962	1969	E	E			CA001	
18010212	S F TRINITY RIVER BL HYAMPOM, CALIF.	006	105	SW	764.00	004	1964		2	K		2	USGS	D
18010212	SF TRINITY R NR SALYER CALIF	006	105	SW	898.00	004	1957		2	R		2	USGS	D
18010212	ICE CREAM C AB BIG C NR HAYFORK	006	105	SW			1969		E				USFS	
18010212	SOUTH FORK TRINITY RIVER	006	105	SW		004	1975	1977	F				CA011	P
18020002	PIT RIVER NEAR CANBY CALIF	006	049	SW	1431.00	004	1951		E	E		E	USGS	D
18020005	SACRAMENTO RIVER NR MT SHASTA CALIF	006	093	SW	135.00	004	1964		E			E	USGS	D
18020006	BATTLE C NR COTTONWOOD CALIF	006	103	SW	356.00	014	1956	1961	E	A			USGS	
18020006	BATTLE CR BL COLEMAN FISH HATCHERY NR COTTON	006	089	SW	357.00	004	1961		K	A		K	USGS	D
18020007	MF COTTONWOOD C NR ONO CA	006	089	SW	244.00	003	1962		2	A		2	USGS	D
18020007	SOUTH FORK COTTONWOOD CREEK NR COTTONWOOD CA	006	103	SW	217.00		1960		R	A		R	USGS	D
18020007	SOUTH FORK COTTONWOOD CREEK NR OLINDA CA	006	103	SW	371.00	004	1975		O	O			USGS	D

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18020007	COTTONWOOD CREEK NR COTTONWOOD CALIF	006	103	SW	922.00	004	1951		2	E		2	USGS	D
18020007	SF COTTONWOOD C NR COTTONWOOD CA	006	103	SW	217.00	024	1958	1966	E	E			CA001	D
18020008	SACRAMENTO R AT BEND BRIDGE, NR RED BLUFF, C	006	103	SW	8900.00	014	1955	1975	2			2	USGS	D
18020008	SACRAMENTO RIVER NR RED BLUFF, CALIF.	006	103	SW	9020.00	124	1959	1965	2	Q		2	USGS	D
18020008	SACRAMENTO RIVER AT RED BLUFF, CALIF.	006	103	SW	9080.00	124	1956	1966	2	A		2	USGS	D
18020008	RED BANK C AT RAWSON RD BR NR RED BLUFF CALI	006	103	SW	109.00		1963	1969	N	A		N	USGS	D
18020008	ELDER CREEK NEAR PASKENTA CALIF	006	103	SW	92.90	004	1958	1970	3	A		2	USGS	D
18020008	THOMES C AT PASKENTA CALIF	006	103	SW	194.00	004	1958		2	E		2	USGS	D
18020008	STONY CREEK BL BLACK BUTTE DAM NR ORLAND CAL	006	103	SW	737.00	014	1957		E			E	USGS	D
18020008	RED BANK C AT RAWSON ROAD BRIDGE NR RED BLUF	006	103	SW	109.00	004	1964	1969	M	A			USBR	P
18020009	STONY C BL BLACK BUTTE DAM	006	103	SW			1965		M				USCE	
18020009	GRINDSTONE CREEK NR ELK CREEK CALIF	006	021	SW	156.00		1967	1972	Q	A		Q	USGS	D
18020009	GRINDSTONE C NR ELK CREEK CA	006	021	SW	156.00	004	1967	1972	M	M			CA001	D
18020010	COLUSA WEIR SPILL TO BUTTE BASIN NR COLUSA C	006	011	SW			1971	1975	2	A		2	USGS	D
18020010	SACRAMENTO R AT COLUSA CALIF	006	011	SW	12096.00	024	1958	1975	2	A		2	USGS	D
18020010	STONE CORRAL CREEK NR SITES CALIF	006	011	SW	38.20	004	1965	1968	K	A		K	USGS	D
18020010	BEAR CREEK NEAR RUMSEY CALIF	006	011	SW	100.00		1960	1967	Q	A		Q	USGS	D
18020010	STONE CORRAL C NR SITES CA	006	011	SW	38.20	004	1965	1968	E	E			USBR	D
18020010	BEAR C NR RUMSEY CA	006	011	SW	100.00	004	1960	1967	E	E			CA001	D
18020011	CHEROKEE CANAL NR NELSON CALIF	006	007	SW		004	1970	1974	2	A		2	USGS	D
18020013	INDIAN CREEK NR CRESCENT MILLS CALIF	006	063	SW	739.00	024	1956		E	E		E	USGS	D
18020014	L LAST CHANCE CREEK BL FRENCHMAN DAM NR CHIL	006	063	SW	81.10	014	1957	1962	M	A			USGS	P
18020014	BIG GRIZZLY C AT GRIZZLY VY DAM NR PORTOLA C	006	063	SW	44.00	014	1957	1966	R	A		R	USGS	D
18020014	MF FEATHER R NR PORTOLA CALIF	006	063	SW	586.00		1970	1972	Q			Q	USGS	D
18020014	MF FEATHER R AT DELLEKER CALIF	006	063	SW	597.00	014	1970	1973	E			E	USGS	D
18020014	MF FEATHER R BL LONG VALLEY C AT SLOAT CAL	006	063	SW	813.00	004	1970	1973	E			E	USGS	D
18020014	MF FEATHER R BL SLOAT CALIF	006	063	SW	819.00	024	1956	1962	M	A			USGS	P
18020014	MF FEATHER R NR MERRIMAC CALIF	006	007	SW	1062.00	014	1961		E			E	USGS	D
18020014	L LAST CHANCE C BL FRENCHMAN DAM NR CHILCOOT	006	063	SW	81.10	014	1957	1962	M	A			CA001	P
18020014	MF FEATHER R NR PORTOLA CA	006	063	SW	586.00	014	1970	1972	M				CA001	D
18020015	FEATHER R NR OROVILLE CA	006	007	SW	3624.00		1951		O	E		O	USGS	D
18020015	FEATHER RIVER NEAR GRIDLEY CALIF	006	007	SW	3676.00		1963		O	A		O	USGS	D
18020015	FEATHER RIVER AT YUBA CITY CALIF	006	115	SW	3974.00	014	1963		O	K		O	USGS	D
18020015	FEATHER R AT OROVILLE CA	006	007	SW	3624.00	014	1951		O				CA001	D
18020015	FEATHER R NR GRIDLEY CA	006	007	SW	3676.00	014	1964		O	M			CA001	D
18020015	FEATHER R AT YUBA CITY CA	006	115	SW	3974.00	014	1964		O				CA001	D
18020016	MID YUBA R AB OREGON CR NR NORTH SAN JUAN, C	006	057	SW	162.00	124	1964	1969	R	E		R	USGS	D
18020016	N YUBA R AB HAYPRESS C NR SIERR CY	006	091	SW			1971		B	B	B		USGS	D
18020016	NORTH YUBA RIVER BELOW GOODYEARS BAR, CALIF.	006	091	SW	250.00	024	1971		N			N	USGS	D
18020016	NORTH YUBA RIVER ABOVE SLATE CREEK NEAR STRA	006	115	SW	351.00	024	1967		N			N	USGS	D

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18020016	SOUTH YUBA RIVER AT JONES BAR NR GRASS VALLE	006	057	SW	308.00	014	1964		Q	A		Q	USGS	D
18020016	DEER C NR SMARTVILLE CA	006	057	SW	84.60	014	1972		O	R		O	USGS	D
18020017	BEAR R NR AUBURN CALIF	006	057	SW	140.00	124	1962	1967	Q	A		Q	USGS	D
18020018	SACRAMENTO RIVER AT SACRAMENTO CALIF	006	067	SW	23508.00	024	1951		O	R		O	USGS	D
18020018	SACRAMENTO RIVER AT FREEPORT CALIF	006	067	SW	23508.00	014	1960		M				USGS	D
18020018	CACHE CREEK AT YOLO, CALIF.	006	113	SW	1139.00	014	1957	1967	3	K		3	USGS	D
18020018	SACRAMENTO RIVER AT FREEPORT CALIF	006	067	SW			1975		Q	M		E	USGS	D
18020018	YOLO BYPASS AT LIBERTY ISLAND CA EAST	006	067	SW			1973	1975	K	A			USGS	D
18020018	YOLO BYPASS AT LIBERTY ISLAND CA COMBINED	006	067	SW			1973	1975	A	A			USGS	D
18020018	YOLO BYPASS AT LIBERTY ISLAND CA WEST	006	095	SW			1973	1975	K	A			USGS	D
18020019	HIGHLAND CREEK ABOVE HIGHLAND CREEK DAM, CAL	006	033	SW	11.90	004	1965	1966	R	A		R	USGS	D
18020019	HIGHLAND CREEK BELOW HIGHLAND CREEK DAM	006	033	SW	14.20	014	1964		O	E		O	USGS	D
18020019	NORTH FORK CACHE CREEK NEAR LOWER LAKE, CALI	006	033	SW	197.00	004	1957	1966	N	A		N	USGS	D
18020019	CACHE CREEK AT RUMSEY CA	006	113	SW	955.00	014	1959		O	N		O	USGS	D
18020019	CACHE CREEK AT RUMSEY CALIF	006	113	SW	964.00	014	1975		R	R		R	USGS	D
18020019	CACHE CREEK NEAR CAPAY, CALIF	006	113	SW	1044.00	014	1951		K	A		K	USGS	D
18020019	CACHE C AB RUMSEY CA	006	113	SW	955.00	014	1960	1970	E				CA001	D
18020020	DRY C AB APTRE C NR MDLTOWN CA	006	033	SW		004	1977			R			USGS	D
18020020	PUTAH CREEK NR GUENOC CALIF	006	033	SW	113.00	024	1959	1973	4	A		3	USGS	D
18020020	HUNTING C NR KNOXVILLE CA	006	033	SW	37.80	004	1969	1973	2	A		2	USGS	D
18020020	ADAMS C NR KNOXVILLE CA	006	055	SW	7.42	004	1970	1974	K	E		K	USGS	D
18020020	NEVADA C NR KNOXVILLE CA	006	055	SW	7.06	004	1970	1974	K	E		K	USGS	D
18020020	DRY CREEK NEAR WINTERS CALIF	006	113	SW	16.80		1971	1973	B				USBR	
18020021	MIDDLE FORK AMERICAN RIVER NEAR AUBURN CALIF	006	061	SW	614.00	014	1956		Q	S		Q	USGS	D
18020022	SF AMERICAN R NR LOTUS CALIF	006	017	SW	673.00	014	1956		E	E			USGS	D
18020023	STRONG RANCH SLOUGH AT SACRAMENTO CALIF	006	067	SW	5.02	003	1971	1975	E	E		E	USGS	D
18030001	KERN RIVER AT KERNVILLE CALIF	006	029	SW	1009.00	004	1961		E	E		E	USGS	D
18030001	CRUNIGEN CREEK BL MINERAL KING HWY NR HAMMON	006	107	SW	1.58	004	1968	1971	A			A	USGS	D
18030001	SALMON C TR B CA	006	107	SW	.46		1960		B				USFS	
18030001	SALMON C TR C CA	006	107	SW			1960		B				USFS	
18030001	SALMON C TR E CA	006	107	SW	.23		1961		B				USFS	
18030004	COYOTE C	006	085	ES			1960	1964			B		CA104	P
18030004	COYOTE C	006	085	ES			1960	1964			B		CA104	P
18030005	EF KAWEAH R BL EAGLE C NR HAMMOND	006	107	SW			1971		O				USFS	
18030005	EF KAWEAH R AB MONARCH C NR HAMMND	006	107	SW			1971		B	B	B		USFS	
18030005	EF KAWEAH BL MOSQUITO C	006	107	SW	16.00		1971		O				USFS	
18030005	MONARCH C NR HAMMOND CA	006	107	SW			1971		B	B	B		USFS	
18030005	KAWEAH R BL TERMINUS DAM CA	006	107	SW			1962		M				USCE	
18030005	EF KAWEAH R BL EAGLE C NR HAMMOND	006	107	SW			1971		O				USFS	
18030005	EF KAWEAH R BL EAGLE C NR HAMMOND CALIF	006	107	SW	9.92	004	1968	1973	E			E	USGS	D

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18030005	EF KAWEAH R AB MONARCH CREEK NR HAMMOND CALI	006	107	SW		004	1968	1971	A			A	USGS	D
18030005	MONARCH C NR HAMMOND CA	006	107	SW	1.89	004	1968	1973	E			E	USGS	D
18030005	EF KAWEAH R BL MONARCH C NR HAMMOND CALIF	006	107	SW	12.10	004	1968	1973	E			E	USGS	D
18030005	EF KAWEAH RIVER BL MOSQUITO C NR HAMMOND CAL	006	107	SW	16.00	004	1967	1973	E			E	USGS	D
18030005	EF KAWEAH R AT SEQ NATL P BNDRY NR HAMMOND C	006	107	SW	23.70	004	1967	1971	H			H	USGS	D
18030005	ATWELL CREEK AB MINERAL KING HWY NR HAMMOND	006	107	SW	.66	004	1968	1971	N			N	USGS	D
18030005	REDWOOD CREEK AB MINERAL KING HWY NR HAMMOND	006	107	SW	1.38	004	1968	1971	N			N	USGS	D
18030005	SQUIRREL CREEK BL MINERAL KING HWY NR HAMMON	006	107	SW	5.80	004	1968	1971	K			K	USGS	D
18030005	EAST FORK KAWEAH RIVER NEAR THREE RIVERS CAL	006	107	SW	85.80		1967		Q			Q	USGS	D
18030005	MOSQUITO C NR MOUTH	006	107	SW			1971		B				USFS	
18030005	FRANKLIN C NR MOUTH	006	107	SW			1971		B				USFS	
18030005	WHITE CHIEF C NR MOUTH	006	107	SW			1971		B				USFS	
18030005	SPRING C NR MOUTH	006	107	SW			1971		B				USFS	
18030005	MONARCH C NR MOUTH	006	107	SW			1971		B				USFS	
18030005	MOSQUITO C NR MOUTH	006	107	SW			1971		B				USFS	
18030005	EF KAWEAH R NR THREE RIVERS CA	006	107	SW	85.80	024	1968		M				CA066	P
18030006	TULE R BL SUCCESS DAM CA	006	107	SW			1962		M				USCE	
18030010	BIG CREEK AT BRIDGE	006	019	SW			1969		Q				USFS	
18030010	TRIB TO BIG CREEK AT BRIDGE	006	019	SW			1969	1970	Q				USFS	
18030010	RUSH CREEK ABOVE PETERSON MILL	006	019	SW			1969	1970	Q				USFS	
18030010	RUSH CREEK BELOW PETERSON MILL	006	019	SW			1969	1970	Q				USFS	
18030010	ROARING R AT RANGER STA NR CEDAR GR	006	107	SW			1974		Y				USGS	D
18030010	SUGARLOAF C TR AT MOUTH NR CEDAR G	006	107	SW			1974	1975	Y				USGS	D
18030010	FERGUSON C AT MOUTH NR CEDAR GROVE	006	107	SW			1974	1975	Y				USGS	D
18030010	ROARING R AB SUGARLOAF C NR CEDAR	006	019	SW			1974	1975	Y				USGS	D
18030010	ROARING R AT ROARING R FALLS NR CE	006	019	SW			1974	1975	Y				USGS	D
18030011	KINGS R BELOW PINE FLAT DAM	006	019	SW			1954		M				USCE	
18040001	FRIANT-KERN CANAL AT FRIANT CALIF	006	019	SW		024	1974		K	K		R	USGS	D
18040003	PANOCHE C BL SILVER C NR PANOCHE CA	006	019	SW	293.00	004	1965	1967	A	A		A	USGS	D
18040003	LOS BANOS C NR LOS BANOS CALIF	006	047	SW	159.00	004	1963	1965	A	A			USGS	D
18040004	MERCED R AT HAPPY ISLES BRIDGE NR YOSEMITE C	006	043	SW	181.00	004	1964		E	E		E	USGS	D
18040004	MERCED RIVER AT EL CAPITAN BRIDGE NR YOSEMIT	006	043	SW	287.00	024	1972	1974	N			R	USGS	D
18040004	MERCED R AT BIG OAK FLAT NR EL PORTAL CAA	006	043	SW	345.00		1975		A				USGS	D
18040004	MERCED RIVER AT RANCHERIA FLAT NR EL PORTAL	006	043	SW	393.00	024	1973		A	E		E	USGS	D
18040004	SOUTH FORK MERCED RIVER NEAR EL PORTAL, CALI	006	043	SW	241.00	024	1973		E			E	USGS	D
18040004	MERCED RIVER NEAR BRICEBURG, CALIF.	006	043	SW	691.00	004	1966		E			E	USGS	D
18040004	MERCED RIVER BELOW MERCED FALLS DAM NEAR SNE	006	047	SW	1061.00	124	1966		R			R	USGS	D
18040004	MERCED RIVER NEAR STEVINSON, CALIF.	006	047	SW	1273.00	124	1952		R			R	USGS	D
18040006	MOKELUMNE RIVER BL CAMANCHE DAM CALIF	006	077	SW	627.00	014	1960		R			R	USGS	D
18040007	SAN JOAQUIN RIVER NEAR VERNALIS CALIF	006	077	SW	13536.00	024	1902		O	N		O	USGS	D

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18040007	DELTA-MENDOTA CANAL BL TRACY PUMP PLT NR TRA	006	077	SW		004	1958	1966	2	R		2	USGS	D
18040007	MARSH CREEK NEAR BYRON, CALIF.	006	013	SW	42.60	004	1970	1970	A	A		A	USGS	D
18040008	SOUTH FORK CALAVERAS RIVER NEAR SAN ANDREAS,	006	009	SW	118.00	004	1972		O	R		O	USGS	D
18040008	NORTH FORK CALAVERAS RIVER NEAR SAN ANDREAS,	006	009	SW	85.20	004	1972		O	A		O	USGS	D
18040009	MOKELUMNE RIVER AT WOODBRIDGE CALIF	006	077	SW	661.00	004	1951		E	E		E	USGS	D
18040010	COSUMNES R NR PLYMOUTH CALIF	006	005	SW	436.00	124	1957	1960	M	A			USGS	P
18040010	COSUMNES RIVER AT MICHIGAN BAR CALIF	006	067	SW	536.00	004	1952		2	E		2	USGS	D
18040010	COSUMNES RIVER AT MCCONNELL CALIF	006	067	SW	724.00	004	1960	1967	N	K		N	USGS	D
18040010	SOPIAGO C NR OMO RANCH CALIF	006	017	SW	8.90		1971	1973	B				USBR	
18050001	ARROYO DEL HAMBRE AT MARTINEZ, CALIF.	006	013	SW	15.10	004	1970	1971	A	A		A	USGS	D
18050001	WALNUT CREEK AT CONCORD, CALIF.	006	013	SW	85.10	123	1970		A	A		A	USGS	D
18050002	WILDCAT C AT VALE ROAD AT RICHMOND CALIF	006	013	SW	7.79	013	1976		C	M	A		USGS	D
18050002	NAPA RIVER NEAR ST. HELENA CALIF	006	055	SW	81.40	004	1953		2	Q	A	2	USGS	D
18050002	NAPA RIVER NEAR NAPA CALIF	006	055	SW	218.00	004	1970		C	M	Q	C	USGS	D
18050002	REDWOOD CREEK NEAR NAPA, CALIFORNIA	006	055	SW	9.81	004	1970	1971	K	E		K	USGS	D
18050002	SONOMA C AT AGUA CALIENTE CALIF	006	097	SW	58.40	004	1957	1962	Q	A			USGS	
18050002	SAN RAFAFL C AT SIRARD LANE AT SAN	006	061	SW	.19	003	1972	1975	A	E		A	USGS	D
18050002	SAN RAFAFL C AT SAN RAFAEL CA	006	041	SW	1.24	003	1971	1975	A	A		A	USGS	D
18050002	IRWIN C TR AT SAN RAFAEL CA	006	041	SW	.11	004	1972	1975	A	A		A	USGS	D
18050002	IRWIN C TR NO 2 AT SAN RAFAEL CALIF	006	041	SW	.16	004	1972	1975	A	A		A	USGS	D
18050002	IRWIN CREEK AT SAN RAFAEL CALIF	006	041	SW	.69	003	1971	1975	A	A		A	USGS	D
18050002	CORTE MADERA CREEK AT ROSS, CALIF.	006	041	SW	18.10	003	1977		C	M	Q	C	USGS	D
18050002	CENTRAL SF BAY-NR ALCATRAZ	006	075	ES			1960	1964			B		CA104	P
18050003	MATADERO C AT PALO ALTO CALIF	006	085	SW	7.24	003	1970	1970	A	A		A	USGS	D
18050003	ROSS C BL JARVIS ROAD NEAR SAN JOSE, CALIF.	006	085	SW	7.64	013	1972	1974	A	A		A	USGS	D
18050003	SARATOGA CREEK AT SARATOGA, CA.	006	085	SW	9.22	124	1972	1972	A			A	USGS	D
18050003	CALABAZAS C AT MT EDEN RD NR SARATOGA CA	006	085	SW	.49	003	1973			A	A		USGS	D
18050003	CALABAZAS C TRIB AT MT EDEN ROAD NR SARATOGA	006	085	SW	.37	003	1971		O	E	E	O	USGS	D
18050003	CALABAZAS C AT MTERD NR SARTOGA CALIF	006	085	SW			1973	1975		A			USGS	D
18050003	CALABAZAS C TR 2 AT MT EDEN RD NR S	006	085	SW	.02		1973			Y	Y		USGS	D
18050003	CALABAZAS C TR4 AT MTERD NR SARATOGA CALIF	006	085	SW	.26	003	1973	1975	E	A	E	E	USGS	D
18050003	CALABAZAS C TR5 AT PRC RD NR SARATOGA CALIF	006	085	SW	.01	003	1973	1973		A			USGS	D
18050003	CALABAZAS C AT VREGNA NR SARATOGA CALIF	006	085	SW	1.43	003	1972	1972	A	A		A	USGS	D
18050003	PROSPECT C AT SARATOGA GOLF COURSE NR SARATO	006	085	SW	.27	003	1971		O	E	E	O	USGS	D
18050003	PROSPECT C AT MRA LA NR SARATOGA CALIF	006	085	SW	.76	003	1972	1973	A	A	A	A	USGS	D
18050003	PROSPECT C TR NR SARATOGA CALIF	006	085	SW	.01	003	1972	1973		A			USGS	D
18050003	CALABAZAS C AT RNBO DRI NR CUPERTINO CALIF	006	085	SW	3.98	003	1972		O	E	E	O	USGS	D
18050003	COYOTE CREEK NR GILROY CALIF	006	085	SW	109.00	004	1963		O	A		O	USGS	D
18050003	SF BAY NR COYOTE C	006	085	ES			1960	1964			B		CA104	P
18050003	COYOTE C	006	085	ES			1960	1964			B		CA104	P

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18050003	NEWARK SLOUGH	006	001	ES			1964				B		CA113	
18050003	NEWARK SLOUGH	006	001	ES			1964				B		CA113	
18050004	COLMA CREEK AT SOUTH SAN FRANCISCO CALIF	006	081	SW	10.80	003	1964		0	N		0	USGS	D
18050004	SPRUCE BRANCH AT SOUTH SAN FRANCISCO CALIF	006	081	SW	.70	024	1964	1969	2	A		2	USGS	D
18050004	REDWOOD CREEK AT REDWOOD CITY, CALIF.	006	081	SW	1.82	003	1970	1971	A	A		A	USGS	D
18050004	ARROYO MOCHO NEAR PLEASANTON, CALIF.	006	001	SW	143.00	014	1970	1971	A	A		A	USGS	D
18050004	ARROYO VALLE BL LANG CN NR LIVERMORE CALIF	006	001	SW	130.00	004	1972		0	A		0	USGS	D
18050004	ARROYO VALLE NEAR LIVERMORE CALIF	006	001	SW	147.00	124	1959		2	A		2	USGS	D
18050004	ALAMEDA CREEK NR NILES CALIF	006	001	SW	633.00	124	1952		2	E		2	USGS	D
18050004	CASTRO VALLEY CREEK AT HAYWARD, CALIF.	006	001	SW	5.51	003	1971		E	E		E	USGS	D
18050004	PERALTA C AT OAKLAND, CALIF.	006	001	SW	1.67		1972	1973	R	A		R	USGS	D
18050004	S SAN FRANCISCO BAY	006	001	ES			1960	1964			B		CA104	P
18050004	SF BAY NR ISLAIS C	006	075	ES			1960	1964			B		CA104	P
18050004	CENTRAL SF BAY	006	075	ES			1960	1964			B		CA104	P
18050004	S F BAY NR OYSTER PT	006	075	ES			1960	1964			B		CA104	P
18050004	SO SF BAY NR CANDLESTICK PT	006	081	ES			1960	1964			B		CA104	P
18050004	CENTRAL SOUTH SF BAY	006	081	ES			1960	1964			B		CA104	P
18050004	SO SF BAY NR SAN LEANDRO CHANNEL	006	001	ES			1960	1964			B		CA104	P
18050004	COYOTE PT	006	081	ES			1960	1964			B		CA104	P
18050004	SF BAY NR SAN MATEO BR	006	081	ES			1960	1964			B		CA104	P
18050004	SO SAN FRANCISCO BAY	006	081	ES			1960	1964			B		CA104	P
18050004	COYOTE HILLS	006	001	ES			1960	1964			B		CA104	P
18050004	CENT SO SAN FRANCISCO BAY	006	081	ES			1960	1964			B		CA104	P
18050004	SAN FRANCISCO BAY NR DUMBARTON BR	006	081	ES			1960	1964			B		CA104	P
18050004	SF BAY NR COYOTE C	006	001	ES			1960	1964			B		CA104	P
18050004	BELMONT SLOUGH	006	081	ES			1972				Q		CA113	
18050004	BELMONT SLOUGH	006	081	ES			1972				Q		CA113	
18050004	SF BAY NR SAN MATEO BR	006	081	ES			1969				A		CA113	
18050004	SF BAY NR SAN MATEO BR	006	081	ES			1969				A		CA113	
18050004	SF BAY NR SAN MATEO BR	006	081	ES			1969				A		CA113	
18050004	SF BAY NR SAN MATEO BR	006	081	ES			1969				A		CA113	
18050004	SF BAY NR SAN MATEO BR	006	081	ES			1969				A		CA113	
18050004	SF BAY NR SAN MATEO BR	006	081	ES			1969				A		CA113	
18050004	SF BAY NR SAN MATEO BR	006	081	ES			1969				A		CA113	
18050004	FOSTER CITY LAGOON	006	081	ES			1974				Q		CA113	
18050004	FOSTER CITY LAGOON	006	081	ES			1974				Q		CA113	
18050004	FOSTER CITY MARINA	006	081	ES			1974				Q		CA113	
18050004	FOSTER CITY LAGOON	006	081	ES			1974				Q		CA113	
18050004	FOSTER CITY LAGOON	006	081	ES			1974				Q		CA113	
18050004	SF BAY CENTRAL SO BAY	006	081	ES			1975				A		CA113	

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18050004	SF BAY CENTRAL SO BAY	006	081	ES			1975				A		CA113	
18050004	SF BAY CENTRAL SO BAY	006	081	ES			1975				A		CA113	
18050004	SF BAY CENTRAL SO BAY	006	081	ES			1975				A		CA113	
18050004	SF BAY CENTRAL SO BAY	006	081	ES			1975				A		CA113	
18050004	SF BAY CENTRAL SO BAY	006	081	ES			1975				A		CA113	
18050004	OYSTER PT	006	081	ES			1971				B		CA113	
18050004	S F BAY NR OYSTER PT	006	081	ES			1971				B		CA113	
18050004	OYSTER PT	006	081	ES			1971				B		CA113	
18050004	OYSTER PT	006	081	ES			1971				B		CA113	
18050004	OYSTER PT	006	081	ES			1971				B		CA113	
18050004	OYSTER PT	006	081	ES			1971				B		CA113	
18050005	PESCADERO CREEK NEAR PESCADERO CALIF	006	081	SW	45.90	124	1964		A	A		A	USGS	D
18050005	BUTANO CREEK NEAR PESCADERO, CALIF.	006	081	SW	18.30	024	1970	1973	A	A		A	USGS	D
18050005	MORSES C AT BOLINAS CALIF	006	041	SW	.70	004	1967	1969	N	A		N	USGS	D
18050005	AUDUBON C NR BOLINAS CALIF	006	041	SW	.46	004	1967	1969	K	A		K	USGS	D
18050005	PINE CR AT BOLINAS CALIF	006	041	SW	7.83	124	1967	1970	2	A		2	USGS	D
18050005	WALKER CREEK NEAR TOMALES, CALIFORNIA	006	041	SW	37.10	004	1970	1972	N	A		N	USGS	D
18050005	PACIFIC OCEAN NR HALF MOON BAY	006	081	ES			1959				B		CA113	
18050005	PACIFIC OCEAN NR HALF MOON BAY	006	081	ES			1959				B		CA113	
18050005	PACIFIC OCEAN NR HALF MOON BAY	006	081	ES			1959				B		CA113	
18060001	APTOS CREEK NEAR APTOS, CALIF.	006	087	SW	10.20	004	1975	1977	E	E	E		USGS	D
18060001	SOQUEL CR AT SOQUEL CALIF	006	087	SW	40.20	024	1952		E	M	E		USGS	D
18060001	SAN LORENZO RIVER NEAR BOULDER CREEK, CALIF.	006	087	SW	6.17	004	1973		E	E	E	E	USGS	D
18060001	SAN LORENZO R AT BOULDER CREEK CALIF	006	087	SW	22.90	024	1973	1975	M	M	M		USGS	D
18060001	BOULDER C AT BOULDER CREEK CALIF	006	087	SW	11.30	024	1973		E	M	E		USGS	D
18060001	FALL C AT FELTON CALIF	006	087	SW	4.94	124	1973		A	A	E	A	USGS	D
18060001	ZAYANTE CREEK AT ZAYANTE CALIF	006	087	SW	11.10	024	1970		E	E	E	2	USGS	D
18060001	SAN LORENZO R AT BIG TREES CALIF	006	087	SW	106.00	124	1952		O	Q	A	O	USGS	D
18060001	MONTEREY BAY	006	053	ES			1974	1976			Q		CA103	P
18060001	MONTEREY BAY	006	053	ES			1974	1976			Q		CA103	P
18060001	MONTEREY BAY	006	053	ES			1974	1976			Q		CA103	P
18060001	KIRBY PARK	006	053	ES			1974	1976			B		CA103	P
18060001	MOSS LANDING VICINITY	006	053	ES			1974	1976			B		CA103	P
18060001	VIERRA	006	053	ES			1974	1976			B		CA103	P
18060001	MONTEREY BAY	006	053	ES			1973				B		CA114	
18060001	MONTEREY BAY	006	053	ES			1973				B		CA114	
18060001	MONTEREY BAY	006	053	ES			1973				B		CA114	
18060001		006	083	ES			1973				A		CA114	
18060001		006	083	ES			1973				A		CA114	
18060001		006	083	ES			1973				A		CA114	

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18060001		006	083	ES			1973				A		CA114	
18060001	MONTEREY BAY	006	053	ES			1976				A		CA114	
18060001	MONTEREY BAY	006	053	ES			1976				A		CA114	
18060001	MONTEREY BAY	006	053	ES			1976				A		CA114	
18060001	CARMEL BAY	006	053	ES			1971				B		CA114	
18060001	CARMEL BAY	006	053	ES			1971				B		CA114	
18060001	MONTEREY BAY	006	053	ES			1976				A		CA114	
18060001	MONTEREY BAY	006	053	ES			1976				A		CA114	
18060001	MONTEREY BAY	006	053	ES			1976				A		CA114	
18060001	MONTEREY BAY	006	053	ES			1976				A		CA114	
18060001	MONTEREY BAY	006	053	ES			1976				A		CA114	
18060001	MONTEREY BAY	006	053	ES			1976				A		CA114	
18060001	MONTEREY BAY	006	053	ES			1976				A		CA114	
18060001	MONTEREY BAY	006	053	ES			1976				A		CA114	
18060001	MONTEREY BAY	006	053	ES			1976				A		CA114	
18060001	MONTEREY BAY	006	053	ES			1976				A		CA114	
18060001	MONTEREY BAY	006	053	ES			1976				A		CA114	
18060001	MONTEREY BAY	006	087	ES			1953				A		CA114	
18060001	MONTEREY BAY	006	087	ES			1953				A		CA114	
18060001	MONTEREY BAY	006	087	ES			1953				A		CA114	
18060001	MONTEREY BAY	006	087	ES			1953				A		CA114	
18060001	MONTEREY BAY	006	087	ES			1953				A		CA114	
18060001	MONTEREY BAY	006	087	ES			1953				A		CA114	
18060001	MONTEREY BAY	006	087	ES			1974				A		CA114	
18060001	MONTEREY BAY	006	087	ES			1974				A		CA114	
18060001	MONTEREY BAY	006	087	ES			1974				A		CA114	
18060001	MONTEREY BAY	006	087	ES			1974				A		CA114	
18060001	MONTEREY BAY	006	087	ES			1974				A		CA114	
18060001	MONTEREY BAY	006	087	ES			1974				A		CA114	
18060001	MONTEREY BAY	006	087	ES			1974				A		CA114	
18060001	PACIFIC OCEAN	006	053	ES			1974				B		CA114	
18060001	MOSS LANDING HARBOR	006	053	ES			1968				B		USCE	P
18060001	MONTEREY BAY	006	053	ES			1976				B		CA114	
18060001	MOSS LANDING HARBOR	006	053	ES			1971				B		USCE	P
18060001	MONTEREY BAY	006	053	ES			1976				B		CA114	
18060002	CEDAR CREEK NEAR BELL STATION, CALIF.	006	085	SW	12.80	004	1970	1971		E			USGS	
18060002	LLAGAS C AB CHESBRO RES NR MORGAN HILL CALIF	006	085	SW	9.61	004	1970		O	A		O	USGS	D
18060002	UVAS C AB UVAS RES NEAR MORGAN HILL CA	006	085	SW	21.00	124	1964		O	A	E	O	USGS	D
18060002	BODFISH CREEK NEAR GILROY, CALIF.	006	085	SW	7.40	004	1970	1971		E			USGS	
18060002	PAJARO R AT CHITTENDEN, CA.	006	087	SW	1186.00	124	1952	1975	M	M		M	USGS	D

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18060002	CORRALITOS CR AT FREEDOM CA.	006	087	SW	27.80	024	1975	1977	E	E	E		USGS	D
18060005	SANTA RITA C TR NR TEMPLETON CAL	006	079	SW	2.95	024	1966	1971	2	A		2	USGS	D
18060005	SANTA RITA C NR TEMPLETON CALIF	006	079	SW	18.20	014	1966	1973	2	A	A	2	USGS	D
18060005	NACIMIENTO R NR BRYSON CALIF	006	053	SW	140.00	004	1959	1970	2	E		2	USGS	D
18060005	NACIMIENTO R BEL SAPAQUE C NR BRYSON CALIF	006	079	SW	156.00	004	1970	1978	2	A		2	USGS	D
18060005	NACIMIENTO R NR SAN MIGUEL CALIF	006	079	SW	343.00	004	1908	1951	M	A			USGS	P
18060005	SAN ANTONIO R AT SAM JNS BR NR LOCKWOOD CA	006	053	SW	211.00	004	1959	1965	3	A		2	USGS	D
18060005	SAN ANTONIO RIVER NEAR LOCKWOOD CALIF	006	053	SW	223.00	024	1964	1978	2	A	N	2	USGS	D
18060005	SAN ANTONIO R AT PLEYTO CALIF	006	053	SW	284.00	024	1960	1966	4	E	E	3	USGS	D
18060005	SALINAS RIVER NEAR BRADLEY, CA.	006	053	SW	2535.00	124	1958			E			USGS	P
18060005	ARROYO SECO NR GREENFIELD CALIF	006	053	SW	113.00	024	1961	1978	2	A		2	USGS	D
18060005	SALINAS R NR CHUALAR CALIF	006	053	SW	4041.00	014	1965		2	E		2	USGS	D
18060005	SALINAS RIVER NR SPRECKELS CALIF	006	053	SW	4156.00	014	1951		O	E		O	USGS	D
18060006	ARROYO GRANDE AB PHOENIX C NR ARROYO GRANDE	006	079	SW	13.50	004	1966		E	A		E	USGS	D
18060006	LOPEZ C NR ARROYO GRANDE CALIF	006	079	SW	21.60	024	1966		2	E	E	2	USGS	D
18060006	MORRO BAY	006	079	ES			1973				B		USCE	P
18060006	MORRO BAY	006	079	ES			1973				B		USCE	P
18060006	MORRO BAY	006	079	ES			1973				B		USCE	P
18060006	MORRO BAY	006	079	ES			1973				B		USCE	P
18060006	MORRO BAY	006	079	ES			1973				B		USCE	P
18060006	MORRO BAY	006	079	ES			1973				B		USCE	P
18060006	PACIFIC OCEAN	006	079	ES			1974				A		CA114	
18060006	PACIFIC OCEAN	006	079	ES			1974				A		CA114	
18060006	PACIFIC OCEAN	006	079	ES			1974				A		CA114	
18060006	PACIFIC OCEAN	006	079	ES			1974				A		CA114	
18060006	PACIFIC OCEAN	006	079	ES			1974				A		CA114	
18060006	PACIFIC OCEAN	006	079	ES			1974				A		CA114	
18060006	PACIFIC OCEAN	006	079	ES			1974				A		CA114	
18060006		006	079	ES			1971				A		CA114	
18060006		006	079	ES			1971				A		CA114	
18060006		006	079	ES			1971				A		CA114	
18060006	PACIFIC OCEAN	006	079	ES			1976				B		CA114	
18060006	PACIFIC OCEAN	006	079	ES			1976				B		CA114	
18060006	PACIFIC OCEAN	006	079	ES			1976				B		CA114	
18060006	PACIFIC OCEAN	006	079	ES			1976				B		CA114	
18060006	PACIFIC OCEAN	006	079	ES			1976				B		CA114	
18060006	PACIFIC OCEAN	006	079	ES			1976				B		CA114	
18060006	PACIFIC OCEAN	006	079	ES			1976				B		CA114	
18060006	PACIFIC OCEAN	006	079	ES			1972				A		CA092	
18060006	PACIFIC OCEAN	006	079	ES			1974				A		CA114	

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18060006	PACIFIC OCEAN	006	079	ES			1974				A		CA114	
18060006	PACIFIC OCEAN	006	079	ES			1974				A		CA114	
18060006	MONTEREY BAY	006	053	ES			1975				B		CA114	
18060006	PACIFIC OCEAN	006	053	ES			1974				B		CA114	
18060006	MONTEREY BAY	006	053	ES			1975				B		CA114	
18060007	CUYAMA R NR SANTA MARIA CALIF	006	083	SW	904.00	024	1956	1959	M	M			USGS	P
18060008	SANTA MARIA R AT GUADALUPE CALIF	006	083	SW	1742.00	124	1967	1969	2	A		2	USGS	D
18060009	SEEP STATION	006	083	ES			1975				B		CA105	
18060009	CONTROL STATION	006	083	ES			1975				B		CA105	
18060009		006	083	ES			1972				A		CA114	
18060009		006	083	ES			1972				A		CA114	
18060009		006	083	ES			1972				A		CA114	
18060009		006	083	ES			1972				A		CA114	
18060009	CARPINTERIA	006	083	ES			1976				A		CA114	
18060009	CARPINTERIA	006	083	ES			1976				A		CA114	
18060009	CARPINTERIA	006	083	ES			1976				A		CA114	
18060009	CARPINTERIA	006	083	ES			1976				A		CA114	
18060009	WATER COLUMN	006	083	ES			1972				B		CA114	
18060009	SURF STATIONS	006	083	ES			1972				B		CA114	
18060009	SURF STATIONS	006	083	ES			1972				B		CA114	
18060009		006	083	ES			1972				B		CA114	
18060009	SURF STATIONS	006	083	ES			1972				B		CA114	
18060009	SURF STATIONS	006	083	ES			1972				B		CA114	
18060009	SURF STATIONS	006	083	ES			1972				B		CA114	
18060009	SURF STATIONS	006	083	ES			1972				B		CA114	
18060009		006	083	ES			1971				A		CA114	
18060009		006	083	ES			1971				A		CA114	
18060009		006	083	ES			1971				A		CA114	
18060009		006	083	ES			1971				A		CA114	
18060009		006	083	ES			1971				A		CA114	
18060009		006	083	ES			1971				A		CA114	
18060009		006	083	ES			1971				A		CA114	
18060010	SANTA CLARA R AT DIV NR SATICOY CA	006	083	SW			1967	1975	0	B	B		USGS	D
18060010	SANTA YNEZ RIVER NEAR BUELLTON, CALIF.	006	083	SW	668.00	014	1965	1968	N	E		N	USGS	D
18060010	SALSIPUEDES CREEK NEAR LOMPOC, CALIF.	006	083	SW	47.10	024	1965		E	E		E	USGS	D
18070001	ARROYO SIMI NR SIMI CALIF	006	111	SW	70.60		1967		0	A		0	USGS	D
18070001	CALLEGUAS CREEK AT CAMARILLO CALIF	006	111	SW	248.00		1967		0	A		0	USGS	D
18070001	VENTURA RIVER NR VENTURA CALIF	006	111	SW	188.00	014	1966		0	A		0	USGS	D
18070001	PACIFIC OCEAN	006	111	ES			1968	1971			B		CA115	
18070001	PACIFIC OCEAN	006	111	ES			1969	1971			B		CA115	

HYDROLOGIC UNIT CODE	STATION NAME AND LOCATION	STATE	COUNTY	TYPE OF SITE	DRAINAGE AREA	BASIN DESCRIPTOR	QW BEGIN YEAR	QW END YEAR	SUSP SED CONCEN	SUSP PART SIZE	BED MAT PART SIZE	SUSP DISCHARGE	ORGANIZATION CODE	SED STOR MEDIA
18070001	PACIFIC OCEAN	006	111	ES			1968	1971			B		CA115	
18070001	PACIFIC OCEAN	006	111	ES			1969	1971			B		CA115	
18070001	PACIFIC OCEAN	006	111	ES			1969	1971			B		CA115	
18070001	PACIFIC OCEAN	006	111	ES			1968	1971			B		CA115	
18070001	PACIFIC OCEAN	006	111	ES			1968	1971			B		CA115	
18070001	PACIFIC OCEAN	006	111	ES			1969	1971			B		CA115	
18070001	PACIFIC OCEAN	006	111	ES			1969	1971			B		CA115	
18070002	ELIZABETH LAKE CN C AB CASTAIC CAL	006	037	SW			1965	1966	A	A		A	USGS	D
18070002	FISH CANYON C AB CASTAIC C NR CASTAIC CA	006	037	SW		004	1965	1966	A	E		A	USGS	D
18070002	CASTAIC C AB GORDON RANCH HOUSE NR CASTAIC C	006	037	SW	64.20	004	1965	1967	N	N		N	USGS	D
18070002	SANTA CLARA R AT LOS ANGELES-VENTURA CO LINE	006	111	SW	644.00		1951		O	E		O	USGS	D
18070002	PIRU C BL BUCK CREEK CA	006	111	SW		004	1965	1966	A			A	USGS	D
18070002	CANADA DE LOS ALAMOS BL APPLE CANYON CA	006	037	SW		004	1965	1966	A	E		A	USGS	D
18070002	PIRU CR AB FRENCHMANS FLAT CA	006	037	SW	308.00	004	1965		E	E		E	USGS	D
18070002	PIRU CREEK ABOVE LAKE PIRU CALIF	006	111	SW	372.00		1965		E	E		E	USGS	D
18070002	SESPE CREEK NR WHEELER SPRINGS CALIF	006	111	SW	49.50	004	1956		E	E			USGS	D
18070002	SESPE CREEK NR FILLMORE CALIF	006	111	SW	251.00	024	1965		O	E		O	USGS	D
18070002	SANTA CLARA R AT SATICOY CALIF	006	111	SW	1595.00	004	1969	1969	O	Q	A		USGS	P
18070002	SANTA CLARA RIVER AT MONTALVO CALIF	006	111	SW	1612.00	124	1966		O	A		O	USGS	D
18070003	LOS ANGELES-LONG BEACH HARBOR	006	037	ES			1973				Q		CA115	
18070003	LOS ANGELES LONG BEACH HARBORS	006	037	ES			1973	1975			Q		CA115	
18070003	LOS ANGELES-LONG BEACH HARBORS	006	037	ES			1973				Q		CA115	
18070003	LOS ANGELES-LONG BEACH HARBORS	006	037	ES			1973				Q		CA115	
18070003	LOS ANGELES-LONG BEACH HARBORS	006	037	ES			1973				Q		CA115	
18070003	LOS ANGELES-LONG BEACH HARBOR	006	037	ES			1973				Q		CA115	
18070003	LOS ANGELES-LONG BEACH HARBORS	006	037	ES			1973				Q		CA115	
18070003	LOS ANGELES-LONG BEACH HARBORS	006	037	ES			1973	1975			Q		CA115	
18070003	LOS ANGELES-LONG BEACH HARBORS	006	037	ES			1973				Q		CA115	
18070003	LOS ANGELES LONG BEACH HARBORS	006	037	ES			1973				Q		CA115	
18070003	LOS ANGELES-LONG BEACH HARBORS	006	037	ES			1973				Q		CA115	
18070003	LONG BEACH HARBOR	006	037	ES			1974				Q		CA115	
18070003	LONG BEACH HARBOR	006	037	ES			1974				Q		CA115	
18070003	LONG BEACH HARBOR	006	037	ES			1974				Q		CA115	
18070003	LOS ANGELES LONG BEACH HARBORS	006	037	ES			1973				Q		CA115	
18070003	LOS ANGELES LONG BEACH HARBORS	006	037	ES			1973	1975			Q		CA115	
18070003	LOS ANGELES LONG BEACH HARBORS	006	037	ES			1973	1975			Q		CA115	
18070003	LOS ANGELES LONG BEACH HARBORS	006	037	ES			1973				Q		CA115	
18070003	LOS ANGELES LONG BEACH HARBORS	006	037	ES			1973				Q		CA115	
18070003	LOS ANGELES LONG BEACH HARBORS	006	037	ES			1973	1975			Q		CA115	
18070003	LOS ANGELES LONG BEACH HARBORS	006	037	ES			1973	1975			Q		CA115	

HYDROLOGIC UNIT CODE	STATION NAME AND LOCATION	STATE	COUNTY	TYPE OF SITE	DRAINAGE AREA	BASIN DESCRIPTOR	QW BEGIN YEAR	QW END YEAR	SUSP SED CONCEN	SUSP PART SIZE	BED MAT PART SIZE	SUSP DISCHARGE	ORGANIZATION CODE	SED STOR MEDIA
18070003	LOS ANGELES LONG BEACH HARBORS	006	037	ES			1973	1975			Q		CA115	
18070003	LOS ANGELES LONG BEACH HARBORS	006	037	ES			1973	1975			Q		CA115	
18070003	LOS ANGELES LONG BEACH HARBORS	006	037	ES			1973	1975			Q		CA115	
18070003	LOS ANGELES LONG BEACH HARBORS	006	037	ES			1973	1975			Q		CA115	
18070003	LOS ANGELES-LONG BEACH HARBORS	006	037	ES			1973	1975			Q		CA115	
18070003	KING HARBOR-INTERTIDAL UNSTA SUBST	006	037	ES			1974				B		CA120	
18070003	KING HARBOR-INTERTIDAL UNSTA SUBST	006	037	ES			1974				B		CA120	
18070003	KING HARBOR-INTERTIDAL UNSTA SUBST	006	037	ES			1974				B		CA120	
18070003	KING HARBOR INTERTIDAL UNSTA SUBST	006	037	ES			1974				B		CA120	
18070003	KING HARBOR INTERTIDAL UNSTA SUBST	006	037	ES			1974				B		CA120	
18070003	KING HARBOR	006	037	ES			1974		Q		A		CA066	
18070003	KING HARBOR-INTERTIDAL UNSTA SUBST	006	037	ES			1974				B		CA120	
18070003	KING HARBOR-INTERTIDAL UNSTA SUBST	006	037	ES			1974				B		CA120	
18070003	KING HARBOR-INTERTIDAL UNSTA SUBST	006	037	ES			1974				B		CA120	
18070003	KING HARBOR-INTERTIDAL UNSTA SUBST	006	037	ES			1974				B		CA120	
18070003	KING HARBOR	006	037	ES			1974		Q		A		CA066	
18070003	KING HARBOR	006	037	ES			1974		Q		A		CA066	
18070003	KING HARBOR	006	037	ES			1974		Q		A		CA066	
18070003	KING HARBOR	006	037	ES			1974		Q		A		CA066	
18070003	KING HARBOR	006	037	ES			1974		Q		A		CA066	
18070003	KING HARBOR	006	037	ES			1974		Q		A		CA066	
18070003	KING HARBOR	006	037	ES			1974		Q		A		CA066	
18070003	KING HARBOR	006	037	ES			1974		Q		A		CA066	
18070003	KING HARBOR	006	037	ES			1974		Q		A		CA066	
18070003	KING HARBOR	006	037	ES			1974		Q		A		CA066	
18070003	KING HARBOR	006	037	ES			1974		Q		A		CA066	
18070003	KING HARBOR	006	037	ES			1974		Q		A		CA066	
18070003	KING HARBOR	006	037	ES			1974		Q		A		CA066	
18070003	KING HARBOR	006	037	ES			1974		Q		A		CA066	
18070003	KING HARBOR	006	037	ES			1974		Q		A		CA066	
18070003	KING HARBOR	006	037	ES			1974		Q		A		CA066	
18070003	KING HARBOR	006	037	ES			1974		Q		A		CA066	
18070003	KING HARBOR	006	037	ES			1974		Q		A		CA066	
18070004	LOS ANGELES R. A. WILLO ST BR A LB	006	037	SW	831.00	003	1973		E	E		E	USGS	D
18070005	LOS ANGELES-LONG BEACH HARBORS	006	037	ES			1973	1975			Q		CA115	
18070005	LOS ANGELES-LONG BEACH HARBORS	006	037	ES			1973	1975			Q		CA115	
18070005	LOS ANGELES-LONG BEACH HARBORS	006	037	ES			1973	1975			Q		CA115	
18070005		006	059	ES			1974				A		CA118	
18070005		006	059	ES			1974				A		CA118	
18070005		006	059	ES			1974				A		CA118	

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18070005	PACIFIC OCEAN	006	059	ES			1969				Q		CA118	
18070005		006	059	ES			1969				Q		CA118	
18070005		006	059	ES			1969				Q		CA118	
18070005		006	059	ES			1969				Q		CA118	
18070005		006	059	ES			1969		O				CA118	
18070005	LOS ANGELES-LONG BEACH HARBORS	006	037	ES			1973	1975			Q		CA115	
18070005	LOS ANGELES-LONG BEACH HARBORS	006	037	ES			1973	1975			Q		CA115	
18070005	LOS ANGELES-LONG BEACH HARBORS	006	037	ES			1973	1975			Q		CA115	
18070005	LOS ANGELES LONG BEACH HARBORS	006	037	ES			1973	1975			Q		CA115	
18070005	LOS ANGELES LONG BEACH HARBORS	006	037	ES			1973	1975			Q		CA115	
18070005	NEWPORT BEACH	006	059	ES			1971		W				CA059	
18070006	EAST FORK PIGEON PASS CREEK AT HEACOCK STREE	006	065	SW	.48	004	1969		D				USGS	
18070006	SUNNYMEAD CHANNEL AT ALLESANDRO BLVD NR SUNN	006	065	SW	13.30	004	1969		D				USGS	
18070006	PERRIS VALLEY STORM DRAIN NR PERRIS CALIF	006	065	SW	93.30	004	1969	1975	D				USGS	
18070007	SANTA ANA RIVER AT PRADO PARK NR CORONA CALI	006	065	SW	1010.00	013	1971		P			O	USGS	D
18070007	PERRIS VALLEY STORM DRAIN LAT B A PERRIS BLV	006	065	SW	10.60	004	1969		D				USGS	
18070007	SANTA ANA RIVER BELOW PRADO DAM, CALIF.	006	065	SW	1490.00	123	1966		O			O	USGS	D
18070007	SANTA ANA R AT IMP HWY NR ANAHEIM CA	006	059	SW	1543.00	124	1971		O	N		O	USGS	D
18070007	SANTA ANA R AT BALL RD NR ANAHEIM CA	006	059	SW	1587.00	004	1975		O	C	C		USGS	D
18070007	SANTA ANA R NR KATLA AV ORANGE CA	006	059	SW	1593.00	014	1973		O	A		O	USGS	D
18070007	SANTIAGO CREEK AT SANTA ANA CALIF	006	059	SW	95.10		1974	1975	A	A		A	USGS	D
18070007	SANTA ANA R AT SANTA ANA CALIF	006	059	SW	1689.00		1966		O	A		O	USGS	D
18070007	SANTA ANA R ADMS NR COSTA MESA CA	006	059	SW	1700.00	014	1972		O	A		O	USGS	D
18070007		006	059	ES			1974				A		CA118	
18070007		006	059	ES			1974				A		CA118	
18070007		006	059	ES			1969				Q		CA118	
18070007		006	059	ES			1969				Q		CA118	
18070007		006	059	ES			1969				Q		CA118	
18070007		006	059	ES			1969				Q		CA118	
18070007		006	059	ES			1969				Q		CA118	
18070007		006	059	ES			1969				Q		CA118	
18070007		006	059	ES			1969				Q		CA118	
18070007		006	059	ES			1969				Q		CA118	
18070007	PACIFIC OCEAN	006	059	ES			1969				Q		CA118	
18070007		006	059	ES			1969				Q		CA118	
18070007		006	059	ES			1969				Q		CA118	
18070007		006	059	ES			1969				Q		CA118	
18070007		006	059	ES			1969				Q		CA118	
18070007	SANTA ANA RIVER BELOW PRADO DAM, CALIF.	006	065	SW			1976		F	F		F	USGS	D
18070008	SAN JUAN CREEK NEAR SAN JUAN CAPISTRANO, CAL	006	059	SW	106.00	024	1965	1970	2	A		2	USGS	D

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18070008	SAN JUAN CREEK AT SAN JUAN CAPISTRANO,CALIF.	006	059	SW	117.00	003	1969		0	A		0	USGS	D
18070008	ARROYO TRABUCO NR SAN JUAN CAPISTRANO CALIF	006	059	SW	35.70		1965	1968	2	E		2	USGS	D
18070008	ARROYO TRABUCO AT SAN JUAN CAPISTRANO CALIF	006	059	SW	54.10	004	1969		0	A		0	USGS	D
18070008	SAN DIEGO CREEK AT JEFFERY RD NR IRVINE CALI	006	059	SW	40.30	004	1972		0	R		0	USGS	D
18070008	EL MODINA-IRVINE CH A MYFORD RD NR TUSTIN	006	059	SW			1973		0	A		0	USGS	D
18070008	SAN DIEGO CREEK AT LANE ROAD NR IRVINE CALIF	006	059	SW		004	1972		0	R		0	USGS	D
18070008		006	073	ES			1964				B		CA119	
18070008		006	073	ES			1964				B		CA119	
18070008		006	073	ES			1964				B		CA119	
18070008		006	073	ES			1964				B		CA119	
18070008		006	073	ES			1964				B		CA119	
18070008		006	073	ES			1964				B		CA119	
18070008		006	073	ES			1964				B		CA119	
18070008		006	073	ES			1964				B		CA119	
18070008		006	073	ES			1964				B		CA119	
18070008		006	073	ES			1964				B		CA119	
18070008		006	073	ES			1964				B		CA119	
18070008		006	073	ES			1964				B		CA119	
18070008		006	073	ES			1964				B		CA119	
18070008		006	073	ES			1964				B		CA119	
18070008		006	073	ES			1964				B		CA119	
18070008		006	073	ES			1964				B		CA119	
18070008		006	073	ES			1964				B		CA119	
18070008		006	073	ES			1964				B		CA119	
18070008		006	073	ES			1964				B		CA119	
18070008		006	073	ES			1974				Q		CA119	
18070008		006	073	ES			1974				Q		CA119	
18070008		006	073	ES			1974				Q		CA119	
18070008		006	073	ES			1974				Q		CA119	
18070008		006	073	ES			1974				Q		CA119	
18070008	PACIFIC OCEAN	006	059	ES			1976	1976			B		CA119	
18070008	PACIFIC OCEAN	006	059	ES			1976	1976			B		CA119	
18070008	PACIFIC OCEAN	006	059	ES			1976	1976			B		CA119	
18070008	PACIFIC OCEAN	006	059	ES			1976	1976			B		CA119	
18070008	PACIFIC OCEAN	006	059	ES			1976	1976			B		CA119	
18070008	PACIFIC OCEAN	006	059	ES			1976	1976			B		CA119	
18070008	PACIFIC OCEAN	006	059	ES			1976	1976			B		CA119	
18070008	PACIFIC OCEAN	006	059	ES			1974				A		CA119	
18070008	PACIFIC OCEAN	006	059	ES			1974				A		CA119	
18070008	PACIFIC OCEAN	006	059	ES			1974				A		CA119	

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18070008	PACIFIC OCEAN	006	059	ES			1974				A		CA119	
18070008	PACIFIC OCEAN	006	059	ES			1974				A		CA119	
18070008	PACIFIC OCEAN	006	059	ES			1974				A		CA119	
18070008	PACIFIC OCEAN	006	059	ES			1974				A		CA119	
18070008	PACIFIC OCEAN	006	059	ES			1957				A		CA119	
18070008	PACIFIC OCEAN	006	059	ES			1957				A		CA119	
18070008	PACIFIC OCEAN	006	059	ES			1971				A		CA119	
18070008	PACIFIC OCEAN	006	059	ES			1957				A		CA119	
18070008	PACIFIC OCEAN	006	059	ES			1971				A		CA119	
18070008	PACIFIC OCEAN	006	059	ES			1957				A		CA119	
18070008	PACIFIC OCEAN	006	059	ES			1971				A		CA119	
18070008	PACIFIC OCEAN	006	059	ES			1957				A		CA119	
18070008	PACIFIC OCEAN	006	059	ES			1971				A		CA119	
18070008		006	059	ES			1969				Q		CA118	
18070008		006	059	ES			1969				Q		CA118	
18070008	DOHNEY BEACH OFFSHORE	006	059	ES			1971		M				CA059	
18070008	DOHNEY BEACH OFFSHORE	006	059	ES			1971		M				CA059	
18070008	DOHNEY BEACH OFFSHORE	006	059	ES			1971		M				CA059	
18070008	DOHNEY BEACH OFFSHORE	006	059	ES			1971		M				CA059	
18070008	DOHNEY BEACH OFFSHORE	006	059	ES			1971		M				CA059	
18070008	DOHNEY BEACH OFFSHORE	006	059	ES			1971		M				CA059	
18070009	SANTA MARGARITA R AT YSIDORA CALIF	006	073	SW	739.00	124	1967		O	A		2	USGS	D
18070010	SAN LUIS REY RIVER AT OCEANSIDE CALIF	006	073	SW	558.00	124	1967		O	A		O	USGS	D
18070010	PACIFIC OCEAN	006	073	ES			1974				B		CA119	
18070010	PACIFIC OCEAN	006	073	ES			1974				B		CA119	
18070010	PACIFIC OCEAN	006	073	ES			1974				B		CA119	
18070010	PACIFIC OCEAN	006	073	ES			1974				B		CA119	
18070010	PACIFIC OCEAN	006	073	ES			1974				B		CA119	
18070010	PACIFIC OCEAN	006	073	ES			1974				B		CA119	
18070010	PACIFIC OCEAN	006	073	ES			1974				B		CA119	
18070011	IMPERIAL BEACH	006	073	ES			1976	1976			Y		CA070	
18070011	SAN DIEGO RIVER NR SANTEE CALIF	006	073	SW	377.00	124	1968		O			O	USGS	D
18070011	POWAY CREEK NEAR POWAY CALIF	006	073	SW	7.92	004	1969	1975	P	P			USGS	
18070011	RATTLESNAKE CREEK AT POWAY CALIF	006	073	SW	8.13	004	1969		P	P			USGS	C
18070011	POWAY CREEK TRIBUTARY AT OAK KNOLL ROAD NEAR	006	073	SW	.93	004	1969	1975	P	P			USGS	
18070011	POMERADO CREEK AT GLENOAK ROAD NEAR POWAY CA	006	073	SW	2.43	004	1969	1975	P	P			USGS	
18070011	POMERADO CREEK AT POWAY ROAD NR POWAY CALIF	006	073	SW	4.14	004	1969	1975	P	P			USGS	
18070011	BEELER CREEK AT POMERADO ROAD NEAR POWAY CAL	006	073	SW	5.46	004	1969		P	P			USGS	C
18070011	LOS PENASQUITOS CR BL POWAY CREEK NR POWAY C	006	073	SW	31.20	004	19?9		P	P			USGS	
18070011	PACIFIC OCEAN	006	073	ES			1977				Q		CA119	

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18070011	PACIFIC OCEAN	006	073	ES			1976				Q		CA119	
18070011	PACIFIC OCEAN	006	073	ES			1957				Q		CA119	
18070011	PACIFIC OCEAN	006	073	ES			1976				Q		CA119	
18070011	PACIFIC OCEAN	006	073	ES			1976				Q		CA119	
18070011	PACIFIC OCEAN	006	073	ES			1957				Q		CA119	
18070011	PACIFIC OCEAN	006	073	ES			1957				Q		CA119	
18070011	PACIFIC OCEAN	006	073	ES			1976				Q		CA119	
18070011	PACIFIC OCEAN	006	073	ES			1957				Q		CA119	
18070011	PACIFIC OCEAN	006	073	ES			1957				Q		CA119	
18070011	MISSION BAY	006	073	ES			1971	1970			B		USCE	P
18070011	MISSION BAY	006	073	ES			1971				B		USCE	P
18070011	MISSION BAY	006	073	ES			1971				B		USCE	P
18070012	TIJUANA RIVER NR NESTOR CALIF	006	073	SW	1690.00	014	1968		0	A		0	USGS	D
18090103	OWENS R BL TINEMAHA RE NR BIG PINE CA.	006	027	SW	1964.00	124	1974		E	E		E	USGS	D
18090206	W. F. MOHAVE R AB CEDAR SPRINGS CA	006	071	SW		004	1965	1967	R	E		R	USGS	D
18090208	EF OF WF MOJAVE R AB CEDAR SPRINGS CA.	006	071	SW		004	1965	1967	K	E		K	USGS	D
18090208	W. F. MOJAVE R BL CEDAR SPRINGS CA	006	071	SW		004	1965	1967	R	A		R	USGS	D
18100200	NEW R AT INTERNAT BDY CALEXICO CA	006	025	SW			1969		E	E		E	USGS	D
18100200	NEW R AT DROP 4 AT BRAWLEY CA	006	025	SW			1975		M				USGS	D
18100200	WHITEWATER RIVER AT WHITE WATER CALIF	006	065	SW	57.40	024	1966		2	E		2	USGS	D

ALASKA REGION 19

HYDROLOGIC UNIT CODE	STATION NAME AND LOCATION	STATE	COUNTY	TYPE OF SITE	DRAINAGE AREA	BASIN DESCRIPTOR	QW BEGIN YEAR	QW END YEAR	SUSP SED CONCEN	SUSP PART SIZE	BED MAT PART SIZE	SUSP DISCHARGE	ORGANIZATION CODE	SED STOR MEDIA
190084 A	NUNAVAK C NR BARROW AK	002	040	SW	2.79		1972	1975	E			E	USGS	D
19010001	KUPARUK R NR DEADHORSE AK	002	040	SW	3130.00	004	1970		A	E		A	USGS	D
19010001	PUTULIGAYUK R NR DEADHORSE AK	002	040	SW	176.00		1970		A	E		A	USGS	D
19010001	ATIGUN R TR NR PUMP STATION 4 AK	002	040	SW	32.60	004	1976		A				USGS	D
19010001	SAGAVANIRKTOK R NR SAGWON AK	002	040	SW	2208.00		1969		A	E		A	USGS	D
19010001	ATIGUN R 7MI AB GALBRAITH LK NR SAGWON	002	290	SW			1969	1971		E			USGS	D
19010001	GALBRAITH LK AT OUTLET NR SAGWON AK	002	250	SW			1969	1969	A			A	USGS	D
19010001	SAGAVANIRKTOK R W CH AT BRIDGE NR DEADHORSE	002	040	SW			1976	1976	A			A	USGS	D
19010003	ESATKUAT C NR BARROW AK	002	040	SW	1.46	004	1972	1973	A			A	USGS	D
190184 A	ESATKUAT LAGOON OUTLET AT BARROW AK	002	040	SW	3.52	004	1972	1973	A			A	USGS	D
19020001	JUNE C NR KOTZEBUE AK	002	140	SW	10.90	004	1967	1968	E			E	USGS	D
19020001	KOBUK R AT AMBLER AK	002	140	SW	6570.00	004	1967		E				USGS	D
19020001	KOBUK R NR KIANA AK	002	140	SW	952.00	004	1975		Q	Q			USGS	D
19020001	NOATAK R AT NOATAK AK	002	140	SW	12000.00	004	1955	1971	A	A		A	USGS	D
19020002	SNAKE R NR NOME AK	002	180	SW	85.70	004	1964	1973	E	E		E	USGS	D
19020002	ARCTIC C NR NOME AK	002	180	SW	1.76	004	1970	1972	A			A	USGS	D
19020002	WASHINGTON C NR NOME AK	002	180	SW	6.34	004	1971	1972	A			A	USGS	D
19020002	KUZITRIN R NR NOME AK	002	180	SW	1720.00	004	1965	1972	E				USGS	D
19020002	KUZITRIN R NR NOME AK	002		SW	1720.00		1965	1972	A	A		A	USGS	D
19030001	TAYLOR C NR CHICKEN AK	002	250	SW	38.40		1971	1975	E			E	USGS	D
19030001	FORTYMILE R NR STEEL C AK	002	250	SW	5880.00	004	1953		A				USGS	D
19030001	BITTERS C NR NORTHWAY JUNCTION AK	002	240	SW	15.40		1971	1975	E			E	USGS	D
19030001	CLEARWATER C NR TOK AK	002	240	SW	37.50		1949	1975	A	A			USGS	
19030002	YUKON R AT EAGLE AK	002	250	SW	113500.00		1951	1975	2	A		2	USGS	D
19030002	PORCUPINE R NR FORT YUKON AK	002	250	SW	29500.00		1966	1975	A	A		A	USGS	D
19030002	CHANDALAR R NR VENETIE AK	002	250	SW	9330.00		1966	1973	A	E		A	USGS	D
19030002	BOULDER C NR CENTRAL AK	002	250	SW	31.30		1967	1975	E			E	USGS	D
19030002	HESS C NR LIVENGOOD AK	002	290	SW	662.00		1970		A	E		A	USGS	D
19030002	YUKON R AT RAMPART AK	002	290	SW	199400.00	004	1954	1967	N	N		N	USGS	D
19030002	CHENA R AT FAIRBANKS AK	002	090	SW	1980.00	004	1948	1975	2	A		2	USGS	D
19030002	BRIDGE C NR LIVENGOOD AK	002	290	SW	12.60	004	1970	1971	A			A	USGS	D
19030002	HESS C AB FISH C NR LIVENGOOD AK	002	290	SW			1971		A	A		A	USGS	D
19030003	MELOZITNA R NR RUBY AK	002	290	SW	2693.00	004	1956	1972	R	E		R	USGS	D
19030003	YUKON R AT RUBY AK	002	290	SW	259000.00	004	1957		R	E		R	USGS	D
19030004	CHISANA R AT NORTHWAY JCT AK	002	240	SW	3280.00		1950	1972	E	E		E	USGS	D
19030004	TANANA R NR TOK JUNCTION AK	002	240	SW	6800.00	004	1949	1954	A	A			USGS	D
19030004	TANANA R NR TANACROSS AK	002	240	SW	8550.00		1952	1975	2	A		2	USGS	D
19030004	TANANA R TR NR DOT LK AK	002	240	SW	11.00	004	1970	1972	E	E		E	USGS	D
19030004	BERRY C NR DOT LK AK	002	240	SW	65.10		1949		A	A			USGS	D
19030004	CLEARWATER C NR DELTA JCT AK	002	240	SW	360.00	004	1977	1977	Z				USGS	

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19030004	TANANA R AT BIG DELTA AK	002	240	SW	13500.00	004	1948	1975	E	E		E	USGS	D
19030004	BANNER C AT RICHARDSON AK	002	240	SW	20.20	004	1951	1972	A	A			USGS	D
19030004	SALCHA R NR SALCHAKET AK	002	090	SW	2170.00		1948		A	A		E	USGS	D
19030004	TANANA R AT FAIRBANKS AK	002	090	SW		004	1975	1975	A	A		A	USGS	D
19030004	CHENA R NR TWO RIVERS AK	002	090	SW	941.00		1968	1975	E	E		E	USGS	D
19030004	CHENA R NR N POLE AK	002	090	SW	1430.00		1971		K	A		K	USGS	D
19030004	L CHENA R NR FAIRBANKS AK	002	090	SW	372.00	004	1961		R	A		R	USGS	D
19030004	WOOD R NR FAIRBANKS AK	002	090	SW	855.00	004	1968	1973	K	E		K	USGS	D
19030004	TANANA R AT NENANA AK	002	290	SW	25600.00	004	1954	1975	E	E		E	USGS	D
19030004	SEATTLE C NR CANTWELL AK	002	290	SW	36.20		1970		A	A			USGS	D
19030004	NENANA R NR WINDY AK	002	290	SW	710.00	004	1955	1968	N	A		N	USGS	D
19030004	NENANA R NR HEALY AK	002	290	SW	1910.00	004	1953	1968	2	K		2	USGS	D
19030004	NENANA R NR REX AK	002	290	SW	2450.00	004	1965	1967	A	A		A	USGS	D
19030004	TEKLANIKA R NR LIGNITE AK	002	290	SW	490.00	004	1967	1972	R	R		R	USGS	D
19030004	BROOKS C TR NR LIVENGOOD AK	002	290	SW	7.81		1971	1972	A	A			USGS	D
19030004	POKER C NR CHATANIKA AK	002	090	SW	23.10	004	1971	1973	Q			Q	USGS	D
19030004	CARIBOU C NR CHATANIKA AK	002	090	SW	9.19		1969	1973	Q	A		Q	USGS	D
19030004	PHELAN C AT MOUTH NR BLACK RAPIDS AK	002	240	SW			1974	1975	A	A		A	USGS	D
19030004	TRIMS C NR BLACK RAPIDS AK	002	240	SW			1974	1975	E	E		E	USGS	D
19030004	HEALY C AT SUNTRANA AK	002	290	SW		004	1975		A	E		A	USGS	D
19030004	CRIPPLE C NR SUNTRANA AK	002	290	SW		004	1975		A	E		A	USGS	D
19030004	COAL C NR SUNTRANA AK	002	290	SW		004	1975		A			A	USGS	D
19030004	HEALY C NR USIBELLI AK	002	290	SW		004	1976		A			A	USGS	D
19030004	LIGNITE CK NR HEALY AK	002	290	SW		004	1976		A			A	USGS	D
19030004	REDMOND C NR SALCHAKET AK	002	090	SW			1975		E			E	USGS	D
19030004	SALCHA R 7 MI ABOVE GAGE NR SALCHAKET AK	002	090	SW			1976	1976	A				USGS	D
19030004	SALCHA R 5 MI ABOVE GAGE NR SALCHAKET AK	002	090	SW			1976	1976	A				USGS	D
19030004	SALCHA R 6.5 MI ABOVE GAGE NR SALCHAKET AK	002	090	SW			1976	1976	A				USGS	D
19030004	SALCHA R 8MI AB GAGE NR SALCHAKET AK	002	090	SW			1971		R	A		R	USGS	D
19030004	SALCHA R SITE 2 8MI AB GAGE NR SALCHAKET AK	002	090	SW			1976		S	A		S	USGS	D
19030004	SALCHA R SITE 3 8MI AB GAGE NR SALCHAKET AK	002	090	SW			1976	1976	A	A		A	USGS	D
19030004	TANANA R AT MINTO AK	002	290	SW			1970	1970	A			A	USGS	D
19030005	MF KOYUKUK R NR WISEMAN AK	002	290	SW	1426.00	004	1970	1978	E	E		E	USGS	D
19030005	WISEMAN C AT WISEMAN AK	002	290	SW	49.20		1970		R			R	USGS	D
19030005	JIM R NR BETTLES AK	002	290	SW	465.00	004	1970		E			E	USGS	D
19030005	KOYUKUK R AT HUGHES AK	002	290	SW	18700.00	004	1965		Q	Q			USGS	D
19030005	KOYUKUK R AT HUGHES AK	002		SW			1955	1974	E	E		E	USGS	D
19030006	YUKON RIVER AT PILOT STATION AK	002	270	SW	321000.00	004	1954		Q	K		Q	USGS	D
19040001	WOOD R NR ALEKNAGIK AK	002	070	SW	1110.00	004	1958	1968	A				USGS	D
19040001	SNAKE R NR DILLINGHAM AK	002	070	SW	113.00	004	1973		A			A	USGS	D

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19040001	KUSKOKWIM R AT MCGRATH AK	002	160	SW	11700.00	004	1950	1973	E	E		E	USGS	D
19040001	KUSKOKWIM RIVER AT CROOKED CREEK AK	002	160	SW	31100.00		1951		R	A		R	USGS	D
19040002	ESKIMO C AT KING SALMON AK	002	060	SW	16.10	004	1964	1972	N	A		N	USGS	D
19040002	KVICHAK R AT IGIUGIG AK	002	070	SW	6500.00	004	1968		E				USGS	D
19040002	NUYAKUK R NR DILLINGHAM AK	002	070	SW	1490.00	004	1954	1972	R			R	USGS	D
19040002	SILVER SALMON C NR ALEKNAGIK AK	002	070	SW	4.46	004	1970	1972	N			N	USGS	D
19040002	EAST C NR DILLINGHAM AK	002	070	SW	2.12	004	1972	1976	A			A	USGS	D
19040002	UGANIK R NR KODIAK AK	002		SW			1951	1972	R			R	USGS	D
19040002	KVICHAK R AT IGIUGIG AK	002		SW			1956	1972	E			E	USGS	D
19040003	KETA R AB HILL C NR KETCHIKAN AK	002	190	SW	52.60	004	1977		H				USGS	D
19040003	HILL C AB WHITE C NR KETCHIKAN AK	002	190	SW	5.53	004	1977		H				USGS	D
19040003	WHITE C NR KETCHIKAN AK	002	190	SW	2.70	004	1977		Q				USGS	D
19040003	HILL C NR MOUTH NR KETCHIKAN AK	002	190	SW	14.00	004	1977		H				USGS	D
19040003	KETA RIVER NEAR KETCHIKAN AK	002	190	SW	77.00	004	1977		Q				USGS	D
19040003	FARRAGUT R NR PETERSBURG AK	002	280	SW	151.00	004	1977		Q				USGS	D
19050001	TERROR R AT MOUTH NR KODIAK AK	002	150	SW	46.00		1968	1968	A			A	USGS	D
19050001	UGANIK R NR KODIAK AK	002	150	SW	123.00	004	1968		A				USGS	D
19050001	CANYON C NR LARSEN BAY AK	002	150	SW	8.82	004	1973	1976	A				USGS	D
19050001	MYRTLE C NR KODIAK AK	002	150	SW	4.74	004	1968	1972	K	E		K	USGS	D
19050001	MONASHKA C NR KODIAK AK	002	150	SW	5.51	004	1968	1975	A			A	USGS	D
19050002	BARBARA C NR SELDOVIA AK	002	120	SW	20.70	004	1970	1973	K			K	USGS	D
19050002	TUTKA LAGOON C NR HOMER AK	002	120	SW	10.80	004	1972	1976	A			A	USGS	D
19050002	BRADLEY R NR HOMER AK	002	120	SW	54.00	004	1957	1972	A	R		A	USGS	D
19050002	DIAMOND C NR HOMER AK	002	120	SW	5.35	004	1951	1970	E				USGS	D
19050002	ANCHOR R NR ANCHOR PT AK	002	120	SW	137.00	004	1967	1972	R			R	USGS	D
19050002	ANCHOR R AT ANCHOR PT AK	002	120	SW	224.00	004	1951	1967	P				USGS	D
19050002	DEEP C NR NINILCHIK AK	002	120	SW	220.00		1952	1968	K	E		K	USGS	D
19050002	NINILCHIK R AT NINILCHIK AK	002	120	SW	131.00	004	1952	1975	2	A		2	USGS	D
19050002	KASILOF R NR KASILOF AK	002	120	SW	738.00	004	1949	1968	A			A	USGS	D
19050002	TRAIL R NR LAWING AK	002	210	SW	181.00	004	1949	1974	A			A	USGS	D
19050002	KENAI R AT COOPER LANDING AK	002	120	SW	634.00	004	1950	1975	A				USGS	D
19050002	KENAI RIVER AT SOLDOTNA	002	120	SW	2010.00	004	1952	1978	R	A		R	USGS	D
19050002	BEAVER C NR KENAI AK	002	120	SW	51.00	004	1952	1970	A			A	USGS	D
19050002	RESURRECTION C NR HOPE AK	002	120	SW	149.00	004	1968	1971	K	E		K	USGS	D
19050002	RESURRECTION C AT HOPE AK	002	210	SW	162.00	004	1950	1959	A				USGS	D
19050002	GLACIER C AT GIRDWOOD AK	002	020	SW	62.00	004	1956		E	E		E	USGS	D
19050002	SF CAMPBELL C AT CANYON MTH NR ANCHORAGE AK	002	020	SW	25.20	004	1966		E			E	USGS	D
19050002	SF CAMPBELL C NR ANCHORAGE AK	002	020	SW	30.40		1948	1970	E	E			USGS	D
19050002	CAMPBELL CREEK NEAR SPENARD AK	002	020	SW	69.70	004	1960		E	E		E	USGS	D
19050002	CHESTER CREEK AT ANCHORAGE AK	002	020	SW	20.00	004	1953		E	E		E	USGS	D

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19050002	CHESTER C AT ARCTIC BOULEVARD AT ANCHORAGE A	002	020	SW	27.20	004	1966		2	E		2	USGS	D
19050002	SHIP C NR ANCHORAGE AK	002	020	SW	90.50	004	1948		E	E		E	USGS	D
19050002	SHIP C AT ELMENDORF AFB NR ANCHORAGE AK	002	020	SW	113.00	014	1967	1973	E	E		E	USGS	D
19050002	EAGLE R AT EAGLE RIVER AK	002	020	SW	192.00	004	1948	1974	2	E		2	USGS	D
19050002	PETERS C NR BIRCHWOOD AK	002	020	SW	87.80		1965	1968	A				USGS	D
19050002	KNIK R NR PALMER AK	002	170	SW	1180.00	004	1948	1975	2	E		2	USGS	D
19050002	CARIBOU C NR SUTTON AK	002	170	SW	289.00	004	1949		R	A		R	USGS	D
19050002	MOOSE C NR PALMER AK	002	170	SW			1948	1971	A	A			USGS	D
19050002	MATANUSKA R AT PALMER AK	002	170	SW	2070.00	004	1948	1972	2	A		2	USGS	D
19050002	L SUSITNA R NR PALMER AK	002	170	SW	61.90	004	1948	1973	E	E		E	USGS	D
19050002	SUSITNA RIVER NEAR DENALI AK	002	170	SW	950.00	004	1957		R	R		R	USGS	D
19050002	MACLAREN R NR PAXSON AK	002	170	SW	280.00	004	1958	1975	A	A		A	USGS	D
19050002	SUSITNA R NR CANTWELL AK	002	290	SW	4140.00	004	1962	1972	A	A		A	USGS	D
19050002	SUSITNA RIVER AT GOLD CREEK AK	002	170	SW	6160.00	004	1949		2	N		N	USGS	D
19050002	CHULITNA R NR TALKEETNA AK	002	170	SW	2570.00	004	1958	1972	K	K		K	USGS	D
19050002	TALKEETNA RIVER NEAR TALKEETNA AK	002	170	SW	2006.00	004	1954		R	A		R	USGS	D
19050002	SUSITNA RIVER AT SUNSHINE AK	002	170	SW			1971		K	K		K	USGS	D
19050002	MONTANA C NR MONTANA AK	002	170	SW	164.00	004	1970	1973	A	E		A	USGS	D
19050002	SKWENTNA R NR SKWENTNA AK	002	170	SW	2250.00	004	1959	1975	A	A		A	USGS	D
19050002	SUSITNA RIVER AT SUSITNA STATION AK	002	170	SW	19400.00	004	1955		K	K		K	USGS	D
19050002	CHUITNA RIVER NEAR TYONEK AK	002	120	SW	131.00		1975		K	A		K	USGS	D
19050002	CHAKACHATNA R NR TYONEK AK	002	120	SW	1120.00	004	1955	1972	E			E	USGS	D
19050002	CHUITNA R AB CHUIT C NR TYONEK AK	002	120	SW		004	1975		N			N	USGS	D
19050002	CHUIT C AT MOUTH NR TYONEK AK	002	120	SW		004	1975		N			N	USGS	D
19050002	CHUIT C 1.6 MI AB MOUTH NR TYONEK AK	002	120	SW			1975	1975	A			A	USGS	D
19050002	CHUITNA R BL WOLVERINE F NR TYONEK AK	002	120	SW		004	1975		A			A	USGS	D
19050002	CHUIT C 5.4 MI AB MOUTH NR TYONEK AK	002	120	SW		004	1975		N			N	USGS	D
19050002	BISHOP C NR TYONEK AK	002	120	SW		004	1975		N			N	USGS	D
19050002	CAPPS C NR TYONEK AK	002	120	SW		004	1975		N	E		N	USGS	D
19050002	EKLUTNA R BL POWER PLANT NR EKLUTNA AK	002	020	SW			1972	1973	K			K	USGS	D
19050002	PETERS C AB MARTIN C AT PETERS CREEK AK	002	170	SW		004	1975		A			A	USGS	D
19050002	PETERS C NR PETERSVILLE AK	002	170	SW		004	1975		A	A		A	USGS	D
19050003	STILLWATER C NR CORDOVA AK	002	080	SW			1971	1972	E			E	USGS	D
19050003	TROUT C NR CORDOVA AK	002	080	SW			1970	1972	A			A	USGS	D
19050003	CLEAR C NR CORDOVA AK	002	080	SW			1972	1972	A			A	USGS	D
19050003	SHEPHERD C BL LK CHARLOTTE NR CORDOVA AK	002	080	SW			1970	1972	A			A	USGS	D
19050003	CARBON C NR CORDOVA AK	002	080	SW			1970	1972	R			R	USGS	D
19050003	SHEPHERD C NR CORDOVA AK	002	080	SW			1970	1972	R			R	USGS	D
19050003	DICK C NR CORDOVA AK	002	080	SW	7.95		1970		M				USGS	D
19050003	COPPER R TR NR SLANA AK	002	260	SW	4.32		1971	1975	A	A			USGS	D

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19050003	GAKONA R AT GAKONA AK	002	260	SW	620.00	004	1948	1975	E	E		E	USGS	D
19050003	GULKANA RIVER AT SOURDOUGH AK	002	260	SW	1770.00	004	1971		E	E		E	USGS	D
19050003	GULKANA R AT GULKANA AK	002	260	SW	1966.00	004	1948	1972	E	E		E	USGS	D
19050003	TAZLINA R NR GLENNALLEN AK	002	260	SW	2670.00	004	1953	1972	E	E			USGS	D
19050003	KLUTINA R AT COPPER CENTER AK	002	260	SW	880.00	004	1948	1975	Q	Q			USGS	D
19050003	LITTLE TONSINA RIVER NEAR TONSINA AK	002	260	SW	22.70	004	1971		E	E		E	USGS	D
19050003	L TONSINA R AB TONSINA R NR TONSINA AK	002	260	SW			1970	1975	A			A	USGS	D
19050003	TONSINA R AT TONSINA AK	002	260	SW	420.00	004	1950	1975	E	E		E	USGS	D
19050003	SQUIRREL C AT TONSINA AK	002	260	SW	70.50		1967		A	A			USGS	D
19050003	COPPER R NR CHITINA AK	002	260	SW	20600.00	004	1950	1975	2	A		2	USGS	D
19050003	POWER C NR CORDOVA AK	002	080	SW	20.50	004	1967		A	A			USGS	D
19050003	HUMPBACK C NR CORDOVA AK	002	080	SW	4.37	004	1972	1975	S			S	USGS	D
19050003	WF OLSEN BAY C NR CORDOVA AK	002	080	SW	4.78		1963		M				USGS	D
19050003	LOWE R NR VALDEZ AK	002	260	SW	201.00		1950	1975	E	E		E	USGS	D
19050003	LOWE R IN KEYSTONE CANYON NR VALDEZ AK	002	260	SW	222.00		1974	1976	Q	Q			USGS	D
19050003	RESURRECTION R AT SEWARD AK	002	210	SW	169.00	004	1952	1968	R	E		R	USGS	D
19050003	SPRUCE C NR SEWARD AK	002	210	SW	9.26	004	1968		E	E		E	USGS	D
19050003	CLEAR C TR NR CORDOVA AK	002	080	SW			1972	1972	A			A	USGS	D
19050003	L TONSINA R SITE A1 NR TONSINA AK	002	260	SW			1975	1975	A			A	USGS	D
19050003	L TONSINA R SITE 4 NR TONSINA AK	002	260	SW			1975	1975	A			A	USGS	D
19050003	GULKANA R AT CMPGRD NR SOURDOUGH AK	002	260	SW			1954		A	A		A	USGS	D
19060000	SALMON R NR HYDER AK	002	190	SW	94.00	004	1967	1972	A	A		A	USGS	D
19060000	RED R NR METLAKATLA AK	002	190	SW	45.30	004	1964	1975	E			E	USGS	D
19060000	BEAVER C NR KETCHIKAN AK	002	190	SW	51.98	004	1978	1978	H				USGS	D
19060000	WINSTANLEY C NR KETCHIKAN AK	002	190	SW	15.50		1949	1975	E				USGS	D
19060000	KLAHINI R NR BELL ISLAND AK	002	190	SW	58.00	004	1968	1972	K	E		K	USGS	D
19060000	HARDING R NR WRANGELL AK	002	280	SW	67.40		1964		A	A			USGS	D
19060000	STIKINE R NR WRANGELL AK	002	280	SW		004	1975		Q				USGS	D
19060000	LONG R AB LONG LK NR JUNEAU AK	002	110	SW	8.29		1966	1975	A	A			USGS	D
19060000	LONG R NR JUNEAU AK	002	110	SW	32.50	024	1967	1972	E			E	USGS	D
19060000	SPEEL R NR JUNEAU AK	002	110	SW	226.00		1960	1975	2	M			USGS	D
19060000	SHEEP C NR JUNEAU AK	002	110	SW	4.57		1948	1972	A			A	USGS	D
19060000	GOLD C AT JUNEAU AK	002	110	SW	9.76	004	1948	1975	E	E		E	USGS	D
19060000	LEMON C NR JUNEAU AK	002	110	SW	12.10	004	1948	1972	A	A		A	USGS	D
19060000	JORDON C NR AUKE BAY AK	002	110	SW			1965	1968	E			E	USGS	D
19060000	DUCK C NR AUKE BAY AK	002	110	SW			1965	1970	E			E	USGS	D
19060000	NUGGET C NR AUKE BAY AK	002	110	SW			1965	1968	E	E		E	USGS	D
19060000	MENDENHALL R NR AUKE BAY AK	002	110	SW	85.10		1965	1978	A	A		A	USGS	D
19060000	STEEP C NR AUKE BAY AK	002	110	SW			1961	1968	E			E	USGS	D
19060000	MONTANA C NR AUKE BAY AK	002	110	SW	15.50		1965	1975	A	A			USGS	D

HYDROLOGIC UNIT CODE	STATION NAME AND LOCATION	STATE	COUNTY	TYPE OF SITE	DRAINAGE AREA	BASIN DESCRIPTOR	QW BEGIN YEAR	QW END YEAR	SUSP SED CONCEN	SUSP PART SIZE	BED MAT PART SIZE	SUSP DISCHARGE	ORGANIZATION CODE	SED STOR MEDIA
19060000	LAKE C AT AUKE BAY AK	002	110	SW	2.50	004	1963	1972	R	E		R	USGS	D
19060000	AUKE C AT AUKE BAY AK	002	110	SW	3.96		1962	1975	A	A	E		USGS	D
19060000	HERBERT R NR AUKE BAY AK	002	110	SW	56.90	004	1966	1971	R	E		R	USGS	D
19060000	DAVIES C NR AUKE BAY AK	002	110	SW	15.20	004	1968	1972	A	E		A	USGS	D
19060000	WEST C NR SKAGWAY AK	002	230	SW	43.20	004	1963	1978	E			E	USGS	D
19060000	TAIYA R NR SKAGWAY AK	002	230	SW	179.00	004	1969	1978	A			A	USGS	D
19060000	CHILKAT R AT GORGE NR KLUKWAN AK	002	100	SW	190.00	004	1963	1968	S	E		S	USGS	D
19060000	WHIPPLE C NR WARD COVE AK	002	130	SW	5.29	004	1968	1978	E			E	USGS	D
19060000	PERSERVERANCE C NR WACKER AK	002	130	SW	2.81	004	1948	1968	A			A	USGS	D
19060000	KETCHIKAN C AT KETCHIKAN AK	002	130	SW	13.50	124	1965	1967	E			E	USGS	D
19060000	FISH C NR KETCHIKAN AK	002	130	SW	32.10	004	1949		E				USGS	D
19060000	KLAWAK R NR KLAWOCK AK	002	200	SW	45.80	004	1976	1978	Q				USGS	D
19060000	NB TROCADERO C NR HYDABURG AK	002	200	SW	17.40	004	1968	1972	K			K	USGS	D
19060000	HYDABURG R AT HYDABURG AK	002	200	SW			1968	1971	A			A	USGS	D
19060000	PERKINS C NR METLAKATLA	002	200	SW	3.35	004	1976		Q				USGS	D
19060000	BIG C NR POINT BAKER AK	002	200	SW	11.20		1963		Q				USGS	D
19060000	MILL C AT WRANGELL AK	002	280	SW	.09	004	1964	1965	Q				USGS	D
19060000	HAMMERS SL AT PETERSBURG AK	002	280	SW	1.46	004	1965	1965	A				USGS	D
19060000	ROCKY PASS C NR POINT BAKER AK	002	200	SW		004	1976		Q				USGS	D
19060000	NAKWASINA R NR SITKA AK	002	220	SW	31.90	004	1975		Q				USGS	D
19060000	DEER LK OUTLET NR PORT ALEXANDER AK	002	220	SW	7.41	004	1967	1967	A			A	USGS	D
19060000	TAKATZ C NR BARANOF AK	002	220	SW	17.50	004	1967	1968	A			A	USGS	D
19060000	KALININ C NR SITKA	002	220	SW	2.28	004	1975		Q				USGS	D
19060000	HASSELBORG C NR ANGOON AK	002	030	SW	56.20	004	1967	1968	A			A	USGS	D
19060000	KADASHAN R AB HOOK C NR TENAKEE AK	002	220	SW	10.20		1966		2			2	USGS	D
19060000	HOOK C AB TR NR TENAKEE AK	002	220	SW	4.48	004	1966	1978	E			E	USGS	D
19060000	HOOK C NR TENAKEE AK	002	220	SW	8.00	004	1965	1978	E			E	USGS	D
19060000	TONALITE C NR TENAKEE AK	002	220	SW	14.50		1967		2			2	USGS	D
19060000	KADASHAN R NR TENAKEE AK	002	220	SW	37.70	004	1965	1978	K			K	USGS	D
19060000	PAVLOF R NR TENAKEE AK	002	030	SW	24.30	004	1967	1975	E			E	USGS	D
19060000	HILDA C NR DOUGLAS AK	002	110	SW	2.62	004	1967	1969	A			A	USGS	D
19060000	LAWSON C AT DOUGLAS AK	002	110	SW	2.98	004	1966	1974	E			E	USGS	D
19060000	FISH C NR AUKE BAY AK	002	110	SW	13.60	004	1966	1978	E	E		E	USGS	D
19060000	LONG R AB LONG LK NR JUNEAU AK	002	110	SW			1966	1972	R	A		R	USGS	D
19060000	GRACE C AB LK NR KETCHIKAN AK	002	130	SW			1965	1966	A			A	USGS	D
19060000	TAKATZ LK TR (INLET) NR BARANOF AK	002	220	SW			1965	1966	A	A		A	USGS	D

HAWAII REGION 20

HYDROLOGIC UNIT CODE	STATION NAME AND LOCATION	STATE	COUNTY	TYPE OF SITE	DRAINAGE AREA	BASIN DESCRIPTOR	QW BEGIN YEAR	QW END YEAR	SUSP SED CONCEN	SUSP PART SIZE	BED MAT PART SIZE	SUSP DISCHARGE	ORGANIZATION CODE	SED STOR MEDIA
20 85	FY77 CHANGE OPERATION OWDC73374 TO	015	001	SW			1971		M	M	M	E	USGS	D
20010000	WAIAKEA STREAM NR MOUNTAIN VIEW, HAWAII, HI	015	001	SW	17.40	004	1971		E			E	USGS	D
20010000	WAILUKU RIVER AT PIIHONUA HAWAII HI	015	001	SW	125.00	003	1971		M	M		M	USGS	D
20010000	WAILUKU R AT HILO HI	015	001	SW	256.00	023	1977		I			I	USGS	D
20010000	HONOLII STREAM NR PAPAIKOU HAWAII HI	015	001	SW	11.60	004	1969		M	E		M	USGS	D
20020000	KAHAKULOA STREAM NR HONOKOHAU, MAUI, HI	015	009	SW	3.47	004	1974		M	M		M	USGS	D
20050000	HALAWA STREAM NR HALAWA, MOLOKAI, HI	015	009	SW	4.62	004	1969		M	M		M	USGS	D
20060000	NF KAUKONAHUA STR AB RB NR WAHIAWA, OAHU, HI	015	003	SW	1.38	004	1968		E			E	USGS	D
20060000	S F KAUKONAHUA STR AT E PUMP RE WAHIAWA,OAHU	015	003	SW	4.04	024	1968		E			E	USGS	D
20060000	R BR OF S F KAUKONAHUA STR NR WAHIAWA,OAHU,H	015	003	SW	.86	004	1968		E			E	USGS	D
20060000	POAMOHO STREAM NEAR WAHIAWA, OAHU, HI	015	003	SW	1.79	014	1967	1970	A			A	USGS	D
20060000	MAKAHA STREAM NR MAKAHA, OAHU, HI	015	003	SW	2.31	004	1967		E			E	USGS	D
20060000	KAUPUNI ST A ALT374F NR WAIANAE HI	015	003	SW	3.58	014	1970	1973	E			E	USGS	D
20060000	KIPAPA STREAM NR WAHIAWA, OAHU, HI	015	003	SW	4.29	004	1968		O	B		O	USGS	D
20060000	KIPAPA STREAM NEAR WAIPAHU, OAHU, HI	015	003	SW	13.80	024	1967	1968	R	E		R	USGS	D
20060000	WAIKELE STREAM AT WAIPAHU, OAHU, HI	015	003	SW	45.70	024	1967		O	B		O	USGS	D
20060000	WAIAWA STREAM NR PEARL CITY, OAHU, HI	015	003	SW	26.40	024	1967		E	E		E	USGS	D
20060000	WAIMALU ST NR AIEA HI	015	003	SW	5.97	004	1968	1970	R	E		R	USGS	D
20060000	KALAUAO STREAM AT MOANALUA RD,AT AIEA,OAHU,	015	003	SW	2.59	003	1967		E			E	USGS	D
20060000	MOANALUA STREAM NR KANEOHE, OAHU, HI	015	003	SW	.94	004	1969		O			O	USGS	D
20060000	MOANALUA STREAM TRIB NR KANEOHE, OAHU, HI	015	003	SW	.62	004	1969		E	E		E	USGS	D
20060000	MOANALUA STREAM TRIBUTARY NEAR AIEA, OAHU, H	015	003	SW	.03		1973		A			A	USGS	D
20060000	MOANALUA STREAM NEAR HONOLULU, OAHU, HI	015	003	SW	2.73	004	1970		A			A	USGS	D
20060000	MOANALUA STREAM NEAR AIEA, OAHU, HI	015	003	SW	3.34	004	1969		Y	B		4	USGS	D
20060000	MOANALUA STREAM NR TRIPLER HOSPITAL,OAHU, HI	015	003	SW	4.44	004	1971		E			E	USGS	D
20060000	KALIHI STREAM NR KANEOHE, OAHU, HI	015	003	SW	.60	004	1968	1970	E			E	USGS	D
20060000	KALIHI STREAM NR HONOLULU, OAHU, HI	015	003	SW	2.61		1969		E	E		E	USGS	D
20060000	KALIHI STREAM AT KALIHI, OAHU, HI	015	003	SW	5.18	003	1967		M	E		M	USGS	D
20060000	WAIHI STREAM AT HONOLULU, OAHU, HI	015	003	SW	1.14	004	1970		E			E	USGS	D
20060000	WAIAKEAKUA STREAM AT HONOLULU, OAHU, HI	015	003	SW	1.06	004	1970		E			E	USGS	D
20060000	WAIMANALO ST AT WAIMANALO HI	015	003	SW	2.16	013	1968	1975	E			E	USGS	D
20060000	MAKAWAO STREAM NEAR KAILUA, OAHU, HI	015	003	SW	2.04	004	1967		E			E	USGS	D
20060000	MAUNAWILI ST AT HWY 61 N KAILUA HI	015	003	SW	5.34	003	1967	1975	E	E		E	USGS	D
20060000	KAMOOAUI ST BL KUOU ST	015	003	SW	3.21	003	1967	1976	O	Y		2	USGS	D
20060000	KAMOOALII STREAM BELOW LULUKU STREAM, OAHU H	015	003	SW			1976		O			O	USGS	D
20060000	KAMOOALII STREAM AT KANEOHE, OAHU, HI	015	003	SW	4.38		1967		E	E		Z	USGS	D
20060000	KAHALUU ST AT KAHALUU HI	015	003	SW	3.73	023	1967	1973	A	A		E	USGS	D
20060000	WAIHEE STREAM AT KAHALUU HI	015	003	SW	2.26	024	1967	1973	A	A			USGS	D
20060000	KAMANANUI STR AT PUPUKEA MIL RD NR MAUNAWAI,	015	003	SW	3.13	004	1970		E			E	USGS	D
20060000	KAIWIKOELE STREAM TRIB NR MAUNAWAI,OAHU,HI	015	003	SW	.97	004	1968	1969	A			A	USGS	D

HYDROLOGIC UNIT CODE	STATION NAME AND LOCATION	STATE	COUNTY	TYPE OF SITE	DRAINAGE AREA	BASIN DESCRIPTOR	QW BEGIN YEAR	QW END YEAR	SUSP SED CONCEN	SUSP PART SIZE	BED MAT PART SIZE	SUSP DISCHARGE	ORGANIZATION CODE	SED STOR MEDIA
20060000	KAMANANUI ST AT MAUNAWAI HI	015	003	SW	9.79	004	1968		E				USGS	D
20060000	HELEMANO STREAM AT HALEIWA, OAHU, HI	015	003	SW	14.20	024	1967		E			E	USGS	D
20060000	OPAEULA STREAM NR WAHIAWA, OAHU, HI	015	003	SW	2.98	004	1967		E			E	USGS	D
20060000	KAUKONAHUA ST AT WAIALUA HI	015	003	SW			1970	1970	M	M	M		USGS	
20060000	FY77 CHANGE OPERATION OWDC73397 TO	015	003	SW			1967		E			E	USGS	D
20060000	FY77 CHANGE OPERATION OWDC73358 TO	015	003	SW			1971	1973	M	M	M		USGS	
20060000	KAMOOALII STR AB HECO SUBSTA NR KANEOHE OAHU	015	003	SW			1976	1976	A			A	USGS	D
20060000	KAMOOALII STR AT OLD PALI RD NR KANEOHE OAHU	015	003	SW			1976	1976	A			A	USGS	D
20060000	KUOU STR BELOW BWS WELLS NR KANEOHE OAHU HI	015	003	SW			1976	1976	A			A	USGS	D
20060000	ANOLANI STR AT LIKELIKE HWY KANEOHE OAHU HI	015	003	SW			1976	1976	A			A	USGS	D
20060000	UNNAMED TRIBUTARY TO KANEOHE STREAM, OAHU, H	015	003	SW			1970	1971	A			A	USGS	D
20060000	KAHALUU STR AT ALT 10 FT AT KAHALUU OAHU HI	015	003	SW			1976	1976	Q				USGS	D
20060000	KAHALUU STREAM BL WAIHEE STR CONFL, OAHU, HI	015	003	SW			1970	1970	A			A	USGS	D
20060000	KAHALUU STR AT HWY 83 AT KAHALUU OAHU HI	015	003	SW			1976	1976	Q				USGS	D
20070000	WAIMEA RIVER NR WAIMEA, KAUAI, HI	015	007	SW	57.80		1971		M	M		M	USGS	D
20100003	LA SA FUA RIVER NEAR UMATAC GUAM	066		SW	1.06	004	1972	1973	Q	Q	Q		USGS	D
20100003	UMATAC R AT UMATAC GUAM	066		SW	2.11		1972	1973	Y	Y	Q		USGS	D
20100003	GEUS RIVER NR MERIZO GUAM	066		SW	.93	024	1972	1975	P	P	Q		USGS	D
20100003	TALOFOFO RIVER NEAR TALOFOFO, GUAM	066		SW	16.10	124	1972	1973	D	D			USGS	D
20100003	PAGO R NR ORDOT GU	066		SW	5.67	004	1978		M			M	USGS	D

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	CARIBBEAN REGION 21													
21	RIO GRANDE DE LOIZA AT CAGUAS, PR	072	013	SW	89.80	014	1959		Q			E	USGS	D
21 94	SAN JOSE LAGOON NO 1 AT SAN JUAN, PR	072	063	ES			1974		Q				USGS	D
21 94	SAN JOSE LAGOON NO 2 AT SAN JUAN, PR	072	060	ES			1974		Q				USGS	P
21 94	SAN JUAN BAY NO 5 AT SAN JUAN, PR	072	063	ES			1974		Q				USGS	D
21 94	SAN JUAN BAY NO 3 AT SAN JUAN, PR	072		ES			1974		Q				USGS	D
21 94	QUEBRADA BLASINA NR CAROLINA, PR	072	064	SW			1970		Q	B		E	USGS	D
21 94	RIO GRANDE DE LOIZA AT CENTRAL CANOVANAS, PR	072	043	SW			1972		Q	B		E	USGS	D
21 94	RIO FAJARDO BELOW FAJARDO, PR	072	026	SW			1974		Q	B		E	USGS	D
21 94	RIO PORTUGUES AT HWY 2 BY PASS AT PONCE, PR	072	056	SW			1975		Q	B		E	USGS	D
21 94	RIO GUAYANILLA AT BARRIO MACANA, PR	072	029	SW			1974		Q	B		E	USGS	D
21 94	RIO GUAYANILLA AT CENTRAL RUFINA, PR	072	029	SW			1974		Q	B		6	USGS	D
21 94	RIO LOCO AT GUANICA, PR	072	029	SW			1975		Q	B		E	USGS	D
21 94	RIO GUANAJIBO AT HWY 119 AT SAN GERMAN, PR	072	062	SW			1975		Q	B		6	USGS	D
21 94	RIO YAGUEZ AT PRESADA DE MAYAGUEZ, PR	072	048	SW			1975		Q	B		E	USGS	D
21 94	RIO GRANDE DE ANASCO NR ANASCO, PR	072	006	SW			1974		Q	B		9	USGS	D
21010001	RIO GUAJATACA AT LARES, PR	072	040	SW	3.16		1958		Q			E	USGS	D
21010001	RIO CAMUY NR LARES, PR	072	040	SW	7.62		1958	1971	2	A		2	USGS	D
21010001	RIO CRIMINALES NR LARES PR	072	070	SW	4.68	004	1959	1971	2	R		2	USGS	D
21010001	RIO GRANDE DE ARRECIBO NR ADJUNTAS	072	001	SW	18.70	004	1969	1974	E			E	USGS	D
21010001	RIO PELLEJAS AT CENTRAL PELLEJAS	072	001	SW	5.46		1963	1974	A			7	USGS	D
21010001	QUEBRADA AZUL AT CENTRAL PELLEJAS, PR	072	001	SW			1973	1975	R			R	USGS	D
21010001	RIO PELLEJAS BL CENTRAL PELLEJAS	072	001	SW	7.89		1971	1974	E			E	USGS	D
21010001	RIO PELLEJAS NR UTUADO PR	072	070	SW	9.55	004	1969	1974	O	O		E	USGS	P
21010001	RIO VIVI NR CENTRAL PELLEJAS PR	072	070	SW	5.66	004	1963	1974	O	O		7	USGS	P
21010001	RIO VIVI DIVER TUNNEL NR UTUADO PR	072	070	CN		024	1969	1974	E			E	USGS	D
21010001	QUEBRADA JORDAN NR UTUADO PR	072	070	SW	1.22	004	1969	1974	E			E	USGS	D
21010001	RIO GRANDE DE ARECIBO NR UTUADO PR	072	070	SW	66.20	004	1958	1974	M	M		E	USGS	P
21010001	RIO JAUCA NR JAYUYA PR	072	036	SW	4.44	004	1969	1974	E			E	USGS	D
21010001	RIO CAONILLAS NR JAYUYA, PR	072	070	SW	36.80		1959	1970	E			E	USGS	D
21010001	RIO LIMON NR HACIENDA ETUON PR	072		SW			1971	1974	B	B			USGS	D
21010001	RIO GRANDE DE ARECIBO BELOW LAGO DOS BOCAS,	072	007	SW	169.00		1970	1975	E				USGS	D
21010001	RIO GRANDE DE ARECIBO BL LAGO DOS BOCAS FLA,	072	007	SW			1974		E			E	USGS	D
21010001	RIO TANAMA NR UTUADO, PR	072	070	SW	18.40	004	1913		O	O		E	USGS	D
21010001	RIO GRANDE DE MANATI NR MOROVIS, PR	072	050	SW	55.20	004	1960		A			A	USGS	D
21010001	RIO SANA MUERTO NR OROCOVIS, PR	072	050	SW	3.68		1966	1973	E			E	USGS	D
21010001	RIO BAUTA NR OROCOVIS, PR	072	053	SW	16.60	004	1958		2	E		2	USGS	D
21010001	RIO GRANDE DE MANATI AT CIALES, PR	072	019	SW	128.00		1968	1975	H			H	USGS	D
21010001	RIO GRANDE DE MANATI AT HWY 145 AT CIALES, P	072	019	SW	132.00	004	1959		Q			E	USGS	D
21010001	RIO CIALITOS AT HWY 649 AT CIALES, PR	072	019	SW	17.00		1969		E			E	USGS	D
21010001	RIO COROZAL AT COROZAL, PR	072	023	SW	9.12		1953		[illegible]			[illegible]	USGS	D

HYDROLOGIC UNIT CODE	STATION NAME AND LOCATION	STATE	COUNTY	TYPE OF SITE	DRAINAGE AREA	BASIN DESCRIPTOR	QW BEGIN YEAR	QW END YEAR	SUSP SED CONCEN	SUSP PART SIZE	BED MAT PART SIZE	SUSP DISCHARGE	ORGANIZATION CODE	SED STOR MEDIA
21010001	RIO CIBUCO BL COROZAL PR	072	023	SW	15.10	004	1969	1974	R			R	USGS	D
21010002	CANAL DIVERSION LAGO GUAJATACA, PR	072	035	SW			1958		E			E	USGS	D
21010002	RIO GUAJATACA ABOVE MOUTH NR QUEBRADILLAS, P	072	035	SW	63.10		1969		Q			E	USGS	D
21010002	RIO CAMUY AT LA CUESTA, PR	072	032	SW			1959	1971	E			E	USGS	D
21010002	RIO CAMUY NR CAMUY PR	072	032	SW		014	1969	1974	A	A		9	USGS	D
21010002	RIO TANAMA AT CHARCO HONDO, PR	072	007	SW	57.60		1969	1971	A			E	USGS	D
21010002	RIO GRANDE DE ARECIBO AT CENTRAL CAMBALACHE,	072	007	SW		014	1963		E			E	USGS	D
21010002	RIO GRANDE DE MANATI AT HWY 667 AT MANATI, P	072	045	SW			1963	1969	R			R	USGS	D
21010002	RIO GRANDE DE MANATI AT HIGHWAY 2	072	009	SW		004	1969		A	A			USGS	
21010002	LAGUNA TORTUGUERO OUTLET NR VEGA BAJA, PR	072	045	SW			1964		E			E	USGS	D
21010002	RIO CIBUCO NR VEGA BAJA, PR	072	071	SW			1958	1969	Q			Q	USGS	D
21010002	RIO UNIBON NR MOROVIS, PR	072	050	SW	5.29		1958	1970	A			A	USGS	D
21010002	RIO INDIO NR VEGA BAJA, PR	072	072	SW			1958	1971	E			E	USGS	D
21010002	RIO CIBUCO AT VEGA BAJA, PR	072	072	SW		004	1972		E			E	USGS	D
21010002	RIO CIBUCO AT CENTRAL SAN VICENTE, PR	072	072	SW	92.50		1969	1974	E			E	USGS	D
21010002	RIO GRANDE DE MANATI AT HWY 2 NR MANATI, PR	072		SW			1976		E			E	USGS	D
21010003	RIO GUANAJIBO AT LA PICA PR	072	062	SW			1974	1974	K			R	USGS	D
21010003	RIO ROSARIO AT ROSARIO PR	072	062	SW	17.60		1963	1975	A			A	USGS	D
21010003	RIO GUANAJIBO NR HORMIGUEROS, PR	072	033	SW	120.00	004	1958		Q			9	USGS	D
21010003	RIO YAGUEZ AT MAYAGUEZ, PR	072	048	SW	13.20	003	1974		Q	B		E	USGS	D
21010003	R YAHUECAS HWY 135 NR ADJUNTAS PR	072	001	SW			1969	1971	A			7	USGS	C
21010003	RIO GRANDE DE ANASCO NR LARES, PR	072	065	SW	26.30		1959		Q			6	USGS	D
21010003	RIO GRANDE DE ANASCO NR SAN SEBASTIAN, PR	072	056	SW	94.30	004	1963		Q			9	USGS	D
21010003	RIO GRANDE DE ANASCO AT EL ESPINO, PR	072	006	SW	108.00		1959	1970	E				USGS	D
21010003	RIO CULEBRINAS AT SAN SEBASTIAN, PR	072	065	SW	16.60	004	1962		A			A	USGS	D
21010003	RIO CULEBRINAS AT HWY 404 NR MOCA, PR	072	049	SW	71.20	004	1967		A	E		E	USGS	D
21010003	RIO CULEBRINAS NR MOCA, PR	072	049	SW	83.30		1959	1968	R			R	USGS	D
21010003	RIO CULEBRINAS NR AGUADA, PR	072	002	SW	97.00	004	1958		K			K	USGS	D
21010004	RIO JACABOA AT HACIENDA SAN ISIDRO, PR	072	054	SW	5.23		1963	1974	A			A	USGS	D
21010004	RIO GRANDE DE PATILLAS NR PATILLAS	072	054	SW	18.30	004	1959		E			E	USGS	D
21010004	RIO GRANDE DE PATILLAS AT PATILLAS, PR	072	054	SW	27.90		1974		Q	B		E	USGS	D
21010004	RIO GUAMANI NR GUAYAMA, PR	072	028	SW	12.30	014	1960	1970	E			E	USGS	D
21010004	RIO MAJADA AT LA PLENA, PR	072	061	SW	16.70	004	1973		E			E	USGS	D
21010004	RIO COAMO NR COAMO PR	072	021	SW	46.00	004	1959		E			E	USGS	D
21010004	RIO DESCALABRADO NR LOS LLANOS PR	072	037	SW	12.90	004	1960	1975	A			A	USGS	D
21010004	RIO TOA VACA AT HWY 150 NR VILLALBA, PR	072	074	SW	19.30		1958	1969	E	9		9	USGS	D
21010004	RIO TOA VACA NR VILLALBA, PR	072	074	SW	21.40		1966	1970	E			E	USGS	D
21010004	RIO INABON AT REAL ABAJO, PR	072	056	SW	9.70	004	1962		E			E	USGS	D
21010004	RIO CERRILLOS NR PONCE, PR	072	056	SW	7.80	004	1964		Y	Y		E	USGS	D
21010004	RIO BUCANA NR PONCE, PR	072	056	SW	25.60	014	1958		Y	Y		E	USGS	D

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21010004	RIO PORTUGUES NR PONCE, PR	072	056	SW	10.40	004	1964		Q	Q		E	USGS	D
21010004	RIO TALLABOA AT PENUELAS PR	072	055	SW	24.20	004	1958	1975	Q			E	USGS	D
21010004	RIO MACANA NR GUAYANILLA, PR	072	029	SW			1960	1974	A				USGS	D
21010004	RIO GUAYANILLA NR GUAYANILLA, PR	072	029	SW	18.50		1960	1970	E			E	USGS	D
21010004	RIO GUAYANILLA AT GUAYANILLA PR	072	029	SW	20.80	004	1960	1974	A			E	USGS	D
21010004	RIO YAUCO AT CENTRAL SAN FRANCISCO, PR	072	029	SW			1960	1974	K			K	USGS	D
21010005	RIO DE LA PLATA AT PROYECTO LA PLATA, PR	072	005	SW	54.80	014	1959		Q	E		E	USGS	D
21010005	RIO LAJAS AT TOA ALTA PR	072	067	SW	8.65	004	1966	1975	Q			Q	USGS	D
21010005	RIO LAJAS AT TOA ALTA P R	072	067	SW	8.65		1958	1968	E				USGS	D
21010005	RIO DE LA PLATA AT TOA ALTA, PR	072	025	SW	200.00	014	1958		E			E	USGS	D
21010005	RIO DE BAYAMON NR AGUAS BUENAS, PR	072	004	SW	18.50		1958		E			E	USGS	D
21010005	RIO DE BAYAMON AT HWY 174 NR BAYAMON, PR	072	011	SW	31.90		1958	1970	A	A		A	USGS	D
21010005	RIO DE BAYAMON NR BAYAMON, PR	072	011	SW	41.80		1964	1971	E	E		E	USGS	D
21010005	RIO GUAYNABO AT LA MUDA NEAR GUAYNABO,P.R.	072		SW			1974	1974	K			K	USGS	D
21010005	RIO GUAYNABO AT HWY 836 NEAR GUAYNABO, P.R.	072		SW			1974		E			E	USGS	D
21010005	RIO DE BAYAMON AT BAYAMON PR	072	011	SW	71.90		1959	1974	A				USGS	D
21010005	R DE BAYAMON AT H 167 AT BAYAMON	072	011	SW			1969	1974	E				USGS	D
21010005	RIO DE BAYAMON AT BAYAMON FLOOD-CHANNEL, PR	072	011	SW			1973		E			E	USGS	D
21010005	QUE LAS CURIAS NR RIO PIEDRAS PR	072	063	SW	1.50	013	1972		E			E	USGS	D
21010005	QUEBRADA LAS CURIAS TRIBUTARY NR RIO PIEDRAS	072	063	SW	1.65	003	1972		Q			E	USGS	P
21010005	RIO PIEDRAS NR RIO PIEDRAS, PR	072	063	SW	8.07	003	1971		Q			E	USGS	P
21010005	RIO PIEDRAS AT RIO PIEDRAS, PR	072	063	SW	12.50	013	1960	1975	R			R	USGS	D
21010005	RIO PIEDRAS AT HATO REY, PR	072	063	SW	15.40	013	1970		Q	E		E	USGS	D
21010005	QUE MARGARITA AT CA PARRA HTS PR	072		SW	1.77	003	1972	1975	E				USGS	D
21010005	RIO CAGUITAS AT HWY 30 AT CAGUAS PR	072	013	SW	17.50	003	1973		Q			E	USGS	P
21010005	RIO BAIROA NR CAGUAS, PR	072	013	SW	5.40		1958	1974	R			R	USGS	D
21010005	RIO VALENCIANO NR LAS PIEDRAS PR	072	042	SW	6.85	004	1971	1974	Y	Y		9	USGS	D
21010005	RIO VALENCIANO NR JUNCOS, PR	072	013	SW	16.40	004	1971		Q			E	USGS	P
21010005	RIO GURABO AT GURABO, PR	072	031	SW	60.20	004	1958		Q	E		E	USGS	D
21010005	RIO CANAS ABOVE LAGO LOIZA, PR	072	013	SW			1973	1974	R			R	USGS	D
21010005	RIO CANOVANAS NR CAMPO RICO, PR	072	043	SW	9.84	004	1967		E			E	USGS	D
21010005	RIO HERRERA NR COLONIA DOLORES PR	072	059	SW	2.75	004	1966	1974	R			R	USGS	D
21010005	RIO ESPIRITU SANTO NR EL VERDE PR	072	059	SW	2.23	004	1963	1974	E			E	USGS	D
21010005	RIO ESPIRITU SANTO NR RIO GRANDE, PR	072	059	SW	8.62	004	1958		A	A		E	USGS	D
21010005	RIO GRANDE NR EL VERDE, PR	072	059	SW	7.31	004	1967		E			E	USGS	D
21010005	RIO MAMEYEZ NR SABANA PR	072	059	SW	6.88	004	1967	1974	E			E	USGS	D
21010005	RIO MAMEYES AT HWY 191 AT MAMEYES, PR	072	059	SW	11.80	004	1966		E			E	USGS	D
21010005	RIO MAMEYES AT MAMEYES, PR	072	059	SW	13.50		1958		E				USGS	D
21010005	RIO FAJARDO NR FAJARDO, PR	072	026	SW	14.90	004	1961		Q			E	USGS	D
21010005	RIO FAJARDO AT FAJARDO, PR	072	026	SW	21.60		1958	1974	E				USGS	D

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21010005	QUEBRADA PALMA AT DAGUAO, PR	072	051	SW	4.84	004	1965		E			E	USGS	D
21010005	RIO BLANCO AT RIO BLANCO, PR	072	051	SW	17.60		1958		E			E	USGS	D
21010005	RIO HUMACAO AT LAS PIEDRAS, PR	072	042	SW	6.65		1959		Q			E	USGS	D
21010005	RIO HUMACAO NR HUMACAO PR	072	034	SW		004	1972	1973	A			A	USGS	D
21010005	RIO HUMACAO AT HWY 3 AT HUMACAO, PR	072	034	SW	17.30		1958		Q			E	USGS	P
21010005	RIO GUAYANES NR COLONIA LAURA, PR	072	075	SW	4.69	004	1969		Q			E	USGS	D
21010005	RIO GUAYANES NR YABUCOA, PR	072	075	SW	17.20		1968	1973	E			E	USGS	D
21010005	RIO LIMONES NR YABUCOA, PR	072	075	SW	7.89		1969	1973	E			E	USGS	D
21010005	RIO GUAYANES ABV MOUTH AT PLAYA DE GUAYANES,	072	075	SW	39.30		1974		Q	B		E	USGS	D
21010005	RIO MAUNABO AT LIZAS, PR	072	047	SW	5.15	004	1971	1974	R			R	USGS	D
21010005	RIO MAUNABO AT MAUNABO, PR	072	047	SW	12.40	004	1958		E			E	USGS	D

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50	BENOKI-GAWA AT BENOKI, OKINAWA	073		SW	3.80	004	1963	1971	A				USGS	
50	YONA-GAWA AT YONA, OKINAWA	073		SW	1.70	004	1963	1975	2			2	USGS	D
50	TAKAZATO-GAWA NEAR HAMA, OKINAWA	073		SW	.90	004	1967	1968	Q				USGS	
50	TAIHO-OKAWA AT TAIHO OKINAWA RK	073		SW	5.20	004	1967	1972	B				USGS	D
50	RIGHT BRANCH OF SF HENAN-GAWA NR TSUHA, OKIN	073		SW	.70	004	1963	1971	Q				USGS	
50	HANECHI-OKAWA AT KAWAKAMI OKINAWA	073		SW	4.40	024	1963	1975	2			2	USGS	D
50	OI-KAWA AT JINGUSUKU, OKINAWA	073		SW	3.10	004	1965	1969	Q				USGS	D
50	YONABARU-GAWA BL ZUKEYAMA DAM OKINAWA	073		SW	1.90	014	1968	1968	A				USGS	D
50	BISHI-GAWA AT KADENA OKINAWA	073		SW	14.00	124	1968	1968	A				USGS	D
50	NAGATA-GAWA AT KADENA OKINAWA	073		SW	4.00	004	1967	1971	A				USGS	C
50	MACHINATO-GAWA NR OJANA, OKINAWA	073		SW	1.70	004	1965	1971	A				USGS	D
50	TENGAN-GAWA AT TENGAN, OKINAWA	073		SW	10.00	124	1967	1971	A				USGS	D
50	OKUKUBI-GAWA AT KIN, OKINAWA	073		SW	5.00	124	1968	1968	Q				USGS	D
50	KANNA-GAWA NR KANNA, OKINAWA	073		SW	.90	004	1966	1971	Q				USGS	D
50	UFU-KAWA NEAR GINOZA, OKINAWA	073		SW	1.30	024	1966	1967	Q				USGS	D
50	LEFT FORK O-KAWA NR KUSHI, OKINAWA	073		SW	.30	004	1965	1971	A				USGS	D
50	OURA-GAWA AT OKAWA OKINAWA	073		SW	1.90	004	1966	1971	Q				USGS	D
50	FUKUJI-GAWA NR YUBARU OKINAWA	073		SW	5.80	004	1964	1971	Q				USGS	D
50	FUKUJI-GAWA AT FUKUJI OKINAWA RK	073		SW	12.00	004	1964	1975	2			2	USGS	D
50	MIYAGI-GAWA AT MIYAGI, OKINAWA	073		SW	1.80	004	1969	1971	Q				USGS	D
50	ARA-KAWA AT ARAKAWA OKINAWA RK	073		SW	3.80	004	1969	1975	Q			2	USGS	D
50	AHA-GAWA AT AHA, OKINAWA	073		SW	9.50	004	1963	1975	2			2	USGS	D
50	FUN-GAWA NEAR AHA OKINAWA	073		SW	3.30	004	1964	1971	Q				USGS	D
500095	GENKA-KAWA NEAR GENKA, OKINAWA	073		SW	3.90	004	1964	1975	2			2	USGS	D

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Subcommittee on Sedimentation

1977

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Note: The Sedimentation Committee of the Water Resources Council was abolished October 1977. The Committee activities were resumed officially in October 1978 under the Interagency Advisory Committee on Water Data's Subcommittee on Sedimentation.

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